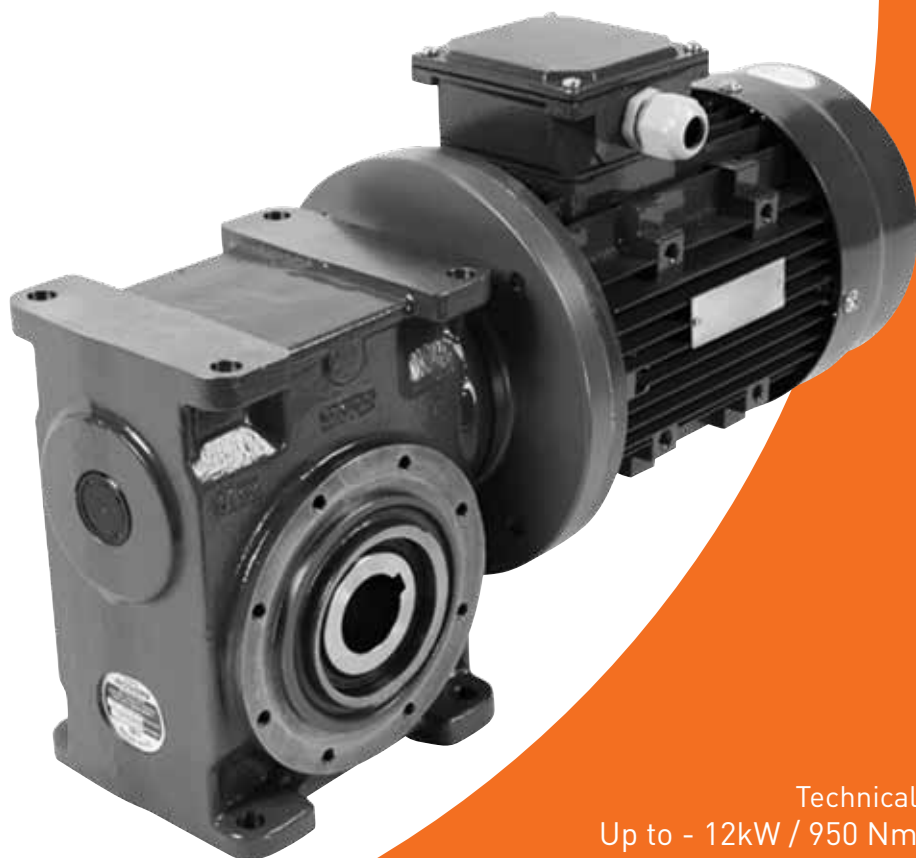


# benzlers<sup>®</sup>

with you at every turn

Series A Junior Worm Gear

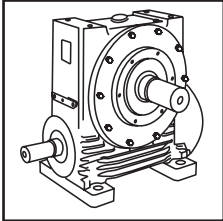


Technical  
Up to - 12kW / 950 Nm

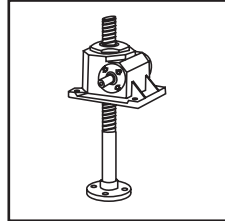
Worm Gears  
CAJ-2.00GB1211

# PRODUCTS IN THE RANGE

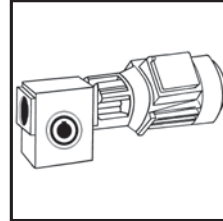
Serving an entire spectrum of mechanical drive applications from food, energy, mining and metal; to automotive, aerospace and marine propulsion, we are here to make a positive difference to the supply of drive solutions.



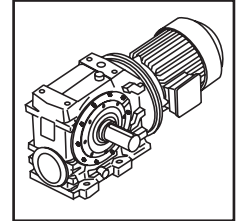
**Series A**  
Worm Gear units  
and geared motors  
in single & double  
reduction types



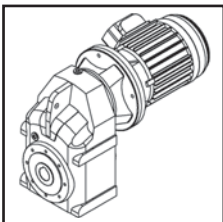
**Series BD**  
Screwjack worm  
gear unit



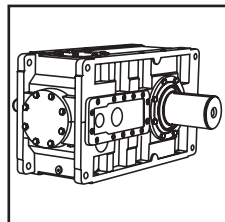
**Series BS**  
Worm gear unit



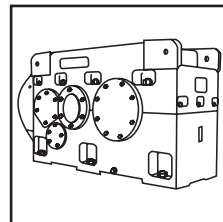
**Series C**  
Right angle drive  
helical worm geared  
motors & reducers



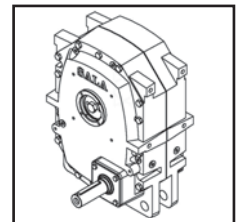
**Series F**  
Parallel angle helical  
bevel helical geared  
motors & reducers



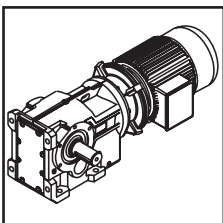
**Series G**  
Helical parallel shaft  
& bevel helical right  
angle drive gear  
units



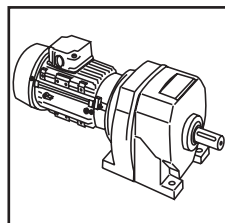
**Series H**  
Large helical parallel  
shaft & bevel helical  
right angle drive units



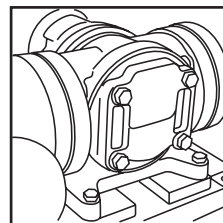
**Series J**  
Shaft mounted  
helical speed  
reducers



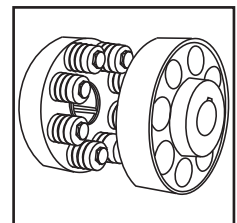
**Series K**  
Right angle helical  
bevel helical geared  
motors & reducers



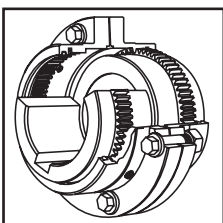
**Series M**  
In-line helical geared  
motors & reducers



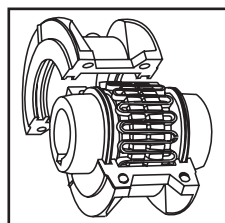
**Roloid Gear Pump**  
Lubrication and fluid  
transportation pump



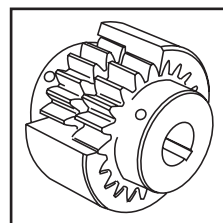
**Series X  
Cone Ring**  
Pin and bush  
elastomer coupling



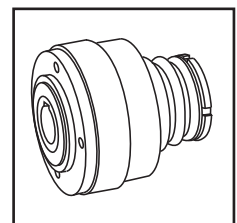
**Series X  
Gear**  
Torsionally rigid,  
high torque coupling



**Series X  
Grid**  
Double flexing steel  
grid coupling



**Series X  
Nylon**  
Gear coupling with  
nylon sleeve



**Series X  
Torque Limiter**  
Overload protection  
device



We offer a wide range of repair services and many years experience of repairing demanding and highly critical transmissions in numerous industries.

We can create custom engineered transmission solutions of any size and configuration.

# ATEX Compliance Assured



Total compliance with the ATEX Directive safeguarding the use of industrial equipment in potentially explosive atmospheres is assured for users of our geared products.

Certification is available for standard gearboxes and geared motors with badging displaying the CE Mark and the Ex mark, name and location of the manufacturer, designation of series or type, serial number, year of manufacture, Ex symbol and equipment group/category.

ATEX directive 94/9/EC (also known as ATEX 95 or ATEX 100A) and the CE Marking Directive are enforced in all EC member states. Compliance is compulsory for designers, manufacturers or suppliers of electrical and non-electrical equipment for use in potentially explosive atmospheres created by the presence of flammable gases, vapours, mists or dusts.

Ex compliant standard gearboxes can be supplied against Groups 2 or 3 for surface industries in designated hazardous location Zones 1 and 2 for gases, vapours and mists; and in Zones 21 and 22 for dusts.

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## GENERAL DESCRIPTION

### Single Reduction Units (worm)

Series A Junior is offered in unit sizes 280, 410, 510, 610, 730 and 860 based on a single universal case for each size, giving a high degree of common parts and interchangeability. Units can be mounted in the under driven, over driven and vertical mounting positions and provide a choice of shaft arrangements for either motorised or reducer versions. Motors can be close coupled in frame sizes 63 to 132 in powers from 0.12 kW to 11 kW.

All units are designed with hollow output bores, output shafts can be fitted allowing handing to be changed without dismantling the unit. Double extended output shafts are also available.

Series A Junior gives a choice of 12 standard ratios from 5/1 to 70/1 and important features include high efficiencies and load carrying capacities combined with long life and reliability.

All units are lubricated for life to reduce maintenance to a minimum.

### Double Reduction Units (worm/worm)

These units consist of a standard single reduction unit with a smaller shaft mounted Series A unit fitted to the input shaft. The range extends the ratios available up to the maximum of 4200/1 making them ideal for fitting to slow moving machinery.

As with the single reduction units they are available in underdriven, over-driven and vertical types, foot mounting and shaft mounting. All lubricated for life.

### Motorised Units

Units are designed to be close coupled with standard dimension IEC motors. Units are also available to accept standard dimension NEMA motors (consult our Application Engineers).

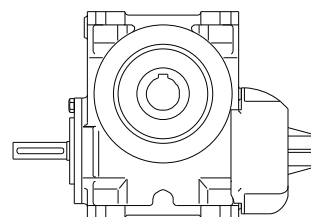
### Lubricated for life - fit and forget

Series A Junior units are factory filled with synthetic lubricant which means.

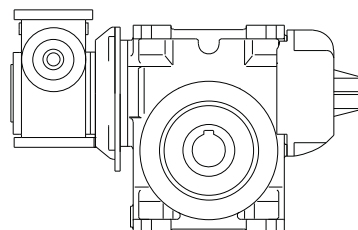
- no oil level checks, topping up, draining or re-filling
- no routine maintenance or danger of starting up without lubricant
- they will mount in any location, however inaccessible
- they are particularly suitable for locations where non contamination through leakage is essential.

For units running at input speeds below 500 rev/min with either the input or output shaft vertical, also for the second stage of all double reduction units irrespective of shaft disposition the lubricant level is simply increased - see lubrication instructions.

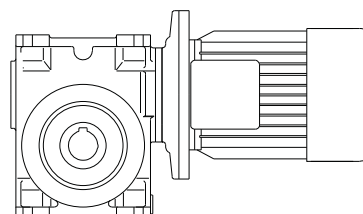
*As improvements in design are being made continually this specification is not to be regarded as binding in detail and drawings and capacities are subject to alteration without notice. Certified drawings will be sent on request.*



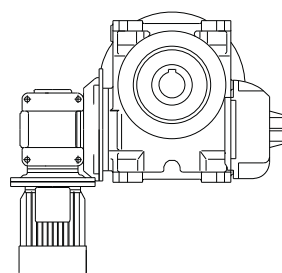
Single Reduction Units (worm)



Double Reduction Units (worm/ worm)

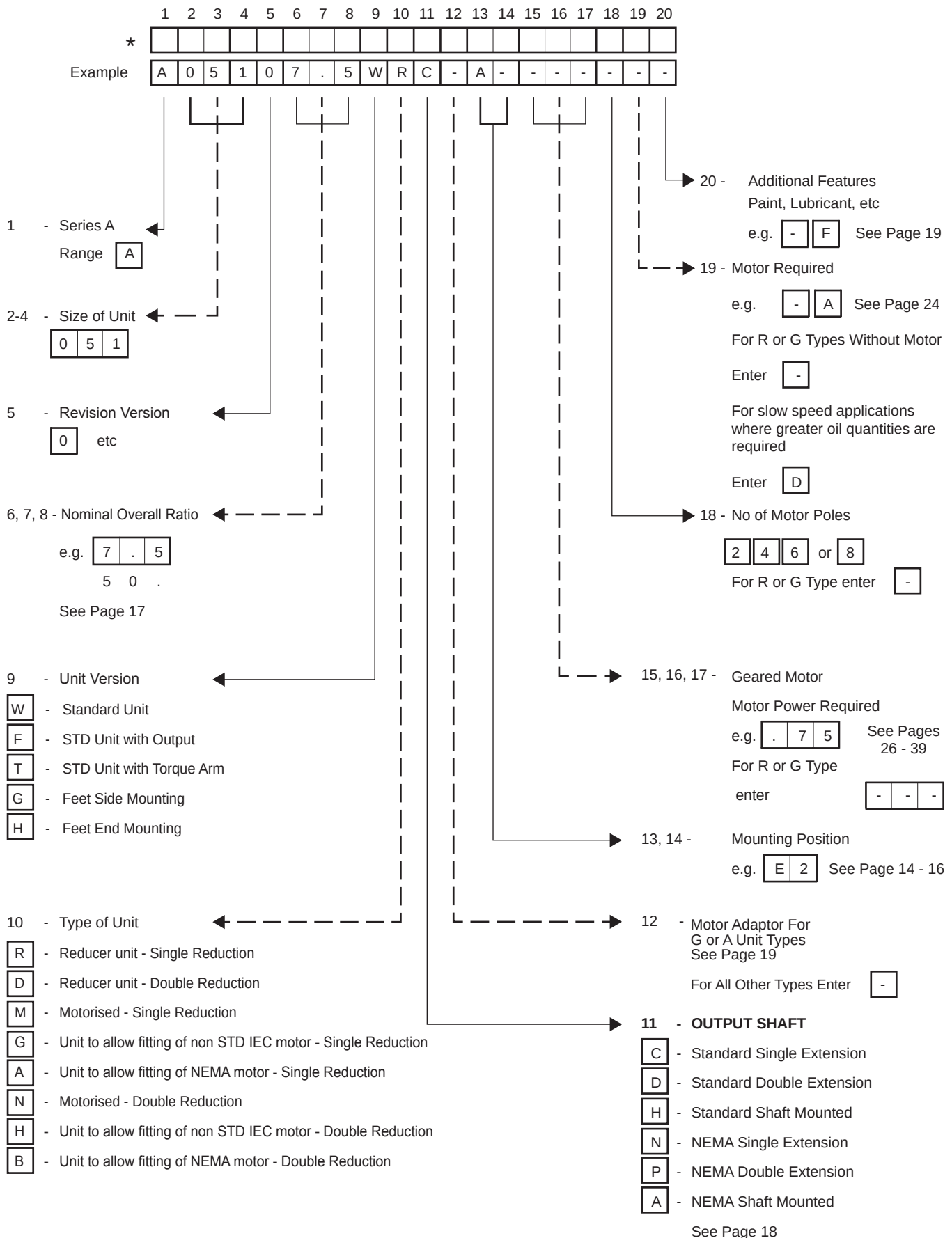


Motorised Single Reduction Units (worm)



Motorised Double Reduction Units (worm/ worm)

## UNIT DESIGNATIONS



\* This Page May Be Photocopied Allowing The Customer To Enter Their Order  
To access the on line configurator please visit [www.swift-gears.com](http://www.swift-gears.com)

Gear unit selection is made by comparing actual loads with catalogue ratings. Catalogue ratings are based on a standard set of loading conditions, whereas actual load conditions vary according to type of application. Service Factors are therefore used to calculate an equivalent load to compare with catalogue ratings. i.e. Equivalent Load = Actual Load x Service Factor

Two types of Service Factor must be considered:-

Mechanical Service Factor  $F_m$  and Thermal Service Factors  $F_t$ ,  $F_p$  and  $F_d$

## Mechanical ratings and service factors $F_m$

Mechanical ratings measure capacity in terms of life and/or strength, assuming 10 hr/day continuous running under uniform load conditions.

Catalogue ratings allow 100% overload at starting, braking or momentarily during operation up to 10 hours per day.

The unit selected must therefore have a catalogue rating at least equal to half maximum overload.

Mechanical Service Factor  $F_m$  (Table 1) is used to modify the actual load according to daily operating time, and type of loading.

Load characteristics for a wide range of applications are detailed in Table 5 opposite, which are used in deciding the appropriate Service Factor  $F_m$  from Table 1.

If overloads can be calculated, or accurately assessed, actual load should be used instead of  $F_m$ .

For units subject to frequent stop/start overloads in excess of 10 times per day, refer to our Application Engineers.

For applications where high inertia loads are involved e.g. crane travel drives, slewing motion etc., unit selection should be referred to our Application Engineers.

## Thermal ratings and service factors

The Thermal ratings are a measure of the gear units ability to dissipate heat. If they are exceeded the lubricant may overheat and breakdown, resulting in gear failure.

Thermal service factors are used for reducer units only. Sizes A0730 and A0860 are fitted with fans as standard if these sizes are required without fans refer to our Application Engineers.

Motorised unit ratings assume a standard motor fitted which is T.E.F.C.

Catalogue thermal limitations are based on the unit operating continuously in an environment with an ambient temperature equal to 20°C and in mounting position A, B or C. The thermal rating is affected by ambient temperature, duration of running per hour and mounting position. To account for these varying conditions, the service factors given in tables 2, 3 and 4 should be applied to the catalogue thermal ratings as follows:-

$$T_{\text{therm}} = T_t \times F_t \times F_p \times F_d$$

$$T_t = \text{Catalogue output torque thermal rating (Nm)}$$

$$T_{\text{therm}} = \text{Allowable output torque thermal rating (Nm)}$$

$$F_t = \text{Service factor for ambient temperature (see Table 2)}$$

$$F_p = \text{Service factor for different mounting positions (see Table 3)}$$

$$F_d = \text{Thermal service factor for duration of running (see Table 4)}$$

## Double Reduction Units

For double reduction units the factors given in tables 2 and 4 apply. The input shaft speed referred to in table 4 should now be the input speed of the primary unit. The following new thermal service factors,  $F_p$ , should be applied. In each case the description refers to the position of the primary unit.

- i Inputshaft horizontal and wheel- line horizontal  $F_p = 1.0$
- ii Inputshaft horizontal and wheel-line vertical  $F_p = 0.88$
- iii Inputshaft vertical and wheel-line horizontal  $F_p = 0.68$

## General

When selecting units, use actual load required to be transmitted, not rating of prime mover. Wherever possible use required output torque (Nm). Catalogue also gives input power rating (kW), being power required from mover allowing for gear unit efficiency. When units transmit less than rated output torque, required input power may be reduced pro-rata to decide capacity of prime mover.

**Table 1. Mechanical service factors  $F_m$**

| Prime mover                                      | Duration of service - hrs per day | Load classification-driven machine |                |             |
|--------------------------------------------------|-----------------------------------|------------------------------------|----------------|-------------|
|                                                  |                                   | Uniform                            | Moderate Shock | Heavy Shock |
| Electric motor, steam turbine or hydraulic motor | Under 3                           | 0.80                               | 1.00           | 1.50        |
|                                                  | 3 to 10                           | 1.00                               | 1.25           | 1.75        |
|                                                  | Over 10                           | 1.25                               | 1.50           | 2.00        |
| Multi-cylinder internal combustion engine        | Under 3                           | 1.00                               | 1.25           | 1.75        |
|                                                  | 3 to 10                           | 1.25                               | 1.50           | 2.00        |
|                                                  | Over 10                           | 1.50                               | 1.75           | 2.25        |
| Single cylinder internal combustion engine       | Under 3                           | 1.25                               | 1.50           | 2.00        |
|                                                  | 3 to 10                           | 1.50                               | 1.75           | 2.25        |
|                                                  | Over 10                           | 1.75                               | 2.00           | 2.50        |

**Table 2. Thermal Service Factors  $F_t$**

| Ambient temperature °C | -30  | -20  | -10  | 0    | 10   | 20  | 30   | 40   | 50   |
|------------------------|------|------|------|------|------|-----|------|------|------|
| Factor $F_t$           | 1.65 | 1.52 | 1.39 | 1.26 | 1.14 | 1.0 | 0.86 | 0.73 | 0.60 |

**Table 3. Thermal Service Factors  $F_p$  (Single Reduction Units)**

| Output Speed (Rev/min) | Mounting Position (See pages 14 and 15) |     |         |                                      |
|------------------------|-----------------------------------------|-----|---------|--------------------------------------|
|                        | ABC                                     | DEF | GHJ KMN | PST WXY                              |
| 0 to 100               | 1.0                                     | 1.0 | 1.0     | Refer to our Applications Department |
| >100 to 200            | 1.0                                     | 1.0 | 1.0     |                                      |
| >200 to 300            | 1.0                                     | 1.0 | 1.0     |                                      |
| >300 to 400            | 1.0                                     | 1.0 | 1.0     |                                      |
| >400 to 500            | 1.0                                     | 1.0 | 1.0     |                                      |
| >500 to 600            | 1.0                                     | 1.0 | 1.0     |                                      |
| >600 to 700            | 1.0                                     | 1.0 | 1.0     |                                      |
| >700                   | 1.0                                     | 1.0 | 1.0     |                                      |

**Table 4. Thermal Service Factors  $F_d$**

| Input shaft speed (Rev/min) | Unit Size | % Running time per hour |          |          |          |          |      |
|-----------------------------|-----------|-------------------------|----------|----------|----------|----------|------|
|                             |           | >60                     | >50 - 60 | >40 - 50 | >30 - 40 | >20 - 30 | <20  |
| 100                         | 280 - 610 | 1.0                     | 1.46     | 1.72     | 1.96     | 2.32     | 2.86 |
|                             | 730       | 1.0                     | 1.45     | 1.68     | 1.92     | 2.26     | 2.74 |
|                             | 860       | 1.0                     | 1.46     | 1.72     | 1.96     | 2.32     | 2.86 |
| 400                         | 280 - 610 | 1.0                     | 1.46     | 1.72     | 1.96     | 2.32     | 2.86 |
|                             | 730       | 1.0                     | 1.40     | 1.59     | 1.80     | 2.07     | 2.47 |
|                             | 860       | 1.0                     | 1.46     | 1.72     | 1.96     | 2.32     | 2.86 |
| 725                         | 280 - 610 | 1.0                     | 1.46     | 1.72     | 1.96     | 2.32     | 2.86 |
|                             | 730       | 1.0                     | 1.34     | 1.50     | 1.66     | 1.88     | 2.21 |
|                             | 860       | 1.0                     | 1.41     | 1.61     | 1.82     | 2.12     | 2.53 |
| 960                         | 280 - 610 | 1.0                     | 1.46     | 1.72     | 1.96     | 2.32     | 2.86 |
|                             | 730       | 1.0                     | 1.32     | 1.46     | 1.61     | 1.81     | 2.14 |
|                             | 860       | 1.0                     | 1.38     | 1.56     | 1.75     | 2.02     | 2.38 |
| 1160                        | 280 - 610 | 1.0                     | 1.46     | 1.72     | 1.96     | 2.32     | 2.86 |
|                             | 730       | 1.0                     | 1.30     | 1.43     | 1.56     | 1.75     | 2.05 |
|                             | 860       | 1.0                     | 1.37     | 1.54     | 1.72     | 1.96     | 2.32 |
| 1450                        | 280 - 610 | 1.0                     | 1.46     | 1.72     | 1.96     | 2.32     | 2.86 |
|                             | 730       | 1.0                     | 1.28     | 1.39     | 1.52     | 1.69     | 1.97 |
|                             | 860       | 1.0                     | 1.34     | 1.50     | 1.66     | 1.88     | 2.21 |
| 1750                        | 280 - 610 | 1.0                     | 1.46     | 1.72     | 1.96     | 2.32     | 2.86 |
|                             | 730       | 1.0                     | 1.26     | 1.36     | 1.47     | 1.63     | 1.89 |
|                             | 860       | 1.0                     | 1.32     | 1.46     | 1.61     | 1.81     | 2.14 |
| 2900                        | 280 - 610 | 1.0                     | 1.46     | 1.72     | 1.98     | 2.32     | 2.86 |
|                             | 730       | 1.0                     | 1.20     | 1.28     | 1.36     | 1.48     | 1.68 |
|                             | 860       | 1.0                     | 1.27     | 1.38     | 1.50     | 1.66     | 1.93 |

## LOAD CLASSIFICATION BY APPLICATIONS

### Table 5

**U = Uniform load**

**M = Moderate shock load**

H = Heavy shock load

† = Refer to Application Engineering

[illegible]

## MOMENTS OF INERTIA

### MOMENTS OF INERTIA (Kg cm<sup>2</sup>) Referred to Input Shaft

#### Single Reduction

| RATIO | A0280 | A0410 | A0510 | A0610 | A0730 | A0860 |
|-------|-------|-------|-------|-------|-------|-------|
| 5.0   | 0.06  | 0.40  | 1.18  | 2.47  | 5.77  | 13.68 |
| 7.5   | 0.05  | 0.29  | 0.67  | 1.40  | 3.58  | 7.84  |
| 10.0  | 0.04  | 0.22  | 0.49  | 0.96  | 2.33  | 5.77  |
| 12.5  | 0.04  | 0.21  | 0.41  | 0.77  | 2.22  | 4.21  |
| 15.0  | 0.03  | 0.20  | 0.31  | 0.63  | 1.91  | 4.28  |
| 20.0  | 0.04  | 0.15  | 0.42  | 0.74  | 1.46  | 3.23  |
| 25.0  | 0.03  | 0.18  | 0.36  | 0.63  | 1.92  | 4.23  |
| 30.0  | 0.03  | 0.16  | 0.27  | 0.53  | 1.48  | 3.45  |
| 40.0  | 0.03  | 0.14  | 0.20  | 0.40  | 1.24  | 2.94  |
| 50.0  | 0.03  | 0.13  | 0.19  | 0.34  | 1.11  | 2.54  |
| 60.0  | 0.03  | 0.13  | 0.17  | 0.29  | 1.09  | 2.38  |
| 70.0  | 0.02  | 0.12  | 0.16  | 0.28  | 1.07  | 2.40  |

#### Double Reduction

| RATIO  | A0410 | A0510 | A0610 | A0730 | A0860 |
|--------|-------|-------|-------|-------|-------|
| 75.0   | 0.03  | 0.04  | 0.19  | 0.24  | 0.40  |
| 100.0  | 0.03  | 0.04  | 0.20  | 0.22  | 0.35  |
| 125.0  | 0.03  | 0.04  | 0.19  | 0.24  | 0.40  |
| 150.0  | 0.03  | 0.03  | 0.17  | 0.18  | 0.34  |
| 200.0  | 0.03  | 0.03  | 0.17  | 0.18  | 0.34  |
| 225.0  | 0.03  | 0.03  | 0.17  | 0.18  | 0.23  |
| 250.0  | 0.03  | 0.03  | 0.17  | 0.18  | 0.34  |
| 300.0  | 0.04  | 0.04  | 0.13  | 0.14  | 0.38  |
| 350.0  | 0.03  | 0.03  | 0.18  | 0.18  | 0.32  |
| 375.0  | 0.03  | 0.03  | 0.17  | 0.20  | 0.23  |
| 400.0  | 0.04  | 0.04  | 0.13  | 0.14  | 0.38  |
| 450.0  | 0.03  | 0.03  | 0.17  | 0.17  | 0.23  |
| 500.0  | 0.04  | 0.04  | 0.13  | 0.14  | 0.38  |
| 600.0  | 0.04  | 0.04  | 0.13  | 0.14  | 0.38  |
| 625.0  | 0.03  | 0.03  | 0.17  | 0.17  | 0.33  |
| 700.0  | 0.02  | 0.02  | 0.12  | 0.12  | 0.15  |
| 750.0  | 0.03  | 0.03  | 0.17  | 0.17  | 0.33  |
| 800.0  | 0.03  | 0.03  | 0.14  | 0.14  | 0.19  |
| 900.0  | 0.03  | 0.03  | 0.16  | 0.16  | 0.25  |
| 1000.0 | 0.03  | 0.03  | 0.14  | 0.14  | 0.19  |
| 1200.0 | 0.03  | 0.03  | 0.14  | 0.14  | 0.19  |
| 1250.0 | 0.03  | 0.03  | 0.13  | 0.13  | 0.18  |
| 1400.0 | 0.02  | 0.02  | 0.12  | 0.12  | 0.15  |
| 1500.0 | 0.03  | 0.03  | 0.13  | 0.13  | 0.18  |
| 1600.0 | 0.03  | 0.03  | 0.14  | 0.14  | 0.19  |
| 1750.0 | 0.02  | 0.02  | 0.12  | 0.12  | 0.15  |
| 1800.0 | 0.03  | 0.03  | 0.13  | 0.13  | 0.17  |
| 2000.0 | 0.03  | 0.03  | 0.13  | 0.13  | 0.18  |
| 2100.0 | 0.02  | 0.02  | 0.12  | 0.12  | 0.15  |
| 2400.0 | 0.03  | 0.03  | 0.13  | 0.13  | 0.17  |
| 2500.0 | 0.03  | 0.03  | 0.13  | 0.13  | 0.18  |
| 2800.0 | 0.02  | 0.02  | 0.12  | 0.12  | 0.15  |
| 3000.0 | 0.03  | 0.03  | 0.13  | 0.13  | 0.17  |
| 3500.0 | 0.02  | 0.02  | 0.12  | 0.12  | 0.15  |
| 3600.0 | 0.03  | 0.03  | 0.13  | 0.13  | 0.17  |
| 4200.0 | 0.02  | 0.02  | 0.12  | 0.12  | 0.15  |

## LUBRICATION

Series A Junior units are factory filled with a Polyglycol based synthetic lubricant. They are “Lubricated for Life” and require no routine maintenance in service.

In the event of a major overhaul involving strip-down and re-assembly of the gear unit refer to Table 1 for a list of approved lubricants. Lubricant quantities are given in Tables 2 and 3.

### **Table 1 Approved Lubricants**

#### **Type G Polyglycol based synthetic lubricants with Anti-Wear or EP additives**

These lubricants are suitable for ambient temperatures of 0oC to 40oC; outside of this, please consult our Application Engineers

| SUPPLIER                       | LUBRICAT RANGE                | GRADE 6G                                  |
|--------------------------------|-------------------------------|-------------------------------------------|
|                                |                               | OIL SUPPLIERS' CORRESPONDING DESIGNATIONS |
| Boxer Services / Millers Oils  | Boxergear W                   | 320 (-31)                                 |
| Caltex                         | Synlube CLP                   | 320 (-31)                                 |
| Carl Bechem GmbH               | Berusynth EP                  | 320 (-25)                                 |
| Castrol International          | Alphasyn PG                   | 320 (-31)                                 |
| Esso/Exxon                     | Glycolube                     | 320 (-25)                                 |
| Fuchs Lubricants               | Renolin PG                    | 320 (-34)                                 |
| Klüber Lubrication             | Klübersynth GH6               | 320 (-25)                                 |
|                                | Klübersynth UH1 6             | 320 (-25)                                 |
| Kuwait Petroleum International | Q8 Gade                       | 320 (-22)                                 |
| Laporte Performance Chemicals  | Breox Industrial Lubricant SW | 320 (-25)                                 |
|                                | Breox SL range                | 320 (-37)                                 |
| Mobil Oil Company Limited      | Glygoyle                      | HE320 (-37)                               |
| Optimol Ölwerke GmbH           | Optiflex A                    | 320 (-28)                                 |
| Shell Oils                     | Tivela                        | SC (-25)                                  |
|                                | Tivela S                      | 320 (-34)                                 |
| Texaco Limited                 | Synlube CLP                   | 320 (-31)                                 |
| Total                          | Carter SY                     | 320 (-28)                                 |
| Tribol GmbH                    | Tribol 800                    | 320 (-25)                                 |

**DANGER** Numbers in brackets indicate recommended minimum operating temperature in °C.

**THE UNIT MUST NOT RUN BELOW THIS TEMPERATURE.**

### **Table 2 Lubricant Quantities (Litres)**

Applicable for all mounting positions:-

| MOTORISED<br>or REDUCER | UNIT SIZE |       |       |       |       |       |
|-------------------------|-----------|-------|-------|-------|-------|-------|
|                         | A0280     | A0410 | A0510 | A0610 | A0730 | A0860 |
| Oil Capacity (Litres)   | 0.24      | 0.38  | 0.56  | 1.00  | 2.02  | 3.10  |

### **Table 3 Lubricant Quantities (Litres)**

For units running at input speeds below 500 rev/min with either the input or output shaft vertical, also for the secondary stage of all double reduction units irrespective of shaft disposition, the oil quantities in Table 3 below are applicable:-

| MOTORISED<br>or REDUCER | UNIT SIZE |       |       |       |       |       |
|-------------------------|-----------|-------|-------|-------|-------|-------|
|                         | A0280     | A0410 | A0510 | A0610 | A0730 | A0860 |
| Oil Capacity (Litres)   | 0.31      | 0.48  | 0.74  | 1.28  | 2.62  | 3.94  |

# SERIES AJ

## SELECTION PROCEDURE FOR MOTORISED UNITS

### EXAMPLE APPLICATION DETAILS

Absorbed power of driven machine = 0.38kW  
 Output speed of gearbox or Input speed of machine = 55rev/min  
 Application = Uniformly loaded belt conveyor  
 Duration of service (hours per day) = 24hrs  
 Mounting position = D  
 Ambient temperature = 20°C  
 Running time (%) = 100%

### 1 DETERMINE MECHANICAL SERVICE FACTOR (Fm)

Refer to Load Classification by Application, table 5, page 7

Application = Uniformly loaded belt conveyor

#### Conveyors-uniformly loaded or fed

apron  
 assembly  
 belt  
 bucket  
 chain

U = Uniform load

Refer to mechanical service factor (Fm), table 1, page 6

Duration of service (hours per day) = 24hrs

| Prime mover                                      | Duration of service-hrs per day | Load classification-drive |                |
|--------------------------------------------------|---------------------------------|---------------------------|----------------|
|                                                  |                                 | Uniform                   | Moderate Shock |
| Electric motor, steam turbine or hydraulic motor | Under 3                         | 0.80                      | 1.00           |
|                                                  | 3 to 10                         | 1.00                      | 1.25           |
|                                                  | Over 10                         | 1.25                      | 1.50           |

Therefore mechanical service factor (Fm) = 1.25

### 2 DETERMINE REQUIRED OUTPUT TORQUE AT GEARBOX OUTPUT SHAFT

$$\text{Absorbed output torque} = \frac{\text{Absorbed power} \times 9550}{\text{Gearbox output speed}}$$

$$\frac{0.38 \times 9550}{55} = 66 \text{ Nm}$$

### 3 SELECT GEARED MOTOR

Refer to selection table one motor size larger than absorbed power.

Absorbed power = 0.38kW, therefore refer to 0.55kW selection table, page 32

Always select from 4 POLE selection table in the first instance as this offers a more economical solution.

Required output speed of gearbox = 55 rev/min

| 0.55 kW | N2 R/MIN     | i     | M2 Nm         | Fm             | N             | UNIT DESIGNATION                                                     | Kg                        |                  |                                                                      |                              |
|---------|--------------|-------|---------------|----------------|---------------|----------------------------------------------------------------------|---------------------------|------------------|----------------------------------------------------------------------|------------------------------|
|         | Output Speed | Ratio | Output Torque | Service Factor | Overhung Load | Column Entry 1 Through 20<br>Spaces to be filled when entering order | Weight of Base Mount Unit | Motor Frame Size | Cone Ring Output Coupling<br>Spaces to be filled when entering order | Max Bore Coupling Drive Half |
| 4 POLE  | 261          | 5.25  | 17            | 2.61           | 2764          | A 0 4 1 0 5 . 0 _ M _ . . . 5 5 4 A _                                | 19.4                      | 80a              | X 6 1 2 0 1 M 0 2 0 _ _ _                                            | 38                           |
|         | 187          | 7.33  | 24            | 2.30           | 2764          | 7 . 5                                                                |                           |                  |                                                                      |                              |
|         | 130          | 10.50 | 33            | 2.27           | 2764          | 1 0 .                                                                |                           |                  |                                                                      |                              |
|         | 110          | 12.50 | 38            | 2.10           | 2758          | 1 3 .                                                                |                           |                  |                                                                      |                              |
|         | 94           | 14.50 | 44            | 2.01           | 2758          | 1 5 .                                                                |                           |                  |                                                                      |                              |
|         | 70           | 19.50 | 57            | 1.53           | 2748          | 2 0 .                                                                |                           |                  |                                                                      |                              |
|         | 55           | 25.00 | 66            | 1.51           | 2748          | 2 5 .                                                                |                           |                  |                                                                      |                              |
|         | 46           | 30.00 | 76            | 1.33           | 2742          | 3 0 .                                                                |                           |                  |                                                                      |                              |
|         | 34           | 40.00 | 94            | 0.99           | 2730          | 4 0 .                                                                |                           |                  |                                                                      |                              |
|         |              |       |               |                |               |                                                                      |                           |                  | X 6 1 1 0 1 M 0 2 0 _ _ _                                            | 38                           |

Go to point 4

# SERIES AJ

## SELECTION PROCEDURE FOR MOTORISED UNITS

### 4 CHECK OUTPUT TORQUE

Output torque (M2) of selected unit must be equal or more than required output torque at gearbox outputshaft.

Required output torque at gearbox outputshaft = 66 Nm

| 0.55 kW | N2<br>R/MIN     | i     | M2<br>Nm         | Fm                | N                | UNIT DESIGNATION                                                                                                                                                                                    | Kg                              |                        |                                                                         |                                    |
|---------|-----------------|-------|------------------|-------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------|-------------------------------------------------------------------------|------------------------------------|
|         | Output<br>Speed | Ratio | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span style="border: 1px solid black; padding: 0 2px;">1</span> Through <span style="border: 1px solid black; padding: 0 2px;">20</span><br>Spaces to be filled when entering<br>order | Weight of<br>Base<br>Mount Unit | Motor<br>Frame<br>Size | Cone Ring Output Coupling<br>Spaces to be filled when<br>entering order | Max Bore<br>Coupling<br>Drive Half |
| 4 POLE  | 261             | 5.25  | 17               | 2.61              | 2764             | A 0 4 1 0 5 . 0 _ M _ - _ _ . 5 5 4 A _                                                                                                                                                             | 19.4                            | 80a                    | X 6 1 2 0 1 M 0 2 0 - _ _ _                                             | 38                                 |
|         | 187             | 7.33  | 24               | 2.30              | 2764             | 7 . 5                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
|         | 130             | 10.50 | 33               | 2.27              | 2764             | 1 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
|         | 110             | 12.50 | 38               | 2.10              | 2758             | 1 3 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
|         | 94              | 14.50 | 44               | 2.01              | 2758             | 1 5 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
|         | 70              | 19.50 | 57               | 1.53              | 2748             | 2 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
|         | 55              | 25.00 | 66               | 1.51              | 2748             | 2 5 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
|         | 46              | 30.00 | 76               | 1.33              | 2742             | 3 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
|         | 34              | 40.00 | 94               | 0.99              | 2730             | 4 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
|         |                 |       |                  |                   |                  |                                                                                                                                                                                                     |                                 |                        |                                                                         |                                    |
|         |                 |       |                  |                   |                  |                                                                                                                                                                                                     |                                 |                        |                                                                         |                                    |
|         |                 |       |                  |                   |                  |                                                                                                                                                                                                     |                                 |                        |                                                                         |                                    |

Selected unit's output torque (M2) = 66 Nm, therefore unit is acceptable

### 5 CHECK SERVICE FACTOR

Service factor (Fm) of selected unit must be equal or more than required service factor.

Required service factor of gearbox = 1.25

| 0.55 kW | N2<br>R/MIN     | i     | M2<br>Nm         | Fm                | N                | UNIT DESIGNATION                                                                                                                                                                                    | Kg                              |                        |                                                                         |                                    |
|---------|-----------------|-------|------------------|-------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------|-------------------------------------------------------------------------|------------------------------------|
|         | Output<br>Speed | Ratio | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span style="border: 1px solid black; padding: 0 2px;">1</span> Through <span style="border: 1px solid black; padding: 0 2px;">20</span><br>Spaces to be filled when entering<br>order | Weight of<br>Base<br>Mount Unit | Motor<br>Frame<br>Size | Cone Ring Output Coupling<br>Spaces to be filled when<br>entering order | Max Bore<br>Coupling<br>Drive Half |
| 4 POLE  | 261             | 5.25  | 17               | 2.61              | 2764             | A 0 4 1 0 5 . 0 _ M _ - _ _ . 5 5 4 A _                                                                                                                                                             | 19.4                            | 80a                    | X 6 1 2 0 1 M 0 2 0 - _ _ _                                             | 38                                 |
|         | 187             | 7.33  | 24               | 2.30              | 2764             | 7 . 5                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
|         | 130             | 10.50 | 33               | 2.27              | 2764             | 1 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
|         | 110             | 12.50 | 38               | 2.10              | 2758             | 1 3 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
|         | 94              | 14.50 | 44               | 2.01              | 2758             | 1 5 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
|         | 70              | 19.50 | 57               | 1.53              | 2748             | 2 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
|         | 55              | 25.00 | 66               | 1.51              | 2748             | 2 5 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
|         | 46              | 30.00 | 76               | 1.33              | 2742             | 3 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
|         | 34              | 40.00 | 94               | 0.99              | 2730             | 4 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
|         |                 |       |                  |                   |                  |                                                                                                                                                                                                     |                                 |                        |                                                                         |                                    |
|         |                 |       |                  |                   |                  |                                                                                                                                                                                                     |                                 |                        |                                                                         |                                    |
|         |                 |       |                  |                   |                  |                                                                                                                                                                                                     |                                 |                        |                                                                         |                                    |

Selected unit's service factor (Fm) = 1.51, therefore unit is acceptable.

### 6 CHECK OVERHUNG LOADS

If sprocket, gear, etc is mounted on the outputshaft then refer to Overhung Loads Procedure, page 48, and compare with allowable overhung load (N) of selected unit

Allowable overhung load (N) must be equal or more than calculated overhung load (P)

| 15 kW  | N2<br>R/MIN     | i     | M2<br>Nm         | Fm                | N                | UNIT DESIGNATION                                                                                                                                                                                    | Kg                              |                        |                                                                         |                                    |
|--------|-----------------|-------|------------------|-------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------|-------------------------------------------------------------------------|------------------------------------|
|        | Output<br>Speed | Ratio | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span style="border: 1px solid black; padding: 0 2px;">1</span> Through <span style="border: 1px solid black; padding: 0 2px;">20</span><br>Spaces to be filled when entering<br>order | Weight of<br>Base<br>Mount Unit | Motor<br>Frame<br>Size | Cone Ring Output Coupling<br>Spaces to be filled when<br>entering order | Max Bore<br>Coupling<br>Drive Half |
| 4 POLE | 261             | 5.25  | 17               | 2.61              | 2764             | A 0 4 1 0 5 . 0 _ M _ - _ _ . 5 5 4 A _                                                                                                                                                             | 19.4                            | 80a                    | X 6 1 2 0 1 M 0 2 0 - _ _ _                                             | 38                                 |
|        | 187             | 7.33  | 24               | 2.30              | 2764             | 7 . 5                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
|        | 130             | 10.50 | 33               | 2.27              | 2764             | 1 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
|        | 110             | 12.50 | 38               | 2.10              | 2758             | 1 3 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
|        | 94              | 14.50 | 44               | 2.01              | 2758             | 1 5 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
|        | 70              | 19.50 | 57               | 1.53              | 2748             | 2 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
|        | 55              | 25.00 | 66               | 1.51              | 2748             | 2 5 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
|        | 46              | 30.00 | 76               | 1.33              | 2742             | 3 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
|        | 34              | 40.00 | 94               | 0.99              | 2730             | 4 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
|        |                 |       |                  |                   |                  |                                                                                                                                                                                                     |                                 |                        |                                                                         |                                    |
|        |                 |       |                  |                   |                  |                                                                                                                                                                                                     |                                 |                        |                                                                         |                                    |
|        |                 |       |                  |                   |                  |                                                                                                                                                                                                     |                                 |                        |                                                                         |                                    |

NOTE: If any of the following conditions occur then consult Application Engineering:-

- a) Inertia of the Driven Machine (Referred to motor speed) > 10      b) Ambient temperature is above 40°C      or      c) Sizes A0730 and A08060 are required without a fan  
Inertia of Gear Unit plus Motor

# SERIES AJ

## SELECTION PROCEDURE FOR REDUCER UNITS

### EXAMPLE APPLICATION DETAILS

Absorbed power of driven machine = 0.28kW  
 Output speed of gearbox or Input speed of machine = 20rev/min  
 Application = Uniformly loaded belt conveyor  
 Duration of service (hours per day) = 24hrs  
 Motor speed = 3 phase electric motor, 4 pole, 1450rpm  
 Mounting position = D  
 Ambient temperature = 20°C  
 Running time (%) = 100%

#### 1 DETERMINE MECHANICAL SERVICE FACTOR (Fm)

Motor speed 1450 = 72  
 Gearbox output speed 20  
 Refer to exact ratios (page 17) for nearest standard ratio = 70:1

#### 3 DETERMINE REQUIRED MECHANICAL OUTPUT TORQUE CAPACITY OF GEARBOX

Absorbed output torque =  $\frac{\text{Absorbed power} \times 9550}{\text{Gearbox output speed}}$   
 $\frac{0.28 \times 9550}{20} = 134 \text{ Nm}$   
 Required mechanical output torque = Absorbed output x Fm torque  
 $134 \times 1.25 = 167 \text{ Nm}$

#### 2 DETERMINE MECHANICAL SERVICE FACTOR (Fm)

Refer to Load Classification by Application, table 5, page 7

Application = Uniformly loaded belt conveyor

| Conveyors-uniformly loaded or fed |   |
|-----------------------------------|---|
| apron                             | U |
| assembly                          | U |
| belt                              | U |
| bucket                            | U |
| chain                             | U |

U = Uniform load

Refer to mechanical service factor (Fm), table 1, page 6

Duration of service (hours per day) = 24hrs

| Prime mover                                      | Duration of service-hrs per day | Load classification-drive |                |
|--------------------------------------------------|---------------------------------|---------------------------|----------------|
|                                                  |                                 | Uniform                   | Moderate Shock |
| Electric motor, steam turbine or hydraulic motor | Under 3                         | 0.80                      | 1.00           |
|                                                  | 3 to 10                         | 1.00                      | 1.25           |
|                                                  | Over 10                         | 1.25                      | 1.50           |

Therefore mechanical service factor (Fm) = 1.25

#### 4 DETERMINE SIZE OF GEAR BOX REQUIRED

Refer to ratings tables, Input speed = 1450rev/min, therefore refer to page 56.

| NOMINAL RATIO | NOMINAL OUTPUT SPEED REV / MIN | CAPACITY     |                  | SIZE OF UNIT |       |       |       |
|---------------|--------------------------------|--------------|------------------|--------------|-------|-------|-------|
|               |                                |              |                  | A0510        | A0610 | A0730 | A0860 |
| 70.0          | 20.71                          | Mechanical   | Input Power kW   | 0.35         | 0.58  | 0.86  | 1.35  |
|               |                                |              | Output Torque Nm | 86.          | 147.  | 247.  | 402.  |
|               |                                | Thermal      | Input Power kW   | 0.58         | 0.77  | 1.48  | 1.76  |
|               |                                |              | Output Torque Nm | 149.         | 199.  | 442.  | 533.  |
|               |                                | Efficiency % |                  | 53           | 55    | 62    | 65    |
|               |                                |              |                  |              |       |       |       |

Mechanical output torque capacity must be equal or more than required mechanical output torque capacity of gear box. Required mechanical output torque capacity = 167Nm. At a 70:1 ratio, nominal output speed 20.71 an A0730 unit has a mechanical output torque capacity of 247Nm. Therefore the unit is acceptable

#### 5 DETERMINE EXACT RATIO OF GEAR BOX

Refer to exact ratio table, page 17.

| Nominal Ratio Column Entry | A0510 | A0610 | A0730 | A0860 |
|----------------------------|-------|-------|-------|-------|
| 6 7 8                      |       |       |       |       |
| 7 0 .                      | 70    | 70    | 70    | 70    |

Exact ratio = 70.0:1

#### 4 CHECK THERMAL CAPACITY OF GEAR BOX SELECTED DETERMINE THERMAL OUTPUT TORQUE CAPACITY (Tt)

Refer to ratings tables

| NOMINAL RATIO | NOMINAL OUTPUT SPEED REV / MIN | CAPACITY     |                  | SIZE OF UNIT |       |       |       |
|---------------|--------------------------------|--------------|------------------|--------------|-------|-------|-------|
|               |                                |              |                  | A0510        | A0610 | A0730 | A0860 |
| 70.0          | 20.71                          | Mechanical   | Input Power kW   | 0.35         | 0.58  | 0.86  | 1.35  |
|               |                                |              | Output Torque Nm | 86.          | 147.  | 247.  | 402.  |
|               |                                | Thermal      | Input Power kW   | 0.58         | 0.77  | 1.48  | 1.76  |
|               |                                |              | Output Torque Nm | 149.         | 199.  | 442.  | 533.  |
|               |                                | Efficiency % |                  | 53           | 55    | 62    | 65    |
|               |                                |              |                  |              |       |       |       |

Tt = 442Nm

Go to point 7

# SERIES AJ

## SELECTION PROCEDURE FOR REDUCER UNITS

### 7 DETERMINE THERMAL SERVICE FACTOR (Ft)

Refer to table 2, page 6  
Ambient temperature = 20°C

|                       |      |      |      |      |      |     |
|-----------------------|------|------|------|------|------|-----|
| Ambient temperature°C | -30  | -20  | -10  | 0    | 10   | 20  |
| Factor Ft             | 1.65 | 1.52 | 1.39 | 1.26 | 1.14 | 1.0 |
| Ft =                  | 1.0  |      |      |      |      |     |

### 8 DETERMINE THERMAL SERVICE FACTOR (Fp)

Refer to table 3, page 6

Mounting position = D  
Nominal output speed (rev/min) = 20.71

| Unit Output Shaft Speed (Rev/min) | Mounting |     |
|-----------------------------------|----------|-----|
|                                   | ABC      | DEF |
| 0 to 100                          | 1.0      | 1.0 |
| >100 to 200                       | 1.0      | 1.0 |
| >200 to 300                       | 1.0      | 1.0 |

Fp = 1.0

### 9 DETERMINE THERMAL SERVICE FACTOR (Fd)

Refer to table 4, page 6  
% running time = 100

| Input shaft speed (Rev/min) | Unit Size | % Running time per hour |        |
|-----------------------------|-----------|-------------------------|--------|
|                             |           | >60                     | >50-60 |
| 280-610                     |           | 1.0                     | 1.46   |
| 1450                        | 730       | 1.0                     | 1.28   |
|                             | 860       | 1.0                     | 1.34   |

Fd = 1.0

### 10 DETERMINE ALLOWABLE OUTPUT TORQUE THERMAL RATING (T<sub>therm</sub>)

$$T_{therm} = T_t \times F_t \times F_p \times F_d$$

$$= 442 \times 1.0 \times 1.0 \times 1.0$$

$$= 442 \text{ Nm}$$

Thermal output torque capacity (T<sub>therm</sub>) must be equal or more than absorbed output torque to drive machine

Absorbed output torque = 134Nm (see step 3) T<sub>therm</sub> = 442Nm

Therefore unit is acceptable

### 11 DETERMINE REQUIRED POWER OF ELECTRIC MOTOR

Refer to ratings tables to determine gear unit efficiency.

| NOMINAL RATIO | NOMINAL OUTPUT SPEED REV / MIN | CAPACITY     |                  | SIZE OF UNIT |       |       |       |
|---------------|--------------------------------|--------------|------------------|--------------|-------|-------|-------|
|               |                                |              |                  | A0510        | A0610 | A0730 | A0860 |
| 70.0          | 20.71                          | Mechanical   | Input Power kW   | 0.35         | 0.58  | 0.86  | 1.35  |
|               |                                |              | Output Torque Nm | 86.          | 147.  | 247.  | 402.  |
|               |                                | Thermal      | Input Power kW   | 0.58         | 0.77  | 1.48  | 1.76  |
|               |                                |              | Output Torque Nm | 149.         | 199.  | 442.  | 533.  |
|               |                                | Efficiency % |                  | 53           | 55    | 62    | 65    |
|               |                                |              |                  |              |       |       |       |

$$\text{Efficiency \%} = 62 \quad \text{Required motor power} = \frac{\text{Absorbed power of driven machine} \times 100}{\text{Efficiency}} = \frac{28 \times 100}{62} = 45 \text{ kW}$$

The next largest standard motor power available is selected 0.55kW

### 12 CHECK MOMENTARY OVERLOAD CAPACITY

Convert nominal motor capacity (kW) to torque (Nm) at gearbox output shaft

$$\text{Nominal output torque} = \frac{\text{Nominal motor capacity} \times 9550 \times \text{Efficiency}}{\text{Output speed of gearbox} \times 100} = \frac{.55 \times 9550 \times 62}{20 \times 100} = 163 \text{ Nm}$$

Refer to ratings tables to determine gear unit efficiency

| kW COLUMN ENTRY   | MOTOR FRAME SIZE | FULL LOAD SPEED | FLC (AMPS) 400 VOLTS | EFFICIENCY % |       |       | POWER FACTOR |       |      | D.O.L. STARTING % OF FULL LOAD |     | STAR DELTA STARTING % OF FULL LOAD |     | PULL UP TORQUE % FLT |
|-------------------|------------------|-----------------|----------------------|--------------|-------|-------|--------------|-------|------|--------------------------------|-----|------------------------------------|-----|----------------------|
|                   |                  |                 |                      | FL           | 3/4 L | 1/2 L | FL           | 3/4 L | LRT  | LRC                            | LRT | LRC                                | LRT |                      |
| 15 16 17<br>5 5 5 | 71               | 2720            | 1.5                  | 68           | 66    | 62    | 0.80         | 0.73  | 0.63 | 280                            | 420 |                                    |     | 260                  |
|                   | 80               | 1370            | 1.6                  | 67.5         | 68    | 65    | 0.74         | 0.64  | 0.52 | 250                            | 400 |                                    |     | 180                  |
|                   | 80               | 925             | 1.65                 | 67           | 62    | 53    | 0.72         | 0.62  | 0.52 | 250                            | 370 |                                    |     | 200                  |

$$\text{Maximum motor starting torque} = \text{Pull up torque} \times \text{Normal output torque} = 1.8 \times 163 = 293 \text{ Nm}$$

Gearbox will accept 2 x Momentary overload (10 times / day maximum)

$$\text{Peak allowable torque} = 2 \times \text{mechanical gearbox rating (see step 4)} = 2 \times 247 = 494 \text{ Nm}$$

Maximum motor starting torque must be equal or less than peak allowable torque Peak allowable torque = 494Nm

$$\text{Maximum motor starting torque} = 293 \text{ Nm}$$

Therefore the unit is acceptable

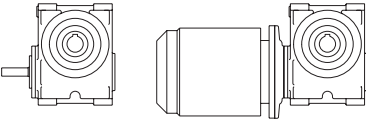
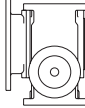
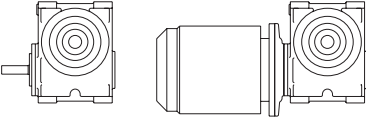
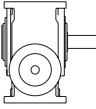
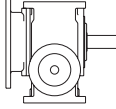
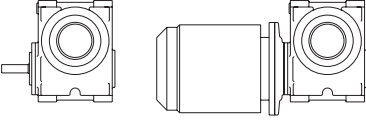
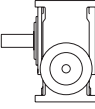
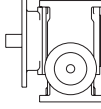
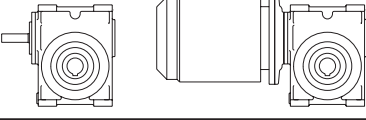
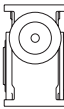
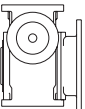
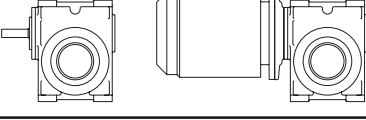
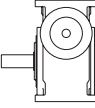
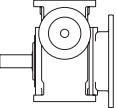
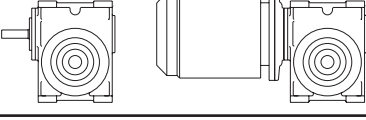
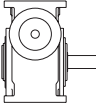
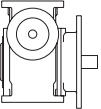
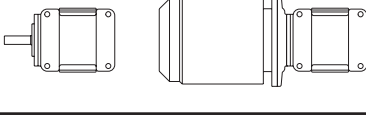
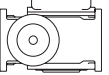
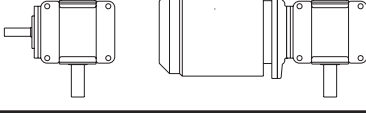
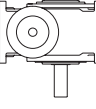
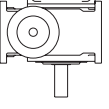
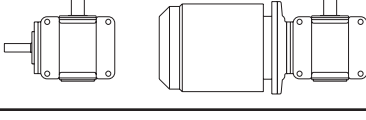
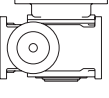
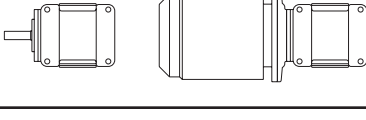
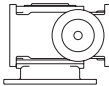
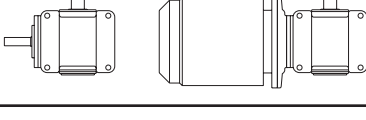
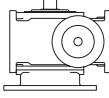
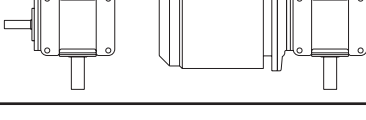
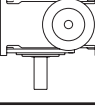
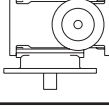
### 13 CHECK OVERHUNG LOADS

If sprocket, gear, etc is mounted on the input or output shaft then refer to Overhung loads procedure, pages 48 & 49

NOTE: If any of the following conditions occur then consult our Application Engineers:-

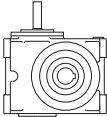
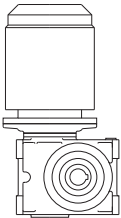
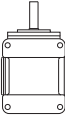
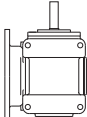
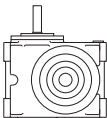
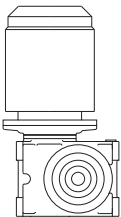
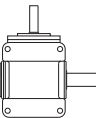
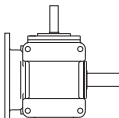
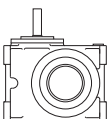
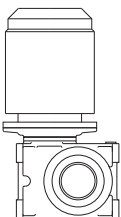
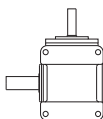
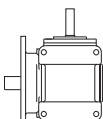
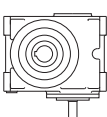
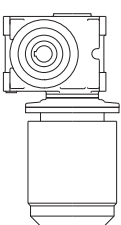
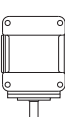
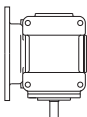
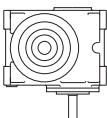
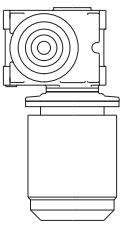
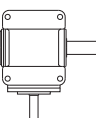
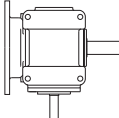
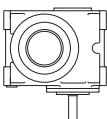
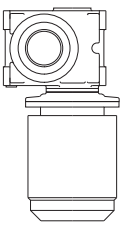
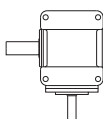
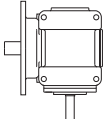
- a) Inertia of the driven Machine (referred to motor speed) >10    b) Ambient temperature is above 40°C    or    c) Sizes A0730 and A0860 are required without a fan  
Inertia of Gear Unit plus Motor

# **SERIES AJ** **HANDING &** **MOUNTING POSITIONS**

| COLUMN 13<br>ENTRY | DOUBLE OUTPUT SHAFTS ARE AVAILABLE FOR ALL MOUNTING POSITIONS                       |                                                                                      |                                                                                       |
|--------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>A</b>           |    |   |    |
| <b>B</b>           |    |   |    |
| <b>C</b>           |    |    |    |
| <b>D</b>           |    |    |    |
| <b>E</b>           |   |   |   |
| <b>F</b>           |  |  |  |
| <b>G</b>           |  |  |  |
| <b>H</b>           |  |  |  |
| <b>J</b>           |  |  |  |
| <b>K</b>           |  |  |  |
| <b>M</b>           |  |  |  |
| <b>N</b>           |  |  |  |

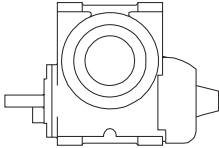
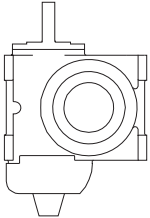
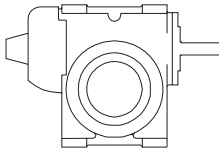
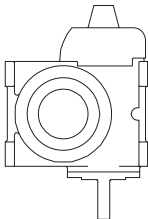
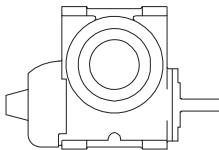
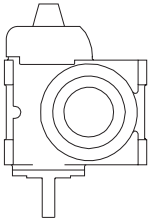
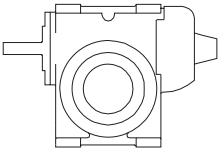
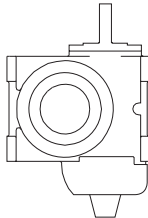
# SERIES AJ

## HANDING & MOUNTING POSITIONS

| COLUMN 13 ENTRY | DOUBLE OUTPUT SHAFTS ARE AVAILABLE FOR ALL MOUNTING POSITIONS                                                                                                           |                                                                                      |                                                                                       |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| P               |       |     |    |
| S               |       |    |    |
| T               |    |   |  |
| H               |   |   |  |
| X               |   |  |  |
| Y               |   |   |  |

# SERIES AJ

## PRIMARY UNIT MOUNTING POSITIONS

| COLUMN 14<br>ENTRY |                                                                                     | COLUMN 14<br>ENTRY |                                                                                       |
|--------------------|-------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------|
| 1                  |    | 2                  |    |
| 3                  |    | 4                  |    |
| 5                  |  | 6                  |   |
| 7                  |  | 8                  |  |

PRIMARY UNIT POSITION RELATIVE TO THE SECONDARY UNIT  
 FOR SINGLE REDUCTION ENTER 

-

# SERIES AJ

## EXACT RATIOS

### Single Reduction

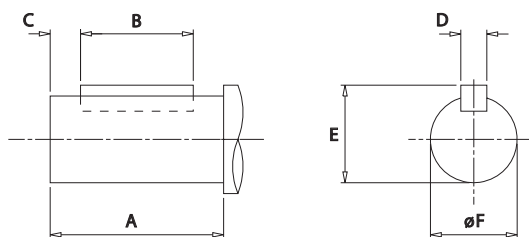
| NOMINAL RATIO<br>COLUMN ENTRY |   |   |   | A0280 | A0410 | A0510 | A0610 | AO730 | A0860 |
|-------------------------------|---|---|---|-------|-------|-------|-------|-------|-------|
|                               | 6 | 7 | 8 |       |       |       |       |       |       |
| 5 . 0                         |   |   |   | 5.250 | 5.250 | 4.800 | 5.000 | 5.200 | 4.833 |
| 7 . 0                         |   |   |   | 7.333 | 7.333 | 7.333 | 7.333 | 7.250 | 7.250 |
| 1 0 .                         |   |   |   | 10.50 | 10.50 | 10.50 | 9.667 | 10.33 | 9.667 |
| 1 2 .                         |   |   |   | 12.50 | 12.50 | 12.50 | 12.50 | 12.50 | 12.67 |
| 1 5 .                         |   |   |   | 14.50 | 14.50 | 14.50 | 15.00 | 14.50 | 14.50 |
| 2 0 .                         |   |   |   | 20.00 | 19.50 | 20.00 | 20.00 | 19.50 | 19.50 |
| 2 5 .                         |   |   |   | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 |
| 3 0 .                         |   |   |   | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 |
| 4 0 .                         |   |   |   | 40.00 | 40.00 | 40.00 | 40.00 | 40.00 | 40.00 |
| 5 0 .                         |   |   |   | 50.00 | 50.00 | 50.00 | 50.00 | 50.00 | 50.00 |
| 6 0 .                         |   |   |   | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 |
| 7 0 .                         |   |   |   | 70.00 | 70.00 | 70.00 | 70.00 | 70.00 | 70.00 |

### Double Reduction

| NOMINAL RATIO | COLUMN ENTRY |   |   | A0410 | A0510 | A0610 | AO730 | A0860 |
|---------------|--------------|---|---|-------|-------|-------|-------|-------|
|               | 6            | 7 | 8 |       |       |       |       |       |
| 75.00         | 7            | 5 | . | 76.13 | 76.13 | 78.75 | 76.13 | 69.60 |
| 100.00        | 1            | 0 | 0 | 102.4 | 105.0 | 105.0 | 102.4 | 93.60 |
| 125.00        | 1            | 2 | 5 | 131.3 | 131.3 | 131.3 | 131.3 | 120.0 |
| 150.00        | 1            | 5 | 0 | 152.3 | 152.3 | 157.5 | 152.3 | 152.3 |
| 200.00        | 2            | 0 | 0 | 204.8 | 210.0 | 210.0 | 204.8 | 204.8 |
| 225.00        | 2            | 2 | 5 | 210.3 | 210.3 | 217.5 | 210.3 | 210.3 |
| 250.00        | 2            | 5 | 0 | 262.5 | 262.5 | 262.5 | 262.5 | 262.5 |
| 300.00        | 3            | 0 | 0 | 290.0 | 290.0 | 292.5 | 282.8 | 290.0 |
| 350.00        | 3            | 5 | 0 | 362.5 | 362.5 | 362.5 | 362.5 | 336.0 |
| 375.00        | 3            | 7 | 5 | 367.5 | 367.5 | 367.5 | 367.5 | 362.5 |
| 400.00        | 4            | 0 | 0 | 390.0 | 400.0 | 390.0 | 380.3 | 390.0 |
| 450.00        | 4            | 5 | 0 | 435.0 | 435.0 | 435.0 | 435.0 | 435.0 |
| 500.00        | 5            | 0 | 0 | 500.0 | 500.0 | 487.5 | 487.5 | 500.0 |
| 600.00        | 6            | 0 | 0 | 600.0 | 600.0 | 585.0 | 585.0 | 600.0 |
| 625.00        | 6            | 2 | 5 | 625.0 | 625.0 | 625.0 | 625.0 | 625.0 |
| 700.00        | 7            | 0 | 0 | 735.0 | 735.0 | 676.7 | 723.3 | 676.7 |
| 750.00        | 7            | 5 | 0 | 750.0 | 750.0 | 750.0 | 750.0 | 750.0 |
| 800.00        | 8            | 0 | 0 | 780.0 | 800.0 | 800.0 | 780.0 | 780.0 |
| 900.00        | 9            | 0 | 0 | 900.0 | 900.0 | 900.0 | 900.0 | 900.0 |
| 1000.00       | 1            | 0 | C | 1000. | 1000. | 1000. | 1000. | 1000. |
| 1200.00       | 1            | 2 | C | 1200. | 1200. | 1200. | 1200. | 1200. |
| 1250.00       | 1            | 3 | C | 1250. | 1250. | 1250. | 1250. | 1250. |
| 1400.00       | 1            | 4 | C | 1365. | 1400. | 1400. | 1365. | 1365. |
| 1500.00       | 1            | 5 | C | 1500. | 1500. | 1500. | 1500. | 1500. |
| 1600.00       | 1            | 6 | C | 1600. | 1600. | 1600. | 1600. | 1600. |
| 1750.00       | 1            | 7 | C | 1750. | 1750. | 1750. | 1750. | 1750. |
| 1800.00       | 1            | 8 | C | 1800. | 1800. | 1800. | 1800. | 1800. |
| 2000.00       | 2            | 0 | C | 2000. | 2000. | 2000. | 2000. | 2000. |
| 2100.00       | 2            | 1 | C | 2100. | 2100. | 2100. | 2100. | 2100. |
| 2400.00       | 2            | 4 | C | 2400. | 2400. | 2400. | 2400. | 2400. |
| 2500.00       | 2            | 5 | C | 2500. | 2500. | 2500. | 2500. | 2500. |
| 2800.00       | 2            | 8 | C | 2800. | 2800. | 2800. | 2800. | 2800. |
| 3000.00       | 3            | 0 | C | 3000. | 3000. | 3000. | 3000. | 3000. |
| 3500.00       | 3            | 5 | C | 3500. | 3500. | 3500. | 3500. | 3500. |
| 3600.00       | 3            | 6 | C | 3600. | 3600. | 3600. | 3600. | 3600. |
| 4200.00       | 4            | 2 | C | 4200. | 4200. | 4200. | 4200. | 4200. |

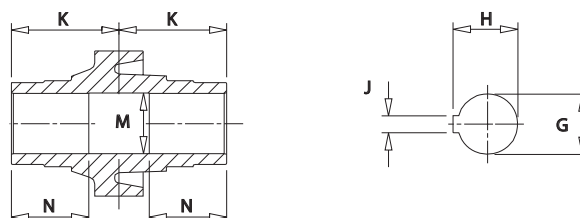
## OUTPUT OPTIONS

### OUTPUT SHAFT OPTIONS, COLUMN 11 ENTRY



| SIZE OF UNIT | TYPE OF OUTPUT SHAFT | COLUMN 11 ENTRY |            | DIMENSIONS IN MM (INCH SHAFTS IN INCHES) |         |       |                  |                  |                    |
|--------------|----------------------|-----------------|------------|------------------------------------------|---------|-------|------------------|------------------|--------------------|
|              |                      | SINGLE EXT      | DOUBLE EXT | A                                        | B       | C     | D                | E                | øF                 |
| A0280        | Standard             | C               | D          | 35                                       | 23      | 5.5   | 5.000<br>4.970   | 18.00<br>17.87   | 16.012<br>16.001   |
|              | Inch                 | N               | P          | 1.25"                                    | 0.9375" | 0.16" | 0.190"<br>0.188" | 0.707"<br>0.699" | 0.6250"<br>0.6245" |
| A0410        | Standard             | C               | D          | 45                                       | 34      | 6     | 6.000<br>5.970   | 22.50<br>22.37   | 20.015<br>20.002   |
|              | Inch                 | N               | P          | 1.625"                                   | 1.3125" | 0.16" | 0.190"<br>0.188" | 0.834"<br>0.826" | 0.7500"<br>0.7495" |
| A0510        | Standard             | C               | D          | 57                                       | 42      | 7     | 8.000<br>7.964   | 28.00<br>27.71   | 25.015<br>25.002   |
|              | Inch                 | N               | P          | 2.125"                                   | 1.7500" | 0.19" | 0.252"<br>0.250" | 1.110"<br>1.102" | 1.0000"<br>0.9995" |
| A0610        | Standard             | C               | D          | 70                                       | 55      | 7     | 8.000<br>7.964   | 31.00<br>30.71   | 28.015<br>28.002   |
|              | Inch                 | N               | P          | 2.625"                                   | 2.0000" | 0.25" | 0.252"<br>0.250" | 1.238"<br>1.230" | 1.1250"<br>1.1245" |
| A0730        | Standard             | C               | D          | 83                                       | 62      | 7     | 8.000<br>7.964   | 33.00<br>32.71   | 30.015<br>30.002"  |
|              | Inch                 | N               | P          | 3.25"                                    | 2.5000" | 0.25" | 0.252"<br>0.250" | 1.364"<br>1.356" | 1.2500"<br>1.2495" |
| A0860        | Standard             | C               | D          | 98                                       | 80      | 8     | 10.000<br>9.964  | 38.00<br>37.71   | 35.018<br>35.002   |
|              | Inch                 | N               | P          | 3.875"                                   | 3.2500" | 0.31" | 0.377"<br>0.375" | 1.666"<br>1.658" | 1.5000"<br>1.4995" |

### OUTPUT BORE OPTIONS, COLUMN 11 ENTRY



| SIZE OF UNIT | TYPE OF OUTPUT BORE | COLUMN 11 ENTRY | DIMENSIONS IN MM (INCH BORE IN INCHES) |                  |                    |        |                  |       |
|--------------|---------------------|-----------------|----------------------------------------|------------------|--------------------|--------|------------------|-------|
|              |                     |                 | G                                      | H                | J                  | K      | M                | N     |
| A0280        | Standard            | H               | 16.034<br>16.016                       | 18.4<br>18.3     | 5.015<br>4.985     | 40     | 16.3 16.2        | 32    |
|              | Inch                | A               | 0.6257"<br>0.6250"                     | 0.715"<br>0.709" | 0.1895"<br>0.1875" | 1.575" | 0.635"<br>0.630" | 1.26" |
| A0410        | Standard            | H               | 22.041<br>22.020                       | 24.9<br>24.8     | 6.015 5.985        | 50     | 22.3<br>22.2     | 40    |
|              | Inch                | A               | 0.7508"<br>0.7500"                     | 0.843"<br>0.837" | 0.1895"<br>0.1875" | 1.969" | 0.760"<br>0.755" | 1.57" |
| A0510        | Standard            | H               | 25.041<br>25.020                       | 28.5<br>28.3     | 8.018 7.982        | 56     | 25.3<br>25.2     | 45    |
|              | Inch                | A               | 1.0008"<br>1.0000"                     | 1.120"<br>1.114" | 0.252"<br>0.250"   | 2.205" | 1.010"<br>1.005" | 1.77" |
| A0610        | Standard            | H               | 35.050<br>35.025                       | 38.5<br>38.3     | 10.018<br>9.982    | 64     | 35.3<br>35.2     | 50    |
|              | Inch                | A               | 1.3760"<br>1.3750"                     | 1.524"<br>1.518" | 0.3145"<br>0.3125" | 2.520" | 1.385"<br>1.380" | 1.97" |
| A0730        | Standard            | H               | 40.050<br>40.025                       | 43.5<br>43.3     | 12.021<br>11.979   | 77     | 40.3<br>40.2     | 60    |
|              | Inch                | A               | 1.6260"<br>1.6250"                     | 1.802"<br>1.796" | 0.377"<br>0.375"   | 3.031" | 1.635"<br>1.630" | 2.36" |
| A0860        | Standard            | H               | 50.050<br>50.025                       | 54.0<br>53.8     | 14.021<br>13.979   | 93     | 50.3<br>50.2     | 73    |
|              | Inch                | A               | 1.8760"<br>1.8750"                     | 2.102"<br>2.096" | 0.502"<br>0.500"   | 3.661" | 1.885"<br>1.880" | 2.87" |

# SERIES AJ

## MOTOR ADAPTORS IEC & NEMA

### ADDITIONAL FEATURES

#### IEC MOTOR ADAPTORS, COLUMN 12 ENTRY FOR G TYPE ONLY

| MOTOR FRAME/<br>FLANGE | UNIT SIZE |       |       |       |       |       |
|------------------------|-----------|-------|-------|-------|-------|-------|
|                        | A0280     | A0410 | A0510 | A0610 | A0730 | A0860 |
| 63/D                   | A         | -     | -     | -     | -     | -     |
| 71/D                   | B         | B     | B     | -     | -     | -     |
| 71/C                   | C         | C     | C     | -     | -     | -     |
| 80/D                   | -         | D     | D     | D     | D     | -     |
| 80/C                   | -         | E     | E     | E     | -     | -     |
| 90/D                   | -         | -     | F     | F     | F     | F     |
| 90/C                   | -         | -     | G     | G     | G     | -     |
| 100/112D               | -         | -     | -     | H     | H     | H     |
| 100/112C               | -         | -     | -     | J     | J     | J     |
| 132/D                  | -         | -     | -     | -     | -     | K     |
| 132/C                  | -         | -     | -     | -     | -     | L     |

#### NEMA MOTOR ADAPTORS, COLUMN 12 ENTRY FOR A TYPE ONLY

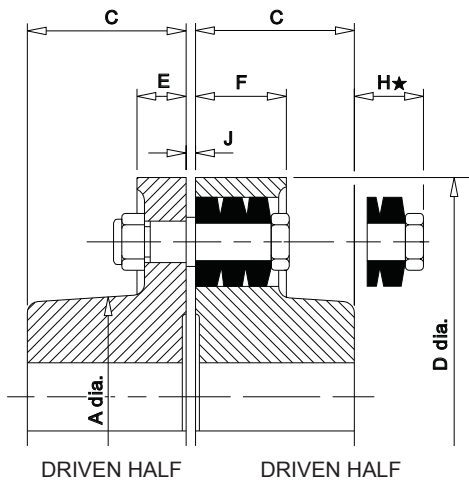
| MOTOR FRAME/<br>FLANGE | UNIT SIZE |       |       |       |       |       |
|------------------------|-----------|-------|-------|-------|-------|-------|
|                        | A0280     | A0410 | A0510 | A0610 | A0730 | A0860 |
| 56C                    | T         | T     | T     | T     | -     | -     |
| 143TC / 145TC          | -         | V     | V     | V     | V     | V     |
| 182TC / 184TC          | -         | -     | -     | X     | X     | X     |
| 213TC / 215TC          | -         | -     | -     | -     | -     | Y     |

#### ADDITIONAL FEATURES - COLUMN 20 ENTRY

| COLUMN 20<br>ENTRY | SPIGOT<br>CASE | PRIME<br>PAINTED<br>ONLY | LUBRICANT TYPE |           |
|--------------------|----------------|--------------------------|----------------|-----------|
|                    |                |                          | MINERAL        | SYNTHETIC |
| -                  |                |                          | •              |           |
| B                  |                | •                        | •              |           |
| H                  |                |                          |                |           |
| K                  |                | •                        |                |           |
| R                  |                |                          |                | •         |
| T                  |                | •                        |                | •         |
| 2                  | •              |                          | •              |           |
| 3                  | •              | •                        | •              |           |
| 4                  | •              |                          |                |           |
| 5                  | •              | •                        |                |           |
| 6                  | •              |                          |                | •         |
| 7                  | •              | •                        |                | •         |

# SERIES AJ

## CONE RING FLEXIBLE COUPLINGS



This type of coupling compensates for normal angular and parallel misalignment of shafts, together with a limited freedom of axial movement. The conical section rubber rings provide greatly improved torsional flexibility in drives where shock or cyclic loadings are present.

Two types are available, MEDIUM DUTY and HEAVY DUTY. Medium duty couplings (types 612 and 614) are identical to heavy duty couplings (types 611 and 613) except that they are supplied with only half the standard number of pin and ring assemblies. This enables a useful cost saving to be made when the size of coupling is determined by the shaft diameter rather than the coupling's torque capacity.

**Parallel Keyway** to BS 4235 : Part 1 1972 (1986) with P9 width tolerance

**Bore tolerance** to ISO 286-2-1988(E) is M7 upto and incl. 50 mm  
K7 over 50 mm

| Coupling Size | A   | D   | E  | F  | H  | H★ | J |
|---------------|-----|-----|----|----|----|----|---|
| 01            | 64  | 134 | 12 | 26 | 20 | 28 | 3 |
| 02            | 70  | 147 | 12 | 26 | 12 | 23 | 3 |
| 03            | 83  | 171 | 19 | 35 | 26 | 37 | 3 |
| 04            | 97  | 193 | 19 | 35 | 19 | 37 | 3 |
| 05            | 117 | 215 | 19 | 35 | 11 | 37 | 3 |
| 06            | 127 | 254 | 31 | 56 | 46 | 59 | 3 |
| 07            | 147 | 279 | 31 | 56 | 34 | 52 | 3 |

★ The coupling pin withdrawal distance is dimension H for straight bored couplings or dimension H★ for taper bushed couplings.

| Reference Number | Bore Diameter | Reference Number | Bore Diameter |
|------------------|---------------|------------------|---------------|
| 035              | 35            | - - -            | Pilot         |
| 038              | 38            | 018              | 18            |
| 040              | 40            | 019              | 19            |
| 042              | 42            | 020              | 20            |
| 045              | 45            | 022              | 22            |
| 048              | 48            | 024              | 24            |
| 050              | 50            | 025              | 25            |
| 055              | 55            | 028              | 28            |
| 056              | 56            | 030              | 30            |
| 060              | 60            | 032              | 32            |

| Coupling size | Types 611 & 612<br>Straight bored |              |             |              | Types 613 & 614<br>Taper bushed |           |              |                   | Types 612 & 614<br>Medium Duty |                |                |                 | Types 611 & 613<br>Heavy Duty |                |             |
|---------------|-----------------------------------|--------------|-------------|--------------|---------------------------------|-----------|--------------|-------------------|--------------------------------|----------------|----------------|-----------------|-------------------------------|----------------|-------------|
|               | Max. bore                         | Min. bore    |             | Hub length C | Max. bore                       | Min. bore | Hub length C | Taper bush length | Torque kNm                     | kW 100 rev/min | kW 960 rev/min | kW 1450 rev/min | Torque kNm                    | kW 100 rev/min | Max rev/min |
|               |                                   | Driving half | Driven half |              |                                 |           |              |                   |                                |                |                |                 |                               |                |             |
| 01            | 38                                | *            | 19          | 48           | 25                              | 9         | 40           | 22.3              | 0.090                          | 0.95           | 9.1            | 13.7            | 0.181                         | 1.89           | 4780        |
| 02            | 42                                | *            | 22          | 56           | 32                              | 11        | 45           | 38.1              | 0.140                          | 1.46           | 14.0           | 21.2            | 0.279                         | 2.92           | 4335        |
| 03            | 48                                | *            | 25          | 61           | 40                              | 14        | 50           | 38.1              | 0.232                          | 2.43           | 23.4           | 35.3            | 0.465                         | 4.87           | 3745        |
| 04            | 60                                | *            | 28          | 68           | 48                              | 18        | 50           | 44.5              | 0.359                          | 3.75           | 36.0           | 54.4            | 0.717                         | 7.51           | 3320        |
| 05            | 70                                | *            | 32          | 76           | 60                              | 16        | 50           | 44.5              | 0.509                          | 5.33           | 51.2           | 77.3            | 1.018                         | 10.7           | 3000        |
| 06            | 80                                | 25           | 42          | 88           | 60                              | 19        | 75           | 63.5              | 1.219                          | 12.76          | 123            | 185             | 2.438                         | 25.5           | 2520        |
| 07            | 90                                | 30           | 55          | 100          | 75                              | 35        | 82           | 76.2              | 1.681                          | 17.60          | 169            | 255             | 3.362                         | 35.2           | 2295        |

\* Note: up to size 05 the Driving half hubs are solid.

All dimensions in mm

For applications in ambient temperatures above 80°C (176°F) or below -30°C (-22°F) refer to our Application Engineers.

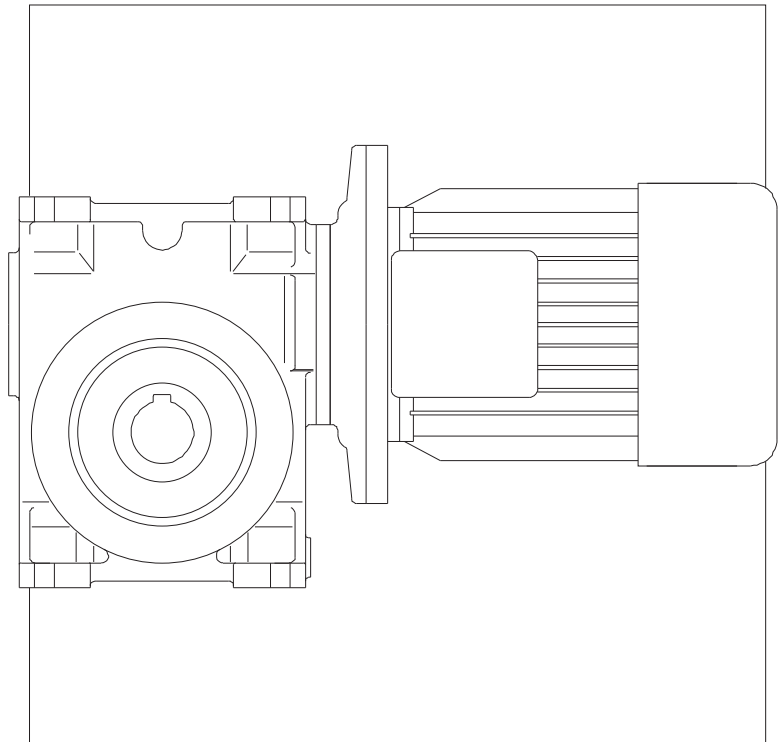
The depths of rectangular Imperial keyways to BS46 are generally greater than the equivalent metric keyways, hence the maximum bores given must be marginally reduced when using an Imperial inch system. Consult our Application Engineers for details.

**SERIES AJ**

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**MOTORISED**

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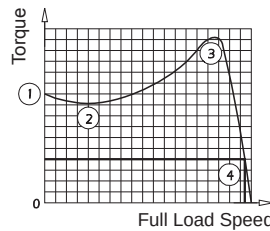


**MOTORISED**  
**SERIES AJ**

# SERIES AJ

## MOTOR PERFORMANCE DATA ALUMINIUM FRAME MOTORS

Type Cage Rotor  
Enclosure IP55, TEV (ICO141)  
Rating S1 (Maximum Continuous)  
Supply 3 PH 50Hz 380 - 415V  
Insulation Class F  
Temp. Rise Class B



Typical Speed/Torque Curve (D.O.L. Starting)

- (1) Starting Torque or Locked Rotor Torque
- (2) Pull Up Torque or Run Up Torque
- (3) Pull Out Torque or Breakdown Torque
- (4) Full Load Torque

Torque/Speed curves for specific motors can be supplied on request

| kW<br>COLUMN<br>ENTRY | MOTOR<br>FRAME<br>SIZE | FULL<br>LOAD<br>SPEED | FLC (AMPS)<br>400 VOLTS | EFFICIENCY % |      |      | POWER FACTOR |      |      | D.O.L.<br>STARTING<br>% OF FULL<br>LOAD |     | STAR DELTA<br>STARTING<br>% OF FULL<br>LOAD |     | PULL UP<br>TORQUE<br>% FLT | PULL OUT<br>TORQUE<br>% FLT | ROTOR<br>INERTIA<br>WK2 IN KGM <sup>2</sup> |
|-----------------------|------------------------|-----------------------|-------------------------|--------------|------|------|--------------|------|------|-----------------------------------------|-----|---------------------------------------------|-----|----------------------------|-----------------------------|---------------------------------------------|
|                       |                        |                       |                         | FL           | ¾ L  | ½ L  | FL           | ¾ L  | ½ L  | LRT                                     | LRC | LRT                                         | LRC |                            |                             |                                             |
| . 1 2                 | 63                     | 1360                  | 0.5                     | 55           | 50   | 43   | 0.65         | 0.60 | 0.50 | 260                                     | 320 |                                             |     | 240                        | 260                         | 0.00025                                     |
|                       | 63                     | 835                   | 0.6                     | 43           | 41   | 37   | 0.62         | 0.56 | 0.46 | 230                                     | 250 |                                             |     | 200                        | 180                         | 0.0003                                      |
|                       | 71                     | 600                   | 0.7                     | 42           | 38   | 34   | 0.56         | 0.50 | 0.42 | 200                                     | 250 |                                             |     | 180                        | 180                         | 0.0006                                      |
| . 1 8                 | 63                     | 2680                  | 0.54                    | 61           | 58   | 52   | 0.79         | 0.73 | 0.60 | 250                                     | 380 |                                             |     | 210                        | 210                         | 0.0002                                      |
|                       | 63                     | 1360                  | 0.7                     | 56           | 52   | 44   | 0.67         | 0.60 | 0.50 | 260                                     | 320 |                                             |     | 240                        | 260                         | 0.0003                                      |
|                       | 71                     | 840                   | 0.8                     | 52.5         | 51   | 47   | 0.62         | 0.55 | 0.47 | 230                                     | 260 |                                             |     | 200                        | 180                         | 0.0005                                      |
|                       | 80                     | 650                   | 0.8                     | 53           | 49   | 45   | 0.61         | 0.56 | 0.45 | 180                                     | 230 |                                             |     | 160                        | 180                         | 0.0024                                      |
| . 2 5                 | 63                     | 2730                  | 0.7                     | 64           | 61   | 55   | 0.80         | 0.72 | 0.60 | 240                                     | 400 |                                             |     | 210                        | 210                         | 0.00023                                     |
|                       | 71                     | 1370                  | 0.8                     | 64           | 60   | 54   | 0.68         | 0.63 | 0.56 | 270                                     | 370 |                                             |     | 240                        | 260                         | 0.0005                                      |
|                       | 71                     | 845                   | 1.1                     | 53           | 52.5 | 50   | 0.62         | 0.55 | 0.47 | 240                                     | 280 |                                             |     | 200                        | 180                         | 0.0006                                      |
|                       | 80                     | 650                   | 1.0                     | 55.5         | 52   | 46   | 0.68         | 0.60 | 0.50 | 180                                     | 250 |                                             |     | 160                        | 180                         | 0.00275                                     |
| . 3 7                 | 71                     | 2730                  | 1.05                    | 65           | 62   | 58   | 0.79         | 0.72 | 0.60 | 280                                     | 400 |                                             |     | 250                        | 250                         | 0.0004                                      |
|                       | 71                     | 1380                  | 1.2                     | 65           | 64   | 58   | 0.67         | 0.60 | 0.52 | 280                                     | 420 |                                             |     | 260                        | 270                         | 0.0006                                      |
|                       | 80                     | 925                   | 1.2                     | 62           | 59   | 50   | 0.72         | 0.62 | 0.52 | 220                                     | 340 |                                             |     | 170                        | 200                         | 0.0024                                      |
|                       | 90                     | 680                   | 1.4                     | 62           | 59   | 53   | 0.62         | 0.54 | 0.44 | 260                                     | 380 |                                             |     | 220                        | 230                         | 0.00375                                     |
|                       | 71                     | 2720                  | 1.5                     | 68           | 66   | 62   | 0.80         | 0.73 | 0.63 | 280                                     | 420 |                                             |     | 260                        | 250                         | 0.00045                                     |
| . 5 5                 | 80                     | 1370                  | 1.6                     | 67.5         | 68   | 65   | 0.74         | 0.64 | 0.52 | 250                                     | 400 |                                             |     | 180                        | 200                         | 0.0013                                      |
|                       | 80                     | 925                   | 1.65                    | 67           | 62   | 53   | 0.72         | 0.62 | 0.52 | 250                                     | 370 |                                             |     | 200                        | 210                         | 0.00275                                     |
|                       | 90                     | 690                   | 2.05                    | 63           | 60   | 54   | 0.62         | 0.54 | 0.44 | 320                                     | 420 |                                             |     | 270                        | 280                         | 0.005                                       |
|                       | 80                     | 2800                  | 1.9                     | 71           | 69   | 67   | 0.83         | 0.78 | 0.66 | 230                                     | 460 |                                             |     | 190                        | 230                         | 0.00083                                     |
| . 7 5                 | 80                     | 1385                  | 2.2                     | 70           | 69   | 66   | 0.72         | 0.62 | 0.51 | 250                                     | 430 |                                             |     | 190                        | 200                         | 0.0016                                      |
|                       | 90                     | 910                   | 2.2                     | 67           | 65   | 63   | 0.75         | 0.66 | 0.55 | 240                                     | 360 |                                             |     | 190                        | 240                         | 0.00375                                     |
|                       | 100                    | 700                   | 2.4                     | 68           | 68   | 66   | 0.68         | 0.58 | 0.48 | 160                                     | 440 |                                             |     | 110                        | 170                         | 0.0093                                      |
|                       | 80                     | 2840                  | 2.5                     | 76           | 75   | 73   | 0.83         | 0.75 | 0.64 | 250                                     | 540 |                                             |     | 190                        | 240                         | 0.00097                                     |
| 1 . 1                 | 90                     | 1380                  | 2.9                     | 72           | 72.5 | 72   | 0.76         | 0.68 | 0.57 | 250                                     | 440 |                                             |     | 220                        | 250                         | 0.0033                                      |
|                       | 90                     | 920                   | 3.1                     | 71           | 68   | 64   | 0.73         | 0.67 | 0.52 | 240                                     | 460 |                                             |     | 140                        | 290                         | 0.005                                       |
|                       | 100                    | 700                   | 3.4                     | 69           | 68   | 66   | 0.68         | 0.58 | 0.48 | 200                                     | 440 |                                             |     | 140                        | 180                         | 0.0123                                      |
|                       | 90                     | 2820                  | 3.5                     | 76           | 75   | 74   | 0.82         | 0.73 | 0.63 | 240                                     | 500 |                                             |     | 200                        | 250                         | 0.0016                                      |
| 1 . 5                 | 90                     | 1390                  | 3.8                     | 76           | 76   | 75   | 0.76         | 0.66 | 0.55 | 260                                     | 500 |                                             |     | 230                        | 260                         | 0.004                                       |
|                       | 100                    | 950                   | 3.9                     | 75           | 74.5 | 73   | 0.75         | 0.66 | 0.54 | 180                                     | 500 |                                             |     | 150                        | 200                         | 0.01                                        |
|                       | 112                    | 700                   | 4.3                     | 72           | 72   | 70   | 0.71         | 0.62 | 0.52 | 180                                     | 430 |                                             |     | 170                        | 200                         | 0.017                                       |
|                       | 90                     | 2850                  | 5.0                     | 78           | 78   | 77   | 0.82         | 0.73 | 0.63 | 300                                     | 700 |                                             |     | 260                        | 320                         | 0.0022                                      |
| 2 . 2                 | 100                    | 1410                  | 5.2                     | 78.5         | 78.5 | 78   | 0.78         | 0.71 | 0.60 | 240                                     | 530 |                                             |     | 210                        | 240                         | 0.0073                                      |
|                       | 112                    | 945                   | 5.5                     | 75           | 76   | 76   | 0.77         | 0.71 | 0.57 | 220                                     | 500 |                                             |     | 190                        | 200                         | 0.015                                       |
|                       | 132                    | 705                   | 5.8                     | 74           | 74   | 73.5 | 0.74         | 0.64 | 0.53 | 180                                     | 500 |                                             |     | 130                        | 160                         | 0.038                                       |
|                       | 100                    | 2900                  | 6.5                     | 79           | 79   | 77   | 0.84         | 0.74 | 0.64 | 270                                     | 700 |                                             |     | 250                        | 300                         | 0.005                                       |
| 3 . 0                 | 100                    | 1420                  | 6.8                     | 80           | 80   | 79   | 0.80         | 0.72 | 0.60 | 240                                     | 550 |                                             |     | 210                        | 250                         | 0.009                                       |
|                       | 132                    | 950                   | 7.1                     | 78           | 78   | 77   | 0.78         | 0.71 | 0.60 | 190                                     | 600 |                                             |     | 150                        | 200                         | 0.03                                        |
|                       | 132                    | 710                   | 7.6                     | 76.5         | 77   | 76   | 0.75         | 0.68 | 0.56 | 180                                     | 430 |                                             |     | 130                        | 160                         | 0.046                                       |
|                       | 112                    | 2900                  | 8.2                     | 83           | 83   | 82   | 0.85         | 0.81 | 0.73 | 280                                     | 700 | 85                                          | 220 | 260                        | 300                         | 0.0063                                      |
| 4 . 0                 | 112                    | 1425                  | 8.6                     | 83           | 83   | 82   | 0.81         | 0.72 | 0.62 | 270                                     | 620 | 84                                          | 195 | 230                        | 290                         | 0.0115                                      |
|                       | 132                    | 955                   | 9.5                     | 78           | 78   | 77   | 0.78         | 0.72 | 0.62 | 230                                     | 600 | 73                                          | 190 | 160                        | 230                         | 0.038                                       |
|                       | 132                    | 2900                  | 11.8                    | 83           | 82.5 | 80   | 0.82         | 0.75 | 0.64 | 340                                     | 700 | 100                                         | 220 | 280                        | 280                         | 0.016                                       |
| 5 . 5                 | 132                    | 1450                  | 11.85                   | 85           | 85.5 | 85   | 0.79         | 0.72 | 0.59 | 260                                     | 650 | 80                                          | 200 | 180                        | 270                         | 0.0238                                      |
|                       | 132                    | 960                   | 13                      | 81           | 80   | 79   | 0.76         | 0.66 | 0.54 | 260                                     | 660 | 80                                          | 210 | 180                        | 260                         | 0.046                                       |
|                       | 132                    | 2900                  | 15.3                    | 84.5         | 84   | 81   | 0.84         | 0.79 | 0.73 | 330                                     | 700 | 100                                         | 220 | 270                        | 270                         | 0.019                                       |
| 7 . 5                 | 132                    | 1450                  | 15.6                    | 86           | 86   | 85   | 0.81         | 0.75 | 0.64 | 260                                     | 690 | 80                                          | 215 | 180                        | 270                         | 0.03                                        |
|                       | 132                    | 2910                  | 18.5                    | 85           | 85   | 83   | 0.85         | 0.81 | 0.73 | 340                                     | 720 | 105                                         | 220 | 270                        | 270                         | 0.023                                       |
|                       | 132                    | 1460                  | 18.5                    | 88           | 88   | 87   | 0.82         | 0.75 | 0.65 | 260                                     | 740 | 81                                          | 230 | 180                        | 270                         | 0.0338                                      |
| 1 1 .                 | 132                    | 2920                  | 22                      | 89           | 89   | 88   | 0.82         | 0.77 | 0.68 | 210                                     | 620 | 70                                          | 200 | 200                        | 270                         | 0.03                                        |

# **SERIES AJ**

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## **STANDARD MOTOR VARIANTS AVAILABLE**

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All variants of standard IEC and NEMA motors can be fitted to Series A, single and double reduction gear units.

For example:-

- Single phase
- DC
- Energy efficient
- Wash down
- Explosion-proof
- Suitable to be used with inverters
- Force vented
- Flame proof
- Two speed
- Tropicalised
- Crane duty
- Underground specification
- Fitted with encoders
- Fitted with tachometer
- Fitted with thermistors
- Fitted with anti condensation heaters
- Hydraulic motors with IEC flanges
- Air motors with IEC flanges

Standard clutch brake modules with IEC flanges can be fitted between motor and gearhead.

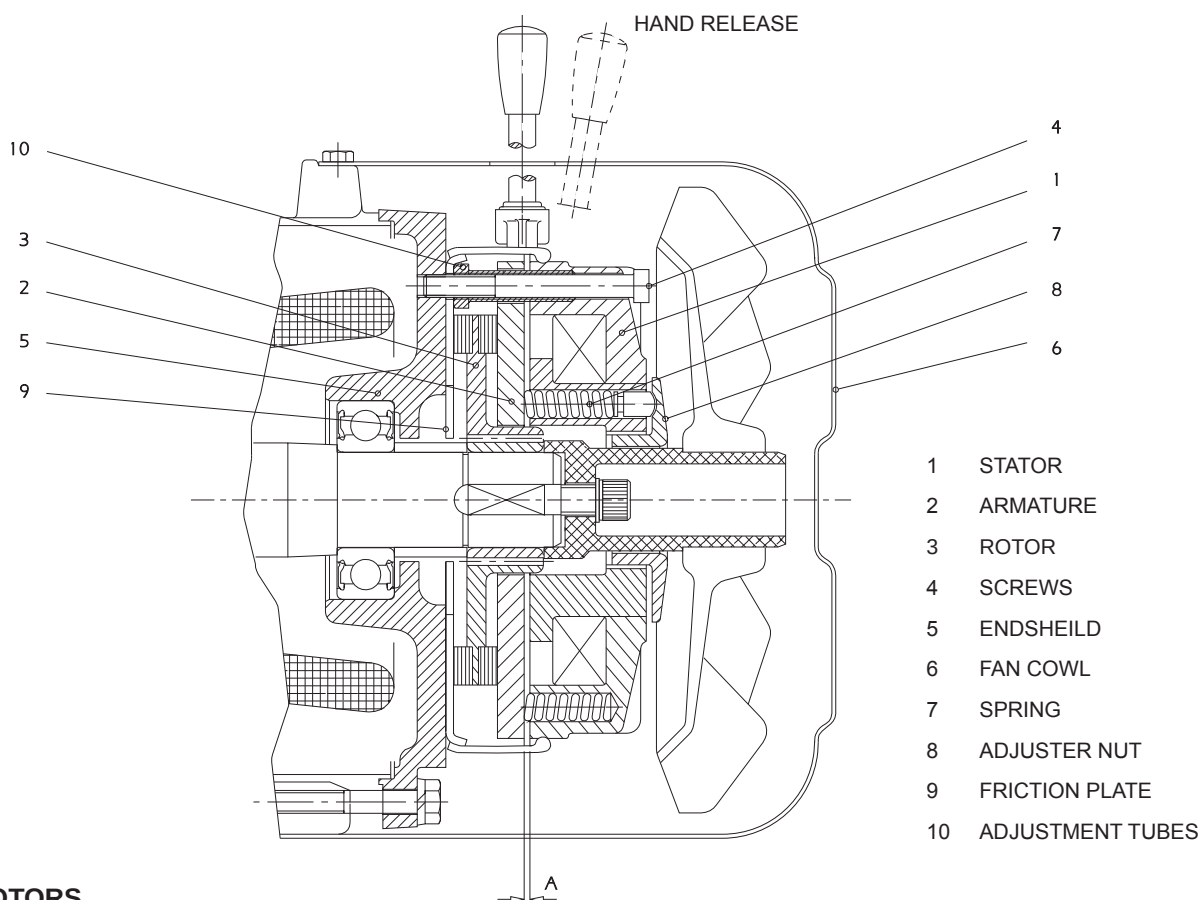
Variable speed packages are available, either belt variators or mechanical disc variators.

For any of these combinations please contact your local Sales office.

# SERIES AJ

## BRAKE MOTORS

### MOTORS AVAILABLE



#### BRAKE MOTORS

Brake motors are fitted with spring-loaded brakes (mounted between motor endshield and fan blade) under the fan cowl. When the motor is switched on, the brake is supplied with DC voltage via a suitable rectifier.

The spring-loaded brake is normally off, electromagnetically released brake comprising the stator (1), the armature (2) and the brake rotor (3). It is fixed to the motor endshield (5) with screws (4) and located under the fan cowl (6). The friction plate (9) is held against the motor end shield (5) and serves as a counter friction face. When the release current does not flow the springs (7) press the armature (2) against the brake rotor (3) which in turn is pressed against the friction plate (9). The braking torque is generated through friction on both friction faces.

When switching on the motor the brake release coil is activated and the magnetic force of the stator (1) releases armature (2) against the spring resistance (7). The rotor (3) is freed.

The brake torque can be reduced by a maximum of 40% by using an adjuster (8).

We recommend to check the air gap A periodically, although, normally the brake needs no maintenance. Depending on the inertia to brake, speed, and switching frequency, the rotor can wear and become smaller due to the friction at the friction surfaces. If A max. (see table) is attained, the air gap must be adjusted. Where adjustment is needed, slacken screws (4) and reset the gap by turning adjustment tubes (10). Re-tighten screws (4) to the correct torque shown in the table below.

| MOTOR FRAME SIZE       |    | 63   | 71  | 80  | 90  | 100/112 | 132 |
|------------------------|----|------|-----|-----|-----|---------|-----|
| BRAKE SIZE             |    | 06   | 06  | 08  | 10  | 12      | 14  |
| BRAKE TORQUE           | Nm | 2.85 | 4   | 8   | 16  | 32      | 60  |
| A                      | mm | 0.2  | 0.2 | 0.2 | 0.2 | 0.3     | 0.3 |
| A max                  | mm | 0.5  | 0.5 | 0.5 | 0.5 | 0.75    | 0.8 |
| BOLT TIGHTENING TORQUE | Nm | 3    | 3   | 6   | 10  | 10      | 25  |

MOTORS AVAILABLE  
COLUMN 19 ENTRY

| TYPE OF MOTOR                      | COLUMN<br>19 ENTRY |
|------------------------------------|--------------------|
| STANDARD                           | A                  |
| STANDARD WITH BRAKE                | B                  |
| STANDARD WITH BRAKE & HAND RELEASE | C                  |
| FIT NON STANDARD MOTOR             | N                  |
| FIT FREE ISSUE MOTOR               | F                  |

\* The standard motor with brake will be fitted with a rectifier and wired for AC switching.

For fast braking needed with safety critical applications (ie lifts, hoists and cranes), it is essential to switch the brake on the DC side of the rectifier.

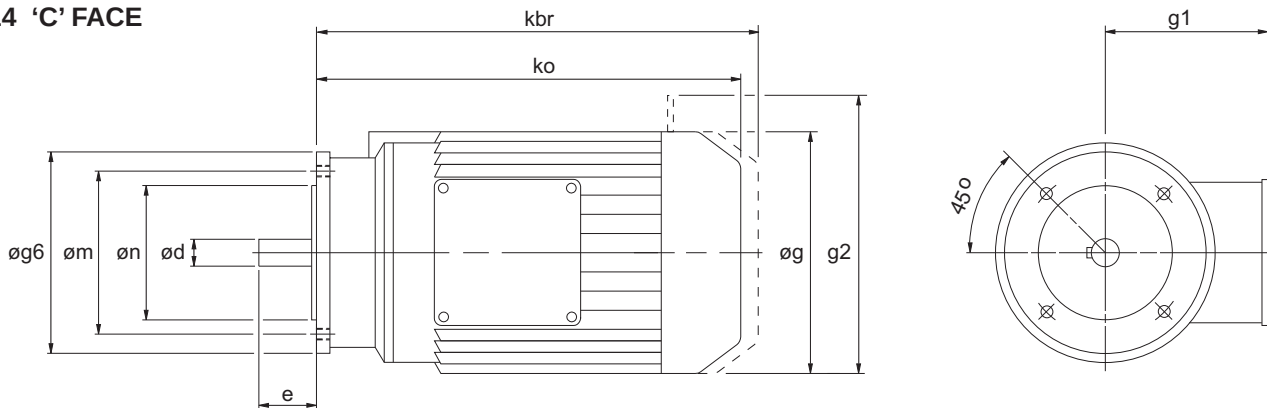
In such cases motor type N should be entered in column 19.

For larger frame sizes standard proprietary brake motors are available. For details contact our Application Engineers.

# SERIES AJ

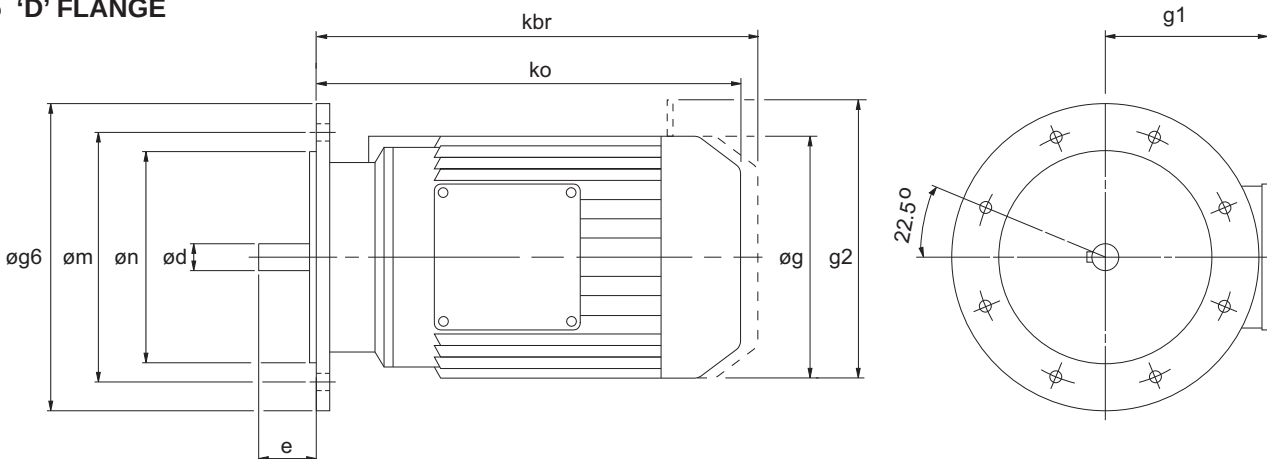
## MOTOR DETAIL

### B14 'C' FACE



| MOTOR FRAME SIZE | øg6 | øm  | øn  | ød | e  | ko  | kbr | øg  | g1  | g2  | FIXING BOLTS |
|------------------|-----|-----|-----|----|----|-----|-----|-----|-----|-----|--------------|
| 71               | 105 | 85  | 70  | 14 | 30 | 210 | 251 | 137 | 107 | 167 | 4-M6         |
| 80               | 120 | 100 | 80  | 19 | 40 | 230 | 280 | 158 | 118 | 190 | 4-M6         |
| 90S/L            | 140 | 115 | 95  | 24 | 50 | 270 | 329 | 177 | 149 | 218 | 4-M8         |
| 100              | 160 | 130 | 110 | 28 | 60 | 340 | 408 | 197 | 159 | 238 | 4-M8         |
| 112              | 160 | 130 | 110 | 28 | 60 | 340 | 408 | 197 | 159 | 238 | 4-M8         |
| 132S/M           | 200 | 165 | 130 | 38 | 80 | 402 | 473 | 253 | 184 | 288 | 4-M10        |

### B5 'D' FLANGE



| MOTOR FRAME SIZE | øg6 | øm  | øn  | ød | e  | ko  | kbr | øg  | g1  | g2  | FIXING BOLTS |
|------------------|-----|-----|-----|----|----|-----|-----|-----|-----|-----|--------------|
| 63               | 140 | 115 | 95  | 11 | 23 | 185 | 227 | 122 | 101 | 160 | 4-M8         |
| 71               | 160 | 130 | 110 | 14 | 30 | 210 | 251 | 137 | 107 | 167 | 4-M8         |
| 80               | 200 | 165 | 130 | 19 | 40 | 230 | 280 | 158 | 118 | 190 | 4-M10        |
| 90S/L            | 200 | 165 | 130 | 24 | 50 | 270 | 329 | 177 | 149 | 218 | 4-M10        |
| 100              | 250 | 215 | 180 | 28 | 60 | 340 | 408 | 197 | 159 | 238 | 4-M12        |
| 112              | 250 | 215 | 180 | 28 | 60 | 340 | 408 | 197 | 159 | 238 | 4-M12        |
| 132S/M           | 300 | 265 | 230 | 38 | 80 | 402 | 473 | 253 | 184 | 288 | 4-M12        |

When fitting motor always use stepped key provided with gearbox, not the standard key supplied with motor

These dimensions apply to our standard motors

# SERIES AJ

## SELECTION TABLES

### GEARED MOTORS

**0.09 kW**

6 POLE

| N2<br>R/MIN     | i       | M2<br>Nm         | Fm                | N                | UNIT DESIGNATION                                                                                                                                                                                    | Kg                              |                        |                                                                         |                                    |
|-----------------|---------|------------------|-------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------|-------------------------------------------------------------------------|------------------------------------|
| Output<br>Speed | Ratio   | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span style="border: 1px solid black; padding: 0 2px;">1</span> Through <span style="border: 1px solid black; padding: 0 2px;">20</span><br>Spaces to be filled when entering<br>order | Weight of<br>Base<br>Mount Unit | Motor<br>Frame<br>Size | Cone Ring Output Coupling<br>Spaces to be filled when<br>entering order | Max Bore<br>Coupling<br>Drive Half |
| 160             | 5.25    | 4                | 5.12              | 1440             | A 0 2 8 0 5 . 0 _ M _ - _ _ . 0 9 6 A _                                                                                                                                                             | 10.6                            | 63a                    | X 6 1 2 0 1 M 0 1 6 - _ _ _                                             | 38                                 |
| 115             | 7.33    | 6                | 4.60              | 1440             | 7 . 5                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 80              | 10.50   | 8                | 4.15              | 1440             | 1 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 67              | 12.50   | 9                | 3.74              | 1440             | 1 3 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 58              | 14.50   | 11               | 3.38              | 1430             | 1 5 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 42              | 20.00   | 13               | 2.98              | 1430             | 2 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 34              | 25.00   | 15               | 2.67              | 1430             | 2 5 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 28              | 30.00   | 18               | 2.20              | 1420             | 3 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 21              | 40.00   | 20               | 1.58              | 1420             | 4 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 17              | 50.00   | 24               | 1.08              | 1410             | 5 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 11              | 76.13   | 48               | 3.41              | 2760             | A 0 4 1 0 7 5 . _ N _ - _ _ . 0 9 6 A _                                                                                                                                                             | 18.6                            | 63a                    | X 6 1 1 0 1 M 0 2 0 - _ _ _                                             | 38                                 |
| 8.0             | 105.00  | 61               | 2.06              | 2750             | 1 0 0                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 6.4             | 131.25  | 69               | 2.57              | 2750             | 1 2 5                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 5.5             | 152.25  | 84               | 2.24              | 2740             | 1 5 0                                                                                                                                                                                               |                                 |                        | X 6 1 1 0 2 M 0 2 0 - _ _ _                                             | 42                                 |
| 4.0             | 210.00  | 105              | 1.27              | 2730             | 2 0 0                                                                                                                                                                                               |                                 |                        | X 6 1 1 0 1 M 0 2 0 - _ _ _                                             | 38                                 |
| 4.0             | 210.25  | 108              | 1.74              | 2730             | 2 2 5                                                                                                                                                                                               |                                 |                        | X 6 1 1 0 2 M 0 2 0 - _ _ _                                             | 42                                 |
| 3.2             | 262.50  | 118              | 1.59              | 2730             | 2 5 0                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 2.9             | 290.00  | 123              | 1.53              | 2730             | 3 0 0                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 2.3             | 362.50  | 150              | 1.25              | 2710             | 3 5 0                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 2.1             | 400.00  | 149              | 0.94              | 2710             | 4 0 0                                                                                                                                                                                               |                                 |                        | X 6 1 1 0 1 M 0 2 0 - _ _ _                                             | 38                                 |
| 1.9             | 435.00  | 167              | 1.13              | 2710             | 4 5 0                                                                                                                                                                                               |                                 |                        | X 6 1 1 0 2 M 0 2 0 - _ _ _                                             | 42                                 |
| 1.7             | 500.00  | 167              | 1.13              | 2710             | 5 0 0                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 1.4             | 600.00  | 186              | 1.01              | 2700             | 6 0 0                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 1.3             | 625.00  | 195              | 0.97              | 2700             | 6 2 5                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 5.3             | 157.50  | 90               | 3.05              | 3500             | A 0 5 1 0 1 5 0 _ N _ - _ _ . 0 9 6 A _                                                                                                                                                             | 22.6                            | 63a                    | X 6 1 1 0 2 M 0 2 5 - _ _ _                                             | 42                                 |
| 4.0             | 210.00  | 105              | 2.92              | 3500             | 2 0 0                                                                                                                                                                                               |                                 |                        | X 6 1 1 0 3 M 0 2 5 - _ _ _                                             | 48                                 |
| 3.9             | 217.50  | 116              | 2.45              | 3490             | 2 2 5                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 3.2             | 262.50  | 124              | 2.49              | 3490             | 2 5 0                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 2.9             | 292.50  | 134              | 2.11              | 3490             | 3 0 0                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 2.3             | 362.50  | 158              | 1.94              | 3480             | 3 5 0                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 2.2             | 390.00  | 155              | 1.98              | 3480             | 4 0 0                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 1.9             | 435.00  | 182              | 1.69              | 3470             | 4 5 0                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 1.7             | 487.50  | 181              | 1.70              | 3470             | 5 0 0                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 1.4             | 585.00  | 207              | 1.49              | 3460             | 6 0 0                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 1.3             | 625.00  | 211              | 1.46              | 3460             | 6 2 5                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 1.1             | 750.00  | 240              | 1.28              | 3450             | 7 5 0                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 1.0             | 800.00  | 230              | 1.34              | 3450             | 8 0 0                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| .93             | 900.00  | 271              | 1.14              | 3430             | 9 0 0                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| .84             | 1000.00 | 264              | 1.17              | 3440             | 1 0 C                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| .70             | 1200.00 | 299              | 1.03              | 3420             | 1 2 C                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |

#### NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

# SERIES AJ

## SELECTION TABLES

### GEARED MOTORS

**0.12 kW**

**4 POLE**

**6 POLE**

**NOTE**

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

| N2<br>R/MIN     | i       | M2<br>Nm         | Fm                | N                | UNIT DESIGNATION                                                                                  | Kg                              |                        |                                                                         |                                    |
|-----------------|---------|------------------|-------------------|------------------|---------------------------------------------------------------------------------------------------|---------------------------------|------------------------|-------------------------------------------------------------------------|------------------------------------|
| Output<br>Speed | Ratio   | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> Through <span>20</span><br>Spaces to be filled when entering<br>order | Weight of<br>Base<br>Mount Unit | Motor<br>Frame<br>Size | Cone Ring Output Coupling<br>Spaces to be filled when<br>entering order | Max Bore<br>Coupling<br>Drive Half |
| 259             | 5.25    | 3                | 5.24              | 1450             | A 0 2 8 0 5 . 0 _ M _ _ _ . 1 2 4 A _                                                             | 10.5                            | 63a                    | X 6 1 2 0 1 M 0 1 6 - _ _ _                                             | 38                                 |
| 185             | 7.33    | 5                | 4.74              | 1440             | 7 . 5                                                                                             |                                 |                        |                                                                         |                                    |
| 130             | 10.50   | 7                | 4.30              | 1440             | 1 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 109             | 12.50   | 8                | 3.88              | 1440             | 1 3 .                                                                                             |                                 |                        |                                                                         |                                    |
| 94              | 14.50   | 9                | 3.52              | 1440             | 1 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 68              | 20.00   | 11               | 3.08              | 1430             | 2 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 54              | 25.00   | 13               | 2.76              | 1430             | 2 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 45              | 30.00   | 15               | 2.27              | 1430             | 3 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 34              | 40.00   | 17               | 1.77              | 1420             | 4 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 27              | 50.00   | 20               | 1.21              | 1420             | 5 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 23              | 60.00   | 21               | 0.88              | 1410             | 6 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 18              | 76.13   | 40               | 3.67              | 2760             | A 0 4 1 0 7 5 . _ N _ _ _ . 1 2 4 A _                                                             | 18.5                            | 63a                    | X 6 1 1 0 1 M 0 2 0 - _ _ _                                             | 38                                 |
| 13              | 105.00  | 52               | 2.35              | 2760             | 1 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 10              | 131.25  | 58               | 2.77              | 2750             | 1 2 5                                                                                             |                                 |                        |                                                                         |                                    |
| 8.9             | 152.25  | 71               | 2.46              | 2750             | 1 5 0                                                                                             |                                 |                        |                                                                         |                                    |
| 6.5             | 210.00  | 88               | 1.48              | 2740             | 2 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 6.5             | 210.25  | 91               | 2.04              | 2740             | 2 2 5                                                                                             |                                 |                        | X 6 1 1 0 2 M 0 2 0 - _ _ _                                             | 42                                 |
| 5.2             | 262.50  | 100              | 1.88              | 2740             | 2 5 0                                                                                             |                                 |                        |                                                                         |                                    |
| 4.7             | 290.00  | 105              | 1.80              | 2740             | 3 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 3.8             | 362.50  | 127              | 1.49              | 2720             | 3 5 0                                                                                             |                                 |                        |                                                                         |                                    |
| 3.4             | 400.00  | 124              | 1.09              | 2720             | 4 0 0                                                                                             |                                 |                        | X 6 1 1 0 1 M 0 2 0 - _ _ _                                             | 38                                 |
| 3.1             | 435.00  | 142              | 1.33              | 2710             | 4 5 0                                                                                             |                                 |                        | X 6 1 1 0 2 M 0 2 0 - _ _ _                                             | 42                                 |
| 2.7             | 500.00  | 142              | 1.33              | 2720             | 5 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 2.3             | 600.00  | 158              | 1.20              | 2710             | 6 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 2.2             | 625.00  | 165              | 1.14              | 2700             | 6 2 5                                                                                             |                                 |                        |                                                                         |                                    |
| 1.8             | 750.00  | 183              | 1.03              | 2700             | 7 5 0                                                                                             |                                 |                        |                                                                         |                                    |
| 1.7             | 800.00  | 176              | 0.81              | 2230             | 8 0 0                                                                                             |                                 |                        | X 6 1 1 0 1 M 0 2 0 - _ _ _                                             | 38                                 |
| 8.6             | 157.50  | 76               | 3.39              | 3500             | A 0 5 1 0 1 5 0 _ N _ _ _ . 1 2 4 A _                                                             | 22.5                            | 63a                    | X 6 1 1 0 2 M 0 2 5 - _ _ _                                             | 42                                 |
| 6.5             | 210.00  | 90               | 3.42              | 3500             | 2 0 0                                                                                             |                                 |                        | X 6 1 1 0 3 M 0 2 5 - _ _ _                                             | 48                                 |
| 6.3             | 217.50  | 98               | 2.75              | 3500             | 2 2 5                                                                                             |                                 |                        | X 6 1 1 0 2 M 0 2 5 - _ _ _                                             | 42                                 |
| 5.2             | 262.50  | 106              | 2.91              | 3490             | 2 5 0                                                                                             |                                 |                        | X 6 1 1 0 3 M 0 2 5 - _ _ _                                             | 48                                 |
| 4.6             | 292.50  | 115              | 2.48              | 3490             | 3 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 3.8             | 362.50  | 135              | 2.28              | 3480             | 3 5 0                                                                                             |                                 |                        |                                                                         |                                    |
| 3.7             | 367.50  | 110              | 0.90              | 3490             | 3 7 5                                                                                             |                                 |                        | X 6 1 1 0 1 M 0 2 5 - _ _ _                                             | 38                                 |
| 3.5             | 390.00  | 134              | 2.31              | 3490             | 4 0 0                                                                                             |                                 |                        | X 6 1 1 0 3 M 0 2 5 - _ _ _                                             | 48                                 |
| 3.1             | 435.00  | 155              | 1.99              | 3470             | 4 5 0                                                                                             |                                 |                        |                                                                         |                                    |
| 2.8             | 487.50  | 155              | 1.99              | 3480             | 5 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 2.3             | 585.00  | 177              | 1.74              | 3470             | 6 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 2.2             | 625.00  | 181              | 1.70              | 3470             | 6 2 5                                                                                             |                                 |                        |                                                                         |                                    |
| 1.8             | 750.00  | 205              | 1.50              | 3460             | 7 5 0                                                                                             |                                 |                        |                                                                         |                                    |
| 1.7             | 800.00  | 197              | 1.56              | 3460             | 8 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 1.5             | 900.00  | 232              | 1.33              | 3440             | 9 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 1.4             | 1000.00 | 227              | 1.36              | 3450             | 1 0 C                                                                                             |                                 |                        |                                                                         |                                    |
| 1.1             | 1200.00 | 255              | 1.21              | 3430             | 1 2 C                                                                                             |                                 |                        |                                                                         |                                    |
| 1.1             | 1250.00 | 263              | 1.17              | 3430             | 1 2 C                                                                                             |                                 |                        |                                                                         |                                    |
| 159             | 5.25    | 6                | 3.82              | 1436             | A 0 2 8 0 5 . 0 _ M _ _ _ . 1 2 6 A _                                                             | 10.9                            | 63b                    | X 6 1 2 0 1 M 0 1 6 - _ _ _                                             | 38                                 |
| 114             | 7.33    | 8                | 3.43              | 1436             | 7 . 5                                                                                             |                                 |                        |                                                                         |                                    |
| 80              | 10.50   | 11               | 3.10              | 1434             | 1 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 67              | 12.50   | 13               | 2.79              | 1432             | 1 3 .                                                                                             |                                 |                        |                                                                         |                                    |
| 58              | 14.50   | 15               | 2.52              | 1424             | 1 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 42              | 20.00   | 17               | 2.23              | 1422             | 2 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 33              | 25.00   | 21               | 1.99              | 1418             | 2 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 28              | 30.00   | 24               | 1.64              | 1408             | 3 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 21              | 40.00   | 27               | 1.18              | 1406             | 4 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 17              | 50.00   | 32               | 0.80              | 1400             | 5 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 11              | 76.13   | 64               | 2.54              | 2752             | A 0 4 1 0 7 5 . _ N _ _ _ . 1 2 6 A _                                                             | 18.9                            | 63b                    | X 6 1 1 0 1 M 0 2 0 - _ _ _                                             | 38                                 |
| 8.0             | 105.00  | 82               | 1.54              | 2740             | 1 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 6.4             | 131.25  | 93               | 1.91              | 2738             | 1 2 5                                                                                             |                                 |                        |                                                                         |                                    |
| 5.5             | 152.25  | 113              | 1.67              | 2730             | 1 5 0                                                                                             |                                 |                        | X 6 1 1 0 2 M 0 2 0 - _ _ _                                             | 42                                 |
| 4.0             | 210.00  | 141              | 0.95              | 2720             | 2 0 0                                                                                             |                                 |                        | X 6 1 1 0 1 M 0 2 0 - _ _ _                                             | 38                                 |
| 4.0             | 210.25  | 145              | 1.30              | 2720             | 2 2 5                                                                                             |                                 |                        | X 6 1 1 0 2 M 0 2 0 - _ _ _                                             | 42                                 |
| 3.2             | 262.50  | 158              | 1.19              | 2710             | 2 5 0                                                                                             |                                 |                        |                                                                         |                                    |
| 2.9             | 290.00  | 166              | 1.14              | 2710             | 3 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 11              | 78.75   | 68               | 3.52              | 3504             | A 0 5 1 0 7 5 . _ N _ _ _ . 1 2 6 A _                                                             | 22.9                            | 63b                    | X 6 1 1 0 2 M 0 2 5 - _ _ _                                             | 42                                 |
| 8.0             | 105.00  | 81               | 3.52              | 3502             | 1 0 0                                                                                             |                                 |                        | X 6 1 1 0 3 M 0 2 5 - _ _ _                                             | 48                                 |
| 6.4             | 131.25  | 96               | 3.19              | 3500             | 1 2 5                                                                                             |                                 |                        |                                                                         |                                    |
| 5.3             | 157.50  | 121              | 2.28              | 3488             | 1 5 0                                                                                             |                                 |                        | X 6 1 1 0 2 M 0 2 5 - _ _ _                                             | 42                                 |
| 4.0             | 210.00  | 142              | 2.17              | 3483             | 2 0 0                                                                                             |                                 |                        | X 6 1 1 0 3 M 0 2 5 - _ _ _                                             | 48                                 |
| 3.8             | 217.50  | 156              | 1.83              | 3473             | 2 2 5                                                                                             |                                 |                        |                                                                         |                                    |
| 3.2             | 262.50  | 166              | 1.86              | 3473             | 2 5 0                                                                                             |                                 |                        |                                                                         |                                    |
| 2.9             | 292.50  | 180              | 1.57              | 3470             | 3 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 2.3             | 362.50  | 213              | 1.45              | 3450             | 3 5 0                                                                                             |                                 |                        |                                                                         |                                    |
| 2.1             | 390.00  | 208              | 1.48              | 3460             | 4 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 1.9             | 435.00  | 245              | 1.26              | 3440             | 4 5 0                                                                                             |                                 |                        |                                                                         |                                    |
| 1.7             | 487.50  | 243              | 1.27              | 3440             | 5 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 1.4             | 585.00  | 278              | 1.11              | 3430             | 6 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 1.3             | 625.00  | 284              | 1.09              | 3430             | 6 2 5                                                                                             |                                 |                        |                                                                         |                                    |

# SERIES AJ

## SELECTION TABLES

### GEARED MOTORS

**0.18 kW**

4 POLE

6 POLE

**NOTE**  
Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

| N2<br>R/MIN     | i      | M2<br>Nm         | Fm                | N                | UNIT DESIGNATION                                                                                  | Kg                              |                        |                                                                         |                                    |
|-----------------|--------|------------------|-------------------|------------------|---------------------------------------------------------------------------------------------------|---------------------------------|------------------------|-------------------------------------------------------------------------|------------------------------------|
| Output<br>Speed | Ratio  | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> Through <span>20</span><br>Spaces to be filled when entering<br>order | Weight of<br>Base<br>Mount Unit | Motor<br>Frame<br>Size | Cone Ring Output Coupling<br>Spaces to be filled when<br>entering order | Max Bore<br>Coupling<br>Drive Half |
| 259             | 5.25   | 5                | 3.49              | 1442             | A 0 2 8 0 5 . 0 _ M _ - _ - . 1 8 4 A _                                                           | 10.9                            | 63b                    | X 6 1 2 0 1 M 0 1 6 - _ - -                                             | 38                                 |
| 185             | 7.33   | 7                | 3.16              | 1435             | 7 . 5                                                                                             |                                 |                        |                                                                         |                                    |
| 130             | 10.50  | 10               | 2.87              | 1432             | 1 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 109             | 12.50  | 12               | 2.58              | 1430             | 1 3 .                                                                                             |                                 |                        |                                                                         |                                    |
| 94              | 14.50  | 14               | 2.34              | 1430             | 1 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 68              | 20.00  | 16               | 2.05              | 1420             | 2 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 54              | 25.00  | 20               | 1.84              | 1415             | 2 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 45              | 30.00  | 23               | 1.52              | 1413             | 3 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 34              | 40.00  | 26               | 1.18              | 1401             | 4 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 27              | 50.00  | 30               | 0.81              | 1390             | 5 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 18              | 76.13  | 60               | 2.44              | 2750             | A 0 4 1 0 7 5 . _ N _ - _ - . 1 8 4 A _                                                           | 18.9                            | 63b                    | X 6 1 1 0 1 M 0 2 0 - _ - -                                             | 38                                 |
| 13              | 105.00 | 78               | 1.57              | 2745             | 1 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 10              | 131.25 | 88               | 1.85              | 2735             | 1 2 5                                                                                             |                                 |                        |                                                                         |                                    |
| 8.9             | 152.25 | 107              | 1.64              | 2731             | 1 5 0                                                                                             |                                 |                        |                                                                         |                                    |
| 6.5             | 210.00 | 132              | 0.98              | 2710             | 2 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 6.5             | 210.25 | 137              | 1.36              | 2232             | 2 2 5                                                                                             |                                 |                        | X 6 1 1 0 2 M 0 2 0 - _ - -                                             | 42                                 |
| 5.2             | 262.50 | 151              | 1.25              | 2710             | 2 5 0                                                                                             |                                 |                        |                                                                         |                                    |
| 4.7             | 290.00 | 157              | 1.20              | 2710             | 3 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 17              | 78.75  | 64               | 3.22              | 3502             | A 0 5 1 0 7 5 . _ N _ - _ - . 1 8 4 A _                                                           | 22.9                            | 63b                    | X 6 1 1 0 2 M 0 2 5 - _ - -                                             | 42                                 |
| 13              | 105.00 | 77               | 3.22              | 3500             | 1 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 10              | 131.25 | 92               | 3.06              | 3495             | 1 2 5                                                                                             |                                 |                        | X 6 1 1 0 3 M 0 2 5 - _ - -                                             | 48                                 |
| 8.6             | 157.50 | 114              | 2.26              | 3485             | 1 5 0                                                                                             |                                 |                        | X 6 1 1 0 2 M 0 2 5 - _ - -                                             | 42                                 |
| 6.5             | 210.00 | 135              | 2.28              | 3481             | 2 0 0                                                                                             |                                 |                        | X 6 1 1 0 3 M 0 2 5 - _ - -                                             | 48                                 |
| 6.3             | 217.50 | 148              | 1.83              | 3476             | 2 2 5                                                                                             |                                 |                        | X 6 1 1 0 2 M 0 2 5 - _ - -                                             | 42                                 |
| 5.2             | 262.50 | 159              | 1.94              | 3466             | 2 5 0                                                                                             |                                 |                        | X 6 1 1 0 3 M 0 2 5 - _ - -                                             | 48                                 |
| 4.6             | 292.50 | 173              | 1.65              | 3466             | 3 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 3.8             | 362.50 | 203              | 1.52              | 3450             | 3 5 0                                                                                             |                                 |                        |                                                                         |                                    |
| 3.5             | 390.00 | 201              | 1.54              | 3450             | 4 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 3.1             | 435.00 | 233              | 1.32              | 3440             | 4 5 0                                                                                             |                                 |                        |                                                                         |                                    |
| 2.8             | 487.50 | 232              | 1.33              | 3440             | 5 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 2.3             | 585.00 | 265              | 1.16              | 3430             | 6 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 2.2             | 625.00 | 272              | 1.14              | 3420             | 6 2 5                                                                                             |                                 |                        |                                                                         |                                    |
| 160             | 5.25   | 9                | 2.56              | 1428             | A 0 2 8 0 5 . 0 _ M _ - _ - . 1 8 6 A _                                                           | 12.8                            | 71a                    | X 6 1 2 0 1 M 0 1 6 - _ - -                                             | 38                                 |
| 115             | 7.33   | 12               | 2.30              | 1428             | 7 . 5                                                                                             |                                 |                        |                                                                         |                                    |
| 80              | 10.50  | 17               | 2.08              | 1423             | 1 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 67              | 12.50  | 19               | 1.87              | 1417             | 1 3 .                                                                                             |                                 |                        |                                                                         |                                    |
| 58              | 14.50  | 22               | 1.69              | 1413             | 1 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 42              | 20.00  | 26               | 1.49              | 1407             | 2 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 34              | 25.00  | 31               | 1.34              | 1396             | 2 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 28              | 30.00  | 36               | 1.10              | 1386             | 3 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 43              | 19.50  | 30               | 3.36              | 2760             | A 0 4 1 0 2 0 . _ M _ - _ - . 1 8 6 A _                                                           | 15.8                            | 71a                    | X 6 1 1 0 1 M 0 2 0 - _ - -                                             | 38                                 |
| 34              | 25.00  | 34               | 3.33              | 2760             | 2 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 28              | 30.00  | 39               | 2.94              | 2760             | 3 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 21              | 40.00  | 49               | 2.17              | 2760             | 4 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 17              | 50.00  | 57               | 1.41              | 2750             | 5 0 .                                                                                             |                                 |                        | X 6 1 2 0 1 M 0 2 0 - _ - -                                             | 38                                 |
| 14              | 60.00  | 60               | 1.04              | 2750             | 6 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 11              | 76.13  | 96               | 1.71              | 2737             | A 0 4 1 0 7 5 . _ N _ - _ - . 1 8 6 A _                                                           | 20.8                            | 71a                    | X 6 1 1 0 1 M 0 2 0 - _ - -                                             | 38                                 |
| 8.0             | 105.00 | 123              | 1.03              | 2721             | 1 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 6.4             | 131.25 | 139              | 1.28              | 2716             | 1 2 5                                                                                             |                                 |                        |                                                                         |                                    |
| 5.5             | 152.25 | 169              | 1.12              | 2710             | 1 5 0                                                                                             |                                 |                        | X 6 1 1 0 2 M 0 2 0 - _ - -                                             | 42                                 |
| 11              | 78.75  | 102              | 2.36              | 3493             | A 0 5 1 0 7 5 . _ N _ - _ - . 1 8 6 A _                                                           | 24.8                            | 71a                    | X 6 1 1 0 2 M 0 2 5 - _ - -                                             | 42                                 |
| 8.0             | 105.00 | 121              | 2.36              | 3487             | 1 0 0                                                                                             |                                 |                        | X 6 1 1 0 3 M 0 2 5 - _ - -                                             | 48                                 |
| 6.4             | 131.25 | 144              | 2.14              | 3481             | 1 2 5                                                                                             |                                 |                        |                                                                         |                                    |
| 5.3             | 157.50 | 180              | 1.53              | 3466             | 1 5 0                                                                                             |                                 |                        | X 6 1 1 0 2 M 0 2 5 - _ - -                                             | 42                                 |
| 4.0             | 210.00 | 211              | 1.46              | 3450             | 2 0 0                                                                                             |                                 |                        | X 6 1 1 0 3 M 0 2 5 - _ - -                                             | 48                                 |
| 3.9             | 217.50 | 232              | 1.23              | 3440             | 2 2 5                                                                                             |                                 |                        |                                                                         |                                    |
| 3.2             | 262.50 | 248              | 1.24              | 3440             | 2 5 0                                                                                             |                                 |                        |                                                                         |                                    |
| 2.9             | 292.50 | 269              | 1.05              | 3430             | 3 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 8.2             | 102.38 | 126              | 3.85              | 6130             | A 0 6 1 0 1 0 0 _ N _ - _ - . 1 8 6 A _                                                           | 33.8                            | 71a                    | X 6 1 1 0 4 M 0 2 8 - _ - -                                             | 60                                 |
| 6.4             | 131.25 | 149              | 3.36              | 6130             | 1 2 5                                                                                             |                                 |                        |                                                                         |                                    |
| 5.5             | 152.25 | 190              | 2.58              | 6060             | 1 5 0                                                                                             |                                 |                        |                                                                         |                                    |
| 4.1             | 204.75 | 223              | 2.25              | 5920             | 2 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 4.0             | 210.25 | 243              | 2.06              | 5840             | 2 2 5                                                                                             |                                 |                        |                                                                         |                                    |
| 3.2             | 262.50 | 261              | 1.92              | 5750             | 2 5 0                                                                                             |                                 |                        |                                                                         |                                    |
| 3.0             | 282.75 | 313              | 1.60              | 5500             | 3 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 2.3             | 362.50 | 328              | 1.53              | 5450             | 3 5 0                                                                                             |                                 |                        |                                                                         |                                    |
| 2.2             | 380.25 | 361              | 1.39              | 5270             | 4 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 1.9             | 435.00 | 369              | 1.36              | 5250             | 4 5 0                                                                                             |                                 |                        |                                                                         |                                    |
| 1.7             | 487.50 | 420              | 1.19              | 4990             | 5 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 1.3             | 625.00 | 460              | 1.09              | 4810             | 6 2 5                                                                                             |                                 |                        |                                                                         |                                    |
| 7.0             | 120.00 | 164              | 3.67              | 6970             | A 0 7 3 0 1 2 5 _ N _ - _ - . 1 8 6 A _                                                           | 46.8                            | 71a                    | X 6 1 1 0 4 M 0 3 0 - _ - -                                             | 60                                 |
| 5.5             | 152.25 | 200              | 3.01              | 6960             | 1 5 0                                                                                             |                                 |                        |                                                                         |                                    |
| 4.1             | 204.75 | 255              | 2.36              | 6940             | 2 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 4.0             | 210.25 | 255              | 2.36              | 6940             | 2 2 5                                                                                             |                                 |                        |                                                                         |                                    |
| 3.2             | 262.50 | 288              | 2.09              | 6920             | 2 5 0                                                                                             |                                 |                        |                                                                         |                                    |
| 2.9             | 290.00 | 329              | 1.83              | 6910             | 3 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 2.5             | 336.00 | 363              | 1.66              | 6900             | 3 5 0                                                                                             |                                 |                        |                                                                         |                                    |
| 2.3             | 362.50 | 306              | 0.95              | 6910             | 3 7 5                                                                                             |                                 |                        | X 6 1 1 0 3 M 0 3 0 - _ - -                                             | 48                                 |
| 2.2             | 390.00 | 417              | 1.44              | 6870             | 4 0 0                                                                                             |                                 |                        | X 6 1 1 0 4 M 0 3 0 - _ - -                                             | 60                                 |
| 1.9             | 435.00 | 417              | 1.44              | 6870             | 4 5 0                                                                                             |                                 |                        |                                                                         |                                    |
| 1.7             | 500.00 | 466              | 1.29              | 6850             | 5 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 1.4             | 600.00 | 534              | 1.13              | 6820             | 6 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 1.3             | 625.00 | 510              | 1.18              | 6830             | 6 2 5                                                                                             |                                 |                        |                                                                         |                                    |

# SERIES AJ

## SELECTION TABLES

### GEARED MOTORS

**0.25 kW**

4 POLE

| N2<br>R/MIN     | i      | M2<br>Nm         | Fm                | N                | UNIT DESIGNATION                                                                                                                                                                                    | Kg                              |                        |                                                                         |                                    |
|-----------------|--------|------------------|-------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------|-------------------------------------------------------------------------|------------------------------------|
| Output<br>Speed | Ratio  | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span style="border: 1px solid black; padding: 0 2px;">1</span> Through <span style="border: 1px solid black; padding: 0 2px;">20</span><br>Spaces to be filled when entering<br>order | Weight of<br>Base<br>Mount Unit | Motor<br>Frame<br>Size | Cone Ring Output Coupling<br>Spaces to be filled when<br>entering order | Max Bore<br>Coupling<br>Drive Half |
| 261             | 5.25   | 7                | 2.53              | 1434             | A 0 2 8 0 5 . 0 _ M _ - _ _ . 2 5 4 A _                                                                                                                                                             | 12.3                            | 71a                    | X 6 1 2 0 1 M 0 1 6 - _ _ _                                             | 38                                 |
| 187             | 7.33   | 10               | 2.29              | 1429             | 7 . 5                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 130             | 10.50  | 14               | 2.08              | 1424             | 1 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 110             | 12.50  | 16               | 1.87              | 1419             | 1 3 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 94              | 14.50  | 19               | 1.70              | 1419             | 1 5 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 69              | 20.00  | 23               | 1.49              | 1409             | 2 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 55              | 25.00  | 27               | 1.33              | 1398             | 2 5 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 46              | 30.00  | 31               | 1.10              | 1393             | 3 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 34              | 40.00  | 36               | 0.85              | 1380             | 4 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 70              | 19.50  | 26               | 3.37              | 2760             | A 0 4 1 0 2 0 . _ M _ - _ _ . 2 5 4 A _                                                                                                                                                             | 15.3                            | 71a                    | X 6 1 2 0 1 M 0 2 0 - _ _ _<br>X 6 1 1 0 1 M 0 2 0 - _ _ _              | 38<br>38                           |
| 55              | 25.00  | 30               | 3.32              | 2760             | 2 5 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 46              | 30.00  | 34               | 2.93              | 2760             | 3 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 34              | 40.00  | 42               | 2.18              | 2760             | 4 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 27              | 50.00  | 50               | 1.54              | 2750             | 5 0 .                                                                                                                                                                                               |                                 |                        | X 6 1 2 0 1 M 0 2 0 - _ _ _                                             | 38                                 |
| 23              | 60.00  | 53               | 1.13              | 2750             | 6 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 20              | 70.00  | 58               | 0.84              | 2750             | 7 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 18              | 76.13  | 84               | 1.77              | 2739             | A 0 4 1 0 7 5 . _ N _ - _ _ . 2 5 4 A _                                                                                                                                                             | 20.3                            | 71a                    | X 6 1 1 0 1 M 0 2 0 - _ _ _                                             | 38                                 |
| 13              | 105.00 | 108              | 1.14              | 2728             | 1 0 0                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 10              | 131.25 | 121              | 1.34              | 2718             | 1 2 5                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 9.0             | 152.25 | 147              | 1.19              | 2710             | 1 5 0                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 6.5             | 210.25 | 189              | 0.99              | 1640             | 2 2 5                                                                                                                                                                                               |                                 |                        | X 6 1 1 0 2 M 0 2 0 - _ _ _                                             | 42                                 |
| 17              | 78.75  | 89               | 2.34              | 3494             | A 0 5 1 0 7 5 . _ N _ - _ _ . 2 5 4 A _                                                                                                                                                             | 24.3                            | 71a X 6                | 1 1 0 2 M 0 2 5 - _ _ _ 42                                              |                                    |
| 13              | 105.00 | 107              | 2.34              | 3489             | 1 0 0                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 10              | 131.25 | 126              | 2.22              | 3478             | 1 2 5                                                                                                                                                                                               |                                 |                        | X 6 1 1 0 3 M 0 2 5 - _ _ _                                             | 48                                 |
| 8.7             | 157.50 | 157              | 1.64              | 3468             | 1 5 0                                                                                                                                                                                               |                                 |                        | X 6 1 1 0 2 M 0 2 5 - _ _ _                                             | 42                                 |
| 6.5             | 210.00 | 187              | 1.65              | 3460             | 2 0 0                                                                                                                                                                                               |                                 |                        | X 6 1 1 0 3 M 0 2 5 - _ _ _                                             | 48                                 |
| 6.3             | 217.50 | 204              | 1.33              | 3450             | 2 2 5                                                                                                                                                                                               |                                 |                        | X 6 1 1 0 2 M 0 2 5 - _ _ _                                             | 42                                 |
| 5.2             | 262.50 | 219              | 1.41              | 3440             | 2 5 0                                                                                                                                                                                               |                                 |                        | X 6 1 1 0 3 M 0 2 5 - _ _ _                                             | 48                                 |
| 4.7             | 292.50 | 238              | 1.20              | 3440             | 3 0 0                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 10              | 131.25 | 131              | 3.53              | 6130             | A 0 6 1 0 1 2 5 _ N _ - _ _ . 2 5 4 A _                                                                                                                                                             | 33.3                            | 71a                    | X 6 1 1 0 3 M 0 2 8 - _ _ _                                             | 48                                 |
| 9.0             | 152.25 | 165              | 2.73              | 6130             | 1 5 0                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 6.7             | 204.75 | 196              | 2.55              | 6000             | 2 0 0                                                                                                                                                                                               |                                 |                        | X 6 1 1 0 4 M 0 2 8 - _ _ _                                             | 60                                 |
| 6.5             | 210.25 | 211              | 2.28              | 5920             | 2 2 5                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 5.2             | 262.50 | 229              | 2.18              | 5840             | 2 5 0                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 4.8             | 282.75 | 274              | 1.83              | 5600             | 3 0 0                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 3.8             | 362.50 | 288              | 1.73              | 5550             | 3 5 0                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 3.6             | 380.25 | 317              | 1.58              | 5380             | 4 0 0                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 3.1             | 435.00 | 324              | 1.55              | 5370             | 4 5 0                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 2.8             | 487.50 | 369              | 1.36              | 5120             | 5 0 0                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 2.3             | 585.00 | 412              | 1.21              | 4880             | 6 0 0                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 2.2             | 625.00 | 404              | 1.24              | 4950             | 6 2 5                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 1.9             | 723.33 | 413              | 0.85              | 4730             | 7 0 0                                                                                                                                                                                               |                                 |                        | X 6 1 1 0 3 M 0 2 8 - _ _ _                                             | 48                                 |
| 9.0             | 152.25 | 175              | 3.44              | 6970             | A 0 7 3 0 1 5 0 _ N _ - _ _ . 2 5 4 A _                                                                                                                                                             | 46.3                            | 71a                    | X 6 1 1 0 4 M 0 3 0 - _ _ _                                             | 60                                 |
| 6.7             | 204.75 | 223              | 2.70              | 6950             | 2 0 0                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 6.5             | 210.25 | 224              | 2.69              | 6950             | 2 2 5                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 5.2             | 262.50 | 254              | 2.37              | 6940             | 2 5 0                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 4.7             | 290.00 | 289              | 2.09              | 6920             | 3 0 0                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 4.1             | 336.00 | 320              | 1.88              | 6900             | 3 5 0                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 3.8             | 362.50 | 267              | 1.06              | 6920             | 3 7 5                                                                                                                                                                                               |                                 |                        | X 6 1 1 0 3 M 0 3 0 - _ _ _                                             | 48                                 |
| 3.5             | 390.00 | 365              | 1.65              | 6890             | 4 0 0                                                                                                                                                                                               |                                 |                        | X 6 1 1 0 4 M 0 3 0 - _ _ _                                             | 60                                 |
| 3.1             | 435.00 | 367              | 1.64              | 6890             | 4 5 0                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 2.7             | 500.00 | 410              | 1.47              | 6860             | 5 0 0                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 2.3             | 600.00 | 469              | 1.28              | 6830             | 6 0 0                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 2.2             | 625.00 | 449              | 1.34              | 6840             | 6 2 5                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 2.0             | 676.67 | 459              | 0.84              | 6820             | 7 0 0                                                                                                                                                                                               |                                 |                        | X 6 1 1 0 3 M 0 3 0 - _ _ _                                             | 48                                 |
| 1.8             | 750.00 | 511              | 1.18              | 6810             | 7 5 0                                                                                                                                                                                               |                                 |                        | X 6 1 1 0 4 M 0 3 0 - _ _ _                                             | 60                                 |

#### NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

# SERIES AJ

## SELECTION TABLES

### GEARED MOTORS

**0.25 kW**

6 POLE

| N2<br>R/MIN     | i      | M2<br>Nm         | Fm                | N                | UNIT DESIGNATION                                                                                  | Kg                              |                        |                                                                         |                                    |
|-----------------|--------|------------------|-------------------|------------------|---------------------------------------------------------------------------------------------------|---------------------------------|------------------------|-------------------------------------------------------------------------|------------------------------------|
| Output<br>Speed | Ratio  | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> Through <span>20</span><br>Spaces to be filled when entering<br>order | Weight of<br>Base<br>Mount Unit | Motor<br>Frame<br>Size | Cone Ring Output Coupling<br>Spaces to be filled when<br>entering order | Max Bore<br>Coupling<br>Drive Half |
| 161             | 5.25   | 12               | 1.86              | 1420             | A 0 2 8 0 5 . 0 _ M _ - _ - . 2 5 6 A _                                                           | 13.3                            | 71b                    | X 6 1 2 0 1 M 0 1 6 - _ - -                                             | 38                                 |
| 115             | 7.33   | 17               | 1.67              | 1420             | 7 . 5                                                                                             |                                 |                        |                                                                         |                                    |
| 80              | 10.50  | 23               | 1.50              | 1410             | 1 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 68              | 12.50  | 26               | 1.36              | 1400             | 1 3 .                                                                                             |                                 |                        |                                                                         |                                    |
| 58              | 14.50  | 30               | 1.23              | 1400             | 1 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 42              | 20.00  | 36               | 1.08              | 1390             | 2 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 34              | 25.00  | 43               | 0.97              | 1370             | 2 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 115             | 7.33   | 17               | 3.70              | 2768             | A 0 4 1 0 7 . 5 _ M _ - _ - . 2 5 6 A _                                                           | 16.3                            | 71b                    | X 6 1 2 0 1 M 0 2 0 - _ - -                                             | 38                                 |
| 80              | 10.50  | 24               | 3.63              | 2766             | 1 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 68              | 12.50  | 28               | 3.34              | 2766             | 1 3 .                                                                                             |                                 |                        | X 6 1 1 0 1 M 0 2 0 - _ - -                                             | 38                                 |
| 58              | 14.50  | 31               | 3.21              | 2766             | 1 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 43              | 19.50  | 41               | 2.43              | 2756             | 2 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 34              | 25.00  | 48               | 2.42              | 2754             | 2 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 28              | 30.00  | 55               | 2.13              | 2754             | 3 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 21              | 40.00  | 67               | 1.57              | 2750             | 4 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 17              | 50.00  | 79               | 1.02              | 2742             | 5 0 .                                                                                             |                                 |                        | X 6 1 2 0 1 M 0 2 0 - _ - -                                             | 38                                 |
| 11              | 76.13  | 133              | 1.24              | 2720             | A 0 4 1 0 7 5 . _ N _ - _ - . 2 5 6 A _                                                           | 21.3                            | 71b                    | X 6 1 1 0 1 M 0 2 0 - _ - -                                             | 38                                 |
| 6.4             | 131.25 | 192              | 0.93              | 2690             | 1 2 5                                                                                             |                                 |                        | X 6 1 1 0 2 M 0 2 0 - _ - -                                             | 42                                 |
| 11              | 78.75  | 141              | 1.71              | 3480             | A 0 5 1 0 7 5 . _ N _ - _ - . 2 5 6 A _                                                           | 25.3                            | 71b                    | X 6 1 1 0 2 M 0 2 5 - _ - -                                             | 42                                 |
| 8.0             | 105.00 | 168              | 1.71              | 3470             | 1 0 0                                                                                             |                                 |                        | X 6 1 1 0 3 M 0 2 5 - _ - -                                             | 48                                 |
| 6.4             | 131.25 | 199              | 1.55              | 3460             | 1 2 5                                                                                             |                                 |                        |                                                                         |                                    |
| 5.4             | 157.50 | 249              | 1.11              | 3440             | 1 5 0                                                                                             |                                 |                        | X 6 1 1 0 2 M 0 2 5 - _ - -                                             | 42                                 |
| 11              | 76.13  | 146              | 2.91              | 5988             | A 0 6 1 0 7 5 . _ N _ - _ - . 2 5 6 A _                                                           | 34.3                            | 71b                    | X 6 1 1 0 3 M 0 2 8 - _ - -                                             | 48                                 |
| 8.3             | 102.38 | 174              | 2.78              | 5933             | 1 0 0                                                                                             |                                 |                        | X 6 1 1 0 4 M 0 2 8 - _ - -                                             | 60                                 |
| 6.4             | 131.25 | 205              | 2.43              | 5870             | 1 2 5                                                                                             |                                 |                        |                                                                         |                                    |
| 5.6             | 152.25 | 263              | 1.87              | 5698             | 1 5 0                                                                                             |                                 |                        |                                                                         |                                    |
| 4.1             | 204.75 | 307              | 1.63              | 5492             | 2 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 4.0             | 210.25 | 335              | 1.49              | 5370             | 2 2 5                                                                                             |                                 |                        |                                                                         |                                    |
| 3.2             | 262.50 | 361              | 1.39              | 5250             | 2 5 0                                                                                             |                                 |                        |                                                                         |                                    |
| 3.0             | 282.75 | 432              | 1.16              | 4890             | 3 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 2.3             | 362.50 | 453              | 1.11              | 4790             | 3 5 0                                                                                             |                                 |                        |                                                                         |                                    |
| 12              | 69.60  | 154              | 3.66              | 6981             | A 0 7 3 0 7 5 . _ N _ - _ - . 2 5 6 A _                                                           | 47.3                            | 71b                    | X 6 1 1 0 4 M 0 3 0 - _ - -                                             | 60                                 |
| 9.0             | 93.60  | 197              | 3.05              | 6955             | 1 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 7.0             | 120.00 | 227              | 2.65              | 6941             | 1 2 5                                                                                             |                                 |                        |                                                                         |                                    |
| 5.6             | 152.25 | 276              | 2.18              | 6926             | 1 5 0                                                                                             |                                 |                        |                                                                         |                                    |
| 4.1             | 204.75 | 352              | 1.71              | 6895             | 2 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 4.0             | 210.25 | 353              | 1.71              | 6895             | 2 2 5                                                                                             |                                 |                        |                                                                         |                                    |
| 3.2             | 262.50 | 398              | 1.51              | 6870             | 2 5 0                                                                                             |                                 |                        |                                                                         |                                    |
| 2.9             | 290.00 | 455              | 1.32              | 6850             | 3 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 2.5             | 336.00 | 502              | 1.20              | 6820             | 3 5 0                                                                                             |                                 |                        |                                                                         |                                    |

#### NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

# SERIES AJ

## SELECTION TABLES

### GEARED MOTORS

**0.37 kW**

4 POLE

6 POLE

#### NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

| N2<br>R/MIN     | i      | M2<br>Nm         | Fm                | N                | UNIT DESIGNATION                                                                                  | Kg                              |                        |                                                                         |                                    |
|-----------------|--------|------------------|-------------------|------------------|---------------------------------------------------------------------------------------------------|---------------------------------|------------------------|-------------------------------------------------------------------------|------------------------------------|
| Output<br>Speed | Ratio  | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> Through <span>20</span><br>Spaces to be filled when entering<br>order | Weight of<br>Base<br>Mount Unit | Motor<br>Frame<br>Size | Cone Ring Output Coupling<br>Spaces to be filled when<br>entering order | Max Bore<br>Coupling<br>Drive Half |
| 263             | 5.25   | 11               | 1.72              | 1420             | A 0 2 8 0 5 . 0 _ M _ - _ _ . 3 7 4 A _                                                           | 13.0                            | 71b                    | X 6 1 2 0 1 M 0 1 6 - _ _ _                                             | 38                                 |
| 188             | 7.33   | 15               | 1.56              | 1420             | 7 . 5                                                                                             |                                 |                        |                                                                         |                                    |
| 131             | 10.50  | 21               | 1.41              | 1410             | 1 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 110             | 12.50  | 24               | 1.28              | 1400             | 1 3 .                                                                                             |                                 |                        |                                                                         |                                    |
| 95              | 14.50  | 28               | 1.16              | 1400             | 1 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 69              | 20.00  | 34               | 1.01              | 1390             | 2 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 55              | 25.00  | 40               | 0.91              | 1370             | 2 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 263             | 5.25   | 11               | 3.91              | 2767             | A 0 4 1 0 5 . 0 _ M _ - _ _ . 3 7 4 A _                                                           | 16.0                            | 71b                    | X 6 1 2 0 1 M 0 2 0 - _ _ _                                             | 38                                 |
| 188             | 7.33   | 16               | 3.45              | 2767             | 7 . 5                                                                                             |                                 |                        |                                                                         |                                    |
| 131             | 10.50  | 22               | 3.40              | 2767             | 1 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 110             | 12.50  | 25               | 3.14              | 2765             | 1 3 .                                                                                             |                                 |                        |                                                                         |                                    |
| 95              | 14.50  | 29               | 3.01              | 2765             | 1 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 71              | 19.50  | 38               | 2.30              | 2755             | 2 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 55              | 25.00  | 44               | 2.26              | 2755             | 2 5 .                                                                                             |                                 |                        | X 6 1 1 0 1 M 0 2 0 - _ _ _                                             | 38                                 |
| 46              | 30.00  | 51               | 1.99              | 2752             | 3 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 35              | 40.00  | 63               | 1.48              | 2748             | 4 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 28              | 50.00  | 73               | 1.05              | 2742             | 5 0 .                                                                                             |                                 |                        | X 6 1 2 0 1 M 0 2 0 - _ _ _                                             | 38                                 |
| 18              | 76.13  | 123              | 1.21              | 2720             | A 0 4 1 0 7 5 . _ N _ - _ _ . 3 7 4 A _                                                           | 21.0                            | 71b                    | X 6 1 1 0 1 M 0 2 0 - _ _ _                                             | 38                                 |
| 11              | 131.25 | 178              | 0.91              | 2690             | 1 2 5                                                                                             |                                 |                        |                                                                         |                                    |
| 18              | 78.75  | 130              | 1.59              | 3480             | A 0 5 1 0 7 5 . _ N _ - _ _ . 3 7 4 A _                                                           | 25.0                            | 71b                    | X 6 1 1 0 2 M 0 2 5 - _ _ _                                             | 42                                 |
| 13              | 105.00 | 157              | 1.59              | 3470             | 1 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 11              | 131.25 | 186              | 1.51              | 3450             | 1 2 5                                                                                             |                                 |                        | X 6 1 1 0 3 M 0 2 5 - _ _ _                                             | 48                                 |
| 8.8             | 157.50 | 232              | 1.12              | 3440             | 1 5 0                                                                                             |                                 |                        | X 6 1 1 0 2 M 0 2 5 - _ _ _                                             | 42                                 |
| 18              | 76.13  | 135              | 2.83              | 5976             | A 0 6 1 0 7 5 . _ N _ - _ _ . 3 7 4 A _                                                           | 34.0                            | 71b                    | X 6 1 1 0 3 M 0 2 8 - _ _ _                                             | 48                                 |
| 13              | 102.38 | 162              | 2.75              | 5911             | 1 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 11              | 131.25 | 192              | 2.41              | 5837             | 1 2 5                                                                                             |                                 |                        |                                                                         |                                    |
| 9.1             | 152.25 | 243              | 1.86              | 5702             | 1 5 0                                                                                             |                                 |                        |                                                                         |                                    |
| 6.7             | 204.75 | 288              | 1.74              | 5490             | 2 0 0                                                                                             |                                 |                        | X 6 1 1 0 4 M 0 2 8 - _ _ _                                             | 60                                 |
| 6.6             | 210.25 | 311              | 1.55              | 5370             | 2 2 5                                                                                             |                                 |                        |                                                                         |                                    |
| 5.3             | 262.50 | 337              | 1.48              | 5240             | 2 5 0                                                                                             |                                 |                        |                                                                         |                                    |
| 4.9             | 282.75 | 403              | 1.24              | 4880             | 3 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 3.8             | 362.50 | 424              | 1.18              | 4780             | 3 5 0                                                                                             |                                 |                        |                                                                         |                                    |
| 20              | 69.60  | 142              | 3.40              | 6978             | A 0 7 3 0 7 5 . _ N _ - _ _ . 3 7 4 A _                                                           | 47.0                            | 71b                    | X 6 1 1 0 4 M 0 3 0 - _ _ _                                             | 60                                 |
| 15              | 93.60  | 183              | 3.16              | 6953             | 1 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 11              | 120.00 | 213              | 2.83              | 6946             | 1 2 5                                                                                             |                                 |                        |                                                                         |                                    |
| 9.1             | 152.25 | 257              | 2.34              | 6926             | 1 5 0                                                                                             |                                 |                        |                                                                         |                                    |
| 6.7             | 204.75 | 328              | 1.84              | 6894             | 2 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 6.6             | 210.25 | 329              | 1.83              | 6894             | 2 2 5                                                                                             |                                 |                        |                                                                         |                                    |
| 5.3             | 262.50 | 373              | 1.61              | 6870             | 2 5 0                                                                                             |                                 |                        |                                                                         |                                    |
| 4.8             | 290.00 | 424              | 1.42              | 6850             | 3 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 4.1             | 336.00 | 470              | 1.28              | 6820             | 3 5 0                                                                                             |                                 |                        |                                                                         |                                    |
| 176             | 5.25   | 17               | 3.12              | 2764             | A 0 4 1 0 5 . 0 _ M _ - _ _ . 3 7 6 A _                                                           | 19.8                            | 80a                    | X 6 1 2 0 1 M 0 2 0 - _ _ _                                             | 38                                 |
| 126             | 7.33   | 23               | 2.73              | 2764             | 7 . 5                                                                                             |                                 |                        |                                                                         |                                    |
| 88              | 10.50  | 32               | 2.68              | 2759             | 1 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 74              | 12.50  | 38               | 2.47              | 2759             | 1 3 .                                                                                             |                                 |                        | X 6 1 1 0 1 M 0 2 0 - _ _ _                                             | 38                                 |
| 64              | 14.50  | 42               | 2.37              | 2759             | 1 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 47              | 19.50  | 56               | 1.80              | 2749             | 2 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 37              | 25.00  | 64               | 1.79              | 2744             | 2 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 31              | 30.00  | 74               | 1.57              | 2744             | 3 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 23              | 40.00  | 91               | 1.16              | 2734             | 4 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 64              | 14.50  | 45               | 3.33              | 3510             | A 0 5 1 0 1 5 . _ M _ - _ _ . 3 7 6 A _                                                           | 23.8                            | 80a                    | X 6 1 1 0 1 M 0 2 5 - _ _ _                                             | 38                                 |
| 46              | 20.00  | 55               | 3.54              | 3510             | 2 0 .                                                                                             |                                 |                        | X 6 1 1 0 2 M 0 2 5 - _ _ _                                             | 42                                 |
| 37              | 25.00  | 66               | 2.97              | 3500             | 2 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 31              | 30.00  | 77               | 2.45              | 3500             | 3 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 23              | 40.00  | 97               | 1.82              | 3490             | 4 0 .                                                                                             |                                 |                        | X 6 1 1 0 1 M 0 2 5 - _ _ _                                             | 38                                 |
| 19              | 50.00  | 112              | 1.32              | 3480             | 5 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 15              | 60.00  | 126              | 0.91              | 3480             | 6 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 31              | 30.00  | 79               | 3.78              | 6130             | A 0 6 1 0 3 0 . _ M _ - _ _ . 3 7 6 A _                                                           | 29.8                            | 80a                    | X 6 1 1 0 3 M 0 2 8 - _ _ _                                             | 48                                 |
| 23              | 40.00  | 99               | 2.79              | 6130             | 4 0 .                                                                                             |                                 |                        | X 6 1 1 0 2 M 0 2 8 - _ _ _                                             | 42                                 |
| 19              | 50.00  | 115              | 2.13              | 6130             | 5 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 15              | 60.00  | 130              | 1.45              | 6130             | 6 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 13              | 70.00  | 140              | 1.09              | 6110             | 7 0 .                                                                                             |                                 |                        | X 6 1 1 0 1 M 0 2 8 - _ _ _                                             | 38                                 |
| 12              | 76.13  | 197              | 2.15              | 5744             | A 0 6 1 0 7 5 . _ N _ - _ _ . 3 7 6 A _                                                           | 37.8                            | 80a                    | X 6 1 1 0 3 M 0 2 8 - _ _ _                                             | 48                                 |
| 9.0             | 102.38 | 235              | 2.06              | 5595             | 1 0 0                                                                                             |                                 |                        | X 6 1 1 0 4 M 0 2 8 - _ _ _                                             | 60                                 |
| 7.0             | 131.25 | 278              | 1.80              | 5426             | 1 2 5                                                                                             |                                 |                        |                                                                         |                                    |
| 6.1             | 152.25 | 355              | 1.38              | 5080             | 1 5 0                                                                                             |                                 |                        |                                                                         |                                    |
| 4.5             | 204.75 | 416              | 1.20              | 4760             | 2 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 23              | 40.00  | 111              | 3.96              | 6980             | A 0 7 3 0 4 0 . _ M _ - _ _ . 3 7 6 A _                                                           | 42.8                            | 80a                    | X 6 1 1 0 3 M 0 3 0 - _ _ _                                             | 48                                 |
| 19              | 50.00  | 133              | 3.10              | 6980             | 5 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 15              | 60.00  | 149              | 2.20              | 6970             | 6 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 13              | 70.00  | 162              | 1.59              | 6960             | 7 0 .                                                                                             |                                 |                        | X 6 1 1 0 2 M 0 3 0 - _ _ _                                             | 42                                 |
| 13              | 69.60  | 208              | 2.71              | 6948             | A 0 7 3 0 7 5 . _ N _ - _ _ . 3 7 6 A _                                                           | 50.8                            | 80a                    | X 6 1 1 0 4 M 0 3 0 - _ _ _                                             | 60                                 |
| 10              | 93.60  | 267              | 2.26              | 6913             | 1 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 7.7             | 120.00 | 307              | 1.96              | 6892             | 1 2 5                                                                                             |                                 |                        |                                                                         |                                    |
| 6.1             | 152.25 | 373              | 1.61              | 6870             | 1 5 0                                                                                             |                                 |                        |                                                                         |                                    |
| 4.5             | 204.75 | 476              | 1.27              | 6820             | 2 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 4.4             | 210.25 | 477              | 1.26              | 6820             | 2 2 5                                                                                             |                                 |                        |                                                                         |                                    |

# SERIES AJ

## SELECTION TABLES

### GEARED MOTORS

**0.55 kW**

**4 POLE**

**6 POLE**

**NOTE**  
Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

| N2<br>R/MIN     | i      | M2<br>Nm         | Fm                | N                | UNIT DESIGNATION                                                                                  | Kg                              |                        |                                                                         |                                    |
|-----------------|--------|------------------|-------------------|------------------|---------------------------------------------------------------------------------------------------|---------------------------------|------------------------|-------------------------------------------------------------------------|------------------------------------|
| Output<br>Speed | Ratio  | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> Through <span>20</span><br>Spaces to be filled when entering<br>order | Weight of<br>Base<br>Mount Unit | Motor<br>Frame<br>Size | Cone Ring Output Coupling<br>Spaces to be filled when<br>entering order | Max Bore<br>Coupling<br>Drive Half |
| 261             | 5.25   | 17               | 2.61              | 2764             | A 0 4 1 0 5 . 0 _ M _ - _ _ . 5 5 4 A _                                                           | 19.4                            | 80a                    | X 6 1 2 0 1 M 0 2 0 - _ _ _                                             | 38                                 |
| 187             | 7.33   | 24               | 2.30              | 2764             | 7 . 5                                                                                             |                                 |                        |                                                                         |                                    |
| 130             | 10.50  | 33               | 2.27              | 2764             | 1 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 110             | 12.50  | 38               | 2.10              | 2758             | 1 3 .                                                                                             |                                 |                        |                                                                         |                                    |
| 94              | 14.50  | 44               | 2.01              | 2758             | 1 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 70              | 19.50  | 57               | 1.53              | 2748             | 2 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 55              | 25.00  | 66               | 1.51              | 2748             | 2 5 .                                                                                             |                                 |                        | X 6 1 1 0 1 M 0 2 0 - _ _ _                                             | 38                                 |
| 46              | 30.00  | 76               | 1.33              | 2742             | 3 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 34              | 40.00  | 94               | 0.99              | 2730             | 4 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 187             | 7.33   | 24               | 3.95              | 3520             | A 0 5 1 0 7 . 5 _ M _ - _ _ . 5 5 4 A _                                                           | 23.4                            | 80a                    | X 6 1 1 0 1 M 0 2 5 - _ _ _                                             | 38                                 |
| 130             | 10.50  | 34               | 3.97              | 3510             | 1 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 110             | 12.50  | 39               | 3.50              | 3510             | 1 3 .                                                                                             |                                 |                        |                                                                         |                                    |
| 94              | 14.50  | 45               | 3.13              | 3510             | 1 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 69              | 20.00  | 57               | 2.99              | 3510             | 2 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 55              | 25.00  | 69               | 2.49              | 3500             | 2 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 46              | 30.00  | 80               | 2.06              | 3500             | 3 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 34              | 40.00  | 101              | 1.56              | 3490             | 4 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 27              | 50.00  | 116              | 1.21              | 3480             | 5 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 23              | 60.00  | 131              | 0.84              | 3480             | 6 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 55              | 25.00  | 71               | 3.92              | 6130             | A 0 6 1 0 2 5 . _ M _ - _ _ . 5 5 4 A _                                                           | 29.4                            | 80a                    | X 6 1 1 0 3 M 0 2 8 - _ _ _                                             | 48                                 |
| 46              | 30.00  | 81               | 3.18              | 6130             | 3 0 .                                                                                             |                                 |                        | X 6 1 1 0 2 M 0 2 8 - _ _ _                                             | 42                                 |
| 34              | 40.00  | 102              | 2.35              | 6130             | 4 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 27              | 50.00  | 120              | 1.84              | 6130             | 5 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 23              | 60.00  | 136              | 1.33              | 6130             | 6 0 .                                                                                             |                                 |                        | X 6 1 1 0 1 M 0 2 8 - _ _ _                                             | 38                                 |
| 20              | 70.00  | 146              | 1.00              | 6090             | 7 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 18              | 76.13  | 203              | 1.89              | 5746             | A 0 6 1 0 7 5 . _ N _ - _ _ . 5 5 4 A _                                                           | 37.4                            | 80a                    | X 6 1 1 0 3 M 0 2 8 - _ _ _                                             | 48                                 |
| 13              | 102.38 | 243              | 1.84              | 5584             | 1 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 10              | 131.25 | 288              | 1.61              | 5398             | 1 2 5                                                                                             |                                 |                        |                                                                         |                                    |
| 9.0             | 152.25 | 364              | 1.24              | 5060             | 1 5 0                                                                                             |                                 |                        |                                                                         |                                    |
| 34              | 40.00  | 114              | 3.37              | 6980             | A 0 7 3 0 4 0 . _ M _ - _ _ . 5 5 4 A _                                                           | 42.4                            | 80a                    | X 6 1 1 0 3 M 0 3 0 - _ _ _                                             | 48                                 |
| 27              | 50.00  | 136              | 2.65              | 6980             | 5 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 23              | 60.00  | 154              | 2.03              | 6970             | 6 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 20              | 70.00  | 167              | 1.47              | 6960             | 7 0 .                                                                                             |                                 |                        | X 6 1 1 0 2 M 0 3 0 - _ _ _                                             | 42                                 |
| 20              | 69.60  | 213              | 2.27              | 6946             | A 0 7 3 0 7 5 . _ N _ - _ _ . 5 5 4 A _                                                           | 50.4                            | 80a                    | X 6 1 1 0 4 M 0 3 0 - _ _ _                                             | 60                                 |
| 15              | 93.60  | 275              | 2.11              | 6914             | 1 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 11              | 120.00 | 319              | 1.89              | 6896             | 1 2 5                                                                                             |                                 |                        |                                                                         |                                    |
| 9.0             | 152.25 | 385              | 1.56              | 6860             | 1 5 0                                                                                             |                                 |                        |                                                                         |                                    |
| 6.7             | 204.75 | 491              | 1.23              | 6810             | 2 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 6.5             | 210.25 | 493              | 1.22              | 6810             | 2 2 5                                                                                             |                                 |                        |                                                                         |                                    |
| 176             | 5.25   | 26               | 2.10              | 2760             | A 0 4 1 0 5 . 0 _ M _ - _ _ . 5 5 6 A _                                                           | 21.3                            | 80b                    | X 6 1 2 0 1 M 0 2 0 - _ _ _                                             | 38                                 |
| 126             | 7.33   | 35               | 1.84              | 2760             | 7 . 5                                                                                             |                                 |                        |                                                                         |                                    |
| 88              | 10.50  | 49               | 1.80              | 2750             | 1 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 74              | 12.50  | 56               | 1.66              | 2750             | 1 3 .                                                                                             |                                 |                        | X 6 1 1 0 1 M 0 2 0 - _ _ _                                             | 38                                 |
| 64              | 14.50  | 63               | 1.60              | 2750             | 1 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 47              | 19.50  | 84               | 1.21              | 2740             | 2 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 37              | 25.00  | 96               | 1.20              | 2730             | 2 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 31              | 30.00  | 110              | 1.06              | 2730             | 3 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 126             | 7.33   | 36               | 3.17              | 3515             | A 0 5 1 0 7 . 5 _ M _ - _ _ . 5 5 6 A _                                                           | 25.3                            | 80b                    | X 6 1 1 0 1 M 0 2 5 - _ _ _                                             | 38                                 |
| 88              | 10.50  | 49               | 3.17              | 3505             | 1 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 74              | 12.50  | 58               | 2.79              | 3502             | 1 3 .                                                                                             |                                 |                        |                                                                         |                                    |
| 64              | 14.50  | 66               | 2.24              | 3500             | 1 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 46              | 20.00  | 83               | 2.38              | 3497             | 2 0 .                                                                                             |                                 |                        | X 6 1 1 0 2 M 0 2 5 - _ _ _                                             | 42                                 |
| 37              | 25.00  | 99               | 2.00              | 3487             | 2 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 31              | 30.00  | 115              | 1.65              | 3482             | 3 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 23              | 40.00  | 145              | 1.22              | 3471             | 4 0 .                                                                                             |                                 |                        | X 6 1 1 0 1 M 0 2 5 - _ _ _                                             | 38                                 |
| 19              | 50.00  | 166              | 0.89              | 3460             | 5 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 62              | 15.00  | 69               | 3.75              | 6047             | A 0 6 1 0 1 5 . _ M _ - _ _ . 5 5 6 A _                                                           | 31.3                            | 80b                    | X 6 1 1 0 2 M 0 2 8 - _ _ _                                             | 42                                 |
| 46              | 20.00  | 85               | 3.50              | 6014             | 2 0 .                                                                                             |                                 |                        | X 6 1 1 0 3 M 0 2 8 - _ _ _                                             | 48                                 |
| 37              | 25.00  | 102              | 3.15              | 5980             | 2 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 31              | 30.00  | 118              | 2.54              | 5967             | 3 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 23              | 40.00  | 147              | 1.87              | 5920             | 4 0 .                                                                                             |                                 |                        | X 6 1 1 0 2 M 0 2 8 - _ _ _                                             | 42                                 |
| 19              | 50.00  | 172              | 1.43              | 5883             | 5 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 15              | 60.00  | 194              | 0.97              | 5793             | 6 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 12              | 76.13  | 293              | 1.45              | 5380             | A 0 6 1 0 7 5 . _ N _ - _ _ . 5 5 6 A _                                                           | 39.3                            | 80b                    | X 6 1 1 0 3 M 0 2 8 - _ _ _                                             | 48                                 |
| 9.0             | 102.38 | 349              | 1.39              | 5090             | 1 0 0                                                                                             |                                 |                        | X 6 1 1 0 4 M 0 2 8 - _ _ _                                             | 60                                 |
| 7.0             | 131.25 | 413              | 1.21              | 4760             | 1 2 5                                                                                             |                                 |                        |                                                                         |                                    |
| 31              | 30.00  | 130              | 3.68              | 6979             | A 0 7 3 0 3 0 . _ M _ - _ _ . 5 5 6 A _                                                           | 44.3                            | 80b                    | X 6 1 1 0 4 M 0 3 0 - _ _ _                                             | 60                                 |
| 23              | 40.00  | 165              | 2.66              | 6954             | 4 0 .                                                                                             |                                 |                        | X 6 1 1 0 3 M 0 3 0 - _ _ _                                             | 48                                 |
| 19              | 50.00  | 198              | 2.08              | 6947             | 5 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 15              | 60.00  | 222              | 1.48              | 6936             | 6 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 13              | 70.00  | 241              | 1.07              | 6922             | 7 0 .                                                                                             |                                 |                        | X 6 1 1 0 2 M 0 3 0 - _ _ _                                             | 42                                 |
| 13              | 69.60  | 309              | 1.82              | 6900             | A 0 7 3 0 7 5 . _ N _ - _ _ . 5 5 6 A _                                                           | 52.3                            | 80b                    | X 6 1 1 0 4 M 0 3 0 - _ _ _                                             | 60                                 |
| 10              | 93.60  | 396              | 1.52              | 6850             | 1 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 7.7             | 120.00 | 456              | 1.32              | 6820             | 1 2 5                                                                                             |                                 |                        |                                                                         |                                    |

# SERIES AJ

## SELECTION TABLES

### GEARED MOTORS

**0.75 kW**

**4 POLE**

**6 POLE**

**NOTE**

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

| N2<br>R/MIN     | i      | M2<br>Nm         | Fm                | N                | UNIT DESIGNATION                                                                                  | Kg                              |                        |                                                                         |                                    |
|-----------------|--------|------------------|-------------------|------------------|---------------------------------------------------------------------------------------------------|---------------------------------|------------------------|-------------------------------------------------------------------------|------------------------------------|
| Output<br>Speed | Ratio  | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> Through <span>20</span><br>Spaces to be filled when entering<br>order | Weight of<br>Base<br>Mount Unit | Motor<br>Frame<br>Size | Cone Ring Output Coupling<br>Spaces to be filled when<br>entering order | Max Bore<br>Coupling<br>Drive Half |
| 264             | 5.25   | 23               | 1.94              | 2760             | A 0 4 1 0 5 . 0 _ M _ - _ _ . 7 5 4 A _                                                           | 20.5                            | 80b                    | X 6 1 2 0 1 M 0 2 0 - _ _ _                                             | 38                                 |
| 189             | 7.33   | 32               | 1.71              | 2760             | 7 . 5                                                                                             |                                 |                        |                                                                         |                                    |
| 132             | 10.50  | 45               | 1.68              | 2760             | 1 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 111             | 12.50  | 52               | 1.55              | 2750             | 1 3 .                                                                                             |                                 |                        |                                                                         |                                    |
| 96              | 14.50  | 59               | 1.49              | 2750             | 1 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 71              | 19.50  | 77               | 1.14              | 2740             | 2 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 55              | 25.00  | 89               | 1.12              | 2740             | 2 5 .                                                                                             |                                 |                        | X 6 1 1 0 1 M 0 2 0 - _ _ _                                             | 38                                 |
| 46              | 30.00  | 103              | 0.99              | 2730             | 3 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 189             | 7.33   | 33               | 2.93              | 3515             | A 0 5 1 0 7 . 5 _ M _ - _ _ . 7 5 4 A _                                                           | 24.5                            | 80b                    | X 6 1 1 0 1 M 0 2 5 - _ _ _                                             | 38                                 |
| 132             | 10.50  | 46               | 2.94              | 3505             | 1 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 111             | 12.50  | 53               | 2.60              | 3505             | 1 3 .                                                                                             |                                 |                        |                                                                         |                                    |
| 96              | 14.50  | 61               | 2.32              | 3503             | 1 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 69              | 20.00  | 77               | 2.22              | 3501             | 2 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 55              | 25.00  | 93               | 1.85              | 3489             | 2 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 46              | 30.00  | 107              | 1.53              | 3487             | 3 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 35              | 40.00  | 136              | 1.16              | 3475             | 4 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 28              | 50.00  | 157              | 0.90              | 3460             | 5 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 143             | 9.67   | 43               | 4.00              | 6106             | A 0 6 1 0 1 0 . _ M _ - _ _ . 7 5 4 A _                                                           | 30.5                            | 80b                    | X 6 1 1 0 1 M 0 2 8 - _ _ _                                             | 38                                 |
| 92              | 15.00  | 64               | 3.50              | 6072             | 1 5 .                                                                                             |                                 |                        | X 6 1 1 0 2 M 0 2 8 - _ _ _                                             | 42                                 |
| 69              | 20.00  | 79               | 3.52              | 6045             | 2 0 .                                                                                             |                                 |                        | X 6 1 1 0 3 M 0 2 8 - _ _ _                                             | 48                                 |
| 55              | 25.00  | 96               | 2.90              | 6033             | 2 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 46              | 30.00  | 110              | 2.36              | 6006             | 3 0 .                                                                                             |                                 |                        | X 6 1 1 0 2 M 0 2 8 - _ _ _                                             | 42                                 |
| 35              | 40.00  | 138              | 1.74              | 5972             | 4 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 28              | 50.00  | 162              | 1.36              | 5937             | 5 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 23              | 60.00  | 183              | 0.99              | 5880             | 6 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 18              | 76.13  | 274              | 1.40              | 5490             | A 0 6 1 0 7 5 . _ N _ - _ _ . 7 5 4 A _                                                           | 38.5                            | 80b                    | X 6 1 1 0 3 M 0 2 8 - _ _ _                                             | 48                                 |
| 14              | 102.38 | 328              | 1.36              | 5220             | 1 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 11              | 131.25 | 388              | 1.19              | 4910             | 1 2 5                                                                                             |                                 |                        |                                                                         |                                    |
| 46              | 30.00  | 121              | 3.41              | 6984             | A 0 7 3 0 3 0 . _ M _ - _ _ . 7 5 4 A _                                                           | 43.5                            | 80b                    | X 6 1 1 0 3 M 0 3 0 - _ _ _                                             | 48                                 |
| 35              | 40.00  | 153              | 2.50              | 6960             | 4 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 28              | 50.00  | 184              | 1.96              | 6954             | 5 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 23              | 60.00  | 208              | 1.50              | 6942             | 6 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 20              | 70.00  | 226              | 1.09              | 6930             | 7 0 .                                                                                             |                                 |                        | X 6 1 1 0 2 M 0 3 0 - _ _ _                                             | 42                                 |
| 20              | 69.60  | 287              | 1.68              | 6910             | A 0 7 3 0 7 5 . _ N _ - _ _ . 7 5 4 A _                                                           | 51.5                            | 80b                    | X 6 1 1 0 4 M 0 3 0 - _ _ _                                             | 60                                 |
| 15              | 93.60  | 371              | 1.57              | 6870             | 1 0 0                                                                                             |                                 |                        |                                                                         |                                    |
| 12              | 120.00 | 430              | 1.40              | 6840             | 1 2 5                                                                                             |                                 |                        |                                                                         |                                    |
| 190             | 4.80   | 33               | 3.29              | 3514             | A 0 5 1 0 5 . 0 _ M _ - _ _ . 7 5 6 A _                                                           | 28.4                            | 90S                    | X 6 1 1 0 1 M 0 2 5 - _ _ _                                             | 38                                 |
| 124             | 7.33   | 50               | 2.29              | 3509             | 7 . 5                                                                                             |                                 |                        |                                                                         |                                    |
| 87              | 10.50  | 69               | 2.29              | 3499             | 1 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 73              | 12.50  | 80               | 2.01              | 3494             | 1 3 .                                                                                             |                                 |                        |                                                                         |                                    |
| 63              | 14.50  | 92               | 1.62              | 3489             | 1 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 46              | 20.00  | 115              | 1.72              | 3483             | 2 0 .                                                                                             |                                 |                        | X 6 1 1 0 2 M 0 2 5 - _ _ _                                             | 42                                 |
| 36              | 25.00  | 137              | 1.44              | 3473             | 2 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 30              | 30.00  | 159              | 1.19              | 3463             | 3 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 23              | 40.00  | 201              | 0.88              | 3450             | 4 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 124             | 7.33   | 51               | 3.53              | 6094             | A 0 6 1 0 7 . 5 _ M _ - _ _ . 7 5 6 A _                                                           | 34.4                            | 90S                    | X 6 1 1 0 1 M 0 2 8 - _ _ _                                             | 38                                 |
| 94              | 9.67   | 65               | 3.11              | 6049             | 1 0 .                                                                                             |                                 |                        | X 6 1 1 0 2 M 0 2 8 - _ _ _                                             | 42                                 |
| 73              | 12.50  | 82               | 3.16              | 5999             | 1 3 .                                                                                             |                                 |                        |                                                                         |                                    |
| 61              | 15.00  | 96               | 2.70              | 5955             | 1 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 46              | 20.00  | 118              | 2.53              | 5887             | 2 0 .                                                                                             |                                 |                        | X 6 1 1 0 3 M 0 2 8 - _ _ _                                             | 48                                 |
| 36              | 25.00  | 141              | 2.27              | 5814             | 2 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 30              | 30.00  | 163              | 1.83              | 5786             | 3 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 23              | 40.00  | 204              | 1.35              | 5687             | 4 0 .                                                                                             |                                 |                        | X 6 1 1 0 2 M 0 2 8 - _ _ _                                             | 42                                 |
| 18              | 50.00  | 238              | 1.03              | 5610             | 5 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 47              | 19.50  | 129              | 3.10              | 6970             | A 0 7 3 0 2 0 . _ M _ - _ _ . 7 5 6 A _                                                           | 47.4                            | 90S                    | X 6 1 1 0 3 M 0 3 0 - _ _ _                                             | 48                                 |
| 36              | 25.00  | 154              | 3.13              | 6962             | 2 5 .                                                                                             |                                 |                        | X 6 1 1 0 4 M 0 3 0 - _ _ _                                             | 60                                 |
| 30              | 30.00  | 180              | 2.65              | 6956             | 3 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 23              | 40.00  | 229              | 1.92              | 6926             | 4 0 .                                                                                             |                                 |                        | X 6 1 1 0 3 M 0 3 0 - _ _ _                                             | 48                                 |
| 18              | 50.00  | 275              | 1.50              | 6912             | 5 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 15              | 60.00  | 307              | 1.07              | 6900             | 6 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 23              | 40.00  | 233              | 2.93              | 8860             | A 0 8 6 0 4 0 . _ M _ - _ _ . 7 5 6 A _                                                           | 64.4                            | 90S                    | X 6 1 1 0 4 M 0 3 5 - _ _ _                                             | 60                                 |
| 18              | 50.00  | 277              | 2.21              | 8860             | 5 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 15              | 60.00  | 314              | 1.63              | 8850             | 6 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 13              | 70.00  | 344              | 1.21              | 8840             | 7 0 .                                                                                             |                                 |                        | X 6 1 1 0 3 M 0 3 5 - _ _ _                                             | 48                                 |

# SERIES AJ

## SELECTION TABLES

### GEARED MOTORS

**1.1 kW**

**4 POLE**

**6 POLE**

**NOTE**

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

| N2<br>R/MIN     | i     | M2<br>Nm         | Fm                | N                | UNIT DESIGNATION                                                                                                                                                                                 | Kg                              |                        |                                                                      |                                    |
|-----------------|-------|------------------|-------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------|----------------------------------------------------------------------|------------------------------------|
| Output<br>Speed | Ratio | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span style="border: 1px solid black; padding: 0 2px;">1</span> Through <span style="border: 1px solid black; padding: 0 2px;">20</span><br>Spaces to be filled when entering order | Weight of<br>Base<br>Mount Unit | Motor<br>Frame<br>Size | Cone Ring Output Coupling<br>Spaces to be filled when entering order | Max Bore<br>Coupling<br>Drive Half |
| 288             | 4.80  | 33               | 2.82              | 3514             | A 0 5 1 0 5 . 0 _ M _ - _ _ 1 . 1 4 A _                                                                                                                                                          | 27.8                            | 90S                    | X 6 1 1 0 1 M 0 2 5 - _ _ _                                          | 38                                 |
| 188             | 7.33  | 48               | 1.99              | 3508             | 7 . 5                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |
| 131             | 10.50 | 68               | 2.00              | 3498             | 1 0 .                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |
| 110             | 12.50 | 78               | 1.77              | 3498             | 1 3 .                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |
| 95              | 14.50 | 90               | 1.57              | 3492             | 1 5 .                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |
| 69              | 20.00 | 113              | 1.51              | 3486             | 2 0 .                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |
| 55              | 25.00 | 137              | 1.25              | 3471             | 2 5 .                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |
| 46              | 30.00 | 158              | 1.04              | 3465             | 3 0 .                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |
| 188             | 7.33  | 49               | 3.06              | 6109             | A 0 6 1 0 7 . 5 _ M _ - _ _ 1 . 1 4 A _                                                                                                                                                          | 33.8                            | 90S                    | X 6 1 1 0 1 M 0 2 8 - _ _ _                                          | 38                                 |
| 143             | 9.67  | 64               | 2.72              | 6064             | 1 0 .                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |
| 110             | 12.50 | 80               | 2.77              | 6013             | 1 3 .                                                                                                                                                                                            |                                 |                        | X 6 1 1 0 2 M 0 2 8 - _ _ _                                          | 42                                 |
| 92              | 15.00 | 94               | 2.38              | 5970             | 1 5 .                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |
| 69              | 20.00 | 117              | 2.39              | 5898             | 2 0 .                                                                                                                                                                                            |                                 |                        | X 6 1 1 0 3 M 0 2 8 - _ _ _                                          | 48                                 |
| 55              | 25.00 | 141              | 1.97              | 5863             | 2 5 .                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |
| 46              | 30.00 | 162              | 1.60              | 5790             | 3 0 .                                                                                                                                                                                            |                                 |                        | X 6 1 1 0 2 M 0 2 8 - _ _ _                                          | 42                                 |
| 35              | 40.00 | 203              | 1.19              | 5695             | 4 0 .                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |
| 28              | 50.00 | 238              | 0.93              | 5600             | 5 0 .                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |
| 134             | 10.33 | 71               | 3.82              | 6988             | A 0 7 3 0 1 0 . _ M _ - _ _ 1 . 1 4 A _                                                                                                                                                          | 46.8                            | 90S                    | X 6 1 1 0 2 M 0 3 0 - _ _ _                                          | 42                                 |
| 95              | 14.50 | 96               | 3.65              | 6979             | 1 5 .                                                                                                                                                                                            |                                 |                        | X 6 1 1 0 3 M 0 3 0 - _ _ _                                          | 48                                 |
| 71              | 19.50 | 126              | 2.73              | 6970             | 2 0 .                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |
| 55              | 25.00 | 152              | 2.74              | 6964             | 2 5 .                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |
| 46              | 30.00 | 178              | 2.32              | 6957             | 3 0 .                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |
| 35              | 40.00 | 226              | 1.70              | 6926             | 4 0 .                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |
| 28              | 50.00 | 271              | 1.33              | 6910             | 5 0 .                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |
| 23              | 60.00 | 307              | 1.02              | 6894             | 6 0 .                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |
| 55              | 25.00 | 154              | 3.93              | 8860             | A 0 8 6 0 2 5 . _ M _ - _ _ 1 . 1 4 A _                                                                                                                                                          | 63.8                            | 90S                    | X 6 1 1 0 4 M 0 3 5 - _ _ _                                          | 60                                 |
| 46              | 30.00 | 181              | 3.51              | 8860             | 3 0 .                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |
| 35              | 40.00 | 231              | 2.57              | 8860             | 4 0 .                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |
| 28              | 50.00 | 274              | 1.95              | 8860             | 5 0 .                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |
| 23              | 60.00 | 314              | 1.56              | 8850             | 6 0 .                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |
| 20              | 70.00 | 344              | 1.17              | 8840             | 7 0 .                                                                                                                                                                                            |                                 |                        | X 6 1 1 0 3 M 0 3 5 - _ _ _                                          | 48                                 |
| 192             | 4.80  | 49               | 2.27              | 3510             | A 0 5 1 0 5 . 0 _ M _ - _ _ 1 . 1 6 A _                                                                                                                                                          | 32.5                            | 90L                    | X 6 1 1 0 1 M 0 2 5 - _ _ _                                          | 38                                 |
| 125             | 7.33  | 72               | 1.58              | 3500             | 7 . 5                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |
| 88              | 10.50 | 100              | 1.58              | 3490             | 1 0 .                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |
| 74              | 12.50 | 116              | 1.39              | 3480             | 1 3 .                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |
| 63              | 14.50 | 134              | 1.12              | 3470             | 1 5 .                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |
| 46              | 20.00 | 167              | 1.18              | 3460             | 2 0 .                                                                                                                                                                                            |                                 |                        | X 6 1 1 0 2 M 0 2 5 - _ _ _                                          | 42                                 |
| 37              | 25.00 | 199              | 0.99              | 3450             | 2 5 .                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |
| 31              | 30.00 | 231              | 0.82              | 3430             | 3 0 .                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |
| 184             | 5.00  | 51               | 3.41              | 6130             | A 0 6 1 0 5 . 0 _ M _ - _ _ 1 . 1 6 A _                                                                                                                                                          | 38.5                            | 90L                    | X 6 1 1 0 1 M 0 2 8 - _ _ _                                          | 38                                 |
| 125             | 7.33  | 74               | 2.43              | 6062             | 7 . 5                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |
| 95              | 9.67  | 95               | 2.14              | 5974             | 1 0 .                                                                                                                                                                                            |                                 |                        | X 6 1 1 0 2 M 0 2 8 - _ _ _                                          | 42                                 |
| 74              | 12.50 | 119              | 2.18              | 5878             | 1 3 .                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |
| 61              | 15.00 | 139              | 1.86              | 5794             | 1 5 .                                                                                                                                                                                            |                                 |                        | X 6 1 1 0 3 M 0 2 8 - _ _ _                                          | 48                                 |
| 46              | 20.00 | 172              | 1.74              | 5663             | 2 0 .                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |
| 37              | 25.00 | 205              | 1.57              | 5523             | 2 5 .                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |
| 31              | 30.00 | 237              | 1.26              | 5471             | 3 0 .                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |
| 23              | 40.00 | 296              | 0.93              | 5280             | 4 0 .                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |
| 127             | 7.25  | 75               | 3.66              | 6988             | A 0 7 3 0 7 . 5 _ M _ - _ _ 1 . 1 6 A _                                                                                                                                                          | 51.5                            | 90L                    | X 6 1 1 0 2 M 0 3 0 - _ _ _                                          | 42                                 |
| 89              | 10.33 | 105              | 3.01              | 6976             | 1 0 .                                                                                                                                                                                            |                                 |                        | X 6 1 1 0 3 M 0 3 0 - _ _ _                                          | 48                                 |
| 74              | 12.50 | 125              | 3.21              | 6968             | 1 3 .                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |
| 63              | 14.50 | 143              | 2.87              | 6960             | 1 5 .                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |
| 47              | 19.50 | 187              | 2.13              | 6944             | 2 0 .                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |
| 37              | 25.00 | 224              | 2.16              | 6928             | 2 5 .                                                                                                                                                                                            |                                 |                        | X 6 1 1 0 4 M 0 3 0 - _ _ _                                          | 60                                 |
| 31              | 30.00 | 262              | 1.83              | 6916             | 3 0 .                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |
| 23              | 40.00 | 333              | 1.32              | 6876             | 4 0 .                                                                                                                                                                                            |                                 |                        | X 6 1 1 0 3 M 0 3 0 - _ _ _                                          | 48                                 |
| 18              | 50.00 | 399              | 1.04              | 6850             | 5 0 .                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |
| 47              | 19.50 | 189              | 3.21              | 8848             | A 0 8 6 0 2 0 . _ M _ - _ _ 1 . 1 6 A _                                                                                                                                                          | 68.5                            | 90L                    | X 6 1 1 0 4 M 0 3 5 - _ _ _                                          | 60                                 |
| 37              | 25.00 | 227              | 3.09              | 8843             | 2 5 .                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |
| 31              | 30.00 | 266              | 2.77              | 8056             | 3 0 .                                                                                                                                                                                            |                                 |                        | X 6 1 1 0 5 M 0 3 5 - _ _ _                                          | 70                                 |
| 23              | 40.00 | 338              | 2.02              | 8833             | 4 0 .                                                                                                                                                                                            |                                 |                        | X 6 1 1 0 4 M 0 3 5 - _ _ _                                          | 60                                 |
| 18              | 50.00 | 402              | 1.52              | 8826             | 5 0 .                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |
| 15              | 60.00 | 455              | 1.12              | 8812             | 6 0 .                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |
| 13              | 70.00 | 500              | 0.84              | 8790             | 7 0 .                                                                                                                                                                                            |                                 |                        |                                                                      |                                    |

# SERIES AJ

## SELECTION TABLES

### GEARED MOTORS

**1.5 kW**

**4 POLE**

**6 POLE**

| N2<br>R/MIN     | i     | M2<br>Nm         | Fm                | N                | UNIT DESIGNATION                                                                                  | Kg                              |                        |                                                                         |                                    |
|-----------------|-------|------------------|-------------------|------------------|---------------------------------------------------------------------------------------------------|---------------------------------|------------------------|-------------------------------------------------------------------------|------------------------------------|
| Output<br>Speed | Ratio | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> Through <span>20</span><br>Spaces to be filled when entering<br>order | Weight of<br>Base<br>Mount Unit | Motor<br>Frame<br>Size | Cone Ring Output Coupling<br>Spaces to be filled when<br>entering order | Max Bore<br>Coupling<br>Drive Half |
| 290             | 4.80  | 44               | 2.08              | 3510             | A 0 5 1 0 5 . 0 _ M _ - _ _ 1 . 5 4 A _                                                           | 30.0                            | 90L                    | X 6 1 1 0 1 M 0 2 5 - _ _ _                                             | 38                                 |
| 190             | 7.33  | 66               | 1.47              | 3500             | 7 . 5                                                                                             |                                 |                        |                                                                         |                                    |
| 132             | 10.50 | 92               | 1.48              | 3490             | 1 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 111             | 12.50 | 106              | 1.30              | 3490             | 1 3 .                                                                                             |                                 |                        |                                                                         |                                    |
| 96              | 14.50 | 122              | 1.16              | 3480             | 1 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 70              | 20.00 | 153              | 1.11              | 3470             | 2 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 56              | 25.00 | 185              | 0.93              | 3450             | 2 5 .                                                                                             |                                 |                        | X 6 1 1 0 2 M 0 2 5 - _ _ _                                             | 42                                 |
| 278             | 5.00  | 46               | 3.13              | 6130             | A 0 6 1 0 5 . 0 _ M _ - _ _ 1 . 5 4 A _                                                           | 36.0                            | 90L                    | X 6 1 1 0 1 M 0 2 8 - _ _ _                                             | 38                                 |
| 190             | 7.33  | 67               | 2.26              | 6095             | 7 . 5                                                                                             |                                 |                        |                                                                         |                                    |
| 144             | 9.67  | 87               | 2.01              | 6017             | 1 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 111             | 12.50 | 109              | 2.05              | 5928             | 1 3 .                                                                                             |                                 |                        | X 6 1 1 0 2 M 0 2 8 - _ _ _                                             | 42                                 |
| 93              | 15.00 | 128              | 1.76              | 5854             | 1 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 70              | 20.00 | 159              | 1.76              | 5730             | 2 0 .                                                                                             |                                 |                        | X 6 1 1 0 3 M 0 2 8 - _ _ _                                             | 48                                 |
| 56              | 25.00 | 192              | 1.46              | 5669             | 2 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 46              | 30.00 | 219              | 1.18              | 5542             | 3 0 .                                                                                             |                                 |                        | X 6 1 1 0 2 M 0 2 8 - _ _ _                                             | 42                                 |
| 35              | 40.00 | 275              | 0.88              | 5380             | 4 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 192             | 7.25  | 68               | 3.41              | 6988             | A 0 7 3 0 7 . 5 _ M _ - _ _ 1 . 5 4 A _                                                           | 49.0                            | 90L                    | X 6 1 1 0 2 M 0 3 0 - _ _ _                                             | 42                                 |
| 135             | 10.33 | 96               | 2.82              | 6980             | 1 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 111             | 12.50 | 113              | 3.03              | 6972             | 1 3 .                                                                                             |                                 |                        | X 6 1 1 0 3 M 0 3 0 - _ _ _                                             | 48                                 |
| 96              | 14.50 | 131              | 2.70              | 6965             | 1 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 71              | 19.50 | 171              | 2.01              | 6949             | 2 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 56              | 25.00 | 206              | 2.03              | 6937             | 2 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 46              | 30.00 | 242              | 1.71              | 6926             | 3 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 35              | 40.00 | 306              | 1.25              | 6887             | 4 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 28              | 50.00 | 367              | 0.98              | 6860             | 5 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 71              | 19.50 | 173              | 3.03              | 8850             | A 0 8 6 0 2 0 . _ M _ - _ _ 1 . 5 4 A _                                                           | 66.0                            | 90L                    | X 6 1 1 0 4 M 0 3 5 - _ _ _                                             | 60                                 |
| 56              | 25.00 | 208              | 2.90              | 8847             | 2 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 46              | 30.00 | 245              | 2.59              | 8846             | 3 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 35              | 40.00 | 312              | 1.90              | 8841             | 4 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 28              | 50.00 | 372              | 1.44              | 8830             | 5 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 23              | 60.00 | 425              | 1.15              | 8817             | 6 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 20              | 70.00 | 465              | 0.86              | 8810             | 7 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 190             | 5.00  | 67               | 2.58              | 6130             | A 0 6 1 0 5 . 0 _ M _ - _ _ 1 . 5 6 A _                                                           | 43.2                            | 100La                  | X 6 1 1 0 1 M 0 2 8 - _ _ _                                             | 38                                 |
| 130             | 7.33  | 97               | 1.84              | 6025             | 7 . 5                                                                                             |                                 |                        |                                                                         |                                    |
| 98              | 9.67  | 125              | 1.62              | 5889             | 1 0 .                                                                                             |                                 |                        | X 6 1 1 0 2 M 0 2 8 - _ _ _                                             | 42                                 |
| 76              | 12.50 | 157              | 1.65              | 5740             | 1 3 .                                                                                             |                                 |                        |                                                                         |                                    |
| 63              | 15.00 | 184              | 1.41              | 5611             | 1 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 48              | 20.00 | 227              | 1.32              | 5407             | 2 0 .                                                                                             |                                 |                        | X 6 1 1 0 3 M 0 2 8 - _ _ _                                             | 48                                 |
| 38              | 25.00 | 272              | 1.19              | 5191             | 2 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 32              | 30.00 | 313              | 0.96              | 5110             | 3 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 183             | 5.20  | 72               | 3.66              | 6987             | A 0 7 3 0 5 . 0 _ M _ - _ _ 1 . 5 6 A _                                                           | 56.2                            | 100La                  | X 6 1 1 0 2 M 0 3 0 - _ _ _                                             | 42                                 |
| 131             | 7.25  | 99               | 2.77              | 6981             | 7 . 5                                                                                             |                                 |                        |                                                                         |                                    |
| 92              | 10.33 | 139              | 2.28              | 6962             | 1 0 .                                                                                             |                                 |                        | X 6 1 1 0 3 M 0 3 0 - _ _ _                                             | 48                                 |
| 76              | 12.50 | 165              | 2.43              | 6950             | 1 3 .                                                                                             |                                 |                        |                                                                         |                                    |
| 66              | 14.50 | 189              | 2.17              | 6938             | 1 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 49              | 19.50 | 247              | 1.62              | 6913             | 2 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 38              | 25.00 | 296              | 1.64              | 6888             | 2 5 .                                                                                             |                                 |                        | X 6 1 1 0 4 M 0 3 0 - _ _ _                                             | 60                                 |
| 32              | 30.00 | 346              | 1.39              | 6870             | 3 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 24              | 40.00 | 439              | 1.00              | 6820             | 4 0 .                                                                                             |                                 |                        | X 6 1 1 0 3 M 0 3 0 - _ _ _                                             | 48                                 |
| 98              | 9.67  | 132              | 3.68              | 8853             | A 0 8 6 0 1 0 . _ M _ - _ _ 1 . 5 6 A _                                                           | 73.2                            | 100La                  | X 6 1 1 0 4 M 0 3 5 - _ _ _                                             | 60                                 |
| 75              | 12.67 | 170              | 3.31              | 8848             | 1 3 .                                                                                             |                                 |                        |                                                                         |                                    |
| 66              | 14.50 | 191              | 3.29              | 8843             | 1 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 49              | 19.50 | 250              | 2.43              | 8834             | 2 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 38              | 25.00 | 300              | 2.34              | 8825             | 2 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 32              | 30.00 | 352              | 2.10              | 7138             | 3 0 .                                                                                             |                                 |                        | X 6 1 1 0 5 M 0 3 5 - _ _ _                                             | 70                                 |
| 24              | 40.00 | 446              | 1.53              | 8803             | 4 0 .                                                                                             |                                 |                        | X 6 1 1 0 4 M 0 3 5 - _ _ _                                             | 60                                 |
| 19              | 50.00 | 530              | 1.15              | 8787             | 5 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 16              | 60.00 | 601              | 0.85              | 8770             | 6 0 .                                                                                             |                                 |                        |                                                                         |                                    |

#### NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

# SERIES AJ

## SELECTION TABLES

### GEARED MOTORS

**2.2 kW**

**4 POLE**

**6 POLE**

| N2<br>R/MIN     | i     | M2<br>Nm         | Fm                | N                | UNIT DESIGNATION                                                                                                                                                                                    | Kg                              |                        |                                                                         |                                    |
|-----------------|-------|------------------|-------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------|-------------------------------------------------------------------------|------------------------------------|
| Output<br>Speed | Ratio | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span style="border: 1px solid black; padding: 0 2px;">1</span> Through <span style="border: 1px solid black; padding: 0 2px;">20</span><br>Spaces to be filled when entering<br>order | Weight of<br>Base<br>Mount Unit | Motor<br>Frame<br>Size | Cone Ring Output Coupling<br>Spaces to be filled when<br>entering order | Max Bore<br>Coupling<br>Drive Half |
| 282             | 5.00  | 67               | 2.17              | 6130             | A 0 6 1 0 5 . 0 _ M _ - _ _ 2 . 2 4 A _                                                                                                                                                             | 43.0                            | 100La                  | X 6 1 1 0 1 M 0 2 8 - _ _ _                                             | 38                                 |
| 192             | 7.33  | 97               | 1.56              | 6069             | 7 . 5                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 146             | 9.67  | 126              | 1.39              | 5934             | 1 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 113             | 12.50 | 158              | 1.41              | 5779             | 1 3 .                                                                                                                                                                                               |                                 |                        | X 6 1 1 0 2 M 0 2 8 - _ _ _                                             | 42                                 |
| 94              | 15.00 | 185              | 1.22              | 5651             | 1 5 .                                                                                                                                                                                               |                                 |                        | X 6 1 1 0 3 M 0 2 8 - _ _ _                                             | 48                                 |
| 71              | 20.00 | 230              | 1.22              | 5436             | 2 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 56              | 25.00 | 277              | 1.01              | 5330             | 2 5 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 47              | 30.00 | 317              | 0.82              | 5110             | 3 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 271             | 5.20  | 72               | 3.09              | 6993             | A 0 7 3 0 5 . 0 _ M _ - _ _ 2 . 2 4 A _                                                                                                                                                             | 56.0                            | 100La                  | X 6 1 1 0 2 M 0 3 0 - _ _ _                                             | 42                                 |
| 194             | 7.25  | 99               | 2.36              | 6979             | 7 . 5                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 136             | 10.33 | 139              | 1.95              | 6966             | 1 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 113             | 12.50 | 164              | 2.10              | 6952             | 1 3 .                                                                                                                                                                                               |                                 |                        | X 6 1 1 0 3 M 0 3 0 - _ _ _                                             | 48                                 |
| 97              | 14.50 | 189              | 1.87              | 6939             | 1 5 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 72              | 19.50 | 247              | 1.39              | 6912             | 2 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 56              | 25.00 | 298              | 1.40              | 6892             | 2 5 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 47              | 30.00 | 350              | 1.18              | 6872             | 3 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 35              | 40.00 | 443              | 0.87              | 6820             | 4 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 194             | 7.25  | 100              | 3.59              | 8856             | A 0 8 6 0 7 . 5 _ M _ - _ _ 2 . 2 4 A _                                                                                                                                                             | 73.0                            | 100La                  | X 6 1 1 0 3 M 0 3 5 - _ _ _                                             | 48                                 |
| 146             | 9.67  | 131              | 3.16              | 8851             | 1 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 111             | 12.67 | 170              | 2.84              | 8844             | 1 3 .                                                                                                                                                                                               |                                 |                        | X 6 1 1 0 4 M 0 3 5 - _ _ _                                             | 60                                 |
| 97              | 14.50 | 191              | 2.83              | 8842             | 1 5 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 72              | 19.50 | 250              | 2.10              | 8835             | 2 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 56              | 25.00 | 301              | 2.01              | 8825             | 2 5 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 47              | 30.00 | 355              | 1.79              | 8822             | 3 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 35              | 40.00 | 452              | 1.31              | 8807             | 4 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 28              | 50.00 | 537              | 0.99              | 8780             | 5 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 189             | 5.00  | 100              | 1.75              | 6130             | A 0 6 1 0 5 . 0 _ M _ - _ _ 2 . 2 6 A _                                                                                                                                                             | 50.8                            | 112M                   | X 6 1 1 0 1 M 0 2 8 - _ _ _                                             | 38                                 |
| 129             | 7.33  | 144              | 1.25              | 5960             | 7 . 5                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 98              | 9.67  | 185              | 1.10              | 5740             | 1 0 .                                                                                                                                                                                               |                                 |                        | X 6 1 1 0 2 M 0 2 8 - _ _ _                                             | 42                                 |
| 76              | 12.50 | 232              | 1.12              | 5500             | 1 3 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 63              | 15.00 | 272              | 0.96              | 5290             | 1 5 .                                                                                                                                                                                               |                                 |                        | X 6 1 1 0 3 M 0 2 8 - _ _ _                                             | 48                                 |
| 47              | 20.00 | 335              | 0.89              | 4960             | 2 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 38              | 25.00 | 401              | 0.81              | 4610             | 2 5 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 182             | 5.20  | 107              | 2.48              | 6980             | A 0 7 3 0 5 . 0 _ M _ - _ _ 2 . 2 6 A _                                                                                                                                                             | 63.8                            | 112M                   | X 6 1 1 0 2 M 0 3 0 - _ _ _                                             | 42                                 |
| 130             | 7.25  | 147              | 1.88              | 6970             | 7 . 5                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 91              | 10.33 | 206              | 1.54              | 6940             | 1 0 .                                                                                                                                                                                               |                                 |                        | X 6 1 1 0 3 M 0 3 0 - _ _ _                                             | 48                                 |
| 76              | 12.50 | 244              | 1.65              | 6920             | 1 3 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 65              | 14.50 | 279              | 1.47              | 6900             | 1 5 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 48              | 19.50 | 364              | 1.10              | 6860             | 2 0 .                                                                                                                                                                                               |                                 |                        | X 6 1 1 0 4 M 0 3 0 - _ _ _                                             | 60                                 |
| 38              | 25.00 | 437              | 1.11              | 6820             | 2 5 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 32              | 30.00 | 510              | 0.94              | 6790             | 3 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 130             | 7.25  | 148              | 2.86              | 8860             | A 0 8 6 0 7 . 5 _ M _ - _ _ 2 . 2 6 A _                                                                                                                                                             | 80.8                            | 112M                   | X 6 1 1 0 3 M 0 3 5 - _ _ _                                             | 48                                 |
| 98              | 9.67  | 194              | 2.50              | 8846             | 1 0 .                                                                                                                                                                                               |                                 |                        | X 6 1 1 0 4 M 0 3 5 - _ _ _                                             | 60                                 |
| 75              | 12.67 | 251              | 2.24              | 8837             | 1 3 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 65              | 14.50 | 282              | 2.23              | 8828             | 1 5 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 48              | 19.50 | 368              | 1.65              | 8810             | 2 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 38              | 25.00 | 442              | 1.59              | 8793             | 2 5 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 32              | 30.00 | 519              | 1.42              | 5531             | 3 0 .                                                                                                                                                                                               |                                 |                        | X 6 1 1 0 5 M 0 3 5 - _ _ _                                             | 70                                 |
| 24              | 40.00 | 658              | 1.04              | 8750             | 4 0 .                                                                                                                                                                                               |                                 |                        | X 6 1 1 0 4 M 0 3 5 - _ _ _                                             | 60                                 |

#### NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

# SERIES AJ

## SELECTION TABLES

### GEARED MOTORS

**3.0 kW**

**4 POLE**

**6 POLE**

| N2<br>R/MIN     | i     | M2<br>Nm         | Fm                | N                | UNIT DESIGNATION                                                                                                  | Kg                              |                        |                                                                         |                                    |
|-----------------|-------|------------------|-------------------|------------------|-------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------|-------------------------------------------------------------------------|------------------------------------|
| Output<br>Speed | Ratio | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <input type="text"/> 1 Through <input type="text"/> 20<br>Spaces to be filled when entering<br>order | Weight of<br>Base<br>Mount Unit | Motor<br>Frame<br>Size | Cone Ring Output Coupling<br>Spaces to be filled when<br>entering order | Max Bore<br>Coupling<br>Drive Half |
| 284             | 5.00  | 91               | 1.60              | 6130             | A 0 6 1 0 5 . 0 _ M _ - _ _ 3 . 0 4 A _                                                                           | 46.8                            | 100Lb                  | X 6 1 1 0 1 M 0 2 8 - _ _ _                                             | 38                                 |
| 194             | 7.33  | 131              | 1.16              | 6040             | 7 . 5                                                                                                             |                                 |                        |                                                                         |                                    |
| 147             | 9.67  | 170              | 1.03              | 5840             | 1 0 .                                                                                                             |                                 |                        |                                                                         |                                    |
| 114             | 12.50 | 214              | 1.04              | 5610             | 1 3 .                                                                                                             |                                 |                        | X 6 1 1 0 2 M 0 2 8 - _ _ _                                             | 42                                 |
| 95              | 15.00 | 250              | 0.90              | 5420             | 1 5 .                                                                                                             |                                 |                        |                                                                         |                                    |
| 71              | 20.00 | 311              | 0.90              | 5100             | 2 0 .                                                                                                             |                                 |                        | X 6 1 1 0 3 M 0 2 8 - _ _ _                                             | 48                                 |
| 273             | 5.20  | 97               | 2.28              | 6990             | A 0 7 3 0 5 . 0 _ M _ - _ _ 3 . 0 4 A _                                                                           | 59.8                            | 100Lb                  | X 6 1 1 0 2 M 0 3 0 - _ _ _                                             | 42                                 |
| 196             | 7.25  | 134              | 1.74              | 6970             | 7 . 5                                                                                                             |                                 |                        |                                                                         |                                    |
| 137             | 10.33 | 188              | 1.44              | 6950             | 1 0 .                                                                                                             |                                 |                        |                                                                         |                                    |
| 114             | 12.50 | 222              | 1.55              | 6930             | 1 3 .                                                                                                             |                                 |                        | X 6 1 1 0 3 M 0 3 0 - _ _ _                                             | 48                                 |
| 98              | 14.50 | 256              | 1.38              | 6910             | 1 5 .                                                                                                             |                                 |                        |                                                                         |                                    |
| 73              | 19.50 | 335              | 1.03              | 6870             | 2 0 .                                                                                                             |                                 |                        |                                                                         |                                    |
| 57              | 25.00 | 403              | 1.03              | 6840             | 2 5 .                                                                                                             |                                 |                        |                                                                         |                                    |
| 47              | 30.00 | 474              | 0.87              | 6810             | 3 0 .                                                                                                             |                                 |                        | X 6 1 1 0 4 M 0 3 0 - _ _ _                                             | 60                                 |
| 294             | 4.83  | 91               | 3.95              | 8860             | A 0 8 6 0 5 . 0 _ M _ - _ _ 3 . 0 4 A _                                                                           | 76.8                            | 100Lb                  | X 6 1 1 0 3 M 0 3 5 - _ _ _                                             | 48                                 |
| 196             | 7.25  | 135              | 2.65              | 8854             | 7 . 5                                                                                                             |                                 |                        |                                                                         |                                    |
| 147             | 9.67  | 177              | 2.33              | 8845             | 1 0 .                                                                                                             |                                 |                        |                                                                         |                                    |
| 112             | 12.67 | 230              | 2.10              | 8833             | 1 3 .                                                                                                             |                                 |                        | X 6 1 1 0 4 M 0 3 5 - _ _ _                                             | 60                                 |
| 98              | 14.50 | 258              | 2.09              | 8830             | 1 5 .                                                                                                             |                                 |                        |                                                                         |                                    |
| 73              | 19.50 | 339              | 1.55              | 8816             | 2 0 .                                                                                                             |                                 |                        |                                                                         |                                    |
| 57              | 25.00 | 408              | 1.48              | 8799             | 2 5 .                                                                                                             |                                 |                        |                                                                         |                                    |
| 47              | 30.00 | 481              | 1.33              | 8794             | 3 0 .                                                                                                             |                                 |                        |                                                                         |                                    |
| 36              | 40.00 | 612              | 0.97              | 8770             | 4 0 .                                                                                                             |                                 |                        |                                                                         |                                    |
| 197             | 4.83  | 136              | 3.19              | 8860             | A 0 8 6 0 5 . 0 _ M _ - _ _ 3 . 0 6 A _                                                                           | 93.0                            | 132Sa                  | X 6 1 1 0 3 M 0 3 5 - _ _ _                                             | 48                                 |
| 131             | 7.25  | 201              | 2.11              | 8860             | 7 . 5                                                                                                             |                                 |                        |                                                                         |                                    |
| 98              | 9.67  | 264              | 1.84              | 8839             | 1 0 .                                                                                                             |                                 |                        | X 6 1 1 0 4 M 0 3 5 - _ _ _                                             | 60                                 |
| 75              | 12.67 | 341              | 1.65              | 8825             | 1 3 .                                                                                                             |                                 |                        |                                                                         |                                    |
| 66              | 14.50 | 383              | 1.65              | 8811             | 1 5 .                                                                                                             |                                 |                        |                                                                         |                                    |
| 49              | 19.50 | 500              | 1.22              | 8783             | 2 0 .                                                                                                             |                                 |                        |                                                                         |                                    |
| 38              | 25.00 | 600              | 1.17              | 8756             | 2 5 .                                                                                                             |                                 |                        |                                                                         |                                    |
| 32              | 30.00 | 704              | 1.05              | 3695             | 3 0 .                                                                                                             |                                 |                        | X 6 1 1 0 5 M 0 3 5 - _ _ _                                             | 70                                 |

#### NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

# SERIES AJ

## SELECTION TABLES

### GEARED MOTORS

**4.0 kW**

4 POLE

6 POLE

| N2<br>R/MIN     | i     | M2<br>Nm         | Fm                | N                | UNIT DESIGNATION                                                                                                                                                                                    | Kg                              |                        |                                                                         |                                    |
|-----------------|-------|------------------|-------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------|-------------------------------------------------------------------------|------------------------------------|
| Output<br>Speed | Ratio | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span style="border: 1px solid black; padding: 0 2px;">1</span> Through <span style="border: 1px solid black; padding: 0 2px;">20</span><br>Spaces to be filled when entering<br>order | Weight of<br>Base<br>Mount Unit | Motor<br>Frame<br>Size | Cone Ring Output Coupling<br>Spaces to be filled when<br>entering order | Max Bore<br>Coupling<br>Drive Half |
| 295             | 4.83  | 121              | 2.97              | 8860             | A 0 8 6 0 5 . 0 _ M _ _ _ 4 . 0 4 A _                                                                                                                                                               | 83.0                            | 112M                   | X 6 1 1 0 3 M 0 3 5 - _ _ _                                             | 48                                 |
| 197             | 7.25  | 179              | 2.00              | 8850             | 7 . 5                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 147             | 9.67  | 236              | 1.75              | 8837             | 1 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 113             | 12.67 | 306              | 1.58              | 8819             | 1 3 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 98              | 14.50 | 344              | 1.57              | 8814             | 1 5 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 73              | 19.50 | 450              | 1.16              | 8794             | 2 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 57              | 25.00 | 542              | 1.12              | 8767             | 2 5 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 48              | 30.00 | 639              | 1.00              | 8760             | 3 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 198             | 4.83  | 180              | 2.40              | 8860             | A 0 8 6 0 5 . 0 _ M _ _ _ 4 . 0 6 A _                                                                                                                                                               | 102.0                           | 132Ma                  | X 6 1 1 0 3 M 0 3 5 - _ _ _                                             | 48                                 |
| 132             | 7.25  | 267              | 1.59              | 8860             | 7 . 5                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 99              | 9.67  | 350              | 1.39              | 8830             | 1 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 75              | 12.67 | 452              | 1.25              | 8810             | 1 3 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 66              | 14.50 | 508              | 1.24              | 8790             | 1 5 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 49              | 19.50 | 663              | 0.92              | 8750             | 2 0 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
| 38              | 25.00 | 796              | 0.88              | 8710             | 2 5 .                                                                                                                                                                                               |                                 |                        |                                                                         |                                    |
|                 |       |                  |                   |                  |                                                                                                                                                                                                     |                                 |                        | X 6 1 1 0 5 M 0 3 5 - _ _ _                                             | 70                                 |

#### NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

# SERIES AJ

## SELECTION TABLES

### GEARED MOTORS

#### 5.5 kW

4 POLE

| N2<br>R/MIN     | i     | M2<br>Nm         | Fm                | N                | UNIT DESIGNATION                                                                                  | Kg                              |                        |                                                                         |                                    |
|-----------------|-------|------------------|-------------------|------------------|---------------------------------------------------------------------------------------------------|---------------------------------|------------------------|-------------------------------------------------------------------------|------------------------------------|
| Output<br>Speed | Ratio | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> Through <span>20</span><br>Spaces to be filled when entering<br>order | Weight of<br>Base<br>Mount Unit | Motor<br>Frame<br>Size | Cone Ring Output Coupling<br>Spaces to be filled when<br>entering order | Max Bore<br>Coupling<br>Drive Half |
| 300             | 4.83  | 164              | 2.20              | 8860             | A 0 8 6 0 5 . 0 _ M _ - _ _ 5 . 5 4 A _                                                           | 96.0                            | 132Sa                  | X 6 1 1 0 3 M 0 3 5 - _ _ _                                             | 48                                 |
| 200             | 7.25  | 243              | 1.48              | 8846             | 7 . 5                                                                                             |                                 |                        |                                                                         |                                    |
| 150             | 9.67  | 318              | 1.30              | 8825             | 1 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 114             | 12.67 | 413              | 1.17              | 8798             | 1 3 .                                                                                             |                                 |                        | X 6 1 1 0 4 M 0 3 5 - _ _ _                                             | 60                                 |
| 100             | 14.50 | 464              | 1.16              | 8791             | 1 5 .                                                                                             |                                 |                        |                                                                         |                                    |
| 74              | 19.50 | 609              | 0.86              | 8760             | 2 0 .                                                                                             |                                 |                        |                                                                         |                                    |
| 58              | 25.00 | 732              | 0.83              | 8720             | 2 5 .                                                                                             |                                 |                        | X 6 1 1 0 5 M 0 3 5 - _ _ _                                             | 70                                 |

#### 7.5 kW

4 POLE

|     |       |     |      |      |                                         |       |       |                             |    |
|-----|-------|-----|------|------|-----------------------------------------|-------|-------|-----------------------------|----|
| 300 | 4.83  | 224 | 1.61 | 8860 | A 0 8 6 0 5 . 0 _ M _ - _ _ 7 . 5 4 A _ | 106.0 | 132Ma | X 6 1 1 0 3 M 0 3 5 - _ _ _ | 48 |
| 200 | 7.25  | 331 | 1.08 | 8840 | 7 . 5                                   |       |       |                             |    |
| 150 | 9.67  | 434 | 0.95 | 8810 | 1 0 .                                   |       |       |                             |    |
| 114 | 12.67 | 564 | 0.86 | 8770 | 1 3 .                                   |       |       | X 6 1 1 0 4 M 0 3 5 - _ _ _ | 60 |
| 100 | 14.50 | 633 | 0.85 | 8760 | 1 5 .                                   |       |       |                             |    |

#### NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

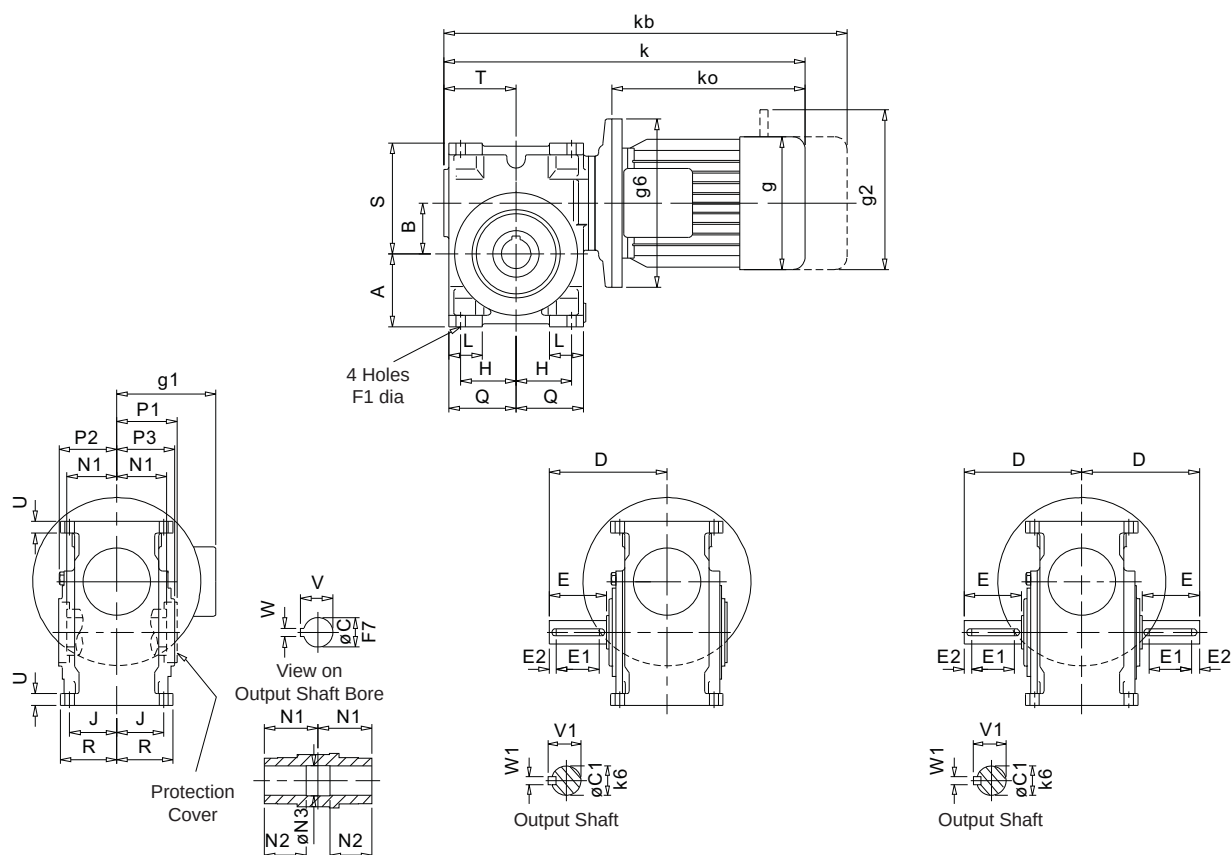
# SERIES AJ

## DIMENSIONS

### SINGLE REDUCTION

|   |   |  |  |   |  |  |   |   |
|---|---|--|--|---|--|--|---|---|
| A | 0 |  |  | 0 |  |  | W | M |
|---|---|--|--|---|--|--|---|---|

STANDARD UNIT



| SIZE  | A   | B    | øC | øC1 | D   | E  | E1 | E2  | F1   | H    | J    | L  | N1 | N2 |
|-------|-----|------|----|-----|-----|----|----|-----|------|------|------|----|----|----|
| A0280 | 58  | 28.6 | 16 | 16  | 79  | 35 | 23 | 5.5 | 9    | 52.5 | 41.5 | 30 | 40 | 32 |
| A0410 | 66  | 41.3 | 22 | 20  | 98  | 45 | 34 | 6   | 11.5 | 58.5 | 49   | 32 | 50 | 40 |
| A0510 | 74  | 50.8 | 25 | 25  | 117 | 57 | 42 | 7   | 11.5 | 57   | 52   | 35 | 56 | 45 |
| A0610 | 87  | 60.3 | 35 | 28  | 140 | 70 | 55 | 7   | 11.5 | 66   | 56   | 40 | 64 | 50 |
| A0730 | 105 | 73.0 | 40 | 30  | 168 | 83 | 62 | 7   | 13.5 | 81   | 70   | 45 | 77 | 60 |
| A0860 | 117 | 85.7 | 50 | 35  | 200 | 98 | 80 | 8   | 17.5 | 90   | 79   | 55 | 93 | 73 |

| SIZE  | .N3  | P1  | P2 | P3 | Q    | R    | S   | T   | U  | V         | V1          | W             | W1           |
|-------|------|-----|----|----|------|------|-----|-----|----|-----------|-------------|---------------|--------------|
| A0280 | 16.2 | 48  | 45 | 44 | 61.5 | 50.5 | 81  | 53  | 9  | 18.4 18.3 | 18.00 17.87 | 5.015 4.985   | 5.000 4.970  |
| A0410 | 22.2 | 58  | 55 | 55 | 69   | 60   | 101 | 62  | 10 | 24.9 24.8 | 22.50 22.37 | 6.015 5.985   | 6.000 5.970  |
| A0510 | 25.2 | 63  | 61 | 61 | 67   | 62   | 112 | 75  | 12 | 28.5 28.3 | 28.00 27.71 | 8.018 7.982   | 8.000 7.964  |
| A0610 | 35.2 | 79  | 67 | 69 | 80   | 67   | 132 | 86  | 14 | 38.5 38.3 | 31.00 30.71 | 10.018 9.982  | 8.000 7.964  |
| A0730 | 40.2 | 95  | 81 | 84 | 95   | 84   | 153 | 103 | 16 | 43.5 43.3 | 33.00 32.71 | 12.021 11.979 | 8.000 7.964  |
| A0860 | 50.2 | 104 | 97 | 99 | 108  | 97   | 178 | 116 | 18 | 54.0 53.8 | 38.00 27.71 | 14.021 13.979 | 10.000 9.964 |

| MOTORS           |         | ALL SIZES |     |     |     |     | A0280 |     | A0410 |     | A0510 |     | A0610 |     | A0730 |     | A0860 |     |
|------------------|---------|-----------|-----|-----|-----|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
| MOTOR FRAME SIZE |         | ko        | g   | g1  | g2  | g6  | k     | kb  | k     | kb  | k     | kb  | k     | kb  | k     | kb  | k     | kb  |
|                  | 63      | 185       | 122 | 101 | 160 | 140 | 314   | 356 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   |
|                  | 71      | 210       | 137 | 107 | 167 | 160 | 340   | 381 | 354   | 395 | 385   | 426 | -     | -   | -     | -   | -     | -   |
|                  | 80      | 230       | 158 | 118 | 190 | 200 | -     | -   | 379   | 429 | 405   | 455 | 430   | 480 | 471   | 521 | -     | -   |
|                  | 90S/L   | 270       | 177 | 149 | 218 | 200 | -     | -   | -     | -   | 445   | 504 | 470   | 529 | 511   | 570 | 537   | 596 |
|                  | 100/112 | 340       | 197 | 159 | 238 | 250 | -     | -   | -     | -   | -     | -   | 544   | 612 | 581   | 649 | 607   | 675 |
|                  | 132     | 402       | 253 | 184 | 288 | 300 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | 676   | 747 |

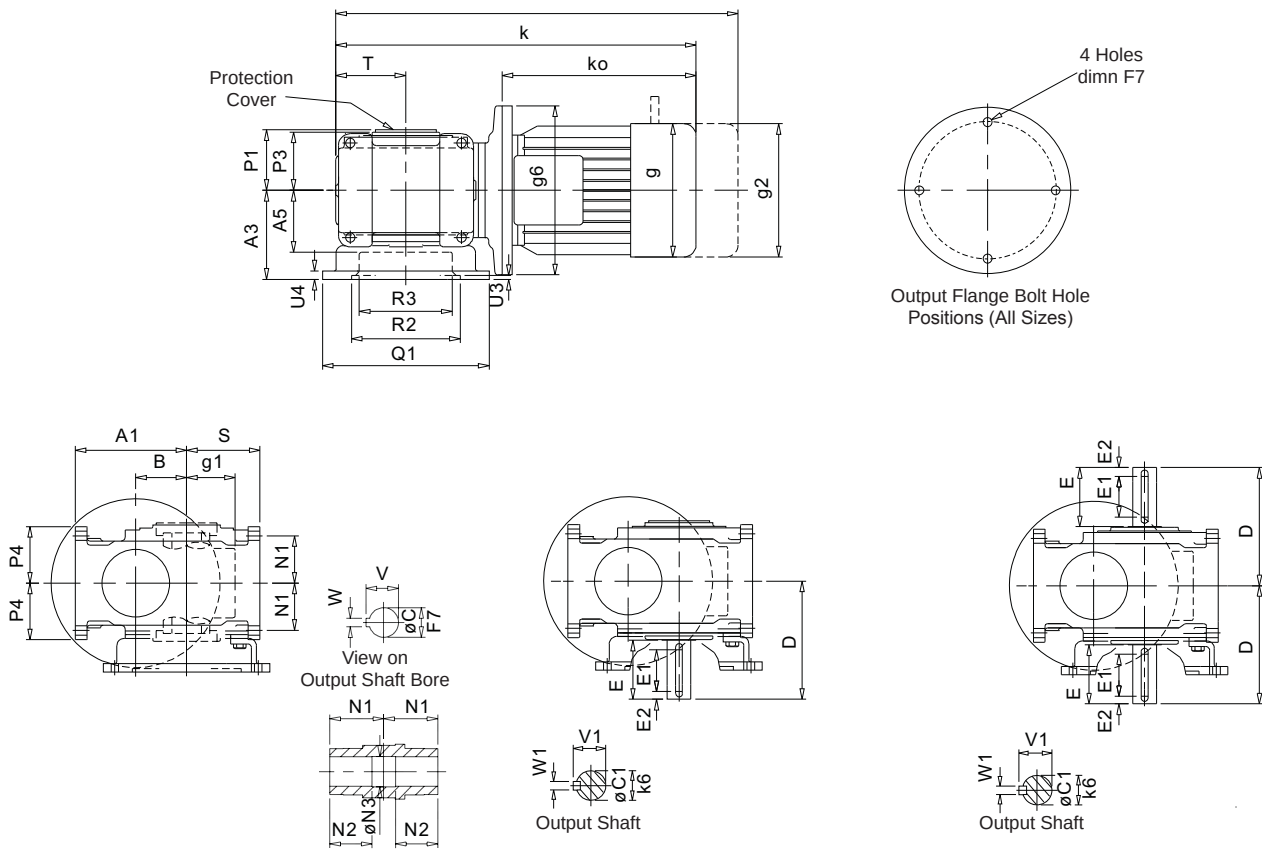
# SERIES AJ

## DIMENSIONS

### SINGLE REDUCTION

|   |   |  |  |   |  |  |   |   |
|---|---|--|--|---|--|--|---|---|
| A | 0 |  |  | 0 |  |  | F | M |
|---|---|--|--|---|--|--|---|---|

#### STANDARD UNIT FLANGE MOUNTED



| SIZE  | A1  | A3  | A5  | B    | $\varnothing$ C | $\varnothing$ C1 | D   | E  | E1 | E2  | F7               | N1 | N2 | $\varnothing$ N3 |
|-------|-----|-----|-----|------|-----------------|------------------|-----|----|----|-----|------------------|----|----|------------------|
| A0280 | 81  | 63  | 49  | 28.6 | 16              | 16               | 79  | 35 | 23 | 5.5 | .6.6 on 100 PCD  | 40 | 32 | 16.2             |
| A0410 | 101 | 80  | 60  | 41.3 | 22              | 20               | 98  | 45 | 34 | 6   | .9 on 115 PCD    | 50 | 40 | 22.2             |
| A0510 | 112 | 90  | 65  | 50.8 | 25              | 25               | 117 | 57 | 42 | 7   | .9 on 130 PCD    | 56 | 45 | 25.2             |
| A0610 | 132 | 105 | 71  | 60.3 | 35              | 28               | 140 | 70 | 55 | 7   | .11 on 165 PCD   | 64 | 50 | 35.2             |
| A0730 | 153 | 120 | 91  | 73.0 | 40              | 30               | 168 | 83 | 62 | 7   | .13.5 on 215 PCD | 77 | 60 | 40.2             |
| A0860 | 178 | 132 | 100 | 85.7 | 50              | 35               | 200 | 98 | 80 | 8   | .13.5 on 215 PCD | 93 | 73 | 50.2             |

| SIZE  | P1  | P3 | P4   | Q1  | R2                 | R3  | S   | T   | U3  | U4 | V         | V1             | W                | W1              |
|-------|-----|----|------|-----|--------------------|-----|-----|-----|-----|----|-----------|----------------|------------------|-----------------|
| A0280 | 48  | 44 | 50.5 | 120 | 80.030<br>80.000   | 60  | 58  | 53  | 3   | 7  | 18.4 18.3 | 18.00<br>17.87 | 5.015<br>4.985   | 5.000<br>4.970  |
| A0410 | 58  | 55 | 60   | 140 | 95.035<br>95.000   | 72  | 66  | 62  | 3.5 | 8  | 24.9 24.8 | 22.50<br>22.37 | 6.015<br>5.985   | 6.000<br>5.970  |
| A0510 | 63  | 61 | 62   | 160 | 110.035<br>110.000 | 88  | 74  | 75  | 4   | 9  | 28.5 28.3 | 28.00<br>27.71 | 8.018<br>7.982   | 8.000<br>7.964  |
| A0610 | 79  | 69 | 67   | 200 | 130.040<br>130.000 | 110 | 87  | 86  | 4.5 | 10 | 38.5 38.3 | 31.00<br>30.71 | 10.018<br>9.982  | 8.000<br>7.964  |
| A0730 | 95  | 84 | 84   | 250 | 180.040<br>180.000 | 136 | 105 | 103 | 5   | 12 | 43.5 43.3 | 33.00<br>32.71 | 12.021<br>11.979 | 8.000<br>7.964  |
| A0860 | 104 | 99 | 97   | 250 | 180.040<br>180.000 | 150 | 117 | 116 | 5   | 12 | 54.0 53.8 | 38.00<br>37.71 | 14.021<br>13.979 | 10.000<br>9.964 |

| MOTORS              |         | ALL SIZES |     |     |     |     | A0280 |     | A0410 |     | A0510 |     | A0610 |     | A0730 |     | A0860 |     |
|---------------------|---------|-----------|-----|-----|-----|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
| MOTOR<br>FRAME SIZE |         | ko        | g   | g1  | g2  | g6  | k     | kb  | k     | kb  | k     | kb  | k     | kb  | k     | kb  | k     | kb  |
|                     | 63      | 185       | 122 | 101 | 160 | 140 | 314   | 356 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   |
|                     | 71      | 210       | 137 | 107 | 167 | 160 | 340   | 381 | 354   | 395 | 385   | 426 | -     | -   | -     | -   | -     | -   |
|                     | 80      | 230       | 158 | 118 | 190 | 200 | -     | -   | 379   | 429 | 405   | 455 | 430   | 480 | 471   | 521 | -     | -   |
|                     | 90S/L   | 270       | 177 | 149 | 218 | 200 | -     | -   | -     | -   | 445   | 504 | 470   | 529 | 511   | 570 | 537   | 596 |
|                     | 100/112 | 340       | 197 | 159 | 238 | 250 | -     | -   | -     | -   | -     | -   | 544   | 612 | 581   | 649 | 607   | 675 |
|                     | 132     | 402       | 253 | 184 | 288 | 300 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | 676   | 747 |

# SERIES AJ

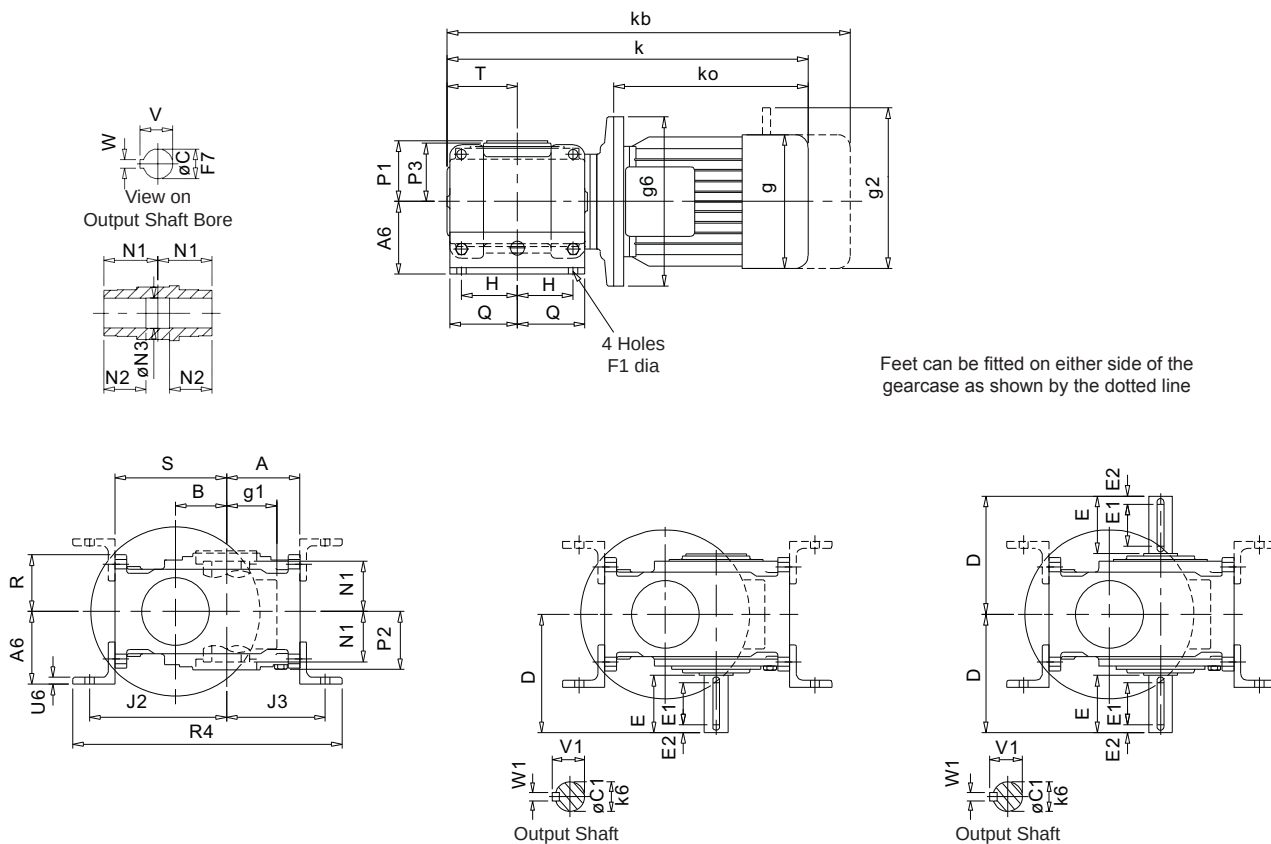
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## DIMENSIONS

### SINGLE REDUCTION

|   |   |  |  |   |  |  |  |   |   |
|---|---|--|--|---|--|--|--|---|---|
| A | 0 |  |  | 0 |  |  |  | G | M |
|---|---|--|--|---|--|--|--|---|---|

## STANDARD UNIT SIDE MOUNTED FEET



| SIZE  | A   | A6  | B    | øC | øC1 | D   | E  | E1 | E2  | F1   | H    | J2    | J3   | N1 |
|-------|-----|-----|------|----|-----|-----|----|----|-----|------|------|-------|------|----|
| A0280 | 58  | 62  | 28.6 | 16 | 16  | 79  | 35 | 23 | 5.5 | 9    | 52.5 | 101.5 | 78.5 | 40 |
| A0410 | 66  | 75  | 41.3 | 22 | 20  | 98  | 45 | 34 | 6   | 11.5 | 58.5 | 127   | 92   | 50 |
| A0510 | 74  | 78  | 50.8 | 25 | 25  | 117 | 57 | 42 | 7   | 11.5 | 57   | 138   | 100  | 56 |
| A0610 | 87  | 86  | 60.3 | 35 | 28  | 140 | 70 | 55 | 7   | 11.5 | 66   | 162   | 117  | 64 |
| A0730 | 105 | 103 | 73.0 | 40 | 30  | 168 | 83 | 62 | 7   | 13.5 | 81   | 186   | 138  | 77 |
| A0860 | 117 | 118 | 85.7 | 50 | 35  | 200 | 98 | 80 | 8   | 17.5 | 90   | 217   | 156  | 93 |

| SIZE  | N2 | øN3  | P1  | P2 | P3 | R    | R4  | S   | T   | U6 | V            | V1             | W                | W1              |
|-------|----|------|-----|----|----|------|-----|-----|-----|----|--------------|----------------|------------------|-----------------|
| A0280 | 32 | 16.2 | 48  | 45 | 44 | 50.5 | 199 | 81  | 53  | 5  | 18.4<br>18.3 | 18.00<br>17.87 | 5.015<br>4.985   | 5.000<br>4.970  |
| A0410 | 40 | 22.2 | 58  | 55 | 55 | 60   | 247 | 101 | 62  | 6  | 24.9<br>24.8 | 22.50<br>22.37 | 6.015<br>5.985   | 6.000<br>5.970  |
| A0510 | 45 | 25.2 | 63  | 61 | 61 | 62   | 266 | 112 | 75  | 6  | 28.5<br>28.3 | 28.00<br>27.71 | 8.018<br>7.982   | 8.000<br>7.964  |
| A0610 | 50 | 35.2 | 79  | 67 | 69 | 67   | 319 | 132 | 86  | 8  | 38.5<br>38.3 | 31.00<br>30.71 | 10.018<br>9.982  | 8.000<br>7.964  |
| A0730 | 60 | 40.2 | 95  | 81 | 84 | 84   | 358 | 153 | 103 | 8  | 43.5<br>43.3 | 33.00<br>32.71 | 12.021<br>11.979 | 8.000<br>7.964  |
| A0860 | 73 | 50.2 | 104 | 97 | 99 | 97   | 415 | 178 | 116 | 10 | 54.0<br>53.8 | 38.00<br>37.71 | 14.021<br>13.979 | 10.000<br>9.964 |

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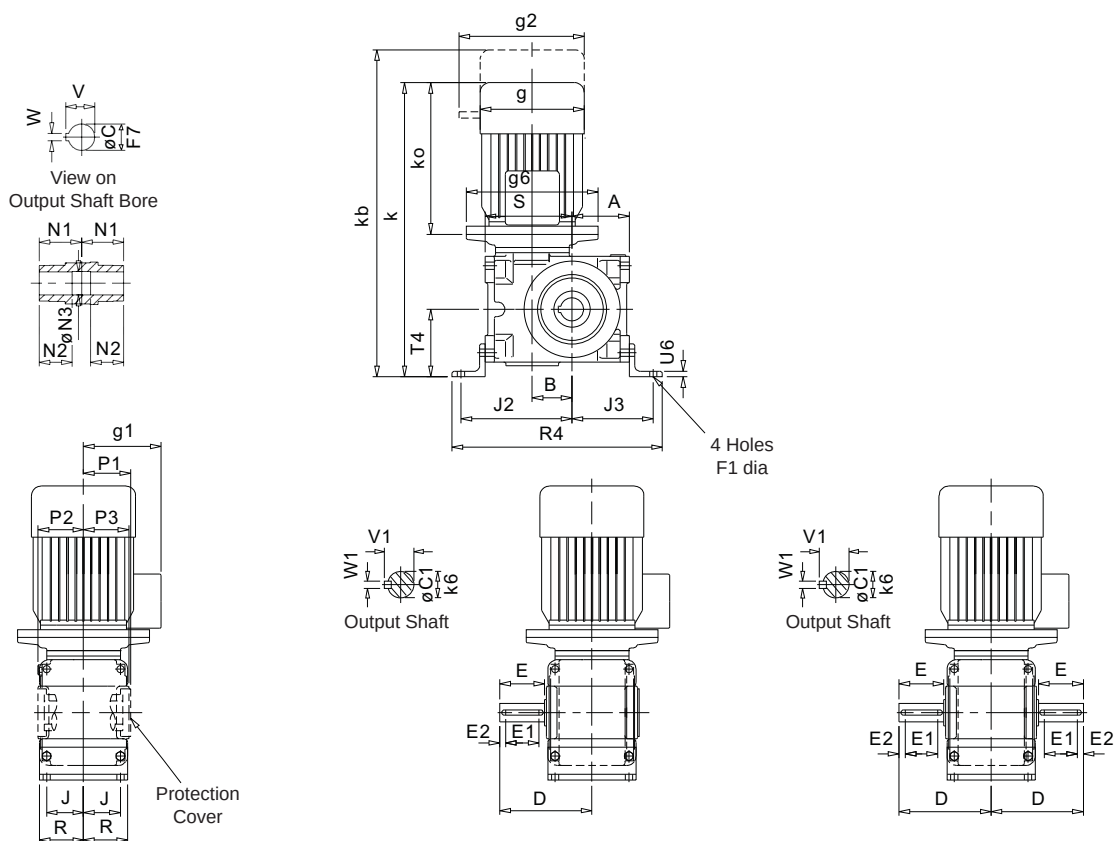
# SERIES AJ

## DIMENSIONS

### SINGLE REDUCTION

|   |   |  |  |   |  |  |  |   |   |
|---|---|--|--|---|--|--|--|---|---|
| A | 0 |  |  | 0 |  |  |  | H | M |
|---|---|--|--|---|--|--|--|---|---|

STANDARD UNIT END MOUNTED FEET



| SIZE  | A   | B    | øC | øC1 | D   | E  | E1 | E2  | F1   | J    | J2    | J3   | N1 | N2 |
|-------|-----|------|----|-----|-----|----|----|-----|------|------|-------|------|----|----|
| A0280 | 58  | 28.6 | 16 | 16  | 79  | 35 | 23 | 5.5 | 9    | 41.5 | 101.5 | 78.5 | 40 | 32 |
| A0410 | 66  | 41.3 | 22 | 20  | 98  | 45 | 34 | 6   | 11.5 | 49   | 127   | 92   | 50 | 40 |
| A0510 | 74  | 50.8 | 25 | 25  | 117 | 57 | 42 | 7   | 11.5 | 52   | 138   | 100  | 56 | 45 |
| A0610 | 87  | 60.3 | 35 | 28  | 140 | 70 | 55 | 7   | 11.5 | 56   | 162   | 117  | 64 | 50 |
| A0730 | 105 | 73.0 | 40 | 30  | 168 | 83 | 62 | 7   | 13.5 | 70   | 186   | 138  | 77 | 60 |
| A0860 | 117 | 85.7 | 50 | 35  | 200 | 98 | 80 | 8   | 17.5 | 79   | 217   | 156  | 93 | 73 |

| SIZE  | øN3  | P1  | P2 | P3 | R    | R4  | S   | T4   | U6 | V         | V1          | W             | W1           |
|-------|------|-----|----|----|------|-----|-----|------|----|-----------|-------------|---------------|--------------|
| A0280 | 16.2 | 48  | 45 | 44 | 50.5 | 199 | 81  | 73   | 5  | 18.4 18.3 | 18.00 17.87 | 5.015 4.985   | 5.000 4.970  |
| A0410 | 22.2 | 58  | 55 | 55 | 60   | 247 | 101 | 84.5 | 6  | 24.9 24.8 | 22.50 22.37 | 6.015 5.985   | 6.000 5.970  |
| A0510 | 25.2 | 63  | 61 | 61 | 62   | 266 | 112 | 83   | 6  | 28.5 28.3 | 28.00 27.71 | 8.018 7.982   | 8.000 7.964  |
| A0610 | 35.2 | 79  | 67 | 69 | 67   | 319 | 132 | 96   | 8  | 38.5 38.3 | 31.00 30.71 | 10.018 9.982  | 8.000 7.964  |
| A0730 | 40.2 | 95  | 81 | 84 | 84   | 358 | 153 | 114  | 8  | 43.5 43.3 | 33.00 32.71 | 12.021 11.979 | 8.000 7.964  |
| A0860 | 50.2 | 104 | 97 | 99 | 97   | 415 | 178 | 129  | 10 | 54.0 53.8 | 38.00 37.71 | 14.021 13.979 | 10.000 9.964 |

| MOTORS              |         | ALL SIZES |     |     |     |     | A0280 |     | A0410 |       | A0510 |     | A0610 |     | A0730 |     | A0860 |     |
|---------------------|---------|-----------|-----|-----|-----|-----|-------|-----|-------|-------|-------|-----|-------|-----|-------|-----|-------|-----|
| MOTOR<br>FRAME SIZE |         | ko        | g   | g1  | g2  | g6  | k     | kb  | k     | kb    | k     | kb  | k     | kb  | k     | kb  | k     | kb  |
|                     | 63      | 185       | 122 | 101 | 160 | 140 | 334   | 376 | -     | -     | -     | -   | -     | -   | -     | -   | -     | -   |
|                     | 71      | 210       | 137 | 107 | 167 | 160 | 360   | 401 | 376.5 | 417.5 | 393   | 434 | -     | -   | -     | -   | -     | -   |
|                     | 80      | 230       | 158 | 118 | 190 | 200 | -     | -   | 401.5 | 451.5 | 413   | 463 | 440   | 490 | 482   | 532 | -     | -   |
|                     | 90S/L   | 270       | 177 | 149 | 218 | 200 | -     | -   | -     | -     | 453   | 512 | 480   | 539 | 522   | 581 | 550   | 609 |
|                     | 100/112 | 340       | 197 | 159 | 238 | 250 | -     | -   | -     | -     | -     | -   | 544   | 622 | 592   | 660 | 620   | 688 |
|                     | 132     | 402       | 253 | 184 | 288 | 300 | -     | -   | -     | -     | -     | -   | -     | -   | -     | -   | 689   | 760 |

# SERIES AJ

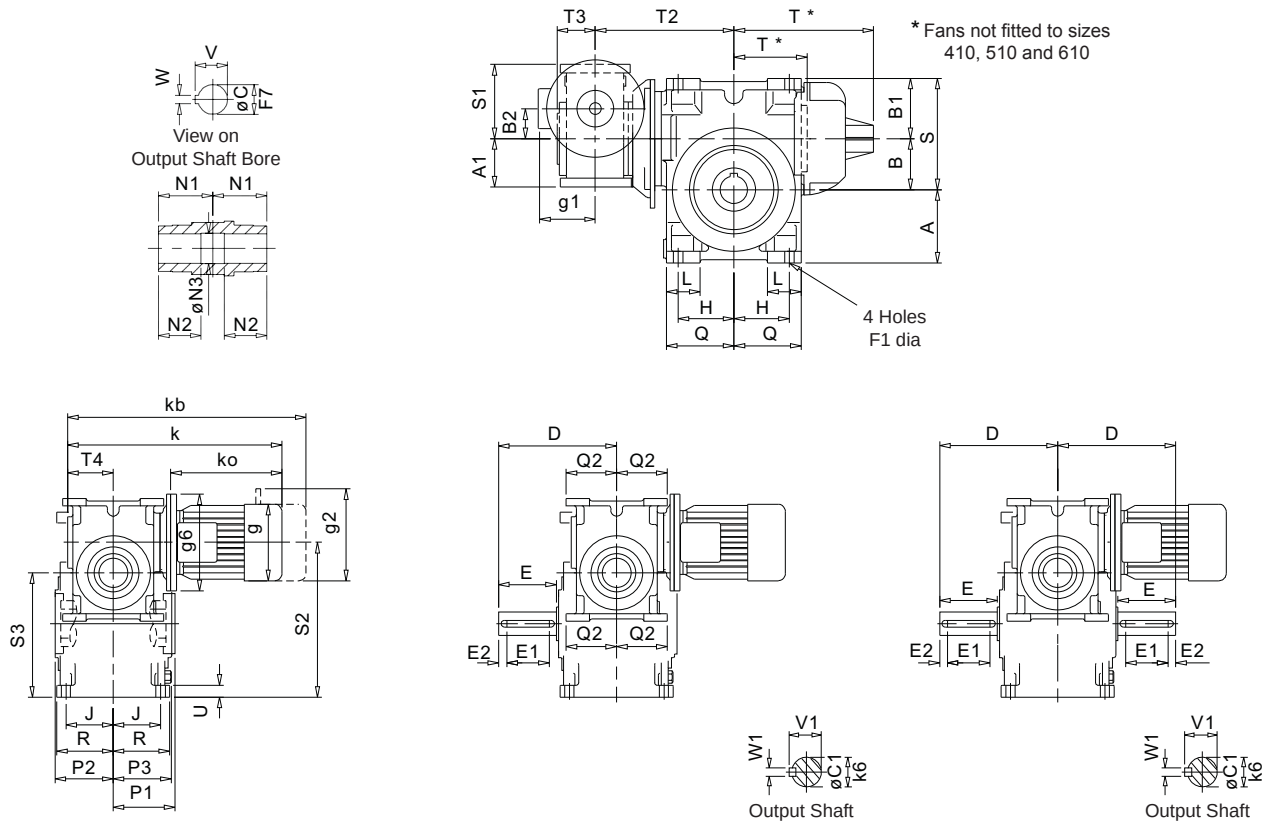
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## DIMENSIONS

### DOUBLE REDUCTION

|   |   |  |  |   |  |  |  |   |   |
|---|---|--|--|---|--|--|--|---|---|
| A | 0 |  |  | 0 |  |  |  | W | N |
|---|---|--|--|---|--|--|--|---|---|

## STANDARD UNIT



| SIZE  | A   | A1 | B    | B1   | B2   | øC | øC1 | D   | E  | E1 | E2 | F1   | H    | J  | L  | N1 | N2 | øN3  | P1  |
|-------|-----|----|------|------|------|----|-----|-----|----|----|----|------|------|----|----|----|----|------|-----|
| A0280 | 66  | 58 | 41.3 | 59.7 | 28.6 | 22 | 20  | 98  | 45 | 34 | 6  | 11.5 | 58.5 | 49 | 32 | 50 | 40 | 22.2 | 58  |
| A0410 | 74  | 58 | 50.8 | 61.2 | 28.6 | 25 | 25  | 117 | 57 | 42 | 7  | 11.5 | 57   | 52 | 35 | 56 | 45 | 25.2 | 63  |
| A0610 | 87  | 66 | 60.3 | 71.7 | 41.3 | 35 | 28  | 140 | 70 | 55 | 7  | 11.5 | 66   | 56 | 40 | 64 | 50 | 35.2 | 79  |
| A0730 | 105 | 66 | 73.0 | 80   | 41.3 | 40 | 30  | 168 | 83 | 62 | 7  | 13.5 | 81   | 70 | 45 | 77 | 60 | 40.2 | 95  |
| A0860 | 117 | 74 | 85.7 | 92.3 | 50.8 | 50 | 35  | 200 | 98 | 80 | 8  | 17.5 | 90   | 79 | 55 | 93 | 73 | 50.2 | 104 |

| SIZE  | P2 | P3 | Q   | Q2   | R  | S   | S1  | S2    | S3    | T   | T2  | T3 | T4 | U  | V            | V1             | W                | W1              |
|-------|----|----|-----|------|----|-----|-----|-------|-------|-----|-----|----|----|----|--------------|----------------|------------------|-----------------|
| A0410 | 55 | 55 | 69  | 61.5 | 60 | 101 | 81  | 135.9 | 107.3 | 62  | 126 | 48 | 53 | 10 | 24.9<br>24.8 | 22.50<br>22.37 | 6.015<br>5.985   | 6.000<br>5.970  |
| A0510 | 61 | 61 | 67  | 61.5 | 62 | 112 | 81  | 153.4 | 124.8 | 75  | 143 | 48 | 53 | 12 | 28.5<br>28.3 | 28.00<br>27.71 | 8.018<br>7.982   | 8.000<br>7.964  |
| A0610 | 69 | 67 | 80  | 69   | 67 | 132 | 101 | 188.6 | 147.3 | 86  | 171 | 58 | 62 | 14 | 38.5<br>38.3 | 31.00<br>30.71 | 10.018<br>9.982  | 8.000<br>7.964  |
| A0730 | 84 | 81 | 95  | 69   | 84 | 153 | 101 | 219.6 | 178   | 197 | 192 | 58 | 62 | 16 | 43.5<br>43.3 | 33.00<br>32.71 | 12.021<br>11.979 | 8.000<br>7.964  |
| A0860 | 99 | 97 | 108 | 67   | 97 | 178 | 112 | 253.5 | 202.7 | 227 | 208 | 63 | 75 | 18 | 54.0<br>53.8 | 38.00<br>37.71 | 14.021<br>13.979 | 10.000<br>9.964 |

[illegible]

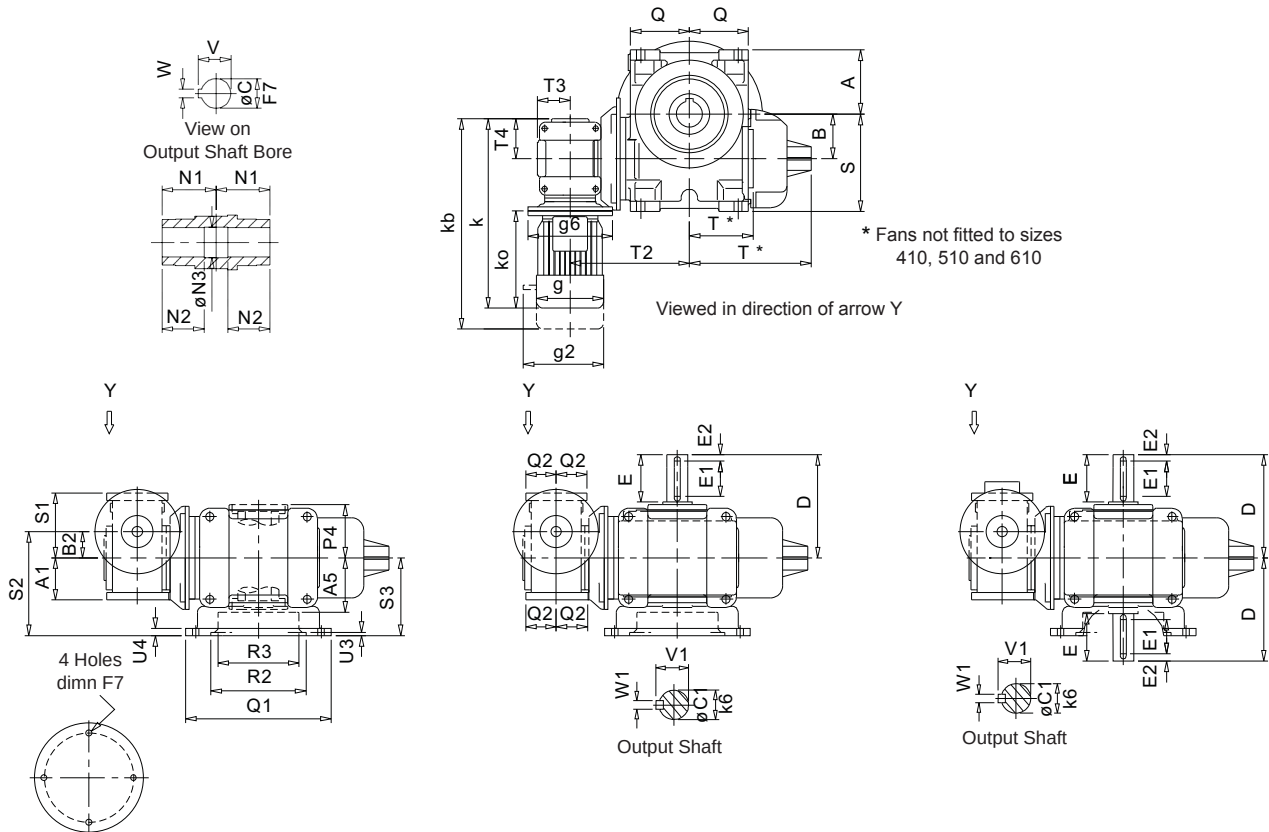
# SERIES AJ

## DIMENSIONS

### DOUBLE REDUCTION

|   |   |  |  |   |  |  |   |   |
|---|---|--|--|---|--|--|---|---|
| A | 0 |  |  | 0 |  |  | F | N |
|---|---|--|--|---|--|--|---|---|

#### STANDARD UNIT FLANGE MOUNTED



Output Flange Bolt Hole Positions (All Sizes)

| SIZE  | A   | A1 | A5  | B    | B2   | øC | øC1 | D   | E  | E1 | E2 | F7               | N1 | N2 | øN3  | P4 | Q   | Q1  |
|-------|-----|----|-----|------|------|----|-----|-----|----|----|----|------------------|----|----|------|----|-----|-----|
| A0410 | 66  | 58 | 60  | 41.3 | 28.6 | 22 | 20  | 98  | 45 | 34 | 6  | ø9 on 115 PCD    | 50 | 40 | 22.2 | 55 | 69  | 140 |
| A0510 | 74  | 58 | 65  | 50.8 | 28.6 | 25 | 25  | 117 | 57 | 42 | 7  | ø9 on 130 PCD    | 56 | 45 | 25.2 | 61 | 67  | 160 |
| A0610 | 87  | 66 | 71  | 60.3 | 41.3 | 35 | 28  | 140 | 70 | 55 | 7  | ø11 on 165 PCD   | 64 | 50 | 35.2 | 69 | 80  | 200 |
| A0730 | 105 | 66 | 91  | 73.0 | 41.3 | 40 | 30  | 168 | 83 | 62 | 7  | ø13.5 on 215 PCD | 77 | 60 | 40.2 | 84 | 95  | 250 |
| A0860 | 117 | 74 | 100 | 85.7 | 50.8 | 50 | 35  | 200 | 98 | 80 | 8  | ø13.5 on 215 PCD | 93 | 73 | 50.2 | 99 | 108 | 250 |

| SIZE  | Q2   | R2                 | R3  | S   | S1  | S2    | S3  | T   | T2  | T3 | T4 | U3  | U4 | V            | V1             | W                | W1              |
|-------|------|--------------------|-----|-----|-----|-------|-----|-----|-----|----|----|-----|----|--------------|----------------|------------------|-----------------|
| A0410 | 61.5 | 95.035<br>95.000   | 72  | 101 | 81  | 108.6 | 80  | 62  | 126 | 48 | 53 | 3.5 | 8  | 24.9<br>24.8 | 22.50<br>22.37 | 6.015<br>5.985   | 6.000<br>5.970  |
| A0510 | 61.5 | 110.035<br>110.000 | 88  | 112 | 81  | 118.6 | 90  | 75  | 143 | 48 | 53 | 4   | 9  | 28.5<br>28.3 | 28.00<br>27.71 | 8.018<br>7.982   | 8.000<br>7.964  |
| A0610 | 69   | 130.040<br>130.000 | 110 | 132 | 101 | 146.3 | 105 | 86  | 171 | 58 | 62 | 4.5 | 10 | 38.5<br>38.3 | 31.00<br>30.71 | 10.018<br>9.982  | 8.000<br>7.964  |
| A0730 | 69   | 180.040<br>180.000 | 136 | 153 | 101 | 161.3 | 120 | 197 | 192 | 58 | 62 | 5   | 12 | 43.5<br>43.3 | 33.00<br>32.71 | 12.021<br>11.979 | 8.000<br>7.964  |
| A0860 | 67   | 180.040<br>180.000 | 150 | 178 | 112 | 182.8 | 132 | 227 | 208 | 63 | 75 | 5   | 12 | 54.0<br>53.8 | 38.00<br>37.71 | 14.021<br>13.979 | 10.000<br>9.964 |

| MOTORS                 |       | ALL SIZES |     |     |     |     | A0410 |      | A0510 |     | A0610 |      | A0730 |      | A0860 |     |
|------------------------|-------|-----------|-----|-----|-----|-----|-------|------|-------|-----|-------|------|-------|------|-------|-----|
|                        |       | ko        | g   | g1  | g2  | g6  | k     | kb   | k     | kb  | k     | kb   | k     | kb   | k     | kb  |
| MOTOR<br>FRAME<br>SIZE | 63    | 185       | 122 | 101 | 160 | 140 | 314   | 356  | 314   | 356 | -     | -    | -     | -    | -     | -   |
|                        | 71    | 210       | 137 | 107 | 167 | 160 | 340*  | 381* | 340   | 381 | 354   | 395  | 354   | 395  | 385   | 426 |
|                        | 80    | 230       | 158 | 118 | 190 | 200 | -     | -    | -     | -   | 379*  | 429* | 379*  | 429* | 405   | 455 |
|                        | 90S/L | 270       | 177 | 149 | 218 | 200 | -     | -    | -     | -   | -     | -    | -     | -    | 445   | 504 |

\* When motor shaft vertically up these motors cannot be fitted

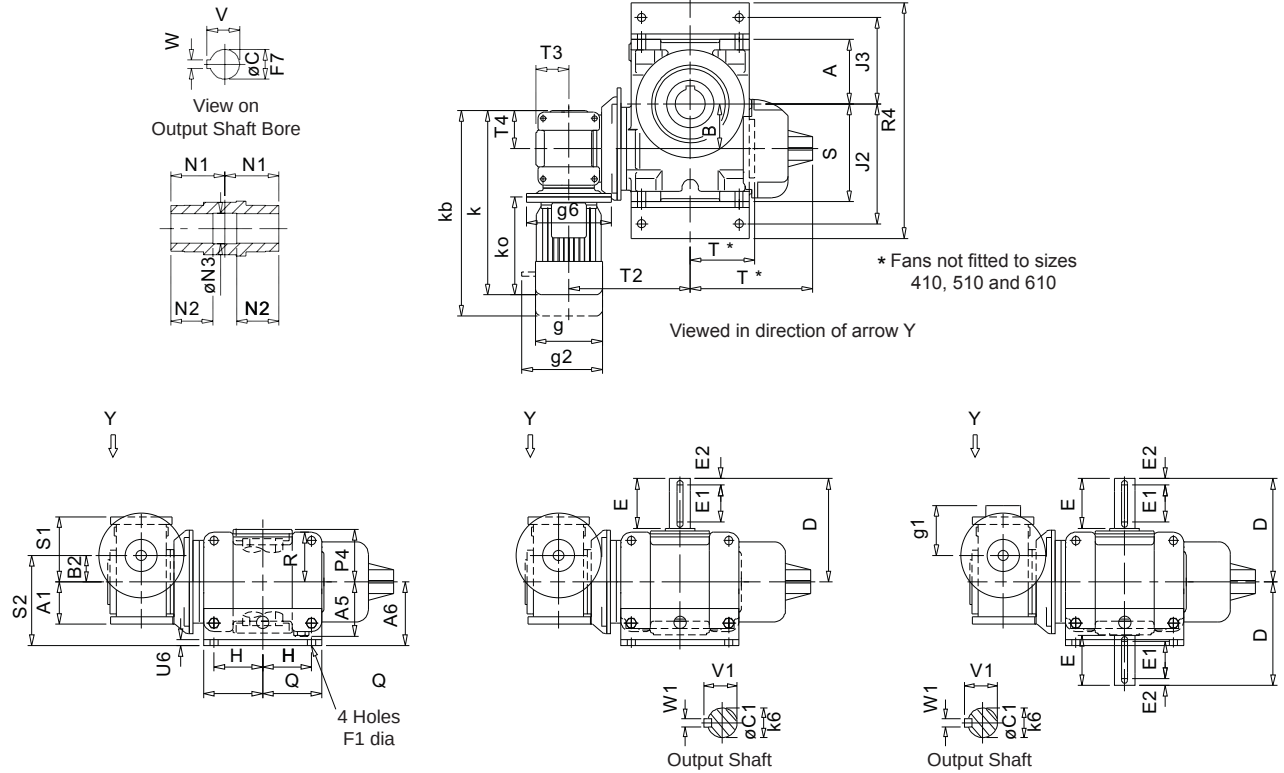
# SERIES AJ

## DIMENSIONS

### DOUBLE REDUCTION

|   |   |  |  |   |  |  |   |   |
|---|---|--|--|---|--|--|---|---|
| A | 0 |  |  | 0 |  |  | G | N |
|---|---|--|--|---|--|--|---|---|

STANDARD UNIT SIDE MOUNTED FEET



| SIZE  | A   | A1 | A5 | A6  | B    | B2   | ØC | ØC1 | D   | E  | E1 | E2 | F1   | H    | J2  | J3  | N1 | N2 |
|-------|-----|----|----|-----|------|------|----|-----|-----|----|----|----|------|------|-----|-----|----|----|
| A0280 | 66  | 58 | 55 | 75  | 41.3 | 28.6 | 22 | 20  | 98  | 45 | 34 | 6  | 11.5 | 58.5 | 127 | 92  | 50 | 40 |
| A0410 | 74  | 58 | 61 | 78  | 50.8 | 28.6 | 25 | 25  | 117 | 57 | 42 | 7  | 11.5 | 57   | 138 | 100 | 56 | 45 |
| A0610 | 87  | 66 | 67 | 86  | 60.3 | 41.3 | 35 | 28  | 140 | 70 | 55 | 7  | 11.5 | 66   | 162 | 117 | 64 | 50 |
| A0730 | 105 | 66 | 81 | 103 | 73.0 | 41.3 | 40 | 30  | 168 | 83 | 62 | 7  | 13.5 | 81   | 186 | 138 | 77 | 60 |
| A0860 | 117 | 74 | 97 | 118 | 85.7 | 50.8 | 50 | 35  | 200 | 98 | 80 | 8  | 17.5 | 90   | 217 | 156 | 93 | 73 |

| SIZE  | ØN3  | P4 | Q   | R  | S   | S1  | S2    | T   | T2  | T3 | T4 | U6 | V            | V1             | W                | W1              |
|-------|------|----|-----|----|-----|-----|-------|-----|-----|----|----|----|--------------|----------------|------------------|-----------------|
| A0280 | 22.2 | 55 | 69  | 60 | 101 | 81  | 103.6 | 62  | 126 | 48 | 53 | 6  | 24.9<br>24.8 | 22.50<br>22.37 | 6.015<br>5.985   | 6.000<br>5.970  |
| A0410 | 25.2 | 61 | 67  | 62 | 112 | 81  | 106.6 | 75  | 143 | 48 | 53 | 6  | 28.5<br>28.3 | 28.00<br>27.71 | 8.018<br>7.982   | 8.000<br>7.964  |
| A0610 | 35.2 | 69 | 80  | 67 | 132 | 101 | 127.3 | 86  | 171 | 58 | 62 | 8  | 38.5<br>38.3 | 31.00<br>30.71 | 10.018<br>9.982  | 8.000<br>7.964  |
| A0730 | 40.2 | 84 | 95  | 84 | 153 | 101 | 144.3 | 197 | 192 | 58 | 62 | 8  | 43.5<br>43.3 | 33.00<br>32.71 | 12.021<br>11.979 | 8.000<br>7.964  |
| A0860 | 50.2 | 99 | 108 | 97 | 178 | 112 | 168.8 | 227 | 208 | 63 | 75 | 10 | 54.0<br>53.8 | 38.00<br>37.71 | 14.021<br>13.979 | 10.000<br>9.964 |

| MOTORS                 |       | ALL SIZES |     |     |     |     | A0410 |      | A0510 |     | A0610 |      | A0730 |     | A0860 |     |
|------------------------|-------|-----------|-----|-----|-----|-----|-------|------|-------|-----|-------|------|-------|-----|-------|-----|
|                        |       | ko        | g   | g1  | g2  | g6  | k     | kb   | k     | kb  | k     | kb   | k     | kb  | k     | kb  |
| MOTOR<br>FRAME<br>SIZE | 63    | 185       | 122 | 101 | 160 | 140 | 314*  | 356* | 314   | 356 | -     | -    | -     | -   | -     | -   |
|                        | 71    | 210       | 137 | 107 | 167 | 160 | 340*  | 381* | 340   | 381 | 354   | 395  | 354   | 395 | 385   | 426 |
|                        | 80    | 230       | 158 | 118 | 190 | 200 | -     | -    | -     | -   | 379*  | 429* | 379   | 429 | 405   | 455 |
|                        | 90S/L | 270       | 177 | 149 | 218 | 200 | -     | -    | -     | -   | -     | -    | -     | -   | 445   | 504 |

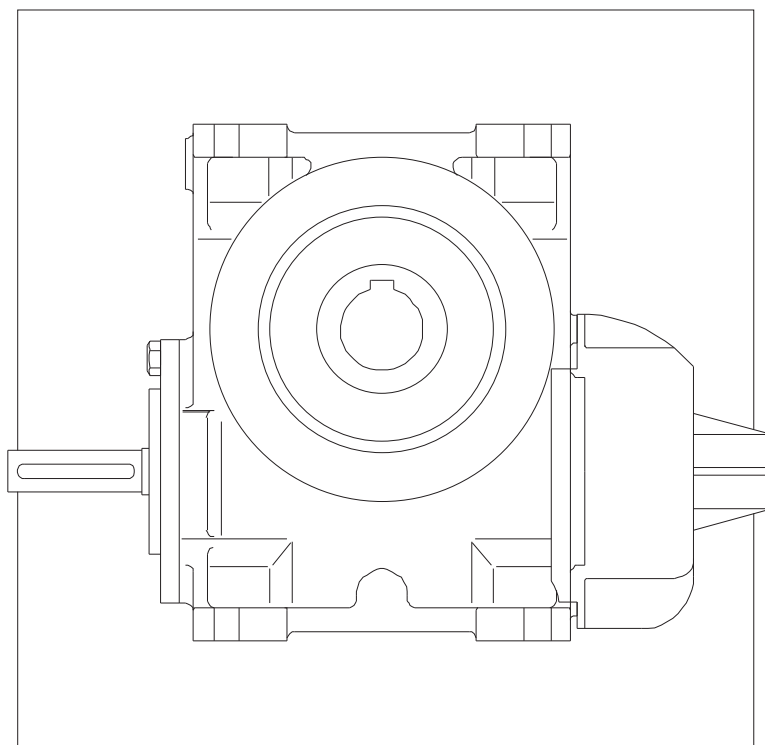
\* When motor shaft vertically up these motors cannot be fitted

**SERIES AJ**

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**REDUCER**

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**REDUCER**  
**SERIES AJ**

# SERIES AJ

## OVERHUNG LOADS (NEWTONS) ON OUTPUT SHAFTS

### Maximum permissible overhung loads

When a sprocket, gear etc. is mounted on the shaft a calculation, as below, must be made to determine the overhung load on the shaft, and the results compared to the maximum permissible overhung loads tabulated. Overhung loads can be reduced by increasing the diameter to the sprocket, gear, etc. If the maximum permissible overhung load is exceeded, the sprocket, gear, etc. should be mounted on a separate shaft, flexibly coupled and supported in its own bearings, or the gear unit shaft should be extended to run in an outboard bearing. Alternatively, a larger gear is often a less expensive solution.

Permissible overhung loads vary according to the direction of rotation. The values tabulated are for the most unfavourable direction with the unit transmitting full rated power and the load P applied midway along the shaft extension. Hence they can sometimes be increased for a more favourable direction of rotation, or if the power transmitted is less than the rated capacity of the gear unit, or if the load is applied nearer to the gear unit case. Refer to our Application Engineers for further details. In any event, the sprocket, gear etc. should be positioned as close as possible to the gear unit case in order to reduce bearing loads and shaft stresses, and to prolong life.

Overhung loads (Newtons)

$$P = \frac{\text{kW} \times 9,500,000 \times K}{N \times R}$$

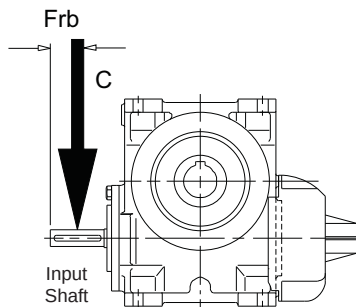
where

- P = Equivalent overhung load (Newtons)  
 kW = Power transmitted by the shaft (kilowatts)  
 N = Speed of shaft (rev/min)  
 R = Pitch radius of sprocket (mm)  
 K = Factor

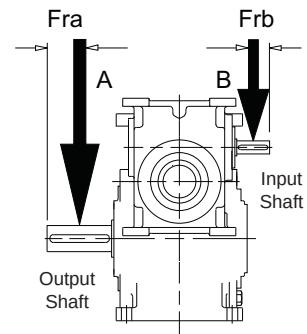
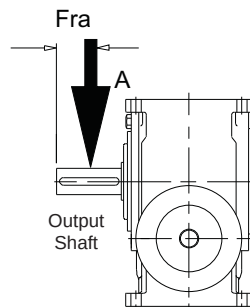
| Overhung member        | K (factor) |
|------------------------|------------|
| Chain sprocket*        | 1.00       |
| Spur or helical pinion | 1.25       |
| Vee belt sheave        | 1.50       |
| Flat belt pulley       | 2.00       |

\* If multistrand chain drives are equally loaded and the outer strand is further than dimension A output or B or C input refer to our Application Engineers.

Note: 1 Newton = 0.10197 kg = 0.2248 lbs.



Single reduction  
(worm)



Double reduction  
(worm/worm)

### Distance midway along the shaft extension

| Size of Unit | Dimension A (mm) | Dimension B (mm) | Dimension C (mm) |
|--------------|------------------|------------------|------------------|
| A0280        | 17.5             | -                | 14.5             |
| A0410        | 22.5             | 14.5             | 20.5             |
| A0510        | 28.5             | 14.5             | 24               |
| A0610        | 35               | 20.5             | 28.5             |
| A0730        | 41.5             | 20.5             | 35               |
| A0860        | 49               | 24               | 41.5             |

# SERIES AJ

## OVERHUNG LOADS (NEWTONS) & AXIAL THRUSTS (NEWTONS)

### OVERHUNG LOADS (Fra) 7 AXIAL THRUST CAPACITIES ON OUTPUT SHAFT

|       |           | OUTPUT REV / MIN |       |       |       |       |       |               |
|-------|-----------|------------------|-------|-------|-------|-------|-------|---------------|
|       |           | 580              | 290   | 190   | 145   | 95    | 70    | 15 &<br>UNDER |
| A0280 | OHL (Fra) | 1410             | 1400  | 1390  | 1390  | 1380  | 1380  | 1330          |
|       | THRUST    | 4780             | 4920  | 5010  | 5020  | 5080  | 5080  | 4320          |
| A0410 | OHL (Fra) | 2760             | 2750  | 2750  | 2740  | 2720  | 2700  | 2180          |
|       | THRUST    | 6520             | 6110  | 6110  | 6110  | 6170  | 6170  | 4660          |
| A0510 | OHL (Fra) | 3500             | 3490  | 3490  | 3470  | 3470  | 3440  | 3420          |
|       | THRUST    | 8040             | 7780  | 7770  | 7470  | 7470  | 7470  | 6600          |
| A0610 | OHL (Fra) | 6130             | 5800  | 5800  | 5530  | 5530  | 5520  | 4570          |
|       | THRUST    | 7480             | 7160  | 7160  | 7060  | 6750  | 6700  | 5760          |
| A0730 | OHL (Fra) | 6960             | 6920  | 6920  | 6900  | 6860  | 6860  | 6790          |
|       | THRUST    | 12200            | 11100 | 11100 | 11100 | 11100 | 10800 | 10500         |
| A0860 | OHL (Fra) | 8860             | 8820  | 8820  | 8810  | 8770  | 6920  | 6920          |
|       | THRUST    | 14100            | 12300 | 14300 | 14600 | 14500 | 14800 | 12000         |

### REDUCER OVERHUNG LOADS (Frb) ON INPUT SHAFT

at 1450 rev / min

|                          |      | SIZE  |       |       |       |       |       |       |
|--------------------------|------|-------|-------|-------|-------|-------|-------|-------|
|                          |      | RATIO |       |       |       |       |       |       |
|                          |      |       | A0280 | A0410 | A0510 | A0610 | A0730 | A0860 |
| SINGLE REDUCTION<br>UNIT | 5    |       | 300   | 1030  | 615   | 705   | 1840  | 1400  |
|                          | 7.5  |       | 340   | 860   | 945   | 995   | 1210  | 1790  |
|                          | 10   |       | 305   | 380   | 665   | 905   | 845   | 1630  |
|                          | 12.5 |       | 650   | 820   | 855   | 650   | 965   | 890   |
|                          | 15   |       | 400   | 890   | 305   | 725   | 905   | 1230  |
|                          | 20   |       | 520   | 335   | 1040  | 825   | 605   | 796   |
|                          | 25   |       | 435   | 635   | 1210  | 1130  | 1430  | 2060  |
|                          | 30   |       | 560   | 660   | 725   | 1090  | 803   | 1330  |
|                          | 40   |       | 650   | 550   | 405   | 830   | 645   | 1240  |
|                          | 50   |       | 670   | 410   | 560   | 760   | 512   | 935   |
|                          | 60   |       | 680   | 835   | 525   | 665   | 825   | 900   |
|                          | 70   |       | 690   | 565   | 485   | 955   | 1180  | 1530  |

|                          |      | SIZE  |       |       |       |       |
|--------------------------|------|-------|-------|-------|-------|-------|
| RATIO                    |      | A0410 | A0510 | A0610 | A0730 | A0860 |
| SINGLE REDUCTION<br>UNIT | 75   | 425   | 310   | 1100  | 990   | 785   |
|                          | 150  | 485   | 400   | 680   | 650   | 1050  |
|                          | 200  | 515   | 450   | 700   | 690   | 1150  |
|                          | 300  | 680   | 660   | 662   | 590   | 1430  |
|                          | 400  | 695   | 660   | 690   | 655   | 1530  |
|                          | 600  | 695   | 665   | 710   | 705   | 1610  |
|                          | 800  | 690   | 650   | 895   | 850   | 845   |
|                          | 1200 | 690   | 655   | 915   | 905   | 920   |
|                          | 1600 | 700   | 660   | 925   | 925   | 960   |
|                          | 2400 | 700   | 660   | 1020  | 990   | 855   |
|                          | 3000 | 700   | 665   | 1030  | 1020  | 885   |
|                          | 4200 | 700   | 665   | 715   | 705   | 785   |

# SERIES AJ

## RATINGS AT 2900 REV/MIN INPUT

|                  | NOMINAL RATIO | NOMINAL<br>OUTPUT SPEED<br>REV / MIN | CAPACITY   |                  | SIZE OF UNIT |       |       |       |       |       |
|------------------|---------------|--------------------------------------|------------|------------------|--------------|-------|-------|-------|-------|-------|
|                  |               |                                      |            |                  | A0280        | A0410 | A0510 | A0610 | A0730 | A0860 |
| SINGLE REDUCTION | 5.0           | 580.00                               | Mechanical | Input Power kW   | 0.98         | 2.21  | 4.69  | 7.03  | 10.10 | 17.40 |
|                  |               |                                      |            | Output Torque Nm | 15.          | 34.   | 68.   | 106.  | 161.  | 261.  |
|                  |               |                                      | Thermal    | Input Power kW   | 2.36         | 3.17  | 5.46  | 7.57  | 20.00 | 25.80 |
|                  |               |                                      |            | Output Torque Nm | 37.          | 49.   | 79.   | 115.  | 323.  | 389.  |
|                  |               |                                      |            | Efficiency %     | 88           | 88    | 91    | 92    | 93    | 94    |
|                  | 7.5           | 386.67                               | Mechanical | Input Power kW   | 0.89         | 1.97  | 3.36  | 5.16  | 7.83  | 11.90 |
|                  |               |                                      |            | Output Torque Nm | 18.          | 41.   | 72.   | 112.  | 172.  | 262.  |
|                  |               |                                      | Thermal    | Input Power kW   | 1.87         | 2.61  | 4.29  | 6.19  | 17.40 | 21.70 |
|                  |               |                                      |            | Output Torque Nm | 40.          | 55.   | 92.   | 135.  | 389.  | 485.  |
|                  |               |                                      |            | Efficiency %     | 85           | 86    | 88    | 90    | 92    | 92    |
|                  | 10.0          | 290.00                               | Mechanical | Input Power kW   | 0.82         | 1.97  | 3.41  | 4.63  | 6.58  | 10.50 |
|                  |               |                                      |            | Output Torque Nm | 23.          | 57.   | 102.  | 130.  | 203.  | 307.  |
|                  |               |                                      | Thermal    | Input Power kW   | 1.42         | 2.10  | 3.28  | 5.31  | 14.50 | 18.20 |
|                  |               |                                      |            | Output Torque Nm | 41.          | 61.   | 97.   | 150.  | 455.  | 535.  |
|                  |               |                                      |            | Efficiency %     | 82           | 84    | 86    | 88    | 91    | 92    |
|                  | 12.5          | 232.00                               | Mechanical | Input Power kW   | 0.74         | 1.83  | 3.03  | 4.74  | 7.08  | 9.61  |
|                  |               |                                      |            | Output Torque Nm | 24.          | 61.   | 105.  | 168.  | 259.  | 363.  |
|                  |               |                                      | Thermal    | Input Power kW   | 1.19         | 1.79  | 2.93  | 4.22  | 11.50 | 16.30 |
|                  |               |                                      |            | Output Torque Nm | 39.          | 60.   | 101.  | 149.  | 428.  | 626.  |
|                  |               |                                      |            | Efficiency %     | 78           | 81    | 84    | 86    | 89    | 91    |
|                  | 15.0          | 193.33                               | Mechanical | Input Power kW   | 0.68         | 1.76  | 2.73  | 4.09  | 6.35  | 9.59  |
|                  |               |                                      |            | Output Torque Nm | 25.          | 67.   | 109.  | 171.  | 267.  | 408.  |
|                  |               |                                      | Thermal    | Input Power kW   | 1.18         | 1.64  | 2.89  | 3.78  | 10.80 | 13.50 |
|                  |               |                                      |            | Output Torque Nm | 45.          | 62.   | 116.  | 157.  | 464.  | 579.  |
|                  |               |                                      |            | Efficiency %     | 78           | 79    | 84    | 84    | 88    | 89    |
|                  | 20.0          | 145.00                               | Mechanical | Input Power kW   | 0.59         | 1.36  | 2.58  | 4.09  | 4.80  | 7.18  |
|                  |               |                                      |            | Output Torque Nm | 27.          | 68.   | 131.  | 215.  | 264.  | 401.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.79         | 1.55  | 1.86  | 2.68  | 9.18  | 11.40 |
|                  |               |                                      |            | Output Torque Nm | 37.          | 78.   | 92.   | 137.  | 517.  | 646.  |
|                  |               |                                      |            | Efficiency %     | 68           | 78    | 75    | 78    | 86    | 87    |
|                  | 25.0          | 116.00                               | Mechanical | Input Power kW   | 0.53         | 1.33  | 2.17  | 3.40  | 4.81  | 6.85  |
|                  |               |                                      |            | Output Torque Nm | 29.          | 78.   | 132.  | 215.  | 321.  | 463.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.73         | 1.10  | 1.68  | 2.39  | 6.29  | 7.77  |
|                  |               |                                      |            | Output Torque Nm | 41.          | 63.   | 100.  | 148.  | 426.  | 529.  |
|                  |               |                                      |            | Efficiency %     | 66           | 69    | 72    | 75    | 81    | 82    |
|                  | 30.0          | 96.67                                | Mechanical | Input Power kW   | 0.44         | 1.17  | 1.80  | 2.75  | 4.08  | 6.13  |
|                  |               |                                      |            | Output Torque Nm | 27.          | 79.   | 128.  | 201.  | 320.  | 490.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.69         | 1.01  | 1.60  | 2.17  | 5.90  | 7.32  |
|                  |               |                                      |            | Output Torque Nm | 44.          | 67.   | 112.  | 155.  | 473.  | 590.  |
|                  |               |                                      |            | Efficiency %     | 63           | 67    | 71    | 72    | 79    | 81    |
|                  | 40.0          | 72.50                                | Mechanical | Input Power kW   | 0.35         | 0.88  | 1.38  | 2.05  | 2.99  | 4.51  |
|                  |               |                                      |            | Output Torque Nm | 25.          | 73.   | 123.  | 187.  | 297.  | 458.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.56         | 0.90  | 1.46  | 1.91  | 5.08  | 6.31  |
|                  |               |                                      |            | Output Torque Nm | 43.          | 75.   | 131.  | 173.  | 521.  | 654.  |
|                  |               |                                      |            | Efficiency %     | 54           | 63    | 68    | 69    | 75    | 77    |
|                  | 50.0          | 58.00                                | Mechanical | Input Power kW   | 0.27         | 0.71  | 1.07  | 1.62  | 2.36  | 3.44  |
|                  |               |                                      |            | Output Torque Nm | 23.          | 69.   | 110.  | 173.  | 282.  | 415.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.44         | 0.68  | 1.02  | 1.38  | 3.75  | 4.48  |
|                  |               |                                      |            | Output Torque Nm | 39.          | 65.   | 105.  | 145.  | 463.  | 552.  |
|                  |               |                                      |            | Efficiency %     | 51           | 59    | 63    | 64    | 73    | 73    |
|                  | 60.0          | 48.33                                | Mechanical | Input Power kW   | 0.20         | 0.53  | 0.86  | 1.34  | 1.90  | 2.79  |
|                  |               |                                      |            | Output Torque Nm | 17.          | 55.   | 100.  | 163.  | 256.  | 385.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.37         | 0.54  | 0.89  | 1.19  | 3.01  | 3.71  |
|                  |               |                                      |            | Output Torque Nm | 36.          | 55.   | 103.  | 143.  | 423.  | 525.  |
|                  |               |                                      |            | Efficiency %     | 44           | 52    | 59    | 61    | 68    | 70    |
|                  | 70.0          | 41.43                                | Mechanical | Input Power kW   | 0.16         | 0.41  | 0.64  | 1.03  | 1.55  | 2.42  |
|                  |               |                                      |            | Output Torque Nm | 14.          | 45.   | 79.   | 135.  | 227.  | 369.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.30         | 0.46  | 0.71  | 0.93  | 2.30  | 2.83  |
|                  |               |                                      |            | Output Torque Nm | 31.          | 52.   | 91.   | 118.  | 355.  | 439.  |
|                  |               |                                      |            | Efficiency %     | 39           | 48    | 54    | 55    | 64    | 66    |

# SERIES AJ

## RATINGS AT 2900 REV/MIN INPUT

|                  | NOMINAL RATIO | NOMINAL<br>OUTPUT SPEED<br>REV / MIN | CAPACITY   |                  | SIZE OF UNIT |       |       |       |       |
|------------------|---------------|--------------------------------------|------------|------------------|--------------|-------|-------|-------|-------|
|                  |               |                                      |            |                  | A0410        | A0510 | A0610 | A0730 | A0860 |
| SINGLE REDUCTION | 75.0          | 38.67                                | Mechanical | Input Power kW   | 0.75         | 0.90  | 1.76  | 1.94  | 4.13  |
|                  |               |                                      |            | Output Torque Nm | 123.         | 156.  | 314.  | 360.  | 742.  |
|                  |               |                                      | Thermal    | Input Power kW   | 1.00         | 1.66  | 2.33  | 3.06  | 4.49  |
|                  |               |                                      |            | Output Torque Nm | 169.         | 297.  | 425.  | 586.  | 809.  |
|                  |               |                                      |            | Efficiency %     | 66           | 69    | 69    | 74    | 78    |
|                  | 100.          | 29.00                                | Mechanical | Input Power kW   | 0.54         | 0.90  | 1.79  | 1.94  | 3.08  |
|                  |               |                                      |            | Output Torque Nm | 114.         | 191.  | 391.  | 471.  | 713.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.94         | 1.15  | 1.72  | 3.06  | 3.80  |
|                  |               |                                      |            | Output Torque Nm | 207.         | 246.  | 374.  | 765.  | 888.  |
|                  |               |                                      |            | Efficiency %     | 62           | 61    | 63    | 72    | 75    |
|                  | 125.          | 23.20                                | Mechanical | Input Power kW   | 0.57         | 0.90  | 1.50  | 1.94  | 2.99  |
|                  |               |                                      |            | Output Torque Nm | 137.         | 228.  | 386.  | 557.  | 822.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.69         | 1.04  | 1.52  | 2.29  | 2.77  |
|                  |               |                                      |            | Output Torque Nm | 167.         | 266.  | 392.  | 666.  | 757.  |
|                  |               |                                      |            | Efficiency %     | 55           | 58    | 60    | 66    | 69    |
|                  | 150.          | 19.33                                | Mechanical | Input Power kW   | 0.52         | 0.74  | 1.20  | 1.73  | 2.65  |
|                  |               |                                      |            | Output Torque Nm | 149.         | 229.  | 384.  | 597.  | 943.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.82         | 1.42  | 1.88  | 2.03  | 2.83  |
|                  |               |                                      |            | Output Torque Nm | 246.         | 459.  | 628.  | 707.  | 1010. |
|                  |               |                                      |            | Efficiency %     | 57           | 62    | 62    | 69    | 71    |
|                  | 200.          | 14.50                                | Mechanical | Input Power kW   | 0.35         | 0.76  | 1.17  | 1.33  | 1.98  |
|                  |               |                                      |            | Output Torque Nm | 123.         | 285.  | 448.  | 582.  | 892.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.79         | 0.94  | 1.37  | 2.03  | 2.43  |
|                  |               |                                      |            | Output Torque Nm | 311.         | 357.  | 538.  | 919.  | 1120. |
|                  |               |                                      |            | Efficiency %     | 52           | 54    | 55    | 65    | 67    |
|                  | 225.          | 12.89                                | Mechanical | Input Power kW   | 0.44         | 0.61  | 1.02  | 1.36  | 2.03  |
|                  |               |                                      |            | Output Torque Nm | 162.         | 243.  | 416.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.75         | 1.29  | 1.74  | 1.58  | 2.44  |
|                  |               |                                      |            | Output Torque Nm | 296.         | 548.  | 758.  | 709.  | 1160. |
|                  |               |                                      |            | Efficiency %     | 53           | 58    | 57    | 64    | 68    |
|                  | 250.          | 11.60                                | Mechanical | Input Power kW   | 0.40         | 0.65  | 1.03  | 1.20  | 1.81  |
|                  |               |                                      |            | Output Torque Nm | 163.         | 282.  | 463.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.57         | 0.85  | 1.22  | 1.66  | 1.81  |
|                  |               |                                      |            | Output Torque Nm | 241.         | 379.  | 564.  | 867.  | 947.  |
|                  |               |                                      |            | Efficiency %     | 47           | 51    | 52    | 58    | 61    |
|                  | 300.          | 9.67                                 | Mechanical | Input Power kW   | 0.41         | 0.54  | 0.84  | 1.06  | 1.66  |
|                  |               |                                      |            | Output Torque Nm | 174.         | 257.  | 445.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.77         | 0.85  | 1.61  | 1.50  | 1.62  |
|                  |               |                                      |            | Output Torque Nm | 365.         | 426.  | 918.  | 885.  | 924.  |
|                  |               |                                      |            | Efficiency %     | 45           | 49    | 55    | 61    | 60    |
|                  | 350.          | 8.29                                 | Mechanical | Input Power kW   | 0.34         | 0.54  | 0.88  | 0.95  | 0.83  |
|                  |               |                                      |            | Output Torque Nm | 175.         | 304.  | 498.  | 603.  | 437.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.53         | 0.79  | 1.14  | 1.55  | 1.16  |
|                  |               |                                      |            | Output Torque Nm | 293.         | 459.  | 676.  | 1040. | 651.  |
|                  |               |                                      |            | Efficiency %     | 43           | 47    | 48    | 53    | 48    |
|                  | 375.          | 7.73                                 | Mechanical | Input Power kW   | 0.15         | 0.22  | 0.40  | 0.53  | 1.39  |
|                  |               |                                      |            | Output Torque Nm | 54.          | 94.   | 161.  | 271.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.34         | 0.50  | 0.74  | 0.98  | 1.57  |
|                  |               |                                      |            | Output Torque Nm | 160.         | 262.  | 360.  | 578.  | 1080. |
|                  |               |                                      |            | Efficiency %     | 29           | 36    | 33    | 42    | 57    |
|                  | 400.          | 7.25                                 | Mechanical | Input Power kW   | 0.26         | 0.55  | 0.80  | 0.84  | 1.32  |
|                  |               |                                      |            | Output Torque Nm | 130.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.75         | 0.85  | 1.17  | 1.50  | 1.62  |
|                  |               |                                      |            | Output Torque Nm | 464.         | 505.  | 772.  | 1150. | 1200. |
|                  |               |                                      |            | Efficiency %     | 38           | 43    | 49    | 57    | 56    |
|                  | 450.          | 6.44                                 | Mechanical | Input Power kW   | 0.30         | 0.45  | 0.73  | 0.83  | 1.21  |
|                  |               |                                      |            | Output Torque Nm | 174.         | 286.  | 454.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.50         | 0.77  | 1.06  | 1.46  | 1.48  |
|                  |               |                                      |            | Output Torque Nm | 311.         | 519.  | 713.  | 1140. | 1190. |
|                  |               |                                      |            | Efficiency %     | 40           | 45    | 44    | 51    | 55    |
|                  | 500.          | 5.80                                 | Mechanical | Input Power kW   | 0.32         | 0.48  | 0.69  | 0.75  | 1.17  |
|                  |               |                                      |            | Output Torque Nm | 187.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.55         | 0.80  | 1.05  | 1.46  | 1.56  |
|                  |               |                                      |            | Output Torque Nm | 359.         | 561.  | 810.  | 1280. | 1330. |
|                  |               |                                      |            | Efficiency %     | 35           | 39    | 45    | 50    | 49    |
|                  | 600.          | 4.83                                 | Mechanical | Input Power kW   | 0.29         | 0.42  | 0.60  | 0.66  | 1.03  |
|                  |               |                                      |            | Output Torque Nm | 186.         | 305.  | 482.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.52         | 0.79  | 0.98  | 1.38  | 1.48  |
|                  |               |                                      |            | Output Torque Nm | 381.         | 640.  | 856.  | 1410. | 1460. |
|                  |               |                                      |            | Efficiency %     | 32           | 37    | 42    | 48    | 47    |
|                  | 625.          | 4.64                                 | Mechanical | Input Power kW   | 0.28         | 0.41  | 0.63  | 0.68  | 1.00  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.53         | 0.78  | 1.07  | 1.06  | 1.47  |
|                  |               |                                      |            | Output Torque Nm | 415.         | 647.  | 946.  | 1030. | 1480. |
|                  |               |                                      |            | Efficiency %     | 33           | 37    | 39    | 43    | 46    |
|                  | 700.          | 4.14                                 | Mechanical | Input Power kW   | 0.19         | 0.18  | 0.42  | 0.41  | 0.65  |
|                  |               |                                      |            | Output Torque Nm | 109.         | 105.  | 328.  | 358.  | 617.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.30         | 0.33  | 0.60  | 0.44  | 0.63  |
|                  |               |                                      |            | Output Torque Nm | 217.         | 246.  | 527.  | 398.  | 594.  |
|                  |               |                                      |            | Efficiency %     | 24           | 24    | 35    | 37    | 42    |
|                  | 750.          | 3.87                                 | Mechanical | Input Power kW   | 0.26         | 0.36  | 0.57  | 0.60  | 0.89  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.50         | 0.76  | 1.00  | 1.06  | 1.43  |
|                  |               |                                      |            | Output Torque Nm | 441.         | 740.  | 1000. | 1200. | 1690. |
|                  |               |                                      |            | Efficiency %     | 30           | 35    | 36    | 41    | 43    |
|                  | 800.          | 3.63                                 | Mechanical | Input Power kW   | 0.20         | 0.35  | 0.54  | 0.56  | 0.80  |
|                  |               |                                      |            | Output Torque Nm | 136.         | 282.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.56         | 0.59  | 1.13  | 0.88  | 1.28  |
|                  |               |                                      |            | Output Torque Nm | 546.         | 536.  | 1220. | 1050. | 1670. |
|                  |               |                                      |            | Efficiency %     | 27           | 31    | 35    | 42    | 46    |

# SERIES AJ

## RATINGS AT 2900 REV/MIN INPUT

|                  | NOMINAL RATIO | NOMINAL<br>OUTPUT SPEED<br>REV / MIN | CAPACITY   |                  | SIZE OF UNIT |       |       |        |       |
|------------------|---------------|--------------------------------------|------------|------------------|--------------|-------|-------|--------|-------|
|                  |               |                                      |            |                  | A0410        | A0510 | A0610 | A0730  | A0860 |
| SINGLE REDUCTION | 900.          | 3.22                                 | Mechanical | Input Power kW   | 0.23         | 0.32  | 0.51  | 0.54   | 0.77  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.49         | 0.72  | 0.98  | 0.98   | 1.38  |
|                  |               |                                      |            | Output Torque Nm | 497.         | 795.  | 1130. | 1260.  | 1900. |
|                  |               |                                      |            | Efficiency %     | 28           | 32    | 33    | 38     | 41    |
|                  | 1000.         | 2.90                                 | Mechanical | Input Power kW   | 0.23         | 0.33  | 0.47  | 0.51   | 0.72  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.54         | 0.59  | 1.01  | 0.88   | 1.28  |
|                  |               |                                      |            | Output Torque Nm | 567.         | 634.  | 1280. | 1190.  | 1900. |
|                  |               |                                      |            | Efficiency %     | 25           | 29    | 32    | 36     | 40    |
|                  | 1200.         | 2.42                                 | Mechanical | Input Power kW   | 0.21         | 0.29  | 0.43  | 0.45   | 0.64  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.51         | 0.59  | 0.95  | 0.88   | 1.28  |
|                  |               |                                      |            | Output Torque Nm | 604.         | 738.  | 1360. | 1390.  | 2220. |
|                  |               |                                      |            | Efficiency %     | 23           | 27    | 29    | 34     | 38    |
|                  | 1250.         | 2.32                                 | Mechanical | Input Power kW   | 0.20         | 0.28  | 0.41  | 0.44   | 0.64  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.44         | 0.48  | 0.    | 8 0.66 | 0.90  |
|                  |               |                                      |            | Output Torque Nm | 533.         | 601.  | 1310. | 1010.  | 1460. |
|                  |               |                                      |            | Efficiency %     | 23           | 27    | 30    | 33     | 36    |
|                  | 1400.         | 2.07                                 | Mechanical | Input Power kW   | 0.16         | 0.18  | 0.39  | 0.41   | 0.57  |
|                  |               |                                      |            | Output Torque Nm | 141.         | 162.  | 501.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.30         | 0.33  | 0.60  | 0.44   | 0.63  |
|                  |               |                                      |            | Output Torque Nm | 364.         | 380.  | 876.  | 679.   | 1080. |
|                  |               |                                      |            | Efficiency %     | 20           | 19    | 28    | 33     | 37    |
|                  | 1500.         | 1.93                                 | Mechanical | Input Power kW   | 0.19         | 0.25  | 0.38  | 0.39   | 0.57  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.44         | 0.48  | 0.88  | 0.66   | 0.90  |
|                  |               |                                      |            | Output Torque Nm | 606.         | 699.  | 1490. | 1180.  | 1710. |
|                  |               |                                      |            | Efficiency %     | 21           | 25    | 27    | 31     | 34    |
|                  | 1600.         | 1.81                                 | Mechanical | Input Power kW   | 0.16         | 0.21  | 0.33  | 0.39   | 0.54  |
|                  |               |                                      |            | Output Torque Nm | 136.         | 249.  | 411.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.48         | 0.59  | 0.88  | 0.88   | 1.20  |
|                  |               |                                      |            | Output Torque Nm | 685.         | 929.  | 1530. | 1730.  | 2570. |
|                  |               |                                      |            | Efficiency %     | 17           | 22    | 24    | 29     | 33    |
|                  | 1750.         | 1.66                                 | Mechanical | Input Power kW   | 0.18         | 0.18  | 0.35  | 0.37   | 0.52  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 192.  | 501.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.30         | 0.33  | 0.60  | 0.44   | 0.63  |
|                  |               |                                      |            | Output Torque Nm | 394.         | 448.  | 1030. | 766.   | 1220. |
|                  |               |                                      |            | Efficiency %     | 18           | 18    | 25    | 28     | 32    |
|                  | 1800.         | 1.61                                 | Mechanical | Input Power kW   | 0.18         | 0.22  | 0.36  | 0.38   | 0.51  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 280.  | 501.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.37         | 0.40  | 0.71  | 0.52   | 0.78  |
|                  |               |                                      |            | Output Torque Nm | 531.         | 616.  | 1250. | 959.   | 1660. |
|                  |               |                                      |            | Efficiency %     | 18           | 21    | 23    | 27     | 31    |
|                  | 2000.         | 1.45                                 | Mechanical | Input Power kW   | 0.14         | 0.19  | 0.29  | 0.34   | 0.49  |
|                  |               |                                      |            | Output Torque Nm | 137.         | 252.  | 416.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.44         | 0.48  | 0.86  | 0.66   | 0.90  |
|                  |               |                                      |            | Output Torque Nm | 746.         | 880.  | 1780. | 1470.  | 2130. |
|                  |               |                                      |            | Efficiency %     | 15           | 20    | 22    | 27     | 30    |
|                  | 2100.         | 1.38                                 | Mechanical | Input Power kW   | 0.17         | 0.18  | 0.32  | 0.34   | 0.47  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 223.  | 501.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.30         | 0.33  | 0.60  | 0.44   | 0.63  |
|                  |               |                                      |            | Output Torque Nm | 447.         | 521.  | 1170. | 893.   | 1430. |
|                  |               |                                      |            | Efficiency %     | 16           | 18    | 22    | 26     | 30    |
|                  | 2400.         | 1.21                                 | Mechanical | Input Power kW   | 0.14         | 0.18  | 0.29  | 0.33   | 0.44  |
|                  |               |                                      |            | Output Torque Nm | 138.         | 254.  | 419.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.37         | 0.40  | 0.71  | 0.52   | 0.78  |
|                  |               |                                      |            | Output Torque Nm | 654.         | 775.  | 1540. | 1190.  | 2060. |
|                  |               |                                      |            | Efficiency %     | 13           | 18    | 18    | 23     | 27    |
|                  | 2500.         | 1.16                                 | Mechanical | Input Power kW   | 0.11         | 0.14  | 0.23  | 0.28   | 0.40  |
|                  |               |                                      |            | Output Torque Nm | 99.          | 180.  | 299.  | 522.   | 817.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.43         | 0.48  | 0.76  | 0.66   | 0.90  |
|                  |               |                                      |            | Output Torque Nm | 859.         | 999.  | 1800. | 1750.  | 2490. |
|                  |               |                                      |            | Efficiency %     | 11           | 15    | 16    | 23     | 25    |
|                  | 2800.         | 1.04                                 | Mechanical | Input Power kW   | 0.13         | 0.17  | 0.26  | 0.30   | 0.40  |
|                  |               |                                      |            | Output Torque Nm | 139.         | 256.  | 422.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.30         | 0.33  | 0.60  | 0.44   | 0.63  |
|                  |               |                                      |            | Output Torque Nm | 550.         | 656.  | 1440. | 1110.  | 1780. |
|                  |               |                                      |            | Efficiency %     | 12           | 16    | 18    | 22     | 26    |
|                  | 3000.         | 0.97                                 | Mechanical | Input Power kW   | 0.11         | 0.14  | 0.23  | 0.28   | 0.36  |
|                  |               |                                      |            | Output Torque Nm | 99.          | 182.  | 302.  | 526.   | 824.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.37         | 0.40  | 0.71  | 0.52   | 0.78  |
|                  |               |                                      |            | Output Torque Nm | 776.         | 880.  | 1780. | 1420.  | 2410. |
|                  |               |                                      |            | Efficiency %     | 9            | 13    | 13    | 19     | 23    |
|                  | 3500.         | 0.83                                 | Mechanical | Input Power kW   | 0.11         | 0.14  | 0.21  | 0.25   | 0.34  |
|                  |               |                                      |            | Output Torque Nm | 100.         | 184.  | 305.  | 532.   | 833.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.30         | 0.33  | 0.60  | 0.44   | 0.63  |
|                  |               |                                      |            | Output Torque Nm | 653.         | 744.  | 1680. | 1320.  | 2070. |
|                  |               |                                      |            | Efficiency %     | 8            | 12    | 13    | 19     | 21    |
|                  | 3600.         | 0.81                                 | Mechanical | Input Power kW   | 0.10         | 0.12  | 0.20  | 0.23   | 0.29  |
|                  |               |                                      |            | Output Torque Nm | 76.          | 140.  | 231.  | 400.   | 624.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.37         | 0.40  | 0.71  | 0.52   | 0.78  |
|                  |               |                                      |            | Output Torque Nm | 820.         | 1000. | 2040. | 1570.  | 2720. |
|                  |               |                                      |            | Efficiency %     | 6            | 10    | 10    | 15     | 18    |
|                  | 4200.         | 0.69                                 | Mechanical | Input Power kW   | 0.10         | 0.12  | 0.18  | 0.21   | 0.27  |
|                  |               |                                      |            | Output Torque Nm | 77.          | 141.  | 233.  | 404.   | 631.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.30         | 0.33  | 0.60  | 0.44   | 0.63  |
|                  |               |                                      |            | Output Torque Nm | 689.         | 850.  | 1910. | 1460.  | 2340. |
|                  |               |                                      |            | Efficiency %     | 6            | 9     | 10    | 14     | 17    |

# SERIES AJ

## RATINGS AT 1750 REV/MIN INPUT

|                  | NOMINAL RATIO | NOMINAL<br>OUTPUT SPEED<br>REV / MIN | CAPACITY   |                  | SIZE OF UNIT |       |       |        |       |       |
|------------------|---------------|--------------------------------------|------------|------------------|--------------|-------|-------|--------|-------|-------|
|                  |               |                                      |            |                  | A0280        | A0410 | A0510 | A0610  | A0730 | A0860 |
| SINGLE REDUCTION | 5.0           | 350.00                               | Mechanical | Input Power kW   | 0.74         | 1.68  | 3.61  | 5.41   | 7.73  | 13.40 |
|                  |               |                                      |            | Output Torque Nm | 19.          | 43.   | 86.   | 135.   | 205.  | 332.  |
|                  |               |                                      | Thermal    | Input Power kW   | 1.82         | 2.65  | 4.38  | 6.14   | 14.10 | 17.70 |
|                  |               |                                      |            | Output Torque Nm | 46.          | 68.   | 104.  | 153.   | 376.  | 441.  |
|                  |               |                                      |            | Efficiency %     | 88           | 88    | 91    | 91     | 93    | 94    |
|                  | 7.5           | 233.33                               | Mechanical | Input Power kW   | 0.68         | 1.49  | 2.55  | 3.93   | 5.94  | 9.02  |
|                  |               |                                      |            | Output Torque Nm | 23.          | 51.   | 90.   | 141.   | 217.  | 331.  |
|                  |               |                                      | Thermal    | Input Power kW   | 1.46         | 2.20  | 3.54  | 5.15   | 12.20 | 15.00 |
|                  |               |                                      |            | Output Torque Nm | 51.          | 77.   | 126.  | 185.   | 450.  | 552.  |
|                  |               |                                      |            | Efficiency %     | 85           | 86    | 88    | 90     | 92    | 93    |
|                  | 10.0          | 175.00                               | Mechanical | Input Power kW   | 0.62         | 1.48  | 2.5   | 8 3.50 | 4.94  | 7.95  |
|                  |               |                                      |            | Output Torque Nm | 29.          | 71.   | 126.  | 162.   | 252.  | 384.  |
|                  |               |                                      | Thermal    | Input Power kW   | 1.12         | 1.77  | 2.73  | 4.43   | 10.10 | 12.50 |
|                  |               |                                      |            | Output Torque Nm | 53.          | 85.   | 134.  | 206.   | 522.  | 608.  |
|                  |               |                                      |            | Efficiency %     | 81           | 83    | 85    | 88     | 90    | 92    |
|                  | 12.5          | 140.00                               | Mechanical | Input Power kW   | 0.56         | 1.36  | 2.27  | 3.57   | 5.29  | 7.18  |
|                  |               |                                      |            | Output Torque Nm | 29.          | 76.   | 130.  | 208.   | 321.  | 449.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.94         | 1.52  | 2.43  | 3.55   | 8.13  | 11.20 |
|                  |               |                                      |            | Output Torque Nm | 51.          | 85.   | 139.  | 207.   | 497.  | 703.  |
|                  |               |                                      |            | Efficiency %     | 77           | 81    | 84    | 85     | 89    | 90    |
|                  | 15.0          | 116.67                               | Mechanical | Input Power kW   | 0.50         | 1.31  | 2.03  | 3.07   | 4.72  | 7.15  |
|                  |               |                                      |            | Output Torque Nm | 31.          | 83.   | 134.  | 210.   | 329.  | 503.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.93         | 1.39  | 2.37  | 3.17   | 7.62  | 9.30  |
|                  |               |                                      |            | Output Torque Nm | 58.          | 87.   | 157.  | 217.   | 536.  | 657.  |
|                  |               |                                      |            | Efficiency %     | 77           | 80    | 83    | 84     | 88    | 89    |
|                  | 20.0          | 87.50                                | Mechanical | Input Power kW   | 0.44         | 1.00  | 1.93  | 3.07   | 3.53  | 5.31  |
|                  |               |                                      |            | Output Torque Nm | 32.          | 83.   | 160.  | 262.   | 322.  | 489.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.64         | 1.29  | 1.57  | 2.29   | 6.42  | 7.80  |
|                  |               |                                      |            | Output Torque Nm | 48.          | 108.  | 129.  | 194.   | 593.  | 725.  |
|                  |               |                                      |            | Efficiency %     | 67           | 78    | 75    | 78     | 86    | 87    |
|                  | 25.0          | 70.00                                | Mechanical | Input Power kW   | 0.40         | 0.98  | 1.62  | 2.54   | 3.55  | 5.07  |
|                  |               |                                      |            | Output Torque Nm | 35.          | 94.   | 160.  | 261.   | 390.  | 564.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.59         | 0.93  | 1.41  | 2.04   | 4.50  | 5.46  |
|                  |               |                                      |            | Output Torque Nm | 53.          | 89.   | 139.  | 208.   | 499.  | 609.  |
|                  |               |                                      |            | Efficiency %     | 65           | 70    | 72    | 75     | 81    | 82    |
|                  | 30.0          | 58.33                                | Mechanical | Input Power kW   | 0.33         | 0.87  | 1.34  | 2.06   | 3.00  | 4.53  |
|                  |               |                                      |            | Output Torque Nm | 33.          | 95.   | 154.  | 243.   | 388.  | 595.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.55         | 0.85  | 1.33  | 1.84   | 4.18  | 5.10  |
|                  |               |                                      |            | Output Torque Nm | 57.          | 93.   | 153.  | 217.   | 547.  | 672.  |
|                  |               |                                      |            | Efficiency %     | 61           | 67    | 70    | 72     | 79    | 80    |
|                  | 40.0          | 43.75                                | Mechanical | Input Power kW   | 0.26         | 0.65  | 1.02  | 1.52   | 2.19  | 3.32  |
|                  |               |                                      |            | Output Torque Nm | 30.          | 88.   | 148.  | 225.   | 359.  | 555.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.45         | 0.76  | 1.21  | 1.62   | 3.59  | 4.38  |
|                  |               |                                      |            | Output Torque Nm | 55.          | 104.  | 177.  | 239.   | 598.  | 739.  |
|                  |               |                                      |            | Efficiency %     | 53           | 62    | 66    | 68     | 75    | 77    |
|                  | 50.0          | 35.00                                | Mechanical | Input Power kW   | 0.18         | 0.48  | 0.79  | 1.20   | 1.72  | 2.52  |
|                  |               |                                      |            | Output Torque Nm | 24.          | 75.   | 132.  | 207.   | 339.  | 501.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.35         | 0.57  | 0.86  | 1.19   | 2.67  | 3.13  |
|                  |               |                                      |            | Output Torque Nm | 51.          | 93.   | 146.  | 206.   | 536.  | 627.  |
|                  |               |                                      |            | Efficiency %     | 49           | 58    | 61    | 63     | 72    | 73    |
|                  | 60.0          | 29.17                                | Mechanical | Input Power kW   | 0.13         | 0.35  | 0.57  | 0.90   | 1.38  | 2.09  |
|                  |               |                                      |            | Output Torque Nm | 19.          | 58.   | 107.  | 177.   | 307.  | 476.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.30         | 0.46  | 0.75  | 1.03   | 2.16  | 2.60  |
|                  |               |                                      |            | Output Torque Nm | 47.          | 81.   | 144.  | 204.   | 493.  | 599.  |
|                  |               |                                      |            | Efficiency %     | 43           | 51    | 58    | 60     | 68    | 70    |
|                  | 70.0          | 25.00                                | Mechanical | Input Power kW   | 0.10         | 0.26  | 0.41  | 0.68   | 1.00  | 1.58  |
|                  |               |                                      |            | Output Torque Nm | 15.          | 48.   | 84.   | 144.   | 242.  | 393.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.24         | 0.39  | 0.61  | 0.80   | 1.67  | 2.00  |
|                  |               |                                      |            | Output Torque Nm | 42.          | 78.   | 130.  | 173.   | 419.  | 509.  |
|                  |               |                                      |            | Efficiency %     | 39           | 48    | 54    | 55     | 63    | 65    |

# SERIES AJ

## RATINGS AT 1750 REV/MIN INPUT

|                  | NOMINAL RATIO | NOMINAL<br>OUTPUT SPEED<br>REV / MIN | CAPACITY   |                  | SIZE OF UNIT |       |       |        |       |
|------------------|---------------|--------------------------------------|------------|------------------|--------------|-------|-------|--------|-------|
|                  |               |                                      |            |                  | A0410        | A0510 | A0610 | A0730  | A0860 |
| SINGLE REDUCTION | 75.0          | 23.33                                | Mechanical | Input Power kW   | 0.53         | 0.69  | 1.25  | 1.47   | 3.00  |
|                  |               |                                      |            | Output Torque Nm | 142.         | 193.  | 365.  | 447.   | 872.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.81         | 1.41  | 1.91  | 2.57   | 3.16  |
|                  |               |                                      |            | Output Torque Nm | 221.         | 405.  | 566.  | 799.   | 920.  |
|                  |               |                                      |            | Efficiency %     | 64           | 68    | 68    | 73     | 77    |
|                  | 100.          | 17.50                                | Mechanical | Input Power kW   | 0.35         | 0.69  | 1.23  | 1.40   | 2.21  |
|                  |               |                                      |            | Output Torque Nm | 121.         | 233.  | 434.  | 555.   | 829.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.78         | 0.94  | 1.37  | 2.32   | 2.69  |
|                  |               |                                      |            | Output Torque Nm | 279.         | 323.  | 482.  | 936.   | 1010. |
|                  |               |                                      |            | Efficiency %     | 61           | 59    | 62    | 71     | 73    |
|                  | 125.          | 14.00                                | Mechanical | Input Power kW   | 0.41         | 0.67  | 1.07  | 1.31   | 2.15  |
|                  |               |                                      |            | Output Torque Nm | 156.         | 270.  | 443.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.55         | 0.84  | 1.22  | 1.70   | 1.96  |
|                  |               |                                      |            | Output Torque Nm | 217.         | 343.  | 509.  | 794.   | 862.  |
|                  |               |                                      |            | Efficiency %     | 54           | 56    | 58    | 64     | 67    |
|                  | 150.          | 11.67                                | Mechanical | Input Power kW   | 0.36         | 0.50  | 0.83  | 1.09   | 1.66  |
|                  |               |                                      |            | Output Torque Nm | 169.         | 251.  | 434.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.68         | 1.16  | 1.57  | 1.71   | 2.24  |
|                  |               |                                      |            | Output Torque Nm | 333.         | 601.  | 854.  | 975.   | 1300. |
|                  |               |                                      |            | Efficiency %     | 56           | 60    | 61    | 67     | 69    |
|                  | 200.          | 8.75                                 | Mechanical | Input Power kW   | 0.22         | 0.52  | 0.79  | 0.85   | 1.30  |
|                  |               |                                      |            | Output Torque Nm | 128.         | 309.  | 493.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.66         | 0.79  | 1.13  | 1.71   | 1.93  |
|                  |               |                                      |            | Output Torque Nm | 423.         | 483.  | 721.  | 1260.  | 1440. |
|                  |               |                                      |            | Efficiency %     | 51           | 52    | 54    | 63     | 65    |
|                  | 225.          | 7.78                                 | Mechanical | Input Power kW   | 0.30         | 0.41  | 0.69  | 0.85   | 1.26  |
|                  |               |                                      |            | Output Torque Nm | 181.         | 264.  | 465.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.65         | 0.94  | 1.48  | 1.34   | 2.07  |
|                  |               |                                      |            | Output Torque Nm | 412.         | 637.  | 1050. | 986.   | 1590. |
|                  |               |                                      |            | Efficiency %     | 52           | 56    | 56    | 62     | 66    |
|                  | 250.          | 7.00                                 | Mechanical | Input Power kW   | 0.28         | 0.44  | 0.69  | 0.75   | 1.13  |
|                  |               |                                      |            | Output Torque Nm | 182.         | 309.  | 501.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.47         | 0.71  | 1.00  | 1.40   | 1.43  |
|                  |               |                                      |            | Output Torque Nm | 329.         | 515.  | 755.  | 1180.  | 1210. |
|                  |               |                                      |            | Efficiency %     | 46           | 49    | 51    | 56     | 59    |
|                  | 300.          | 5.83                                 | Mechanical | Input Power kW   | 0.27         | 0.37  | 0.57  | 0.66   | 1.04  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 278.  | 494.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.60         | 0.63  | 1.38  | 1.26   | 1.39  |
|                  |               |                                      |            | Output Torque Nm | 454.         | 498.  | 1270. | 1200.  | 1300. |
|                  |               |                                      |            | Efficiency %     | 44           | 48    | 54    | 59     | 58    |
|                  | 350.          | 5.00                                 | Mechanical | Input Power kW   | 0.23         | 0.35  | 0.55  | 0.59   | 0.53  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.   | 453.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.45         | 0.68  | 0.95  | 1.34   | 0.82  |
|                  |               |                                      |            | Output Torque Nm | 404.         | 630.  | 923.  | 1470.  | 752.  |
|                  |               |                                      |            | Efficiency %     | 42           | 45    | 46    | 51     | 47    |
|                  | 375.          | 4.67                                 | Mechanical | Input Power kW   | 0.09         | 0.14  | 0.25  | 0.33   | 0.87  |
|                  |               |                                      |            | Output Torque Nm | 56.          | 98.   | 167.  | 281.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.28         | 0.43  | 0.62  | 0.73   | 1.32  |
|                  |               |                                      |            | Output Torque Nm | 222.         | 363.  | 507.  | 698.   | 1490. |
|                  |               |                                      |            | Efficiency %     | 30           | 36    | 34    | 42     | 55    |
|                  | 400.          | 4.38                                 | Mechanical | Input Power kW   | 0.17         | 0.35  | 0.50  | 0.52   | 0.83  |
|                  |               |                                      |            | Output Torque Nm | 135.         | 309.  | 501.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.60         | 0.63  | 0.99  | 1.26   | 1.39  |
|                  |               |                                      |            | Output Torque Nm | 597.         | 585.  | 1060. | 1560.  | 1680. |
|                  |               |                                      |            | Efficiency %     | 38           | 40    | 47    | 56     | 54    |
|                  | 450.          | 3.89                                 | Mechanical | Input Power kW   | 0.20         | 0.30  | 0.49  | 0.52   | 0.75  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.42         | 0.66  | 0.89  | 1.28   | 1.25  |
|                  |               |                                      |            | Output Torque Nm | 429.         | 721.  | 976.  | 1630.  | 1650. |
|                  |               |                                      |            | Efficiency %     | 39           | 43    | 43    | 49     | 53    |
|                  | 500.          | 3.50                                 | Mechanical | Input Power kW   | 0.20         | 0.30  | 0.43  | 0.46   | 0.73  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.47         | 0.63  | 0.88  | 1.25   | 1.33  |
|                  |               |                                      |            | Output Torque Nm | 499.         | 692.  | 1110. | 1780.  | 1840. |
|                  |               |                                      |            | Efficiency %     | 34           | 38    | 44    | 49     | 48    |
|                  | 600.          | 2.92                                 | Mechanical | Input Power kW   | 0.18         | 0.27  | 0.3   | 8 0.41 | 0.64  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.44         | 0.63  | 0.83  | 1.22   | 1.26  |
|                  |               |                                      |            | Output Torque Nm | 531.         | 805.  | 1180. | 2010.  | 2030. |
|                  |               |                                      |            | Efficiency %     | 32           | 36    | 41    | 47     | 45    |
|                  | 625.          | 2.80                                 | Mechanical | Input Power kW   | 0.17         | 0.26  | 0.39  | 0.42   | 0.63  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.46         | 0.57  | 0.91  | 0.90   | 1.25  |
|                  |               |                                      |            | Output Torque Nm | 581.         | 750.  | 1310. | 1430.  | 2050. |
|                  |               |                                      |            | Efficiency %     | 32           | 35    | 38    | 42     | 44    |
|                  | 700.          | 2.50                                 | Mechanical | Input Power kW   | 0.12         | 0.12  | 0.27  | 0.26   | 0.42  |
|                  |               |                                      |            | Output Torque Nm | 115.         | 111.  | 346.  | 377.   | 650.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.24         | 0.27  | 0.50  | 0.38   | 0.54  |
|                  |               |                                      |            | Output Torque Nm | 296.         | 329.  | 748.  | 606.   | 875.  |
|                  |               |                                      |            | Efficiency %     | 24           | 24    | 35    | 37     | 42    |
|                  | 750.          | 2.33                                 | Mechanical | Input Power kW   | 0.16         | 0.23  | 0.35  | 0.37   | 0.55  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.43         | 0.57  | 0.86  | 0.90   | 1.25  |
|                  |               |                                      |            | Output Torque Nm | 619.         | 872.  | 1390. | 1670.  | 2390. |
|                  |               |                                      |            | Efficiency %     | 29           | 33    | 35    | 40     | 42    |
|                  | 800.          | 2.19                                 | Mechanical | Input Power kW   | 0.12         | 0.24  | 0.33  | 0.35   | 0.49  |
|                  |               |                                      |            | Output Torque Nm | 140.         | 309.  | 501.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.42         | 0.44  | 0.88  | 0.74   | 1.07  |
|                  |               |                                      |            | Output Torque Nm | 646.         | 627.  | 1520. | 1450.  | 2260. |
|                  |               |                                      |            | Efficiency %     | 27           | 30    | 35    | 41     | 45    |

# SERIES AJ

## RATINGS AT 1750 REV/MIN INPUT

|                  | NOMINAL RATIO | NOMINAL<br>OUTPUT SPEED<br>REV / MIN | CAPACITY   |                  | SIZE OF UNIT |       |       |        |       |
|------------------|---------------|--------------------------------------|------------|------------------|--------------|-------|-------|--------|-------|
|                  |               |                                      |            |                  | A0410        | A0510 | A0610 | A0730  | A0860 |
| SINGLE REDUCTION | 900.          | 1.94                                 | Mechanical | Input Power kW   | 0.14         | 0.20  | 0.32  | 0.33   | 0.48  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.43         | 0.53  | 0.85  | 0.83   | 1.18  |
|                  |               |                                      |            | Output Torque Nm | 704.         | 924.  | 1570. | 1730.  | 2630. |
|                  |               |                                      |            | Efficiency %     | 27           | 31    | 32    | 37     | 40    |
|                  | 1000.         | 1.75                                 | Mechanical | Input Power kW   | 0.14         | 0.21  | 0.29  | 0.31   | 0.44  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.42         | 0.44  | 0.88  | 0.74   | 1.07  |
|                  |               |                                      |            | Output Torque Nm | 699.         | 741.  | 1790. | 1640.  | 2560. |
|                  |               |                                      |            | Efficiency %     | 24           | 27    | 32    | 35     | 39    |
|                  | 1200.         | 1.46                                 | Mechanical | Input Power kW   | 0.13         | 0.18  | 0.26  | 0.28   | 0.39  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.42         | 0.44  | 0.83  | 0.74   | 1.07  |
|                  |               |                                      |            | Output Torque Nm | 794.         | 862.  | 1920. | 1910.  | 2990. |
|                  |               |                                      |            | Efficiency %     | 22           | 26    | 29    | 33     | 37    |
|                  | 1250.         | 1.40                                 | Mechanical | Input Power kW   | 0.12         | 0.18  | 0.25  | 0.27   | 0.40  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.35         | 0.38  | 0.74  | 0.56   | 0.77  |
|                  |               |                                      |            | Output Torque Nm | 690.         | 748.  | 1770. | 1430.  | 2050. |
|                  |               |                                      |            | Efficiency %     | 22           | 26    | 29    | 33     | 35    |
|                  | 1400.         | 1.25                                 | Mechanical | Input Power kW   | 0.10         | 0.12  | 0.24  | 0.25   | 0.35  |
|                  |               |                                      |            | Output Torque Nm | 144.         | 170.  | 501.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.24         | 0.27  | 0.50  | 0.38   | 0.54  |
|                  |               |                                      |            | Output Torque Nm | 495.         | 505.  | 1230. | 1030.  | 1590. |
|                  |               |                                      |            | Efficiency %     | 20           | 19    | 27    | 33     | 36    |
|                  | 1500.         | 1.17                                 | Mechanical | Input Power kW   | 0.11         | 0.16  | 0.23  | 0.24   | 0.35  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.35         | 0.38  | 0.74  | 0.56   | 0.77  |
|                  |               |                                      |            | Output Torque Nm | 783.         | 869.  | 2010. | 1670.  | 2400. |
|                  |               |                                      |            | Efficiency %     | 20           | 24    | 27    | 31     | 33    |
|                  | 1600.         | 1.09                                 | Mechanical | Input Power kW   | 0.09         | 0.13  | 0.20  | 0.24   | 0.33  |
|                  |               |                                      |            | Output Torque Nm | 139.         | 255.  | 421.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.42         | 0.44  | 0.77  | 0.74   | 1.07  |
|                  |               |                                      |            | Output Torque Nm | 978.         | 1080. | 2170. | 2370.  | 3720. |
|                  |               |                                      |            | Efficiency %     | 17           | 22    | 24    | 29     | 33    |
|                  | 1750.         | 1.00                                 | Mechanical | Input Power kW   | 0.11         | 0.12  | 0.21  | 0.23   | 0.32  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 201.  | 501.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.24         | 0.27  | 0.50  | 0.38   | 0.54  |
|                  |               |                                      |            | Output Torque Nm | 532.         | 596.  | 1450. | 1150.  | 1780. |
|                  |               |                                      |            | Efficiency %     | 18           | 18    | 25    | 28     | 31    |
|                  | 1800.         | 0.97                                 | Mechanical | Input Power kW   | 0.11         | 0.14  | 0.22  | 0.23   | 0.31  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 293.  | 501.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.30         | 0.32  | 0.60  | 0.45   | 0.66  |
|                  |               |                                      |            | Output Torque Nm | 699.         | 799.  | 1720. | 1410.  | 2350. |
|                  |               |                                      |            | Efficiency %     | 17           | 21    | 23    | 27     | 31    |
|                  | 2000.         | 0.88                                 | Mechanical | Input Power kW   | 0.08         | 0.12  | 0.1   | 8 0.21 | 0.30  |
|                  |               |                                      |            | Output Torque Nm | 141.         | 259.  | 426.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.35         | 0.38  | 0.74  | 0.56   | 0.77  |
|                  |               |                                      |            | Output Torque Nm | 963.         | 1090. | 2470. | 2070.  | 2980. |
|                  |               |                                      |            | Efficiency %     | 15           | 20    | 22    | 27     | 29    |
|                  | 2100.         | 0.83                                 | Mechanical | Input Power kW   | 0.10         | 0.12  | 0.20  | 0.21   | 0.28  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 233.  | 501.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.24         | 0.27  | 0.50  | 0.38   | 0.54  |
|                  |               |                                      |            | Output Torque Nm | 604.         | 692.  | 1650. | 1340.  | 2080. |
|                  |               |                                      |            | Efficiency %     | 16           | 18    | 22    | 26     | 29    |
|                  | 2400.         | 0.73                                 | Mechanical | Input Power kW   | 0.08         | 0.11  | 0.17  | 0.20   | 0.27  |
|                  |               |                                      |            | Output Torque Nm | 143.         | 262.  | 432.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.30         | 0.32  | 0.60  | 0.45   | 0.66  |
|                  |               |                                      |            | Output Torque Nm | 860.         | 1010. | 2110. | 1750.  | 2910. |
|                  |               |                                      |            | Efficiency %     | 13           | 18    | 19    | 23     | 27    |
|                  | 2500.         | 0.70                                 | Mechanical | Input Power kW   | 0.07         | 0.09  | 0.13  | 0.17   | 0.24  |
|                  |               |                                      |            | Output Torque Nm | 102.         | 186.  | 308.  | 538.   | 843.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.35         | 0.38  | 0.67  | 0.56   | 0.77  |
|                  |               |                                      |            | Output Torque Nm | 1140.        | 1240. | 2580. | 2460.  | 3480. |
|                  |               |                                      |            | Efficiency %     | 11           | 15    | 17    | 23     | 25    |
|                  | 2800.         | 0.63                                 | Mechanical | Input Power kW   | 0.08         | 0.11  | 0.16  | 0.18   | 0.24  |
|                  |               |                                      |            | Output Torque Nm | 144.         | 265.  | 436.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.24         | 0.27  | 0.50  | 0.38   | 0.54  |
|                  |               |                                      |            | Output Torque Nm | 743.         | 871.  | 2020. | 1660.  | 2580. |
|                  |               |                                      |            | Efficiency %     | 12           | 16    | 18    | 22     | 26    |
|                  | 3000.         | 0.58                                 | Mechanical | Input Power kW   | 0.07         | 0.09  | 0.13  | 0.17   | 0.22  |
|                  |               |                                      |            | Output Torque Nm | 103.         | 188.  | 312.  | 545.   | 853.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.30         | 0.32  | 0.60  | 0.45   | 0.66  |
|                  |               |                                      |            | Output Torque Nm | 1020.        | 1140. | 2450. | 2080.  | 3400. |
|                  |               |                                      |            | Efficiency %     | 10           | 13    | 14    | 20     | 24    |
|                  | 3500.         | 0.50                                 | Mechanical | Input Power kW   | 0.06         | 0.08  | 0.12  | 0.15   | 0.20  |
|                  |               |                                      |            | Output Torque Nm | 104.         | 190.  | 315.  | 550.   | 862.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.24         | 0.27  | 0.50  | 0.38   | 0.54  |
|                  |               |                                      |            | Output Torque Nm | 880.         | 986.  | 2340. | 1980.  | 3000. |
|                  |               |                                      |            | Efficiency %     | 9            | 12    | 14    | 19     | 22    |
|                  | 3600.         | 0.49                                 | Mechanical | Input Power kW   | 0.06         | 0.07  | 0.11  | 0.14   | 0.17  |
|                  |               |                                      |            | Output Torque Nm | 79.          | 144.  | 239.  | 414.   | 645.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.30         | 0.32  | 0.60  | 0.45   | 0.66  |
|                  |               |                                      |            | Output Torque Nm | 1070.        | 1300. | 2800. | 2300.  | 3830. |
|                  |               |                                      |            | Efficiency %     | 7            | 10    | 11    | 16     | 19    |
|                  | 4200.         | 0.42                                 | Mechanical | Input Power kW   | 0.06         | 0.07  | 0.10  | 0.12   | 0.16  |
|                  |               |                                      |            | Output Torque Nm | 79.          | 146.  | 241.  | 418.   | 652.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.24         | 0.27  | 0.50  | 0.38   | 0.54  |
|                  |               |                                      |            | Output Torque Nm | 927.         | 1130. | 2680. | 2180.  | 3380. |
|                  |               |                                      |            | Efficiency %     | 6            | 9     | 11    | 15     | 18    |

# SERIES AJ

## RATINGS AT 1450 REV/MIN INPUT

|                  | NOMINAL RATIO | NOMINAL<br>OUTPUT SPEED<br>REV / MIN | CAPACITY   |                  | SIZE OF UNIT |       |       |       |       |       |
|------------------|---------------|--------------------------------------|------------|------------------|--------------|-------|-------|-------|-------|-------|
|                  |               |                                      |            |                  | A0280        | A0410 | A0510 | A0610 | A0730 | A0860 |
| SINGLE REDUCTION | 5.0           | 290.00                               | Mechanical | Input Power kW   | 0.67         | 1.52  | 3.26  | 4.90  | 6.98  | 12.10 |
|                  |               |                                      |            | Output Torque Nm | 20.          | 46.   | 93.   | 147.  | 223.  | 362.  |
|                  |               |                                      | Thermal    | Input Power kW   | 1.65         | 2.45  | 4.01  | 5.65  | 12.30 | 15.30 |
|                  |               |                                      |            | Output Torque Nm | 51.          | 75.   | 115.  | 170.  | 394.  | 457.  |
|                  |               |                                      |            | Efficiency %     | 87           | 88    | 91    | 91    | 93    | 94    |
|                  | 7.5           | 193.33                               | Mechanical | Input Power kW   | 0.61         | 1.34  | 2.30  | 3.54  | 5.34  | 8.12  |
|                  |               |                                      |            | Output Torque Nm | 25.          | 56.   | 98.   | 152.  | 235.  | 359.  |
|                  |               |                                      | Thermal    | Input Power kW   | 1.33         | 2.04  | 3.26  | 4.77  | 10.60 | 12.90 |
|                  |               |                                      |            | Output Torque Nm | 55.          | 86.   | 140.  | 206.  | 471.  | 574.  |
|                  |               |                                      |            | Efficiency %     | 85           | 86    | 88    | 89    | 92    | 93    |
|                  | 10.0          | 145.00                               | Mechanical | Input Power kW   | 0.55         | 1.32  | 2.31  | 3.14  | 4.42  | 7.14  |
|                  |               |                                      |            | Output Torque Nm | 31.          | 76.   | 136.  | 175.  | 272.  | 414.  |
|                  |               |                                      | Thermal    | Input Power kW   | 1.02         | 1.64  | 2.53  | 4.12  | 8.78  | 10.80 |
|                  |               |                                      |            | Output Torque Nm | 58.          | 95.   | 149.  | 230.  | 545.  | 632.  |
|                  |               |                                      |            | Efficiency %     | 80           | 83    | 85    | 88    | 90    | 91    |
|                  | 12.5          | 116.00                               | Mechanical | Input Power kW   | 0.50         | 1.22  | 2.04  | 3.20  | 4.74  | 6.43  |
|                  |               |                                      |            | Output Torque Nm | 31.          | 81.   | 139.  | 224.  | 345.  | 484.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.86         | 1.41  | 2.25  | 3.30  | 7.10  | 9.63  |
|                  |               |                                      |            | Output Torque Nm | 56.          | 95.   | 155.  | 231.  | 521.  | 729.  |
|                  |               |                                      |            | Efficiency %     | 77           | 81    | 83    | 85    | 88    | 90    |
|                  | 15.0          | 96.67                                | Mechanical | Input Power kW   | 0.45         | 1.17  | 1.82  | 2.75  | 4.22  | 6.40  |
|                  |               |                                      |            | Output Torque Nm | 33.          | 89.   | 143.  | 225.  | 354.  | 541.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.85         | 1.29  | 2.20  | 2.95  | 6.64  | 8.05  |
|                  |               |                                      |            | Output Torque Nm | 63.          | 98.   | 174.  | 242.  | 561.  | 683.  |
|                  |               |                                      |            | Efficiency %     | 77           | 79    | 82    | 83    | 88    | 89    |
|                  | 20.0          | 72.50                                | Mechanical | Input Power kW   | 0.39         | 0.89  | 1.74  | 2.76  | 3.15  | 4.74  |
|                  |               |                                      |            | Output Torque Nm | 35.          | 88.   | 171.  | 281.  | 345.  | 525.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.58         | 1.20  | 1.47  | 2.15  | 5.59  | 6.74  |
|                  |               |                                      |            | Output Torque Nm | 52.          | 120.  | 144.  | 217.  | 620.  | 751.  |
|                  |               |                                      |            | Efficiency %     | 67           | 77    | 74    | 77    | 85    | 86    |
|                  | 25.0          | 58.00                                | Mechanical | Input Power kW   | 0.35         | 0.88  | 1.45  | 2.28  | 3.17  | 4.54  |
|                  |               |                                      |            | Output Torque Nm | 37.          | 100.  | 172.  | 280.  | 418.  | 605.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.54         | 0.87  | 1.32  | 1.91  | 3.95  | 4.75  |
|                  |               |                                      |            | Output Torque Nm | 58.          | 99.   | 155.  | 233.  | 524.  | 635.  |
|                  |               |                                      |            | Efficiency %     | 64           | 69    | 71    | 74    | 80    | 81    |
|                  | 30.0          | 48.33                                | Mechanical | Input Power kW   | 0.29         | 0.77  | 1.20  | 1.85  | 2.68  | 4.06  |
|                  |               |                                      |            | Output Torque Nm | 35.          | 102.  | 165.  | 260.  | 415.  | 638.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.50         | 0.80  | 1.24  | 1.73  | 3.67  | 4.43  |
|                  |               |                                      |            | Output Torque Nm | 62.          | 104.  | 171.  | 242.  | 573.  | 699.  |
|                  |               |                                      |            | Efficiency %     | 61           | 67    | 70    | 71    | 78    | 80    |
|                  | 40.0          | 36.25                                | Mechanical | Input Power kW   | 0.23         | 0.58  | 0.91  | 1.37  | 1.96  | 2.97  |
|                  |               |                                      |            | Output Torque Nm | 31.          | 94.   | 158.  | 241.  | 384.  | 594.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.41         | 0.71  | 1.12  | 1.51  | 3.14  | 3.81  |
|                  |               |                                      |            | Output Torque Nm | 59.          | 117.  | 197.  | 268.  | 626.  | 767.  |
|                  |               |                                      |            | Efficiency %     | 53           | 62    | 66    | 67    | 74    | 76    |
|                  | 50.0          | 29.00                                | Mechanical | Input Power kW   | 0.16         | 0.41  | 0.70  | 1.07  | 1.54  | 2.25  |
|                  |               |                                      |            | Output Torque Nm | 25.          | 77.   | 141.  | 221.  | 362.  | 535.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.33         | 0.54  | 0.81  | 1.12  | 2.35  | 2.73  |
|                  |               |                                      |            | Output Torque Nm | 56.          | 105.  | 163.  | 231.  | 563.  | 653.  |
|                  |               |                                      |            | Efficiency %     | 49           | 58    | 61    | 63    | 71    | 72    |
|                  | 60.0          | 24.17                                | Mechanical | Input Power kW   | 0.11         | 0.30  | 0.49  | 0.77  | 1.18  | 1.80  |
|                  |               |                                      |            | Output Torque Nm | 19.          | 60.   | 110.  | 181.  | 314.  | 490.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.27         | 0.44  | 0.70  | 0.97  | 1.91  | 2.27  |
|                  |               |                                      |            | Output Torque Nm | 51.          | 91.   | 162.  | 230.  | 519.  | 624.  |
|                  |               |                                      |            | Efficiency %     | 43           | 51    | 57    | 59    | 67    | 69    |
|                  | 70.0          | 20.71                                | Mechanical | Input Power kW   | 0.09         | 0.22  | 0.35  | 0.58  | 0.86  | 1.35  |
|                  |               |                                      |            | Output Torque Nm | 15.          | 49.   | 86.   | 147.  | 247.  | 402.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.23         | 0.37  | 0.57  | 0.76  | 1.48  | 1.76  |
|                  |               |                                      |            | Output Torque Nm | 46.          | 88.   | 146.  | 196.  | 442.  | 533.  |
|                  |               |                                      |            | Efficiency %     | 38           | 48    | 53    | 55    | 62    | 65    |

# SERIES AJ

## RATINGS AT 1450 REV/MIN INPUT

|                  | NOMINAL RATIO | NOMINAL<br>OUTPUT SPEED<br>REV / MIN | CAPACITY   |                  | SIZE OF UNIT |       |       |       |       |
|------------------|---------------|--------------------------------------|------------|------------------|--------------|-------|-------|-------|-------|
|                  |               |                                      |            |                  | A0410        | A0510 | A0610 | A0730 | A0860 |
| SINGLE REDUCTION | 75.0          | 19.33                                | Mechanical | Input Power kW   | 0.47         | 0.62  | 1.10  | 1.32  | 2.65  |
|                  |               |                                      |            | Output Torque Nm | 149.         | 208.  | 384.  | 483.  | 920.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.75         | 1.33  | 1.77  | 2.38  | 2.81  |
|                  |               |                                      |            | Output Torque Nm | 246.         | 459.  | 628.  | 884.  | 976.  |
|                  | 100.          | 14.50                                | Mechanical | Efficiency %     | 63           | 67    | 67    | 73    | 76    |
|                  |               |                                      |            | Input Power kW   | 0.30         | 0.62  | 1.07  | 1.23  | 1.95  |
|                  |               |                                      | Thermal    | Output Torque Nm | 123.         | 250.  | 448.  | 582.  | 872.  |
|                  |               |                                      |            | Input Power kW   | 0.73         | 0.87  | 1.28  | 2.12  | 2.39  |
|                  | 125.          | 11.60                                | Mechanical | Output Torque Nm | 311.         | 357.  | 538.  | 1020. | 1080. |
|                  |               |                                      |            | Efficiency %     | 61           | 59    | 61    | 70    | 73    |
|                  |               |                                      | Thermal    | Input Power kW   | 0.36         | 0.59  | 0.94  | 1.10  | 1.81  |
|                  |               |                                      |            | Output Torque Nm | 163.         | 282.  | 463.  | 603.  | 950.  |
|                  | 150.          | 9.67                                 | Mechanical | Input Power kW   | 0.51         | 0.78  | 1.13  | 1.56  | 1.75  |
|                  |               |                                      |            | Output Torque Nm | 241.         | 379.  | 564.  | 867.  | 913.  |
|                  |               |                                      | Thermal    | Efficiency %     | 53           | 55    | 57    | 63    | 66    |
|                  |               |                                      |            | Input Power kW   | 0.32         | 0.43  | 0.72  | 0.91  | 1.39  |
|                  | 200.          | 7.25                                 | Mechanical | Output Torque Nm | 176.         | 259.  | 452.  | 603.  | 950.  |
|                  |               |                                      |            | Input Power kW   | 0.65         | 1.03  | 1.48  | 1.59  | 2.11  |
|                  |               |                                      | Thermal    | Output Torque Nm | 377.         | 640.  | 962.  | 1080. | 1460. |
|                  |               |                                      |            | Efficiency %     | 56           | 60    | 60    | 66    | 68    |
|                  | 225.          | 6.44                                 | Mechanical | Input Power kW   | 0.19         | 0.44  | 0.68  | 0.71  | 1.09  |
|                  |               |                                      |            | Output Torque Nm | 130.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.63         | 0.75  | 1.06  | 1.59  | 1.82  |
|                  |               |                                      |            | Output Torque Nm | 479.         | 544.  | 809.  | 1400. | 1620. |
|                  | 250.          | 5.80                                 | Mechanical | Efficiency %     | 51           | 51    | 54    | 63    | 65    |
|                  |               |                                      |            | Input Power kW   | 0.26         | 0.35  | 0.60  | 0.71  | 1.06  |
|                  |               |                                      | Thermal    | Output Torque Nm | 187.         | 272.  | 483.  | 603.  | 950.  |
|                  |               |                                      |            | Input Power kW   | 0.61         | 0.84  | 1.40  | 1.25  | 1.95  |
|                  | 300.          | 4.83                                 | Mechanical | Output Torque Nm | 466.         | 679.  | 1180. | 1100. | 1800. |
|                  |               |                                      |            | Efficiency %     | 52           | 56    | 56    | 61    | 65    |
|                  |               |                                      | Thermal    | Input Power kW   | 0.24         | 0.37  | 0.58  | 0.63  | 0.95  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  | 350.          | 4.14                                 | Mechanical | Input Power kW   | 0.45         | 0.68  | 0.94  | 1.34  | 1.34  |
|                  |               |                                      |            | Output Torque Nm | 371.         | 579.  | 848.  | 1350. | 1370. |
|                  |               |                                      | Thermal    | Efficiency %     | 46           | 48    | 50    | 56    | 58    |
|                  |               |                                      |            | Input Power kW   | 0.23         | 0.32  | 0.48  | 0.55  | 0.8   |
|                  | 375.          | 3.87                                 | Mechanical | Output Torque Nm | 189.         | 286.  | 501.  | 603.  | 950.  |
|                  |               |                                      |            | Input Power kW   | 0.54         | 0.56  | 1.31  | 1.17  | 1.30  |
|                  |               |                                      | Thermal    | Output Torque Nm | 483.         | 531.  | 1440. | 1340. | 1450. |
|                  |               |                                      |            | Efficiency %     | 43           | 47    | 54    | 59    | 57    |
|                  | 400.          | 3.63                                 | Mechanical | Input Power kW   | 0.19         | 0.29  | 0.46  | 0.50  | 0.45  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 459.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.43         | 0.64  | 0.90  | 1.25  | 0.74  |
|                  |               |                                      |            | Output Torque Nm | 457.         | 712.  | 1040. | 1630. | 802.  |
|                  | 450.          | 3.22                                 | Mechanical | Efficiency %     | 42           | 44    | 46    | 51    | 46    |
|                  |               |                                      |            | Input Power kW   | 0.08         | 0.12  | 0.21  | 0.28  | 0.73  |
|                  |               |                                      | Thermal    | Output Torque Nm | 56.          | 99.   | 169.  | 284.  | 950.  |
|                  |               |                                      |            | Input Power kW   | 0.27         | 0.41  | 0.59  | 0.67  | 1.25  |
|                  | 500.          | 2.90                                 | Mechanical | Output Torque Nm | 252.         | 413.  | 579.  | 766.  | 1680. |
|                  |               |                                      |            | Efficiency %     | 30           | 36    | 34    | 42    | 54    |
|                  |               |                                      | Thermal    | Input Power kW   | 0.14         | 0.30  | 0.42  | 0.44  | 0.69  |
|                  |               |                                      |            | Output Torque Nm | 136.         | 309.  | 501.  | 603.  | 950.  |
|                  | 600.          | 2.42                                 | Mechanical | Input Power kW   | 0.54         | 0.56  | 0.94  | 1.17  | 1.30  |
|                  |               |                                      |            | Output Torque Nm | 636.         | 621.  | 1200. | 1730. | 1880. |
|                  |               |                                      | Thermal    | Efficiency %     | 38           | 40    | 47    | 55    | 53    |
|                  |               |                                      |            | Input Power kW   | 0.17         | 0.25  | 0.41  | 0.43  | 0.63  |
|                  | 625.          | 2.32                                 | Mechanical | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      |            | Input Power kW   | 0.40         | 0.63  | 0.84  | 1.23  | 1.19  |
|                  |               |                                      | Thermal    | Output Torque Nm | 486.         | 816.  | 1100. | 1870. | 1860. |
|                  |               |                                      |            | Efficiency %     | 39           | 42    | 43    | 48    | 52    |
|                  | 700.          | 2.07                                 | Mechanical | Input Power kW   | 0.17         | 0.26  | 0.36  | 0.39  | 0.62  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.45         | 0.56  | 0.84  | 1.17  | 1.28  |
|                  |               |                                      |            | Output Torque Nm | 567.         | 735.  | 1260. | 1970. | 2100. |
|                  | 750.          | 1.93                                 | Mechanical | Efficiency %     | 34           | 37    | 43    | 48    | 47    |
|                  |               |                                      |            | Input Power kW   | 0.15         | 0.22  | 0.32  | 0.34  | 0.54  |
|                  |               |                                      | Thermal    | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      |            | Input Power kW   | 0.42         | 0.56  | 0.78  | 1.15  | 1.21  |
|                  | 800.          | 1.81                                 | Mechanical | Output Torque Nm | 604.         | 854.  | 1340. | 2270. | 2320. |
|                  |               |                                      |            | Efficiency %     | 31           | 35    | 41    | 46    | 45    |
|                  |               |                                      | Thermal    | Input Power kW   | 0.15         | 0.22  | 0.33  | 0.36  | 0.53  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  | 800.          | 1.81                                 | Mechanical | Input Power kW   | 0.44         | 0.52  | 0.87  | 0.84  | 1.17  |
|                  |               |                                      |            | Output Torque Nm | 664.         | 797.  | 1490. | 1590. | 2280. |
|                  |               |                                      | Thermal    | Efficiency %     | 31           | 34    | 37    | 41    | 44    |
|                  |               |                                      |            | Input Power kW   | 0.10         | 0.10  | 0.23  | 0.22  | 0.36  |
|                  | 800.          | 1.81                                 | Mechanical | Output Torque Nm | 117.         | 113.  | 352.  | 384.  | 661.  |
|                  |               |                                      |            | Input Power kW   | 0.23         | 0.25  | 0.47  | 0.36  | 0.51  |
|                  |               |                                      | Thermal    | Output Torque Nm | 329.         | 365.  | 840.  | 691.  | 991.  |
|                  |               |                                      |            | Efficiency %     | 24           | 24    | 35    | 36    | 42    |
|                  | 800.          | 1.81                                 | Mechanical | Input Power kW   | 0.13         | 0.19  | 0.30  | 0.31  | 0.46  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.41         | 0.52  | 0.82  | 0.84  | 1.17  |
|                  |               |                                      |            | Output Torque Nm | 707.         | 927.  | 1580. | 1850. | 2670. |
|                  | 800.          | 1.81                                 | Mechanical | Efficiency %     | 29           | 33    | 34    | 39    | 42    |
|                  |               |                                      |            | Input Power kW   | 0.10         | 0.20  | 0.28  | 0.29  | 0.41  |
|                  |               |                                      | Thermal    | Output Torque Nm | 142.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      |            | Input Power kW   | 0.38         | 0.40  | 0.79  | 0.69  | 1.00  |
|                  | 800.          | 1.81                                 | Mechanical | Output Torque Nm | 690.         | 668.  | 1630. | 1610. | 2510. |
|                  |               |                                      |            | Efficiency %     | 27           | 29    | 34    | 41    | 45    |

# SERIES AJ

## RATINGS AT 1450 REV/MIN INPUT

|                  | NOMINAL RATIO | NOMINAL<br>OUTPUT SPEED<br>REV / MIN | CAPACITY   |                  | SIZE OF UNIT |       |       |       |       |
|------------------|---------------|--------------------------------------|------------|------------------|--------------|-------|-------|-------|-------|
|                  |               |                                      |            |                  | A0410        | A0510 | A0610 | A0730 | A0860 |
| SINGLE REDUCTION | 900.          | 1.61                                 | Mechanical | Input Power kW   | 0.12         | 0.17  | 0.26  | 0.28  | 0.40  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.41         | 0.48  | 0.81  | 0.77  | 1.10  |
|                  |               |                                      |            | Output Torque Nm | 805.         | 984.  | 1790. | 1930. | 2910. |
|                  |               |                                      |            | Efficiency %     | 27           | 31    | 32    | 37    | 40    |
|                  |               |                                      |            |                  |              |       |       |       |       |
|                  | 1000.         | 1.45                                 | Mechanical | Input Power kW   | 0.12         | 0.17  | 0.24  | 0.26  | 0.37  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.38         | 0.40  | 0.79  | 0.69  | 1.00  |
|                  |               |                                      |            | Output Torque Nm | 746.         | 788.  | 1930. | 1820. | 2840. |
|                  |               |                                      |            | Efficiency %     | 24           | 27    | 31    | 35    | 39    |
|                  |               |                                      |            |                  |              |       |       |       |       |
|                  | 1200.         | 1.21                                 | Mechanical | Input Power kW   | 0.11         | 0.16  | 0.22  | 0.23  | 0.33  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.38         | 0.40  | 0.79  | 0.69  | 1.00  |
|                  |               |                                      |            | Output Torque Nm | 847.         | 916.  | 2190. | 2120. | 3310. |
|                  |               |                                      |            | Efficiency %     | 22           | 25    | 29    | 33    | 37    |
|                  |               |                                      |            |                  |              |       |       |       |       |
|                  | 1250.         | 1.16                                 | Mechanical | Input Power kW   | 0.10         | 0.15  | 0.21  | 0.23  | 0.33  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.33         | 0.34  | 0.68  | 0.52  | 0.72  |
|                  |               |                                      |            | Output Torque Nm | 755.         | 799.  | 1930. | 1600. | 2300. |
|                  |               |                                      |            | Efficiency %     | 22           | 25    | 29    | 32    | 35    |
|                  |               |                                      |            |                  |              |       |       |       |       |
|                  | 1400.         | 1.04                                 | Mechanical | Input Power kW   | 0.08         | 0.10  | 0.20  | 0.21  | 0.30  |
|                  |               |                                      |            | Output Torque Nm | 145.         | 173.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.23         | 0.25  | 0.47  | 0.36  | 0.51  |
|                  |               |                                      |            | Output Torque Nm | 550.         | 558.  | 1380. | 1170. | 1790. |
|                  |               |                                      |            | Efficiency %     | 19           | 19    | 27    | 32    | 36    |
|                  |               |                                      |            |                  |              |       |       |       |       |
|                  | 1500.         | 0.97                                 | Mechanical | Input Power kW   | 0.10         | 0.13  | 0.19  | 0.20  | 0.29  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.33         | 0.34  | 0.68  | 0.52  | 0.72  |
|                  |               |                                      |            | Output Torque Nm | 857.         | 929.  | 2190. | 1870. | 2680. |
|                  |               |                                      |            | Efficiency %     | 20           | 24    | 27    | 30    | 33    |
|                  |               |                                      |            |                  |              |       |       |       |       |
|                  | 1600.         | 0.91                                 | Mechanical | Input Power kW   | 0.08         | 0.11  | 0.17  | 0.20  | 0.28  |
|                  |               |                                      |            | Output Torque Nm | 141.         | 258.  | 425.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.38         | 0.40  | 0.74  | 0.69  | 1.00  |
|                  |               |                                      |            | Output Torque Nm | 1040.        | 1150. | 2480. | 2630. | 4110. |
|                  |               |                                      |            | Efficiency %     | 17           | 22    | 24    | 29    | 33    |
|                  |               |                                      |            |                  |              |       |       |       |       |
|                  | 1750.         | 0.83                                 | Mechanical | Input Power kW   | 0.09         | 0.10  | 0.18  | 0.19  | 0.27  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 203.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.23         | 0.25  | 0.47  | 0.36  | 0.51  |
|                  |               |                                      |            | Output Torque Nm | 590.         | 657.  | 1630. | 1310. | 2010. |
|                  |               |                                      |            | Efficiency %     | 17           | 18    | 24    | 27    | 31    |
|                  |               |                                      |            |                  |              |       |       |       |       |
|                  | 1800.         | 0.81                                 | Mechanical | Input Power kW   | 0.09         | 0.12  | 0.18  | 0.19  | 0.26  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 297.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.27         | 0.30  | 0.56  | 0.42  | 0.62  |
|                  |               |                                      |            | Output Torque Nm | 770.         | 876.  | 1920. | 1590. | 2630. |
|                  |               |                                      |            | Efficiency %     | 17           | 20    | 23    | 26    | 31    |
|                  |               |                                      |            |                  |              |       |       |       |       |
|                  | 2000.         | 0.73                                 | Mechanical | Input Power kW   | 0.07         | 0.10  | 0.15  | 0.17  | 0.25  |
|                  |               |                                      |            | Output Torque Nm | 143.         | 262.  | 432.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.33         | 0.34  | 0.68  | 0.52  | 0.72  |
|                  |               |                                      |            | Output Torque Nm | 1050.        | 1170. | 2690. | 2310. | 3330. |
|                  |               |                                      |            | Efficiency %     | 16           | 20    | 22    | 27    | 29    |
|                  |               |                                      |            |                  |              |       |       |       |       |
|                  | 2100.         | 0.69                                 | Mechanical | Input Power kW   | 0.09         | 0.10  | 0.16  | 0.17  | 0.24  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 237.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.23         | 0.25  | 0.47  | 0.36  | 0.51  |
|                  |               |                                      |            | Output Torque Nm | 669.         | 764.  | 1840. | 1520. | 2340. |
|                  |               |                                      |            | Efficiency %     | 16           | 18    | 22    | 25    | 29    |
|                  |               |                                      |            |                  |              |       |       |       |       |
|                  | 2400.         | 0.60                                 | Mechanical | Input Power kW   | 0.07         | 0.10  | 0.15  | 0.17  | 0.22  |
|                  |               |                                      |            | Output Torque Nm | 145.         | 265.  | 437.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.27         | 0.30  | 0.56  | 0.42  | 0.62  |
|                  |               |                                      |            | Output Torque Nm | 946.         | 1100. | 2350. | 1970. | 3260. |
|                  |               |                                      |            | Efficiency %     | 13           | 17    | 19    | 23    | 27    |
|                  |               |                                      |            |                  |              |       |       |       |       |
|                  | 2500.         | 0.58                                 | Mechanical | Input Power kW   | 0.05         | 0.07  | 0.11  | 0.14  | 0.20  |
|                  |               |                                      |            | Output Torque Nm | 103.         | 188.  | 312.  | 545.  | 854.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.33         | 0.34  | 0.64  | 0.52  | 0.72  |
|                  |               |                                      |            | Output Torque Nm | 1250.        | 1320. | 2960. | 2760. | 3880. |
|                  |               |                                      |            | Efficiency %     | 12           | 15    | 17    | 23    | 25    |
|                  |               |                                      |            |                  |              |       |       |       |       |
|                  | 2800.         | 0.52                                 | Mechanical | Input Power kW   | 0.07         | 0.09  | 0.13  | 0.15  | 0.20  |
|                  |               |                                      |            | Output Torque Nm | 146.         | 268.  | 442.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.23         | 0.25  | 0.47  | 0.36  | 0.51  |
|                  |               |                                      |            | Output Torque Nm | 823.         | 961.  | 2260. | 1880. | 2900. |
|                  |               |                                      |            | Efficiency %     | 12           | 16    | 18    | 22    | 25    |
|                  |               |                                      |            |                  |              |       |       |       |       |
|                  | 3000.         | 0.48                                 | Mechanical | Input Power kW   | 0.05         | 0.07  | 0.11  | 0.14  | 0.19  |
|                  |               |                                      |            | Output Torque Nm | 104.         | 190.  | 316.  | 552.  | 864.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.27         | 0.30  | 0.56  | 0.42  | 0.62  |
|                  |               |                                      |            | Output Torque Nm | 1120.        | 1250. | 2730. | 2350. | 3800. |
|                  |               |                                      |            | Efficiency %     | 10           | 13    | 15    | 20    | 24    |
|                  |               |                                      |            |                  |              |       |       |       |       |
|                  | 3500.         | 0.41                                 | Mechanical | Input Power kW   | 0.05         | 0.07  | 0.10  | 0.13  | 0.17  |
|                  |               |                                      |            | Output Torque Nm | 105.         | 192.  | 319.  | 557.  | 872.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.23         | 0.25  | 0.47  | 0.36  | 0.51  |
|                  |               |                                      |            | Output Torque Nm | 975.         | 1090. | 2620. | 2240. | 3380. |
|                  |               |                                      |            | Efficiency %     | 9            | 12    | 14    | 19    | 22    |
|                  |               |                                      |            |                  |              |       |       |       |       |
|                  | 3600.         | 0.40                                 | Mechanical | Input Power kW   | 0.05         | 0.06  | 0.09  | 0.11  | 0.14  |
|                  |               |                                      |            | Output Torque Nm | 80.          | 146.  | 242.  | 419.  | 653.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.27         | 0.30  | 0.56  | 0.42  | 0.62  |
|                  |               |                                      |            | Output Torque Nm | 1180.        | 1420. | 3120. | 2590. | 4280. |
|                  |               |                                      |            | Efficiency %     | 7            | 10    | 11    | 16    | 19    |
|                  |               |                                      |            |                  |              |       |       |       |       |
|                  | 4200.         | 0.35                                 | Mechanical | Input Power kW   | 0.05         | 0.06  | 0.08  | 0.10  | 0.13  |
|                  |               |                                      |            | Output Torque Nm | 80.          | 148.  | 244.  | 423.  | 659.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.23         | 0.25  | 0.47  | 0.36  | 0.51  |
|                  |               |                                      |            | Output Torque Nm | 1030.        | 1240. | 2990. | 2470. | 3800. |
|                  |               |                                      |            | Efficiency %     | 6            | 9     | 11    | 15    | 18    |
|                  |               |                                      |            |                  |              |       |       |       |       |

# SERIES AJ

## RATINGS AT 1160 REV/MIN INPUT

|                  | NOMINAL RATIO | NOMINAL<br>OUTPUT SPEED<br>REV / MIN | CAPACITY   |                  | SIZE OF UNIT |       |       |       |       |       |
|------------------|---------------|--------------------------------------|------------|------------------|--------------|-------|-------|-------|-------|-------|
|                  |               |                                      |            |                  | A0280        | A0410 | A0510 | A0610 | A0730 | A0860 |
| SINGLE REDUCTION | 5.0           | 232.00                               | Mechanical | Input Power kW   | 0.59         | 1.34  | 2.89  | 4.34  | 6.17  | 10.70 |
|                  |               |                                      |            | Output Torque Nm | 22.          | 51.   | 103.  | 162.  | 246.  | 400.  |
|                  |               |                                      | Thermal    | Input Power kW   | 1.46         | 2.22  | 3.62  | 5.12  | 10.40 | 12.70 |
|                  |               |                                      |            | Output Torque Nm | 56.          | 85.   | 129.  | 191.  | 414.  | 475.  |
|                  |               |                                      |            | Efficiency %     | 87           | 88    | 90    | 91    | 93    | 94    |
|                  | 7.5           | 154.67                               | Mechanical | Input Power kW   | 0.53         | 1.17  | 2.02  | 3.12  | 4.70  | 7.15  |
|                  |               |                                      |            | Output Torque Nm | 27.          | 61.   | 107.  | 167.  | 257.  | 394.  |
|                  |               |                                      | Thermal    | Input Power kW   | 1.19         | 1.86  | 2.96  | 4.35  | 8.98  | 10.80 |
|                  |               |                                      |            | Output Torque Nm | 61.          | 97.   | 157.  | 234.  | 495.  | 598.  |
|                  |               |                                      |            | Efficiency %     | 84           | 86    | 88    | 89    | 92    | 92    |
|                  | 10.0          | 116.00                               | Mechanical | Input Power kW   | 0.48         | 1.16  | 2.03  | 2.76  | 3.87  | 6.26  |
|                  |               |                                      |            | Output Torque Nm | 33.          | 83.   | 148.  | 191.  | 296.  | 453.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.92         | 1.50  | 2.30  | 3.76  | 7.43  | 9.07  |
|                  |               |                                      |            | Output Torque Nm | 64.          | 108.  | 168.  | 261.  | 574.  | 659.  |
|                  |               |                                      |            | Efficiency %     | 80           | 82    | 84    | 87    | 90    | 91    |
|                  | 12.5          | 92.80                                | Mechanical | Input Power kW   | 0.43         | 1.07  | 1.78  | 2.81  | 4.14  | 5.62  |
|                  |               |                                      |            | Output Torque Nm | 34.          | 88.   | 151.  | 243.  | 376.  | 526.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.77         | 1.29  | 2.06  | 3.03  | 6.02  | 8.06  |
|                  |               |                                      |            | Output Torque Nm | 62.          | 107.  | 175.  | 262.  | 549.  | 759.  |
|                  |               |                                      |            | Efficiency %     | 76           | 80    | 82    | 84    | 88    | 90    |
|                  | 15.0          | 77.33                                | Mechanical | Input Power kW   | 0.39         | 1.02  | 1.59  | 2.40  | 3.69  | 5.60  |
|                  |               |                                      |            | Output Torque Nm | 36.          | 96.   | 155.  | 244.  | 384.  | 589.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.76         | 1.18  | 2.00  | 2.71  | 5.64  | 6.76  |
|                  |               |                                      |            | Output Torque Nm | 70.          | 111.  | 197.  | 276.  | 591.  | 712.  |
|                  |               |                                      |            | Efficiency %     | 76           | 79    | 82    | 82    | 87    | 88    |
|                  | 20.0          | 58.00                                | Mechanical | Input Power kW   | 0.34         | 0.78  | 1.52  | 2.42  | 2.75  | 4.14  |
|                  |               |                                      |            | Output Torque Nm | 37.          | 95.   | 185.  | 304.  | 374.  | 569.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.52         | 1.10  | 1.34  | 1.98  | 4.75  | 5.67  |
|                  |               |                                      |            | Output Torque Nm | 57.          | 136.  | 163.  | 247.  | 653.  | 783.  |
|                  |               |                                      |            | Efficiency %     | 66           | 76    | 74    | 76    | 85    | 86    |
|                  | 25.0          | 46.40                                | Mechanical | Input Power kW   | 0.31         | 0.77  | 1.28  | 2.01  | 2.78  | 3.98  |
|                  |               |                                      |            | Output Torque Nm | 40.          | 109.  | 186.  | 303.  | 454.  | 657.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.47         | 0.80  | 1.21  | 1.76  | 3.38  | 4.02  |
|                  |               |                                      |            | Output Torque Nm | 63.          | 113.  | 176.  | 265.  | 554.  | 664.  |
|                  |               |                                      |            | Efficiency %     | 63           | 69    | 71    | 73    | 79    | 80    |
|                  | 30.0          | 38.67                                | Mechanical | Input Power kW   | 0.25         | 0.68  | 1.05  | 1.62  | 2.35  | 3.55  |
|                  |               |                                      |            | Output Torque Nm | 38.          | 110.  | 179.  | 281.  | 450.  | 692.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.44         | 0.73  | 1.14  | 1.60  | 3.13  | 3.74  |
|                  |               |                                      |            | Output Torque Nm | 67.          | 119.  | 193.  | 276.  | 604.  | 729.  |
|                  |               |                                      |            | Efficiency %     | 60           | 66    | 69    | 70    | 78    | 79    |
|                  | 40.0          | 29.00                                | Mechanical | Input Power kW   | 0.19         | 0.50  | 0.80  | 1.20  | 1.71  | 2.60  |
|                  |               |                                      |            | Output Torque Nm | 32.          | 101.  | 170.  | 260.  | 414.  | 642.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.37         | 0.65  | 1.03  | 1.40  | 2.69  | 3.22  |
|                  |               |                                      |            | Output Torque Nm | 65.          | 133.  | 223.  | 305.  | 660.  | 800.  |
|                  |               |                                      |            | Efficiency %     | 51           | 61    | 65    | 66    | 74    | 75    |
|                  | 50.0          | 23.20                                | Mechanical | Input Power kW   | 0.13         | 0.34  | 0.59  | 0.94  | 1.34  | 1.97  |
|                  |               |                                      |            | Output Torque Nm | 26.          | 79.   | 145.  | 238.  | 390.  | 577.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.30         | 0.50  | 0.75  | 1.04  | 2.02  | 2.32  |
|                  |               |                                      |            | Output Torque Nm | 62.          | 120.  | 186.  | 265.  | 595.  | 683.  |
|                  |               |                                      |            | Efficiency %     | 48           | 57    | 60    | 62    | 71    | 71    |
|                  | 60.0          | 19.33                                | Mechanical | Input Power kW   | 0.09         | 0.25  | 0.41  | 0.65  | 0.99  | 1.50  |
|                  |               |                                      |            | Output Torque Nm | 20.          | 61.   | 112.  | 186.  | 322.  | 502.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.25         | 0.41  | 0.65  | 0.90  | 1.64  | 1.93  |
|                  |               |                                      |            | Output Torque Nm | 57.          | 105.  | 185.  | 263.  | 549.  | 653.  |
|                  |               |                                      |            | Efficiency %     | 42           | 50    | 56    | 58    | 66    | 68    |
|                  | 70.0          | 16.57                                | Mechanical | Input Power kW   | 0.07         | 0.18  | 0.29  | 0.49  | 0.71  | 1.12  |
|                  |               |                                      |            | Output Torque Nm | 16.          | 50.   | 88.   | 150.  | 253.  | 411.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.21         | 0.34  | 0.53  | 0.71  | 1.28  | 1.50  |
|                  |               |                                      |            | Output Torque Nm | 51.          | 102.  | 168.  | 226.  | 470.  | 561.  |
|                  |               |                                      |            | Efficiency %     | 38           | 48    | 52    | 53    | 62    | 64    |

# SERIES AJ

## RATINGS AT 1160 REV/MIN INPUT

|                  | NOMINAL RATIO | NOMINAL<br>OUTPUT SPEED<br>REV / MIN | CAPACITY   |                  | SIZE OF UNIT |       |       |       |       |
|------------------|---------------|--------------------------------------|------------|------------------|--------------|-------|-------|-------|-------|
|                  |               |                                      |            |                  | A0410        | A0510 | A0610 | A0730 | A0860 |
| SINGLE REDUCTION | 75.0          | 15.47                                | Mechanical | Input Power kW   | 0.40         | 0.54  | 0.94  | 1.17  | 2.22  |
|                  |               |                                      |            | Output Torque Nm | 158.         | 226.  | 406.  | 526.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.70         | 1.26  | 1.63  | 2.16  | 2.49  |
|                  |               |                                      |            | Output Torque Nm | 279.         | 535.  | 715.  | 992.  | 1070. |
|                  |               |                                      |            | Efficiency %     | 63           | 66    | 66    | 72    | 75    |
|                  | 100.          | 11.60                                | Mechanical | Input Power kW   | 0.25         | 0.54  | 0.91  | 1.03  | 1.67  |
|                  |               |                                      |            | Output Torque Nm | 125.         | 270.  | 468.  | 603.  | 921.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.67         | 0.81  | 1.17  | 1.96  | 2.13  |
|                  |               |                                      |            | Output Torque Nm | 355.         | 405.  | 610.  | 1160. | 1180. |
|                  |               |                                      |            | Efficiency %     | 60           | 58    | 59    | 69    | 72    |
|                  | 125.          | 9.28                                 | Mechanical | Input Power kW   | 0.30         | 0.50  | 0.80  | 0.90  | 1.48  |
|                  |               |                                      |            | Output Torque Nm | 172.         | 297.  | 487.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.48         | 0.72  | 1.04  | 1.44  | 1.56  |
|                  |               |                                      |            | Output Torque Nm | 277.         | 430.  | 639.  | 984.  | 1000. |
|                  |               |                                      |            | Efficiency %     | 53           | 55    | 56    | 62    | 65    |
|                  | 150.          | 7.73                                 | Mechanical | Input Power kW   | 0.27         | 0.36  | 0.61  | 0.74  | 1.13  |
|                  |               |                                      |            | Output Torque Nm | 184.         | 268.  | 474.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.61         | 0.91  | 1.38  | 1.46  | 1.98  |
|                  |               |                                      |            | Output Torque Nm | 436.         | 691.  | 1110. | 1220. | 1690. |
|                  |               |                                      |            | Efficiency %     | 55           | 59    | 60    | 65    | 67    |
|                  | 200.          | 5.80                                 | Mechanical | Input Power kW   | 0.16         | 0.36  | 0.55  | 0.58  | 0.89  |
|                  |               |                                      |            | Output Torque Nm | 133.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.59         | 0.70  | 0.99  | 1.46  | 1.70  |
|                  |               |                                      |            | Output Torque Nm | 560.         | 627.  | 931.  | 1580. | 1880. |
|                  |               |                                      |            | Efficiency %     | 51           | 50    | 53    | 62    | 64    |
|                  | 225.          | 5.16                                 | Mechanical | Input Power kW   | 0.21         | 0.30  | 0.51  | 0.58  | 0.86  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 282.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.58         | 0.75  | 1.32  | 1.15  | 1.79  |
|                  |               |                                      |            | Output Torque Nm | 540.         | 738.  | 1370. | 1240. | 2030. |
|                  |               |                                      |            | Efficiency %     | 51           | 55    | 55    | 60    | 64    |
|                  | 250.          | 4.64                                 | Mechanical | Input Power kW   | 0.20         | 0.30  | 0.47  | 0.51  | 0.78  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.42         | 0.63  | 0.88  | 1.27  | 1.26  |
|                  |               |                                      |            | Output Torque Nm | 428.         | 668.  | 976.  | 1570. | 1580. |
|                  |               |                                      |            | Efficiency %     | 45           | 47    | 49    | 55    | 57    |
|                  | 300.          | 3.87                                 | Mechanical | Input Power kW   | 0.19         | 0.26  | 0.39  | 0.45  | 0.71  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 285.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.48         | 0.50  | 1.24  | 1.07  | 1.20  |
|                  |               |                                      |            | Output Torque Nm | 524.         | 573.  | 1680. | 1510. | 1650. |
|                  |               |                                      |            | Efficiency %     | 42           | 46    | 53    | 58    | 56    |
|                  | 350.          | 3.31                                 | Mechanical | Input Power kW   | 0.15         | 0.24  | 0.37  | 0.41  | 0.37  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 466.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.40         | 0.61  | 0.84  | 1.15  | 0.66  |
|                  |               |                                      |            | Output Torque Nm | 530.         | 825.  | 1200. | 1830. | 884.  |
|                  |               |                                      |            | Efficiency %     | 41           | 44    | 45    | 50    | 46    |
|                  | 375.          | 3.09                                 | Mechanical | Input Power kW   | 0.06         | 0.09  | 0.17  | 0.23  | 0.60  |
|                  |               |                                      |            | Output Torque Nm | 57.          | 100.  | 171.  | 288.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.25         | 0.39  | 0.56  | 0.62  | 1.18  |
|                  |               |                                      |            | Output Torque Nm | 295.         | 484.  | 681.  | 875.  | 1950. |
|                  |               |                                      |            | Efficiency %     | 30           | 35    | 33    | 41    | 54    |
|                  | 400.          | 2.90                                 | Mechanical | Input Power kW   | 0.11         | 0.24  | 0.34  | 0.36  | 0.56  |
|                  |               |                                      |            | Output Torque Nm | 138.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.48         | 0.50  | 0.89  | 1.07  | 1.20  |
|                  |               |                                      |            | Output Torque Nm | 689.         | 668.  | 1400. | 1950. | 2120. |
|                  |               |                                      |            | Efficiency %     | 38           | 39    | 46    | 54    | 52    |
|                  | 450.          | 2.58                                 | Mechanical | Input Power kW   | 0.14         | 0.21  | 0.33  | 0.35  | 0.52  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.38         | 0.60  | 0.79  | 1.15  | 1.12  |
|                  |               |                                      |            | Output Torque Nm | 564.         | 946.  | 1270. | 2130. | 2150. |
|                  |               |                                      |            | Efficiency %     | 38           | 42    | 42    | 48    | 52    |
|                  | 500.          | 2.32                                 | Mechanical | Input Power kW   | 0.14         | 0.21  | 0.29  | 0.32  | 0.50  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.42         | 0.50  | 0.79  | 1.07  | 1.20  |
|                  |               |                                      |            | Output Torque Nm | 664.         | 791.  | 1460. | 2210. | 2410. |
|                  |               |                                      |            | Efficiency %     | 33           | 36    | 43    | 47    | 46    |
|                  | 600.          | 1.93                                 | Mechanical | Input Power kW   | 0.12         | 0.18  | 0.26  | 0.28  | 0.44  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.40         | 0.50  | 0.74  | 1.07  | 1.18  |
|                  |               |                                      |            | Output Torque Nm | 707.         | 919.  | 1560. | 2580. | 2760. |
|                  |               |                                      |            | Efficiency %     | 31           | 34    | 40    | 45    | 44    |
|                  | 625.          | 1.86                                 | Mechanical | Input Power kW   | 0.12         | 0.18  | 0.27  | 0.29  | 0.43  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.42         | 0.46  | 0.83  | 0.77  | 1.08  |
|                  |               |                                      |            | Output Torque Nm | 777.         | 859.  | 1740. | 1780. | 2570. |
|                  |               |                                      |            | Efficiency %     | 31           | 34    | 36    | 41    | 43    |
|                  | 700.          | 1.66                                 | Mechanical | Input Power kW   | 0.08         | 0.08  | 0.19  | 0.18  | 0.30  |
|                  |               |                                      |            | Output Torque Nm | 119.         | 115.  | 359.  | 391.  | 674.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.21         | 0.22  | 0.44  | 0.34  | 0.47  |
|                  |               |                                      |            | Output Torque Nm | 371.         | 410.  | 961.  | 800.  | 1140. |
|                  |               |                                      |            | Efficiency %     | 24           | 24    | 35    | 36    | 41    |
|                  | 750.          | 1.55                                 | Mechanical | Input Power kW   | 0.11         | 0.16  | 0.24  | 0.25  | 0.38  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.39         | 0.46  | 0.77  | 0.77  | 1.08  |
|                  |               |                                      |            | Output Torque Nm | 829.         | 999.  | 1840. | 2080. | 3000. |
|                  |               |                                      |            | Efficiency %     | 29           | 32    | 34    | 38    | 41    |
|                  | 800.          | 1.45                                 | Mechanical | Input Power kW   | 0.08         | 0.16  | 0.23  | 0.24  | 0.34  |
|                  |               |                                      |            | Output Torque Nm | 143.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.34         | 0.35  | 0.71  | 0.63  | 0.92  |
|                  |               |                                      |            | Output Torque Nm | 755.         | 724.  | 1780. | 1800. | 2840. |
|                  |               |                                      |            | Efficiency %     | 26           | 29    | 34    | 40    | 44    |

# SERIES AJ

## RATINGS AT 1160 REV/MIN INPUT

|                  | NOMINAL RATIO | NOMINAL<br>OUTPUT SPEED<br>REV / MIN | CAPACITY   |                  | SIZE OF UNIT |       |       |       |       |
|------------------|---------------|--------------------------------------|------------|------------------|--------------|-------|-------|-------|-------|
|                  |               |                                      |            |                  | A0410        | A0510 | A0610 | A0730 | A0860 |
| SINGLE REDUCTION | 900.          | 1.29                                 | Mechanical | Input Power kW   | 0.10         | 0.14  | 0.21  | 0.23  | 0.33  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.39         | 0.43  | 0.77  | 0.71  | 1.02  |
|                  |               |                                      |            | Output Torque Nm | 946.         | 1060. | 2090. | 2160. | 3280. |
|                  |               |                                      |            | Efficiency %     | 27           | 30    | 32    | 36    | 39    |
|                  | 1000.         | 1.16                                 | Mechanical | Input Power kW   | 0.10         | 0.14  | 0.20  | 0.21  | 0.31  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.34         | 0.35  | 0.71  | 0.63  | 0.92  |
|                  |               |                                      |            | Output Torque Nm | 813.         | 854.  | 2090. | 2020. | 3190. |
|                  |               |                                      |            | Efficiency %     | 24           | 26    | 31    | 34    | 38    |
|                  | 1200.         | 0.97                                 | Mechanical | Input Power kW   | 0.09         | 0.13  | 0.18  | 0.19  | 0.27  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.34         | 0.35  | 0.71  | 0.63  | 0.92  |
|                  |               |                                      |            | Output Torque Nm | 923.         | 993.  | 2370. | 2360. | 3730. |
|                  |               |                                      |            | Efficiency %     | 21           | 25    | 28    | 32    | 36    |
|                  | 1250.         | 0.93                                 | Mechanical | Input Power kW   | 0.08         | 0.12  | 0.17  | 0.19  | 0.27  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.29         | 0.30  | 0.61  | 0.49  | 0.67  |
|                  |               |                                      |            | Output Torque Nm | 828.         | 869.  | 2110. | 1820. | 2610. |
|                  |               |                                      |            | Efficiency %     | 22           | 25    | 28    | 32    | 34    |
|                  | 1400.         | 0.83                                 | Mechanical | Input Power kW   | 0.07         | 0.08  | 0.16  | 0.17  | 0.24  |
|                  |               |                                      |            | Output Torque Nm | 147.         | 175.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.21         | 0.22  | 0.44  | 0.34  | 0.47  |
|                  |               |                                      |            | Output Torque Nm | 620.         | 625.  | 1570. | 1350. | 2060. |
|                  |               |                                      |            | Efficiency %     | 19           | 19    | 27    | 32    | 35    |
|                  | 1500.         | 0.77                                 | Mechanical | Input Power kW   | 0.08         | 0.11  | 0.16  | 0.16  | 0.24  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.29         | 0.30  | 0.61  | 0.49  | 0.67  |
|                  |               |                                      |            | Output Torque Nm | 939.         | 1010. | 2390. | 2120. | 3040. |
|                  |               |                                      |            | Efficiency %     | 20           | 23    | 26    | 30    | 32    |
|                  | 1600.         | 0.73                                 | Mechanical | Input Power kW   | 0.06         | 0.09  | 0.14  | 0.16  | 0.22  |
|                  |               |                                      |            | Output Torque Nm | 143.         | 262.  | 432.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.34         | 0.35  | 0.70  | 0.63  | 0.92  |
|                  |               |                                      |            | Output Torque Nm | 1140.        | 1250. | 2900. | 2920. | 4630. |
|                  |               |                                      |            | Efficiency %     | 17           | 21    | 24    | 29    | 32    |
|                  | 1750.         | 0.66                                 | Mechanical | Input Power kW   | 0.08         | 0.08  | 0.15  | 0.16  | 0.22  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 207.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.21         | 0.22  | 0.44  | 0.34  | 0.47  |
|                  |               |                                      |            | Output Torque Nm | 665.         | 737.  | 1850. | 1510. | 2300. |
|                  |               |                                      |            | Efficiency %     | 17           | 18    | 24    | 27    | 30    |
|                  | 1800.         | 0.64                                 | Mechanical | Input Power kW   | 0.07         | 0.10  | 0.15  | 0.16  | 0.21  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 302.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.25         | 0.27  | 0.51  | 0.39  | 0.58  |
|                  |               |                                      |            | Output Torque Nm | 860.         | 958.  | 2140. | 1820. | 3000. |
|                  |               |                                      |            | Efficiency %     | 17           | 20    | 23    | 26    | 30    |
|                  | 2000.         | 0.58                                 | Mechanical | Input Power kW   | 0.06         | 0.08  | 0.12  | 0.14  | 0.20  |
|                  |               |                                      |            | Output Torque Nm | 145.         | 266.  | 438.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.29         | 0.30  | 0.61  | 0.49  | 0.67  |
|                  |               |                                      |            | Output Torque Nm | 1160.        | 1270. | 2940. | 2630. | 3770. |
|                  |               |                                      |            | Efficiency %     | 16           | 20    | 22    | 26    | 29    |
|                  | 2100.         | 0.55                                 | Mechanical | Input Power kW   | 0.07         | 0.08  | 0.13  | 0.14  | 0.19  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 240.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.21         | 0.22  | 0.44  | 0.34  | 0.47  |
|                  |               |                                      |            | Output Torque Nm | 753.         | 857.  | 2100. | 1760. | 2690. |
|                  |               |                                      |            | Efficiency %     | 16           | 17    | 22    | 25    | 28    |
|                  | 2400.         | 0.48                                 | Mechanical | Input Power kW   | 0.06         | 0.08  | 0.12  | 0.13  | 0.18  |
|                  |               |                                      |            | Output Torque Nm | 147.         | 269.  | 444.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.25         | 0.27  | 0.51  | 0.39  | 0.58  |
|                  |               |                                      |            | Output Torque Nm | 1060.        | 1210. | 2620. | 2260. | 3710. |
|                  |               |                                      |            | Efficiency %     | 13           | 17    | 19    | 23    | 27    |
|                  | 2500.         | 0.46                                 | Mechanical | Input Power kW   | 0.04         | 0.06  | 0.09  | 0.12  | 0.17  |
|                  |               |                                      |            | Output Torque Nm | 104.         | 191.  | 317.  | 553.  | 866.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.29         | 0.30  | 0.61  | 0.49  | 0.67  |
|                  |               |                                      |            | Output Torque Nm | 1370.        | 1440. | 3400. | 3130. | 4400. |
|                  |               |                                      |            | Efficiency %     | 12           | 15    | 17    | 23    | 25    |
|                  | 2800.         | 0.41                                 | Mechanical | Input Power kW   | 0.05         | 0.07  | 0.11  | 0.12  | 0.16  |
|                  |               |                                      |            | Output Torque Nm | 148.         | 272.  | 448.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.21         | 0.22  | 0.44  | 0.34  | 0.47  |
|                  |               |                                      |            | Output Torque Nm | 926.         | 1080. | 2570. | 2170. | 3320. |
|                  |               |                                      |            | Efficiency %     | 12           | 16    | 18    | 22    | 25    |
|                  | 3000.         | 0.39                                 | Mechanical | Input Power kW   | 0.04         | 0.06  | 0.09  | 0.11  | 0.15  |
|                  |               |                                      |            | Output Torque Nm | 106.         | 193.  | 321.  | 559.  | 876.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.25         | 0.27  | 0.51  | 0.39  | 0.58  |
|                  |               |                                      |            | Output Torque Nm | 1250.        | 1360. | 3040. | 2690. | 4320. |
|                  |               |                                      |            | Efficiency %     | 10           | 13    | 15    | 20    | 23    |
|                  | 3500.         | 0.33                                 | Mechanical | Input Power kW   | 0.04         | 0.06  | 0.08  | 0.10  | 0.14  |
|                  |               |                                      |            | Output Torque Nm | 107.         | 195.  | 324.  | 565.  | 884.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.21         | 0.22  | 0.44  | 0.34  | 0.47  |
|                  |               |                                      |            | Output Torque Nm | 1100.        | 1220. | 2980. | 2590. | 3870. |
|                  |               |                                      |            | Efficiency %     | 9            | 12    | 14    | 19    | 22    |
|                  | 3600.         | 0.32                                 | Mechanical | Input Power kW   | 0.04         | 0.05  | 0.07  | 0.09  | 0.12  |
|                  |               |                                      |            | Output Torque Nm | 81.          | 148.  | 245.  | 425.  | 662.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.25         | 0.27  | 0.51  | 0.39  | 0.58  |
|                  |               |                                      |            | Output Torque Nm | 1320.        | 1560. | 3470. | 2960. | 4860. |
|                  |               |                                      |            | Efficiency %     | 7            | 10    | 11    | 16    | 19    |
|                  | 4200.         | 0.28                                 | Mechanical | Input Power kW   | 0.04         | 0.05  | 0.07  | 0.08  | 0.11  |
|                  |               |                                      |            | Output Torque Nm | 81.          | 150.  | 247.  | 428.  | 668.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.21         | 0.22  | 0.44  | 0.34  | 0.47  |
|                  |               |                                      |            | Output Torque Nm | 1150.        | 1390. | 3400. | 2850. | 4350. |
|                  |               |                                      |            | Efficiency %     | 6            | 9     | 11    | 15    | 18    |

# SERIES AJ

## RATINGS AT 960 REV/MIN INPUT

|                  | NOMINAL RATIO | NOMINAL<br>OUTPUT SPEED<br>REV / MIN | CAPACITY   |                  | SIZE OF UNIT |       |       |       |       |       |
|------------------|---------------|--------------------------------------|------------|------------------|--------------|-------|-------|-------|-------|-------|
|                  |               |                                      |            |                  | A0280        | A0410 | A0510 | A0610 | A0730 | A0860 |
| SINGLE REDUCTION | 5.0           | 192.00                               | Mechanical | Input Power kW   | 0.53         | 1.20  | 2.60  | 3.91  | 5.55  | 9.66  |
|                  |               |                                      |            | Output Torque Nm | 24.          | 55.   | 111.  | 175.  | 266.  | 434.  |
|                  |               |                                      | Thermal    | Input Power kW   | 1.32         | 2.05  | 3.31  | 4.71  | 8.97  | 10.90 |
|                  |               |                                      |            | Output Torque Nm | 61.          | 95.   | 142.  | 211.  | 432.  | 490.  |
|                  |               |                                      |            | Efficiency %     | 87           | 87    | 89    | 90    | 93    | 93    |
|                  | 7.5           | 128.00                               | Mechanical | Input Power kW   | 0.47         | 1.05  | 1.81  | 2.79  | 4.20  | 6.40  |
|                  |               |                                      |            | Output Torque Nm | 29.          | 65.   | 115.  | 180.  | 277.  | 425.  |
|                  |               |                                      | Thermal    | Input Power kW   | 1.08         | 1.72  | 2.73  | 4.02  | 7.79  | 9.28  |
|                  |               |                                      |            | Output Torque Nm | 67.          | 108.  | 174.  | 260.  | 516.  | 618.  |
|                  |               |                                      |            | Efficiency %     | 84           | 85    | 87    | 88    | 91    | 92    |
|                  | 10.0          | 96.00                                | Mechanical | Input Power kW   | 0.43         | 1.03  | 1.81  | 2.46  | 3.45  | 5.58  |
|                  |               |                                      |            | Output Torque Nm | 35.          | 89.   | 158.  | 204.  | 318.  | 486.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.83         | 1.39  | 2.13  | 3.48  | 6.45  | 7.80  |
|                  |               |                                      |            | Output Torque Nm | 70.          | 120.  | 187.  | 291.  | 599.  | 681.  |
|                  |               |                                      |            | Efficiency %     | 79           | 82    | 84    | 86    | 90    | 91    |
|                  | 12.5          | 76.80                                | Mechanical | Input Power kW   | 0.39         | 0.95  | 1.59  | 2.50  | 3.69  | 5.01  |
|                  |               |                                      |            | Output Torque Nm | 36.          | 94.   | 162.  | 260.  | 403.  | 564.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.71         | 1.20  | 1.90  | 2.81  | 5.24  | 6.94  |
|                  |               |                                      |            | Output Torque Nm | 68.          | 120.  | 194.  | 292.  | 574.  | 784.  |
|                  |               |                                      |            | Efficiency %     | 76           | 80    | 82    | 84    | 88    | 89    |
|                  | 15.0          | 64.00                                | Mechanical | Input Power kW   | 0.35         | 0.91  | 1.41  | 2.14  | 3.29  | 4.99  |
|                  |               |                                      |            | Output Torque Nm | 38.          | 102.  | 166.  | 261.  | 412.  | 631.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.70         | 1.10  | 1.85  | 2.52  | 4.91  | 5.83  |
|                  |               |                                      |            | Output Torque Nm | 77.          | 124.  | 218.  | 307.  | 617.  | 737.  |
|                  |               |                                      |            | Efficiency %     | 76           | 78    | 82    | 82    | 87    | 88    |
|                  | 20.0          | 48.00                                | Mechanical | Input Power kW   | 0.31         | 0.69  | 1.36  | 2.17  | 2.45  | 3.69  |
|                  |               |                                      |            | Output Torque Nm | 40.          | 102.  | 198.  | 325.  | 400.  | 609.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.47         | 1.02  | 1.25  | 1.85  | 4.14  | 4.89  |
|                  |               |                                      |            | Output Torque Nm | 61.          | 152.  | 181.  | 276.  | 682.  | 810.  |
|                  |               |                                      |            | Efficiency %     | 65           | 76    | 73    | 75    | 84    | 85    |
|                  | 25.0          | 38.40                                | Mechanical | Input Power kW   | 0.28         | 0.69  | 1.14  | 1.80  | 2.48  | 3.55  |
|                  |               |                                      |            | Output Torque Nm | 43.          | 116.  | 198.  | 323.  | 485.  | 703.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.43         | 0.74  | 1.13  | 1.65  | 2.95  | 3.48  |
|                  |               |                                      |            | Output Torque Nm | 68.          | 126.  | 195.  | 296.  | 579.  | 688.  |
|                  |               |                                      |            | Efficiency %     | 62           | 68    | 69    | 72    | 79    | 80    |
|                  | 30.0          | 32.00                                | Mechanical | Input Power kW   | 0.23         | 0.60  | 0.94  | 1.45  | 2.10  | 3.18  |
|                  |               |                                      |            | Output Torque Nm | 40.          | 117.  | 190.  | 300.  | 480.  | 739.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.40         | 0.68  | 1.06  | 1.49  | 2.74  | 3.24  |
|                  |               |                                      |            | Output Torque Nm | 73.          | 132.  | 215.  | 308.  | 631.  | 756.  |
|                  |               |                                      |            | Efficiency %     | 59           | 65    | 68    | 69    | 77    | 78    |
|                  | 40.0          | 24.00                                | Mechanical | Input Power kW   | 0.16         | 0.45  | 0.71  | 1.07  | 1.52  | 2.32  |
|                  |               |                                      |            | Output Torque Nm | 33.          | 107.  | 180.  | 276.  | 441.  | 684.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.33         | 0.61  | 0.96  | 1.31  | 2.36  | 2.79  |
|                  |               |                                      |            | Output Torque Nm | 70.          | 148.  | 248.  | 340.  | 690.  | 828.  |
|                  |               |                                      |            | Efficiency %     | 51           | 60    | 64    | 65    | 73    | 74    |
|                  | 50.0          | 19.20                                | Mechanical | Input Power kW   | 0.11         | 0.29  | 0.51  | 0.82  | 1.19  | 1.75  |
|                  |               |                                      |            | Output Torque Nm | 26.          | 81.   | 148.  | 246.  | 414.  | 613.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.27         | 0.47  | 0.70  | 0.98  | 1.77  | 2.02  |
|                  |               |                                      |            | Output Torque Nm | 68.          | 134.  | 207.  | 297.  | 623.  | 709.  |
|                  |               |                                      |            | Efficiency %     | 47           | 56    | 59    | 61    | 70    | 70    |
|                  | 60.0          | 16.00                                | Mechanical | Input Power kW   | 0.08         | 0.21  | 0.35  | 0.56  | 0.84  | 1.29  |
|                  |               |                                      |            | Output Torque Nm | 20.          | 62.   | 115.  | 189.  | 328.  | 512.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.23         | 0.38  | 0.61  | 0.85  | 1.45  | 1.69  |
|                  |               |                                      |            | Output Torque Nm | 63.          | 118.  | 207.  | 296.  | 576.  | 679.  |
|                  |               |                                      |            | Efficiency %     | 42           | 49    | 55    | 57    | 65    | 67    |
|                  | 70.0          | 13.71                                | Mechanical | Input Power kW   | 0.06         | 0.16  | 0.25  | 0.42  | 0.61  | 0.96  |
|                  |               |                                      |            | Output Torque Nm | 16.          | 51.   | 90.   | 153.  | 258.  | 419.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.19         | 0.32  | 0.50  | 0.67  | 1.13  | 1.32  |
|                  |               |                                      |            | Output Torque Nm | 56.          | 114.  | 188.  | 255.  | 494.  | 584.  |
|                  |               |                                      |            | Efficiency %     | 38           | 47    | 52    | 53    | 61    | 63    |

# SERIES AJ

## RATINGS AT 960 REV/MIN INPUT

|                  | NOMINAL RATIO | NOMINAL<br>OUTPUT SPEED<br>REV / MIN | CAPACITY   |                  | SIZE OF UNIT |       |       |       |       |
|------------------|---------------|--------------------------------------|------------|------------------|--------------|-------|-------|-------|-------|
|                  |               |                                      |            |                  | A0410        | A0510 | A0610 | A0730 | A0860 |
| SINGLE REDUCTION | 75.0          | 12.80                                | Mechanical | Input Power kW   | 0.35         | 0.49  | 0.83  | 1.04  | 1.86  |
|                  |               |                                      |            | Output Torque Nm | 165.         | 242.  | 425.  | 564.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.65         | 1.19  | 1.54  | 1.99  | 2.26  |
|                  |               |                                      |            | Output Torque Nm | 313.         | 601.  | 807.  | 1090. | 1160. |
|                  | 100.          | 9.60                                 | Mechanical | Efficiency %     | 62           | 66    | 66    | 72    | 74    |
|                  |               |                                      |            | Input Power kW   | 0.21         | 0.49  | 0.79  | 0.87  | 1.44  |
|                  |               |                                      | Thermal    | Output Torque Nm | 127.         | 288.  | 485.  | 603.  | 950.  |
|                  |               |                                      |            | Input Power kW   | 0.63         | 0.76  | 1.10  | 1.85  | 1.94  |
|                  | 125.          | 7.68                                 | Mechanical | Output Torque Nm | 399.         | 454.  | 682.  | 1310. | 1280. |
|                  |               |                                      |            | Efficiency %     | 59           | 57    | 59    | 68    | 71    |
|                  |               |                                      | Thermal    | Input Power kW   | 0.26         | 0.44  | 0.69  | 0.75  | 1.25  |
|                  |               |                                      |            | Output Torque Nm | 179.         | 309.  | 501.  | 603.  | 950.  |
|                  | 150.          | 6.40                                 | Mechanical | Input Power kW   | 0.45         | 0.68  | 0.97  | 1.36  | 1.42  |
|                  |               |                                      |            | Output Torque Nm | 310.         | 485.  | 714.  | 1110. | 1080. |
|                  |               |                                      | Thermal    | Efficiency %     | 52           | 54    | 56    | 61    | 64    |
|                  |               |                                      |            | Input Power kW   | 0.23         | 0.31  | 0.53  | 0.62  | 0.95  |
|                  | 200.          | 4.80                                 | Mechanical | Output Torque Nm | 189.         | 276.  | 492.  | 603.  | 950.  |
|                  |               |                                      |            | Input Power kW   | 0.58         | 0.82  | 1.31  | 1.35  | 1.87  |
|                  |               |                                      | Thermal    | Output Torque Nm | 494.         | 741.  | 1260. | 1350. | 1910. |
|                  |               |                                      |            | Efficiency %     | 54           | 58    | 59    | 64    | 66    |
|                  | 225.          | 4.27                                 | Mechanical | Input Power kW   | 0.13         | 0.30  | 0.46  | 0.49  | 0.74  |
|                  |               |                                      |            | Output Torque Nm | 134.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.56         | 0.67  | 0.94  | 1.35  | 1.62  |
|                  |               |                                      |            | Output Torque Nm | 636.         | 709.  | 1050. | 1750. | 2130. |
|                  | 250.          | 3.84                                 | Mechanical | Efficiency %     | 50           | 49    | 52    | 61    | 63    |
|                  |               |                                      |            | Input Power kW   | 0.18         | 0.25  | 0.42  | 0.49  | 0.72  |
|                  |               |                                      | Thermal    | Output Torque Nm | 189.         | 285.  | 501.  | 603.  | 950.  |
|                  |               |                                      |            | Input Power kW   | 0.55         | 0.68  | 1.20  | 1.07  | 1.66  |
|                  | 300.          | 3.20                                 | Mechanical | Output Torque Nm | 616.         | 797.  | 1490. | 1370. | 2240. |
|                  |               |                                      |            | Efficiency %     | 50           | 54    | 55    | 59    | 63    |
|                  |               |                                      | Thermal    | Input Power kW   | 0.16         | 0.26  | 0.39  | 0.43  | 0.65  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  | 350.          | 2.74                                 | Mechanical | Input Power kW   | 0.40         | 0.60  | 0.83  | 1.19  | 1.20  |
|                  |               |                                      |            | Output Torque Nm | 485.         | 755.  | 1100. | 1760. | 1780. |
|                  |               |                                      | Thermal    | Efficiency %     | 44           | 46    | 49    | 54    | 56    |
|                  |               |                                      |            | Input Power kW   | 0.16         | 0.22  | 0.33  | 0.38  | 0.60  |
|                  | 375.          | 2.56                                 | Mechanical | Output Torque Nm | 189.         | 284.  | 501.  | 603.  | 950.  |
|                  |               |                                      |            | Input Power kW   | 0.43         | 0.45  | 1.13  | 0.99  | 1.11  |
|                  |               |                                      | Thermal    | Output Torque Nm | 566.         | 616.  | 1830. | 1670. | 1820. |
|                  |               |                                      |            | Efficiency %     | 42           | 45    | 52    | 57    | 55    |
|                  | 400.          | 2.40                                 | Mechanical | Input Power kW   | 0.13         | 0.20  | 0.31  | 0.34  | 0.31  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 471.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.38         | 0.58  | 0.80  | 1.07  | 0.60  |
|                  |               |                                      |            | Output Torque Nm | 604.         | 938.  | 1360. | 2020. | 962.  |
|                  | 450.          | 2.13                                 | Mechanical | Efficiency %     | 41           | 43    | 44    | 49    | 45    |
|                  |               |                                      |            | Input Power kW   | 0.05         | 0.08  | 0.14  | 0.20  | 0.50  |
|                  |               |                                      | Thermal    | Output Torque Nm | 58.          | 101.  | 173.  | 291.  | 950.  |
|                  |               |                                      |            | Input Power kW   | 0.24         | 0.37  | 0.54  | 0.59  | 1.14  |
|                  | 500.          | 1.92                                 | Mechanical | Output Torque Nm | 340.         | 559.  | 786.  | 990.  | 2250. |
|                  |               |                                      |            | Efficiency %     | 30           | 35    | 33    | 41    | 53    |
|                  |               |                                      | Thermal    | Input Power kW   | 0.10         | 0.20  | 0.29  | 0.30  | 0.48  |
|                  |               |                                      |            | Output Torque Nm | 140.         | 309.  | 501.  | 603.  | 950.  |
|                  | 550.          | 1.80                                 | Mechanical | Input Power kW   | 0.43         | 0.45  | 0.85  | 0.99  | 1.11  |
|                  |               |                                      |            | Output Torque Nm | 744.         | 716.  | 1590. | 2150. | 2350. |
|                  |               |                                      | Thermal    | Efficiency %     | 37           | 38    | 45    | 54    | 52    |
|                  |               |                                      |            | Input Power kW   | 0.12         | 0.17  | 0.28  | 0.30  | 0.43  |
|                  | 600.          | 1.60                                 | Mechanical | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      |            | Input Power kW   | 0.36         | 0.57  | 0.75  | 1.07  | 1.08  |
|                  |               |                                      | Thermal    | Output Torque Nm | 644.         | 1080. | 1450. | 2350. | 2490. |
|                  |               |                                      |            | Efficiency %     | 38           | 41    | 41    | 47    | 51    |
|                  | 625.          | 1.54                                 | Mechanical | Input Power kW   | 0.12         | 0.18  | 0.25  | 0.27  | 0.42  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.41         | 0.45  | 0.75  | 0.99  | 1.11  |
|                  |               |                                      |            | Output Torque Nm | 759.         | 846.  | 1670. | 2440. | 2660. |
|                  | 650.          | 1.45                                 | Mechanical | Efficiency %     | 33           | 36    | 42    | 47    | 45    |
|                  |               |                                      |            | Input Power kW   | 0.10         | 0.15  | 0.22  | 0.23  | 0.37  |
|                  |               |                                      | Thermal    | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      |            | Input Power kW   | 0.38         | 0.45  | 0.71  | 0.99  | 1.11  |
|                  | 700.          | 1.37                                 | Mechanical | Output Torque Nm | 809.         | 984.  | 1770. | 2840. | 3110. |
|                  |               |                                      |            | Efficiency %     | 30           | 34    | 39    | 45    | 43    |
|                  |               |                                      | Thermal    | Input Power kW   | 0.10         | 0.15  | 0.22  | 0.24  | 0.36  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  | 750.          | 1.28                                 | Mechanical | Input Power kW   | 0.40         | 0.41  | 0.79  | 0.70  | 1.00  |
|                  |               |                                      |            | Output Torque Nm | 880.         | 921.  | 1970. | 1920. | 2840. |
|                  |               |                                      | Thermal    | Efficiency %     | 31           | 33    | 36    | 40    | 42    |
|                  |               |                                      |            | Input Power kW   | 0.07         | 0.07  | 0.16  | 0.16  | 0.25  |
|                  | 800.          | 1.20                                 | Mechanical | Output Torque Nm | 121.         | 117.  | 364.  | 397.  | 684.  |
|                  |               |                                      |            | Input Power kW   | 0.19         | 0.21  | 0.41  | 0.32  | 0.45  |
|                  |               |                                      | Thermal    | Output Torque Nm | 411.         | 452.  | 1070. | 902.  | 1280. |
|                  |               |                                      |            | Efficiency %     | 24           | 24    | 34    | 36    | 40    |
|                  | 850.          | 1.15                                 | Mechanical | Input Power kW   | 0.09         | 0.13  | 0.20  | 0.21  | 0.32  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.38         | 0.41  | 0.74  | 0.70  | 1.00  |
|                  |               |                                      |            | Output Torque Nm | 951.         | 1070. | 2100. | 2230. | 3320. |
|                  | 900.          | 1.10                                 | Mechanical | Efficiency %     | 28           | 31    | 33    | 38    | 40    |
|                  |               |                                      |            | Input Power kW   | 0.07         | 0.14  | 0.19  | 0.20  | 0.28  |
|                  |               |                                      | Thermal    | Output Torque Nm | 144.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      |            | Input Power kW   | 0.31         | 0.32  | 0.64  | 0.57  | 0.86  |
|                  | 950.          | 1.05                                 | Mechanical | Output Torque Nm | 816.         | 779.  | 1910. | 1960. | 3150. |
|                  |               |                                      |            | Efficiency %     | 26           | 28    | 33    | 39    | 43    |
|                  |               |                                      | Thermal    | Input Power kW   | 0.07         | 0.14  | 0.19  | 0.20  | 0.28  |
|                  |               |                                      |            | Output Torque Nm | 144.         | 309.  | 501.  | 603.  | 950.  |

# SERIES AJ

## RATINGS AT 960 REV/MIN INPUT

|                  | NOMINAL RATIO | NOMINAL<br>OUTPUT SPEED<br>REV / MIN | CAPACITY   |                  | SIZE OF UNIT |       |       |       |       |
|------------------|---------------|--------------------------------------|------------|------------------|--------------|-------|-------|-------|-------|
|                  |               |                                      |            |                  | A0410        | A0510 | A0610 | A0730 | A0860 |
| SINGLE REDUCTION | 900.          | 1.07                                 | Mechanical | Input Power kW   | 0.08         | 0.12  | 0.18  | 0.19  | 0.28  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.37         | 0.39  | 0.72  | 0.64  | 0.95  |
|                  |               |                                      |            | Output Torque Nm | 1060.        | 1140. | 2330. | 2330. | 3620. |
|                  |               |                                      |            | Efficiency %     | 26           | 30    | 31    | 35    | 38    |
|                  | 1000.         | 0.96                                 | Mechanical | Input Power kW   | 0.08         | 0.12  | 0.17  | 0.18  | 0.26  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.31         | 0.32  | 0.64  | 0.57  | 0.86  |
|                  |               |                                      |            | Output Torque Nm | 878.         | 918.  | 2250. | 2190. | 3530. |
|                  |               |                                      |            | Efficiency %     | 23           | 26    | 30    | 34    | 37    |
|                  | 1200.         | 0.80                                 | Mechanical | Input Power kW   | 0.07         | 0.11  | 0.15  | 0.16  | 0.23  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.31         | 0.32  | 0.64  | 0.57  | 0.86  |
|                  |               |                                      |            | Output Torque Nm | 996.         | 1070. | 2560. | 2550. | 4120. |
|                  |               |                                      |            | Efficiency %     | 21           | 24    | 28    | 32    | 35    |
|                  | 1250.         | 0.77                                 | Mechanical | Input Power kW   | 0.07         | 0.10  | 0.14  | 0.16  | 0.23  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.27         | 0.28  | 0.55  | 0.45  | 0.62  |
|                  |               |                                      |            | Output Torque Nm | 895.         | 938.  | 2280. | 2030. | 2900. |
|                  |               |                                      |            | Efficiency %     | 22           | 24    | 28    | 31    | 34    |
|                  | 1400.         | 0.69                                 | Mechanical | Input Power kW   | 0.06         | 0.07  | 0.14  | 0.14  | 0.20  |
|                  |               |                                      |            | Output Torque Nm | 149.         | 178.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.19         | 0.21  | 0.41  | 0.32  | 0.45  |
|                  |               |                                      |            | Output Torque Nm | 685.         | 688.  | 1750. | 1520. | 2310. |
|                  |               |                                      |            | Efficiency %     | 19           | 19    | 26    | 31    | 35    |
|                  | 1500.         | 0.64                                 | Mechanical | Input Power kW   | 0.06         | 0.09  | 0.13  | 0.14  | 0.20  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.27         | 0.28  | 0.55  | 0.45  | 0.62  |
|                  |               |                                      |            | Output Torque Nm | 1010.        | 1090. | 2590. | 2360. | 3380. |
|                  |               |                                      |            | Efficiency %     | 20           | 23    | 26    | 29    | 32    |
|                  | 1600.         | 0.60                                 | Mechanical | Input Power kW   | 0.05         | 0.08  | 0.12  | 0.13  | 0.19  |
|                  |               |                                      |            | Output Torque Nm | 145.         | 265.  | 437.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.31         | 0.32  | 0.64  | 0.57  | 0.86  |
|                  |               |                                      |            | Output Torque Nm | 1220.        | 1340. | 3140. | 3160. | 5110. |
|                  |               |                                      |            | Efficiency %     | 17           | 21    | 24    | 28    | 32    |
|                  | 1750.         | 0.55                                 | Mechanical | Input Power kW   | 0.06         | 0.07  | 0.12  | 0.13  | 0.19  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 209.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.19         | 0.21  | 0.41  | 0.32  | 0.45  |
|                  |               |                                      |            | Output Torque Nm | 733.         | 811.  | 2060. | 1690. | 2580. |
|                  |               |                                      |            | Efficiency %     | 17           | 18    | 24    | 26    | 29    |
|                  | 1800.         | 0.53                                 | Mechanical | Input Power kW   | 0.06         | 0.09  | 0.13  | 0.13  | 0.18  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 306.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.23         | 0.24  | 0.46  | 0.37  | 0.54  |
|                  |               |                                      |            | Output Torque Nm | 944.         | 1040. | 2310. | 2040. | 3340. |
|                  |               |                                      |            | Efficiency %     | 17           | 20    | 22    | 26    | 30    |
|                  | 2000.         | 0.48                                 | Mechanical | Input Power kW   | 0.05         | 0.07  | 0.10  | 0.12  | 0.17  |
|                  |               |                                      |            | Output Torque Nm | 147.         | 269.  | 444.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.27         | 0.28  | 0.55  | 0.45  | 0.62  |
|                  |               |                                      |            | Output Torque Nm | 1250.        | 1370. | 3180. | 2920. | 4190. |
|                  |               |                                      |            | Efficiency %     | 16           | 20    | 22    | 26    | 28    |
|                  | 2100.         | 0.46                                 | Mechanical | Input Power kW   | 0.06         | 0.07  | 0.11  | 0.12  | 0.16  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 243.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.19         | 0.21  | 0.41  | 0.32  | 0.45  |
|                  |               |                                      |            | Output Torque Nm | 831.         | 942.  | 2340. | 1970. | 3010. |
|                  |               |                                      |            | Efficiency %     | 16           | 17    | 22    | 25    | 28    |
|                  | 2400.         | 0.40                                 | Mechanical | Input Power kW   | 0.05         | 0.07  | 0.10  | 0.11  | 0.15  |
|                  |               |                                      |            | Output Torque Nm | 148.         | 272.  | 449.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.23         | 0.24  | 0.46  | 0.37  | 0.54  |
|                  |               |                                      |            | Output Torque Nm | 1160.        | 1300. | 2840. | 2520. | 4130. |
|                  |               |                                      |            | Efficiency %     | 13           | 17    | 19    | 23    | 26    |
|                  | 2500.         | 0.38                                 | Mechanical | Input Power kW   | 0.04         | 0.05  | 0.07  | 0.10  | 0.14  |
|                  |               |                                      |            | Output Torque Nm | 106.         | 193.  | 321.  | 560.  | 876.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.27         | 0.28  | 0.55  | 0.45  | 0.62  |
|                  |               |                                      |            | Output Torque Nm | 1480.        | 1550. | 3680. | 3480. | 4880. |
|                  |               |                                      |            | Efficiency %     | 12           | 15    | 17    | 23    | 25    |
|                  | 2800.         | 0.34                                 | Mechanical | Input Power kW   | 0.04         | 0.06  | 0.09  | 0.10  | 0.14  |
|                  |               |                                      |            | Output Torque Nm | 150.         | 275.  | 453.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.19         | 0.21  | 0.41  | 0.32  | 0.45  |
|                  |               |                                      |            | Output Torque Nm | 1020.        | 1180. | 2870. | 2440. | 3720. |
|                  |               |                                      |            | Efficiency %     | 12           | 16    | 18    | 22    | 25    |
|                  | 3000.         | 0.32                                 | Mechanical | Input Power kW   | 0.04         | 0.05  | 0.07  | 0.10  | 0.13  |
|                  |               |                                      |            | Output Torque Nm | 107.         | 195.  | 324.  | 566.  | 886.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.23         | 0.24  | 0.46  | 0.37  | 0.54  |
|                  |               |                                      |            | Output Torque Nm | 1370.        | 1470. | 3290. | 3000. | 4810. |
|                  |               |                                      |            | Efficiency %     | 10           | 13    | 15    | 20    | 23    |
|                  | 3500.         | 0.27                                 | Mechanical | Input Power kW   | 0.03         | 0.05  | 0.07  | 0.09  | 0.12  |
|                  |               |                                      |            | Output Torque Nm | 108.         | 197.  | 327.  | 571.  | 894.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.19         | 0.21  | 0.41  | 0.32  | 0.45  |
|                  |               |                                      |            | Output Torque Nm | 1210.        | 1340. | 3320. | 2900. | 4330. |
|                  |               |                                      |            | Efficiency %     | 9            | 12    | 14    | 19    | 22    |
|                  | 3600.         | 0.27                                 | Mechanical | Input Power kW   | 0.03         | 0.04  | 0.06  | 0.08  | 0.10  |
|                  |               |                                      |            | Output Torque Nm | 82.          | 150.  | 248.  | 429.  | 669.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.23         | 0.24  | 0.46  | 0.37  | 0.54  |
|                  |               |                                      |            | Output Torque Nm | 1440.        | 1680. | 3750. | 3310. | 5410. |
|                  |               |                                      |            | Efficiency %     | 7            | 11    | 12    | 16    | 19    |
|                  | 4200.         | 0.23                                 | Mechanical | Input Power kW   | 0.03         | 0.04  | 0.05  | 0.07  | 0.09  |
|                  |               |                                      |            | Output Torque Nm | 82.          | 151.  | 250.  | 433.  | 675.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.19         | 0.21  | 0.41  | 0.32  | 0.45  |
|                  |               |                                      |            | Output Torque Nm | 1270.        | 1530. | 3790. | 3190. | 4860. |
|                  |               |                                      |            | Efficiency %     | 6            | 10    | 11    | 15    | 18    |

# SERIES AJ

## RATINGS AT 725 REV/MIN INPUT

|                  | NOMINAL RATIO | NOMINAL<br>OUTPUT SPEED<br>REV / MIN | CAPACITY   |                  | SIZE OF UNIT |       |       |       |       |       |
|------------------|---------------|--------------------------------------|------------|------------------|--------------|-------|-------|-------|-------|-------|
|                  |               |                                      |            |                  | A0280        | A0410 | A0510 | A0610 | A0730 | A0860 |
| SINGLE REDUCTION | 5.0           | 145.00                               | Mechanical | Input Power kW   | 0.44         | 1.01  | 2.21  | 3.32  | 4.70  | 8.21  |
|                  |               |                                      |            | Output Torque Nm | 27.          | 61.   | 124.  | 195.  | 297.  | 486.  |
|                  |               |                                      | Thermal    | Input Power kW   | 1.14         | 1.81  | 2.91  | 4.17  | 7.24  | 8.66  |
|                  |               |                                      |            | Output Torque Nm | 69.          | 110.  | 164.  | 246.  | 459.  | 513.  |
|                  |               |                                      |            | Efficiency %     | 86           | 87    | 89    | 89    | 92    | 93    |
|                  | 7.5           | 96.67                                | Mechanical | Input Power kW   | 0.40         | 0.88  | 1.52  | 2.35  | 3.54  | 5.40  |
|                  |               |                                      |            | Output Torque Nm | 32.          | 72.   | 127.  | 199.  | 308.  | 472.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.94         | 1.53  | 2.42  | 3.58  | 6.30  | 7.40  |
|                  |               |                                      |            | Output Torque Nm | 76.          | 126.  | 203.  | 304.  | 550.  | 648.  |
|                  |               |                                      |            | Efficiency %     | 83           | 85    | 87    | 88    | 91    | 92    |
|                  | 10.0          | 72.50                                | Mechanical | Input Power kW   | 0.36         | 0.86  | 1.52  | 2.07  | 2.89  | 4.70  |
|                  |               |                                      |            | Output Torque Nm | 39.          | 97.   | 175.  | 226.  | 351.  | 539.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.73         | 1.24  | 1.89  | 3.11  | 5.23  | 6.24  |
|                  |               |                                      |            | Output Torque Nm | 80.          | 140.  | 218.  | 341.  | 638.  | 716.  |
|                  |               |                                      |            | Efficiency %     | 79           | 82    | 83    | 86    | 89    | 90    |
|                  | 12.5          | 58.00                                | Mechanical | Input Power kW   | 0.32         | 0.80  | 1.34  | 2.11  | 3.11  | 4.21  |
|                  |               |                                      |            | Output Torque Nm | 40.          | 103.  | 178.  | 287.  | 445.  | 623.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.61         | 1.07  | 1.69  | 2.52  | 4.26  | 5.56  |
|                  |               |                                      |            | Output Torque Nm | 76.          | 140.  | 226.  | 343.  | 612.  | 825.  |
|                  |               |                                      |            | Efficiency %     | 75           | 79    | 81    | 83    | 87    | 89    |
|                  | 15.0          | 48.33                                | Mechanical | Input Power kW   | 0.29         | 0.77  | 1.19  | 1.81  | 2.76  | 4.20  |
|                  |               |                                      |            | Output Torque Nm | 42.          | 112.  | 182.  | 287.  | 454.  | 697.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.61         | 0.98  | 1.65  | 2.26  | 3.99  | 4.68  |
|                  |               |                                      |            | Output Torque Nm | 88.          | 145.  | 255.  | 361.  | 659.  | 776.  |
|                  |               |                                      |            | Efficiency %     | 75           | 77    | 80    | 80    | 86    | 87    |
|                  | 20.0          | 36.25                                | Mechanical | Input Power kW   | 0.26         | 0.57  | 1.13  | 1.75  | 2.06  | 3.11  |
|                  |               |                                      |            | Output Torque Nm | 44.          | 110.  | 213.  | 340.  | 440.  | 671.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.40         | 0.91  | 1.12  | 1.67  | 3.38  | 3.93  |
|                  |               |                                      |            | Output Torque Nm | 69.          | 178.  | 211.  | 324.  | 728.  | 853.  |
|                  |               |                                      |            | Efficiency %     | 64           | 75    | 72    | 74    | 83    | 84    |
|                  | 25.0          | 29.00                                | Mechanical | Input Power kW   | 0.23         | 0.58  | 0.96  | 1.52  | 2.09  | 3.00  |
|                  |               |                                      |            | Output Torque Nm | 47.          | 127.  | 217.  | 355.  | 534.  | 774.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.37         | 0.67  | 1.01  | 1.48  | 2.42  | 2.81  |
|                  |               |                                      |            | Output Torque Nm | 76.          | 147.  | 228.  | 346.  | 619.  | 725.  |
|                  |               |                                      |            | Efficiency %     | 61           | 67    | 68    | 71    | 78    | 78    |
|                  | 30.0          | 24.17                                | Mechanical | Input Power kW   | 0.19         | 0.51  | 0.79  | 1.23  | 1.76  | 2.68  |
|                  |               |                                      |            | Output Torque Nm | 44.          | 127.  | 208.  | 328.  | 526.  | 811.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.35         | 0.61  | 0.95  | 1.35  | 2.25  | 2.63  |
|                  |               |                                      |            | Output Torque Nm | 82.          | 155.  | 251.  | 363.  | 675.  | 796.  |
|                  |               |                                      |            | Efficiency %     | 58           | 63    | 66    | 67    | 76    | 77    |
|                  | 40.0          | 18.13                                | Mechanical | Input Power kW   | 0.13         | 0.37  | 0.59  | 0.90  | 1.28  | 1.95  |
|                  |               |                                      |            | Output Torque Nm | 34.          | 115.  | 196.  | 300.  | 481.  | 747.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.29         | 0.55  | 0.87  | 1.19  | 1.94  | 2.27  |
|                  |               |                                      |            | Output Torque Nm | 78.          | 173.  | 290.  | 400.  | 737.  | 873.  |
|                  |               |                                      |            | Efficiency %     | 50           | 59    | 63    | 63    | 71    | 73    |
|                  | 50.0          | 14.50                                | Mechanical | Input Power kW   | 0.09         | 0.23  | 0.40  | 0.65  | 0.98  | 1.47  |
|                  |               |                                      |            | Output Torque Nm | 27.          | 83.   | 152.  | 253.  | 442.  | 666.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.24         | 0.42  | 0.63  | 0.89  | 1.47  | 1.65  |
|                  |               |                                      |            | Output Torque Nm | 78.          | 158.  | 243.  | 351.  | 668.  | 750.  |
|                  |               |                                      |            | Efficiency %     | 47           | 55    | 57    | 59    | 69    | 69    |
|                  | 60.0          | 12.08                                | Mechanical | Input Power kW   | 0.06         | 0.17  | 0.28  | 0.44  | 0.67  | 1.02  |
|                  |               |                                      |            | Output Torque Nm | 20.          | 64.   | 118.  | 195.  | 337.  | 526.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.21         | 0.35  | 0.55  | 0.78  | 1.20  | 1.38  |
|                  |               |                                      |            | Output Torque Nm | 72.          | 139.  | 243.  | 350.  | 619.  | 719.  |
|                  |               |                                      |            | Efficiency %     | 41           | 48    | 54    | 56    | 64    | 65    |
|                  | 70.0          | 10.36                                | Mechanical | Input Power kW   | 0.05         | 0.12  | 0.20  | 0.33  | 0.48  | 0.76  |
|                  |               |                                      |            | Output Torque Nm | 16.          | 52.   | 92.   | 157.  | 265.  | 430.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.17         | 0.30  | 0.45  | 0.62  | 0.94  | 1.08  |
|                  |               |                                      |            | Output Torque Nm | 65.          | 136.  | 222.  | 303.  | 532.  | 620.  |
|                  |               |                                      |            | Efficiency %     | 37           | 46    | 51    | 51    | 60    | 61    |

# SERIES AJ

## RATINGS AT 725 REV/MIN INPUT

|                  | NOMINAL RATIO | NOMINAL<br>OUTPUT SPEED<br>REV / MIN | CAPACITY   |                  | SIZE OF UNIT |       |       |       |        |
|------------------|---------------|--------------------------------------|------------|------------------|--------------|-------|-------|-------|--------|
|                  |               |                                      |            |                  | A0410        | A0510 | A0610 | A0730 | A0860  |
| SINGLE REDUCTION | 75.0          | 9.67                                 | Mechanical | Input Power kW   | 0.29         | 0.40  | 0.68  | 0.68  | 1.43   |
|                  |               |                                      |            | Output Torque Nm | 176.         | 259.  | 452.  | 603.  | 950.   |
|                  |               |                                      | Thermal    | Input Power kW   | 0.60         | 1.09  | 1.41  | 1.76  | 2.07   |
|                  |               |                                      |            | Output Torque Nm | 377.         | 721.  | 962.  | 1260. | 1380.  |
|                  |               |                                      |            | Efficiency %     | 61           | 65    | 65    | 70    | 72     |
|                  |               |                                      |            |                  |              |       |       |       |        |
|                  | 100.          | 7.25                                 | Mechanical | Input Power kW   | 0.17         | 0.40  | 0.63  | 0.67  | 1.11   |
|                  |               |                                      |            | Output Torque Nm | 130.         | 309.  | 501.  | 603.  | 950.   |
|                  |               |                                      | Thermal    | Input Power kW   | 0.58         | 0.70  | 1.00  | 1.74  | 1.78   |
|                  |               |                                      |            | Output Torque Nm | 479.         | 544.  | 809.  | 1600. | 1530.  |
|                  |               |                                      |            | Efficiency %     | 58           | 56    | 58    | 67    | 69     |
|                  |               |                                      |            |                  |              |       |       |       |        |
|                  | 125.          | 5.80                                 | Mechanical | Input Power kW   | 0.22         | 0.34  | 0.53  | 0.58  | 0.97   |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.   |
|                  |               |                                      | Thermal    | Input Power kW   | 0.41         | 0.63  | 0.89  | 1.27  | 1.30   |
|                  |               |                                      |            | Output Torque Nm | 371.         | 579.  | 848.  | 1350. | 1290.  |
|                  |               |                                      |            | Efficiency %     | 51           | 52    | 54    | 60    | 62     |
|                  |               |                                      |            |                  |              |       |       |       |        |
|                  | 150.          | 4.83                                 | Mechanical | Input Power kW   | 0.18         | 0.25  | 0.42  | 0.4   | 8 0.73 |
|                  |               |                                      |            | Output Torque Nm | 189.         | 285.  | 501.  | 603.  | 950.   |
|                  |               |                                      | Thermal    | Input Power kW   | 0.54         | 0.71  | 1.22  | 1.20  | 1.69   |
|                  |               |                                      |            | Output Torque Nm | 598.         | 835.  | 1520. | 1570. | 2240.  |
|                  |               |                                      |            | Efficiency %     | 53           | 57    | 58    | 63    | 65     |
|                  |               |                                      |            |                  |              |       |       |       |        |
|                  | 200.          | 3.63                                 | Mechanical | Input Power kW   | 0.10         | 0.23  | 0.36  | 0.37  | 0.57   |
|                  |               |                                      |            | Output Torque Nm | 137.         | 309.  | 501.  | 603.  | 950.   |
|                  |               |                                      | Thermal    | Input Power kW   | 0.53         | 0.62  | 0.87  | 1.20  | 1.52   |
|                  |               |                                      |            | Output Torque Nm | 773.         | 855.  | 1260. | 2020. | 2600.  |
|                  |               |                                      |            | Efficiency %     | 50           | 48    | 51    | 60    | 61     |
|                  |               |                                      |            |                  |              |       |       |       |        |
|                  | 225.          | 3.22                                 | Mechanical | Input Power kW   | 0.14         | 0.19  | 0.33  | 0.37  | 0.56   |
|                  |               |                                      |            | Output Torque Nm | 189.         | 285.  | 501.  | 603.  | 950.   |
|                  |               |                                      | Thermal    | Input Power kW   | 0.52         | 0.59  | 1.04  | 0.92  | 1.48   |
|                  |               |                                      |            | Output Torque Nm | 752.         | 892.  | 1670. | 1540. | 2600.  |
|                  |               |                                      |            | Efficiency %     | 49           | 53    | 53    | 58    | 62     |
|                  |               |                                      |            |                  |              |       |       |       |        |
|                  | 250.          | 2.90                                 | Mechanical | Input Power kW   | 0.13         | 0.20  | 0.31  | 0.33  | 0.51   |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.   |
|                  |               |                                      | Thermal    | Input Power kW   | 0.37         | 0.56  | 0.77  | 1.10  | 1.13   |
|                  |               |                                      |            | Output Torque Nm | 587.         | 911.  | 1330. | 2090. | 2180.  |
|                  |               |                                      |            | Efficiency %     | 43           | 45    | 48    | 53    | 54     |
|                  |               |                                      |            |                  |              |       |       |       |        |
|                  | 300.          | 2.42                                 | Mechanical | Input Power kW   | 0.12         | 0.17  | 0.25  | 0.29  | 0.47   |
|                  |               |                                      |            | Output Torque Nm | 189.         | 284.  | 501.  | 603.  | 950.   |
|                  |               |                                      | Thermal    | Input Power kW   | 0.37         | 0.39  | 0.98  | 0.78  | 1.00   |
|                  |               |                                      |            | Output Torque Nm | 632.         | 688.  | 2060. | 1900. | 2120.  |
|                  |               |                                      |            | Efficiency %     | 41           | 45    | 51    | 56    | 53     |
|                  |               |                                      |            |                  |              |       |       |       |        |
|                  | 350.          | 2.07                                 | Mechanical | Input Power kW   | 0.10         | 0.16  | 0.24  | 0.26  | 0.25   |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 478.   |
|                  |               |                                      | Thermal    | Input Power kW   | 0.36         | 0.54  | 0.75  | 0.92  | 0.56   |
|                  |               |                                      |            | Output Torque Nm | 737.         | 1140. | 1650. | 2250. | 1160.  |
|                  |               |                                      |            | Efficiency %     | 40           | 42    | 43    | 48    | 44     |
|                  |               |                                      |            |                  |              |       |       |       |        |
|                  | 375.          | 1.93                                 | Mechanical | Input Power kW   | 0.04         | 0.06  | 0.11  | 0.15  | 0.39   |
|                  |               |                                      |            | Output Torque Nm | 59.          | 103.  | 176.  | 296.  | 950.   |
|                  |               |                                      | Thermal    | Input Power kW   | 0.23         | 0.36  | 0.52  | 0.55  | 1.10   |
|                  |               |                                      |            | Output Torque Nm | 424.         | 699.  | 982.  | 1210. | 2800.  |
|                  |               |                                      |            | Efficiency %     | 30           | 34    | 33    | 40    | 51     |
|                  |               |                                      |            |                  |              |       |       |       |        |
|                  | 400.          | 1.81                                 | Mechanical | Input Power kW   | 0.07         | 0.16  | 0.22  | 0.23  | 0.37   |
|                  |               |                                      |            | Output Torque Nm | 142.         | 309.  | 501.  | 603.  | 950.   |
|                  |               |                                      | Thermal    | Input Power kW   | 0.37         | 0.39  | 0.79  | 0.87  | 1.00   |
|                  |               |                                      |            | Output Torque Nm | 832.         | 796.  | 1930. | 2450. | 2730.  |
|                  |               |                                      |            | Efficiency %     | 37           | 37    | 44    | 53    | 50     |
|                  |               |                                      |            |                  |              |       |       |       |        |
|                  | 450.          | 1.61                                 | Mechanical | Input Power kW   | 0.09         | 0.14  | 0.22  | 0.23  | 0.34   |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.   |
|                  |               |                                      | Thermal    | Input Power kW   | 0.34         | 0.54  | 0.70  | 0.92  | 1.04   |
|                  |               |                                      |            | Output Torque Nm | 786.         | 1310. | 1750. | 2630. | 3110.  |
|                  |               |                                      |            | Efficiency %     | 37           | 40    | 40    | 46    | 49     |
|                  |               |                                      |            |                  |              |       |       |       |        |
|                  | 500.          | 1.45                                 | Mechanical | Input Power kW   | 0.09         | 0.14  | 0.19  | 0.21  | 0.33   |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.   |
|                  |               |                                      | Thermal    | Input Power kW   | 0.37         | 0.39  | 0.71  | 0.87  | 1.00   |
|                  |               |                                      |            | Output Torque Nm | 899.         | 940.  | 2030. | 2760. | 3080.  |
|                  |               |                                      |            | Efficiency %     | 32           | 34    | 41    | 46    | 44     |
|                  |               |                                      |            |                  |              |       |       |       |        |
|                  | 600.          | 1.21                                 | Mechanical | Input Power kW   | 0.08         | 0.12  | 0.17  | 0.1   | 8 0.29 |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.   |
|                  |               |                                      | Thermal    | Input Power kW   | 0.36         | 0.39  | 0.66  | 0.87  | 1.00   |
|                  |               |                                      |            | Output Torque Nm | 992.         | 1090. | 2150. | 3220. | 3600.  |
|                  |               |                                      |            | Efficiency %     | 30           | 33    | 38    | 44    | 42     |
|                  |               |                                      |            |                  |              |       |       |       |        |
|                  | 625.          | 1.16                                 | Mechanical | Input Power kW   | 0.08         | 0.12  | 0.17  | 0.19  | 0.28   |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.   |
|                  |               |                                      | Thermal    | Input Power kW   | 0.35         | 0.36  | 0.68  | 0.61  | 0.91   |
|                  |               |                                      |            | Output Torque Nm | 982.         | 1030. | 2200. | 2140. | 3290.  |
|                  |               |                                      |            | Efficiency %     | 30           | 32    | 35    | 39    | 41     |
|                  |               |                                      |            |                  |              |       |       |       |        |
|                  | 700.          | 1.04                                 | Mechanical | Input Power kW   | 0.05         | 0.05  | 0.12  | 0.12  | 0.20   |
|                  |               |                                      |            | Output Torque Nm | 124.         | 119.  | 372.  | 405.  | 698.   |
|                  |               |                                      | Thermal    | Input Power kW   | 0.17         | 0.19  | 0.37  | 0.29  | 0.41   |
|                  |               |                                      |            | Output Torque Nm | 475.         | 522.  | 1260. | 1070. | 1520.  |
|                  |               |                                      |            | Efficiency %     | 24           | 23    | 34    | 35    | 39     |
|                  |               |                                      |            |                  |              |       |       |       |        |
|                  | 750.          | 0.97                                 | Mechanical | Input Power kW   | 0.07         | 0.10  | 0.16  | 0.17  | 0.25   |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.   |
|                  |               |                                      | Thermal    | Input Power kW   | 0.35         | 0.36  | 0.68  | 0.61  | 0.91   |
|                  |               |                                      |            | Output Torque Nm | 1110.        | 1190. | 2500. | 2500. | 3840.  |
|                  |               |                                      |            | Efficiency %     | 28           | 31    | 33    | 37    | 39     |
|                  |               |                                      |            |                  |              |       |       |       |        |
|                  | 800.          | 0.91                                 | Mechanical | Input Power kW   | 0.05         | 0.11  | 0.15  | 0.15  | 0.22   |
|                  |               |                                      |            | Output Torque Nm | 146.         | 309.  | 501.  | 603.  | 950.   |
|                  |               |                                      | Thermal    | Input Power kW   | 0.27         | 0.28  | 0.56  | 0.50  | 0.78   |
|                  |               |                                      |            | Output Torque Nm | 917.         | 871.  | 2150. | 2210. | 3660.  |
|                  |               |                                      |            | Efficiency %     | 26           | 27    | 32    | 38    | 42     |
|                  |               |                                      |            |                  |              |       |       |       |        |

# SERIES AJ

## RATINGS AT 725 REV/MIN INPUT

|                  | NOMINAL RATIO | NOMINAL<br>OUTPUT SPEED<br>REV / MIN | CAPACITY   |                  | SIZE OF UNIT |       |       |       |       |
|------------------|---------------|--------------------------------------|------------|------------------|--------------|-------|-------|-------|-------|
|                  |               |                                      |            |                  | A0410        | A0510 | A0610 | A0730 | A0860 |
| SINGLE REDUCTION | 900.          | 0.81                                 | Mechanical | Input Power kW   | 0.06         | 0.09  | 0.14  | 0.15  | 0.21  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.32         | 0.34  | 0.63  | 0.56  | 0.85  |
|                  |               |                                      |            | Output Torque Nm | 1190.        | 1270. | 2610. | 2610. | 4190. |
|                  | 1000.         | 0.73                                 | Mechanical | Efficiency %     | 26           | 29    | 30    | 35    | 37    |
|                  |               |                                      |            | Input Power kW   | 0.06         | 0.09  | 0.13  | 0.14  | 0.20  |
|                  |               |                                      | Thermal    | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      |            | Input Power kW   | 0.27         | 0.28  | 0.56  | 0.50  | 0.78  |
|                  | 1200.         | 0.60                                 | Mechanical | Output Torque Nm | 984.         | 1030. | 2530. | 2460. | 4090. |
|                  |               |                                      |            | Efficiency %     | 23           | 25    | 29    | 33    | 36    |
|                  |               |                                      | Thermal    | Input Power kW   | 0.06         | 0.08  | 0.12  | 0.12  | 0.17  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  | 1250.         | 0.58                                 | Mechanical | Efficiency %     | 21           | 24    | 27    | 31    | 35    |
|                  |               |                                      |            | Input Power kW   | 0.05         | 0.08  | 0.11  | 0.12  | 0.18  |
|                  |               |                                      | Thermal    | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      |            | Input Power kW   | 0.23         | 0.24  | 0.49  | 0.41  | 0.57  |
|                  | 1400.         | 0.52                                 | Mechanical | Output Torque Nm | 1010.        | 1060. | 2580. | 2370. | 3380. |
|                  |               |                                      |            | Efficiency %     | 21           | 24    | 27    | 31    | 33    |
|                  |               |                                      | Thermal    | Input Power kW   | 0.04         | 0.05  | 0.11  | 0.11  | 0.16  |
|                  |               |                                      |            | Output Torque Nm | 152.         | 181.  | 501.  | 603.  | 950.  |
|                  | 1500.         | 0.48                                 | Mechanical | Input Power kW   | 0.17         | 0.19  | 0.37  | 0.29  | 0.41  |
|                  |               |                                      |            | Output Torque Nm | 793.         | 792.  | 2060. | 1810. | 2740. |
|                  |               |                                      | Thermal    | Efficiency %     | 19           | 19    | 26    | 30    | 34    |
|                  |               |                                      |            | Input Power kW   | 0.05         | 0.07  | 0.10  | 0.11  | 0.16  |
|                  | 1600.         | 0.45                                 | Mechanical | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      |            | Input Power kW   | 0.23         | 0.24  | 0.49  | 0.41  | 0.57  |
|                  |               |                                      | Thermal    | Output Torque Nm | 1140.        | 1230. | 2930. | 2760. | 3950. |
|                  |               |                                      |            | Efficiency %     | 19           | 22    | 25    | 29    | 31    |
|                  | 1750.         | 0.41                                 | Mechanical | Input Power kW   | 0.04         | 0.06  | 0.09  | 0.10  | 0.15  |
|                  |               |                                      |            | Output Torque Nm | 147.         | 270.  | 445.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.27         | 0.28  | 0.56  | 0.50  | 0.78  |
|                  |               |                                      |            | Output Torque Nm | 1370.        | 1500. | 3520. | 3550. | 5920. |
|                  | 1800.         | 0.40                                 | Mechanical | Efficiency %     | 17           | 21    | 23    | 28    | 31    |
|                  |               |                                      |            | Input Power kW   | 0.05         | 0.05  | 0.09  | 0.10  | 0.14  |
|                  |               |                                      | Thermal    | Output Torque Nm | 189.         | 213.  | 501.  | 603.  | 950.  |
|                  |               |                                      |            | Input Power kW   | 0.17         | 0.19  | 0.37  | 0.29  | 0.41  |
|                  | 2000.         | 0.36                                 | Mechanical | Output Torque Nm | 846.         | 932.  | 2420. | 2000. | 3040. |
|                  |               |                                      |            | Efficiency %     | 17           | 18    | 23    | 26    | 29    |
|                  |               |                                      | Thermal    | Input Power kW   | 0.05         | 0.07  | 0.10  | 0.10  | 0.14  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  | 2100.         | 0.35                                 | Mechanical | Input Power kW   | 0.21         | 0.21  | 0.41  | 0.34  | 0.50  |
|                  |               |                                      |            | Output Torque Nm | 1080.        | 1170. | 2620. | 2400. | 3910. |
|                  |               |                                      | Thermal    | Efficiency %     | 17           | 20    | 22    | 25    | 29    |
|                  |               |                                      |            | Input Power kW   | 0.04         | 0.05  | 0.08  | 0.09  | 0.13  |
|                  | 2400.         | 0.30                                 | Mechanical | Output Torque Nm | 149.         | 274.  | 452.  | 603.  | 950.  |
|                  |               |                                      |            | Input Power kW   | 0.23         | 0.24  | 0.49  | 0.41  | 0.57  |
|                  |               |                                      | Thermal    | Output Torque Nm | 1400.        | 1540. | 3590. | 3420. | 4890. |
|                  |               |                                      |            | Efficiency %     | 16           | 19    | 22    | 26    | 28    |
|                  | 2500.         | 0.29                                 | Mechanical | Input Power kW   | 0.04         | 0.05  | 0.09  | 0.09  | 0.13  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 247.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.17         | 0.19  | 0.37  | 0.29  | 0.41  |
|                  |               |                                      |            | Output Torque Nm | 959.         | 1080. | 2740. | 2330. | 3540. |
|                  | 2800.         | 0.26                                 | Mechanical | Efficiency %     | 15           | 17    | 21    | 24    | 27    |
|                  |               |                                      |            | Input Power kW   | 0.04         | 0.05  | 0.08  | 0.09  | 0.12  |
|                  |               |                                      | Thermal    | Output Torque Nm | 151.         | 277.  | 457.  | 603.  | 950.  |
|                  |               |                                      |            | Input Power kW   | 0.21         | 0.21  | 0.41  | 0.34  | 0.50  |
|                  | 3000.         | 0.24                                 | Mechanical | Output Torque Nm | 1330.        | 1470. | 3210. | 2960. | 4840. |
|                  |               |                                      |            | Efficiency %     | 13           | 17    | 19    | 22    | 26    |
|                  |               |                                      | Thermal    | Input Power kW   | 0.03         | 0.04  | 0.06  | 0.08  | 0.11  |
|                  |               |                                      |            | Output Torque Nm | 107.         | 196.  | 326.  | 569.  | 891.  |
|                  | 3500.         | 0.21                                 | Mechanical | Input Power kW   | 0.23         | 0.24  | 0.49  | 0.41  | 0.57  |
|                  |               |                                      |            | Output Torque Nm | 1660.        | 1740. | 4160. | 4070. | 5690. |
|                  |               |                                      | Thermal    | Efficiency %     | 12           | 15    | 17    | 23    | 25    |
|                  |               |                                      |            | Input Power kW   | 0.03         | 0.05  | 0.07  | 0.08  | 0.11  |
|                  | 3600.         | 0.20                                 | Mechanical | Output Torque Nm | 152.         | 279.  | 461.  | 603.  | 950.  |
|                  |               |                                      |            | Input Power kW   | 0.17         | 0.19  | 0.37  | 0.29  | 0.41  |
|                  |               |                                      | Thermal    | Output Torque Nm | 1180.        | 1360. | 3360. | 2880. | 4380. |
|                  |               |                                      |            | Efficiency %     | 12           | 16    | 18    | 21    | 24    |
|                  | 4200.         | 0.17                                 | Mechanical | Input Power kW   | 0.03         | 0.04  | 0.06  | 0.07  | 0.10  |
|                  |               |                                      |            | Output Torque Nm | 109.         | 198.  | 330.  | 575.  | 900.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.21         | 0.21  | 0.41  | 0.34  | 0.50  |
|                  |               |                                      |            | Output Torque Nm | 1570.        | 1660. | 3720. | 3530. | 5630. |
|                  | 3600.         | 0.20                                 | Mechanical | Efficiency %     | 10           | 13    | 15    | 20    | 23    |
|                  |               |                                      |            | Input Power kW   | 0.03         | 0.04  | 0.05  | 0.07  | 0.09  |
|                  |               |                                      | Thermal    | Output Torque Nm | 109.         | 200.  | 332.  | 580.  | 908.  |
|                  |               |                                      |            | Input Power kW   | 0.17         | 0.19  | 0.37  | 0.29  | 0.41  |
|                  | 4200.         | 0.17                                 | Mechanical | Output Torque Nm | 1390.        | 1540. | 3880. | 3430. | 5090. |
|                  |               |                                      |            | Efficiency %     | 9            | 12    | 14    | 19    | 22    |
|                  |               |                                      | Thermal    | Input Power kW   | 0.02         | 0.03  | 0.05  | 0.06  | 0.07  |
|                  |               |                                      |            | Output Torque Nm | 83.          | 152.  | 252.  | 436.  | 680.  |
|                  | 4200.         | 0.17                                 | Mechanical | Input Power kW   | 0.21         | 0.21  | 0.41  | 0.34  | 0.50  |
|                  |               |                                      |            | Output Torque Nm | 1650.        | 1890. | 4240. | 3880. | 6320. |
|                  |               |                                      | Thermal    | Efficiency %     | 7            | 11    | 12    | 16    | 19    |
|                  |               |                                      |            | Input Power kW   | 0.02         | 0.03  | 0.04  | 0.05  | 0.07  |
|                  | 4200.         | 0.17                                 | Mechanical | Output Torque Nm | 84.          | 154.  | 254.  | 440.  | 686.  |
|                  |               |                                      |            | Input Power kW   | 0.17         | 0.19  | 0.37  | 0.29  | 0.41  |
|                  |               |                                      | Thermal    | Output Torque Nm | 1460.        | 1750. | 4430. | 3770. | 5720. |
|                  |               |                                      |            | Efficiency %     | 7            | 10    | 11    | 15    | 18    |

# SERIES AJ

## RATINGS AT 480 REV/MIN INPUT

|                  | NOMINAL RATIO | NOMINAL<br>OUTPUT SPEED<br>REV / MIN | CAPACITY   |                  | SIZE OF UNIT |       |       |       |       |       |
|------------------|---------------|--------------------------------------|------------|------------------|--------------|-------|-------|-------|-------|-------|
|                  |               |                                      |            |                  | A0280        | A0410 | A0510 | A0610 | A0730 | A0860 |
| SINGLE REDUCTION | 5.0           | 96.00                                | Mechanical | Input Power kW   | 0.34         | 0.78  | 1.71  | 2.57  | 3.65  | 6.35  |
|                  |               |                                      |            | Output Torque Nm | 30.          | 70.   | 144.  | 226.  | 345.  | 563.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.93         | 1.52  | 2.43  | 3.52  | 5.33  | 6.22  |
|                  |               |                                      |            | Output Torque Nm | 84.          | 138.  | 204.  | 310.  | 505.  | 551.  |
|                  |               |                                      |            | Efficiency %     | 85           | 86    | 88    | 88    | 91    | 92    |
|                  | 7.5           | 64.00                                | Mechanical | Input Power kW   | 0.30         | 0.68  | 1.17  | 1.81  | 2.73  | 4.17  |
|                  |               |                                      |            | Output Torque Nm | 37.          | 83.   | 146.  | 229.  | 355.  | 546.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.77         | 1.29  | 2.03  | 3.05  | 4.66  | 5.35  |
|                  |               |                                      |            | Output Torque Nm | 93.          | 158.  | 254.  | 386.  | 608.  | 701.  |
|                  |               |                                      |            | Efficiency %     | 83           | 84    | 86    | 87    | 90    | 91    |
|                  | 10.0          | 48.00                                | Mechanical | Input Power kW   | 0.27         | 0.66  | 1.17  | 1.59  | 2.23  | 3.63  |
|                  |               |                                      |            | Output Torque Nm | 44.          | 111.  | 200.  | 259.  | 404.  | 621.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.60         | 1.05  | 1.60  | 2.66  | 3.89  | 4.53  |
|                  |               |                                      |            | Output Torque Nm | 98.          | 177.  | 274.  | 434.  | 708.  | 776.  |
|                  |               |                                      |            | Efficiency %     | 78           | 80    | 82    | 85    | 88    | 89    |
|                  | 12.5          | 38.40                                | Mechanical | Input Power kW   | 0.25         | 0.61  | 1.03  | 1.63  | 2.39  | 3.17  |
|                  |               |                                      |            | Output Torque Nm | 45.          | 118.  | 204.  | 328.  | 511.  | 700.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.50         | 0.91  | 1.44  | 2.16  | 3.18  | 4.04  |
|                  |               |                                      |            | Output Torque Nm | 92.          | 176.  | 285.  | 437.  | 680.  | 895.  |
|                  |               |                                      |            | Efficiency %     | 74           | 78    | 80    | 81    | 86    | 88    |
|                  | 15.0          | 32.00                                | Mechanical | Input Power kW   | 0.22         | 0.59  | 0.80  | 1.39  | 2.13  | 3.24  |
|                  |               |                                      |            | Output Torque Nm | 47.          | 128.  | 182.  | 328.  | 520.  | 801.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.50         | 0.83  | 1.41  | 1.95  | 2.98  | 3.41  |
|                  |               |                                      |            | Output Torque Nm | 106.         | 183.  | 322.  | 461.  | 732.  | 842.  |
|                  |               |                                      |            | Efficiency %     | 73           | 76    | 79    | 79    | 85    | 86    |
|                  | 20.0          | 24.00                                | Mechanical | Input Power kW   | 0.20         | 0.41  | 0.83  | 1.29  | 1.50  | 2.24  |
|                  |               |                                      |            | Output Torque Nm | 49.          | 116.  | 231.  | 368.  | 476.  | 719.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.33         | 0.78  | 0.96  | 1.39  | 2.53  | 2.8   |
|                  |               |                                      |            | Output Torque Nm | 83.          | 225.  | 266.  | 399.  | 810.  | 927.  |
|                  |               |                                      |            | Efficiency %     | 63           | 74    | 70    | 72    | 82    | 83    |
|                  | 25.0          | 19.20                                | Mechanical | Input Power kW   | 0.17         | 0.44  | 0.73  | 1.13  | 1.61  | 2.32  |
|                  |               |                                      |            | Output Torque Nm | 51.          | 143.  | 241.  | 387.  | 603.  | 882.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.31         | 0.55  | 0.86  | 1.22  | 1.83  | 2.08  |
|                  |               |                                      |            | Output Torque Nm | 92.          | 179.  | 284.  | 418.  | 688.  | 788.  |
|                  |               |                                      |            | Efficiency %     | 60           | 65    | 66    | 69    | 75    | 76    |
|                  | 30.0          | 16.00                                | Mechanical | Input Power kW   | 0.14         | 0.39  | 0.61  | 0.94  | 1.32  | 2.06  |
|                  |               |                                      |            | Output Torque Nm | 49.          | 143.  | 233.  | 370.  | 581.  | 918.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.29         | 0.51  | 0.82  | 1.12  | 1.70  | 1.94  |
|                  |               |                                      |            | Output Torque Nm | 99.          | 190.  | 317.  | 439.  | 750.  | 865.  |
|                  |               |                                      |            | Efficiency %     | 57           | 62    | 64    | 66    | 74    | 75    |
|                  | 40.0          | 12.00                                | Mechanical | Input Power kW   | 0.09         | 0.26  | 0.45  | 0.69  | 0.94  | 1.49  |
|                  |               |                                      |            | Output Torque Nm | 35.          | 120.  | 216.  | 335.  | 517.  | 838.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.24         | 0.46  | 0.75  | 0.99  | 1.48  | 1.69  |
|                  |               |                                      |            | Output Torque Nm | 95.          | 212.  | 367.  | 486.  | 821.  | 950.  |
|                  |               |                                      |            | Efficiency %     | 48           | 57    | 61    | 61    | 69    | 71    |
|                  | 50.0          | 9.60                                 | Mechanical | Input Power kW   | 0.06         | 0.16  | 0.29  | 0.47  | 0.70  | 1.08  |
|                  |               |                                      |            | Output Torque Nm | 28.          | 87.   | 158.  | 263.  | 459.  | 718.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.21         | 0.37  | 0.55  | 0.79  | 1.12  | 1.23  |
|                  |               |                                      |            | Output Torque Nm | 96.          | 201.  | 310.  | 451.  | 748.  | 820.  |
|                  |               |                                      |            | Efficiency %     | 45           | 53    | 55    | 57    | 66    | 67    |
|                  | 60.0          | 8.00                                 | Mechanical | Input Power kW   | 0.04         | 0.12  | 0.20  | 0.31  | 0.48  | 0.73  |
|                  |               |                                      |            | Output Torque Nm | 21.          | 66.   | 122.  | 202.  | 350.  | 545.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.18         | 0.30  | 0.48  | 0.69  | 0.92  | 1.04  |
|                  |               |                                      |            | Output Torque Nm | 89.          | 177.  | 311.  | 452.  | 693.  | 788.  |
|                  |               |                                      |            | Efficiency %     | 40           | 47    | 52    | 54    | 62    | 63    |
|                  | 70.0          | 6.86                                 | Mechanical | Input Power kW   | 0.03         | 0.09  | 0.14  | 0.24  | 0.34  | 0.54  |
|                  |               |                                      |            | Output Torque Nm | 17.          | 54.   | 95.   | 163.  | 274.  | 445.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.15         | 0.26  | 0.40  | 0.55  | 0.73  | 0.82  |
|                  |               |                                      |            | Output Torque Nm | 81.          | 174.  | 285.  | 392.  | 598.  | 682.  |
|                  |               |                                      |            | Efficiency %     | 36           | 45    | 49    | 50    | 57    | 59    |

# SERIES AJ

## RATINGS AT 480 REV/MIN INPUT

|                  | NOMINAL RATIO | NOMINAL<br>OUTPUT SPEED<br>REV / MIN | CAPACITY   |                  | SIZE OF UNIT |       |       |        |       |
|------------------|---------------|--------------------------------------|------------|------------------|--------------|-------|-------|--------|-------|
|                  |               |                                      |            |                  | A0410        | A0510 | A0610 | A0730  | A0860 |
| SINGLE REDUCTION | 75.0          | 6.40                                 | Mechanical | Input Power kW   | 0.21         | 0.29  | 0.50  | 0.58   | 0.98  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 276.  | 492.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.54         | 0.98  | 1.25  | 1.48   | 1.83  |
|                  |               |                                      |            | Output Torque Nm | 494.         | 953.  | 1260. | 1550.  | 1800. |
|                  |               |                                      |            | Efficiency %     | 60           | 63    | 63    | 68     | 70    |
|                  | 100.          | 4.80                                 | Mechanical | Input Power kW   | 0.12         | 0.28  | 0.43  | 0.45   | 0.76  |
|                  |               |                                      |            | Output Torque Nm | 134.         | 309.  | 501.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.52         | 0.62  | 0.89  | 1.48   | 1.58  |
|                  |               |                                      |            | Output Torque Nm | 636.         | 709.  | 1050. | 2010.  | 2000. |
|                  |               |                                      |            | Efficiency %     | 57           | 54    | 56    | 65     | 67    |
|                  | 125.          | 3.84                                 | Mechanical | Input Power kW   | 0.15         | 0.23  | 0.37  | 0.40   | 0.66  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.37         | 0.56  | 0.79  | 1.14   | 1.16  |
|                  |               |                                      |            | Output Torque Nm | 485.         | 755.  | 1100. | 1760.  | 1680. |
|                  |               |                                      |            | Efficiency %     | 49           | 51    | 52    | 58     | 60    |
|                  | 150.          | 3.20                                 | Mechanical | Input Power kW   | 0.12         | 0.17  | 0.28  | 0.33   | 0.50  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 284.  | 501.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.49         | 0.58  | 1.10  | 0.99   | 1.43  |
|                  |               |                                      |            | Output Torque Nm | 802.         | 997.  | 2020. | 1900.  | 2790. |
|                  |               |                                      |            | Efficiency %     | 52           | 55    | 56    | 61     | 63    |
|                  | 200.          | 2.40                                 | Mechanical | Input Power kW   | 0.07         | 0.16  | 0.24  | 0.26   | 0.39  |
|                  |               |                                      |            | Output Torque Nm | 140.         | 309.  | 501.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.48         | 0.57  | 0.78  | 0.99   | 1.43  |
|                  |               |                                      |            | Output Torque Nm | 1040.        | 1140. | 1670. | 2450.  | 3600. |
|                  |               |                                      |            | Efficiency %     | 49           | 47    | 49    | 58     | 60    |
|                  | 225.          | 2.13                                 | Mechanical | Input Power kW   | 0.09         | 0.13  | 0.22  | 0.26   | 0.38  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 283.  | 501.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.46         | 0.48  | 0.85  | 0.76   | 1.26  |
|                  |               |                                      |            | Output Torque Nm | 974.         | 1070. | 2000. | 1860.  | 3250. |
|                  |               |                                      |            | Efficiency %     | 48           | 52    | 52    | 57     | 60    |
|                  | 250.          | 1.92                                 | Mechanical | Input Power kW   | 0.09         | 0.14  | 0.21  | 0.23   | 0.35  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.34         | 0.51  | 0.70  | 0.99   | 1.06  |
|                  |               |                                      |            | Output Torque Nm | 786.         | 1210. | 1750. | 2760.  | 3010. |
|                  |               |                                      |            | Efficiency %     | 42           | 44    | 46    | 51     | 52    |
|                  | 300.          | 1.60                                 | Mechanical | Input Power kW   | 0.08         | 0.11  | 0.17  | 0.20   | 0.32  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 283.  | 501.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.31         | 0.32  | 0.81  | 0.72   | 0.85  |
|                  |               |                                      |            | Output Torque Nm | 756.         | 823.  | 2490. | 2310.  | 2610. |
|                  |               |                                      |            | Efficiency %     | 40           | 43    | 50    | 54     | 52    |
|                  | 350.          | 1.37                                 | Mechanical | Input Power kW   | 0.07         | 0.11  | 0.17  | 0.18   | 0.17  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.   | 488.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.33         | 0.48  | 0.6   | 8 0.76 | 0.50  |
|                  |               |                                      |            | Output Torque Nm | 991.         | 1460. | 2190. | 2690.  | 1520. |
|                  |               |                                      |            | Efficiency %     | 39           | 40    | 42    | 46     | 42    |
|                  | 375.          | 1.28                                 | Mechanical | Input Power kW   | 0.03         | 0.04  | 0.08  | 0.11   | 0.27  |
|                  |               |                                      |            | Output Torque Nm | 60.          | 105.  | 179.  | 301.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.22         | 0.34  | 0.47  | 0.51   | 1.01  |
|                  |               |                                      |            | Output Torque Nm | 588.         | 976.  | 1300. | 1640.  | 3780. |
|                  |               |                                      |            | Efficiency %     | 29           | 34    | 32    | 39     | 50    |
|                  | 400.          | 1.20                                 | Mechanical | Input Power kW   | 0.05         | 0.11  | 0.15  | 0.16   | 0.25  |
|                  |               |                                      |            | Output Torque Nm | 144.         | 309.  | 501.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.31         | 0.32  | 0.72  | 0.72   | 0.85  |
|                  |               |                                      |            | Output Torque Nm | 995.         | 947.  | 2580. | 2970.  | 3360. |
|                  |               |                                      |            | Efficiency %     | 36           | 36    | 43    | 51     | 49    |
|                  | 450.          | 1.07                                 | Mechanical | Input Power kW   | 0.06         | 0.09  | 0.15  | 0.16   | 0.23  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.31         | 0.48  | 0.64  | 0.76   | 0.97  |
|                  |               |                                      |            | Output Torque Nm | 1060.        | 1700. | 2340. | 3130.  | 4230. |
|                  |               |                                      |            | Efficiency %     | 36           | 39    | 39    | 44     | 48    |
|                  | 500.          | 0.96                                 | Mechanical | Input Power kW   | 0.06         | 0.09  | 0.13  | 0.14   | 0.23  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.31         | 0.32  | 0.65  | 0.72   | 0.85  |
|                  |               |                                      |            | Output Torque Nm | 1070.        | 1120. | 2710. | 3330.  | 3770. |
|                  |               |                                      |            | Efficiency %     | 31           | 33    | 40    | 44     | 42    |
|                  | 600.          | 0.80                                 | Mechanical | Input Power kW   | 0.05         | 0.08  | 0.12  | 0.12   | 0.20  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.31         | 0.32  | 0.61  | 0.72   | 0.85  |
|                  |               |                                      |            | Output Torque Nm | 1210.        | 1300. | 2880. | 3880.  | 4400. |
|                  |               |                                      |            | Efficiency %     | 29           | 32    | 37    | 42     | 40    |
|                  | 625.          | 0.77                                 | Mechanical | Input Power kW   | 0.05         | 0.08  | 0.12  | 0.13   | 0.19  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.29         | 0.29  | 0.56  | 0.50   | 0.75  |
|                  |               |                                      |            | Output Torque Nm | 1170.        | 1220. | 2630. | 2570.  | 3960. |
|                  |               |                                      |            | Efficiency %     | 29           | 31    | 34    | 38     | 39    |
|                  | 700.          | 0.69                                 | Mechanical | Input Power kW   | 0.04         | 0.04  | 0.09  | 0.09   | 0.14  |
|                  |               |                                      |            | Output Torque Nm | 127.         | 122.  | 382.  | 416.   | 716.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.15         | 0.16  | 0.32  | 0.25   | 0.36  |
|                  |               |                                      |            | Output Torque Nm | 592.         | 648.  | 1590. | 1380.  | 1950. |
|                  |               |                                      |            | Efficiency %     | 23           | 23    | 33    | 34     | 38    |
|                  | 750.          | 0.64                                 | Mechanical | Input Power kW   | 0.05         | 0.07  | 0.11  | 0.11   | 0.17  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.29         | 0.29  | 0.56  | 0.50   | 0.75  |
|                  |               |                                      |            | Output Torque Nm | 1330.        | 1420. | 2980. | 2990.  | 4620. |
|                  |               |                                      |            | Efficiency %     | 27           | 30    | 32    | 36     | 38    |
|                  | 800.          | 0.60                                 | Mechanical | Input Power kW   | 0.04         | 0.07  | 0.10  | 0.11   | 0.15  |
|                  |               |                                      |            | Output Torque Nm | 151.         | 309.  | 501.  | 603.   | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.22         | 0.23  | 0.47  | 0.42   | 0.67  |
|                  |               |                                      |            | Output Torque Nm | 1110.        | 1050. | 2590. | 2680.  | 4560. |
|                  |               |                                      |            | Efficiency %     | 26           | 26    | 31    | 37     | 41    |

# SERIES AJ

## RATINGS AT 480 REV/MIN INPUT

|                  | NOMINAL RATIO | NOMINAL<br>OUTPUT SPEED<br>REV / MIN | CAPACITY   |                  | SIZE OF UNIT |       |       |       |       |
|------------------|---------------|--------------------------------------|------------|------------------|--------------|-------|-------|-------|-------|
|                  |               |                                      |            |                  | A0410        | A0510 | A0610 | A0730 | A0860 |
| SINGLE REDUCTION | 900.          | 0.53                                 | Mechanical | Input Power kW   | 0.04         | 0.06  | 0.09  | 0.10  | 0.15  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.27         | 0.28  | 0.52  | 0.47  | 0.73  |
|                  |               |                                      |            | Output Torque Nm | 1420.        | 1520. | 3120. | 3140. | 5160. |
|                  | 1000.         | 0.48                                 | Mechanical | Efficiency %     | 25           | 28    | 29    | 33    | 36    |
|                  |               |                                      |            | Input Power kW   | 0.04         | 0.06  | 0.09  | 0.10  | 0.14  |
|                  |               |                                      | Thermal    | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      |            | Input Power kW   | 0.22         | 0.23  | 0.47  | 0.42  | 0.67  |
|                  | 1200.         | 0.40                                 | Mechanical | Output Torque Nm | 1180.        | 1230. | 3050. | 2980. | 5080. |
|                  |               |                                      |            | Efficiency %     | 22           | 24    | 29    | 32    | 35    |
|                  |               |                                      | Thermal    | Input Power kW   | 0.04         | 0.06  | 0.08  | 0.08  | 0.12  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  | 1250.         | 0.38                                 | Mechanical | Efficiency %     | 20           | 23    | 26    | 30    | 33    |
|                  |               |                                      |            | Input Power kW   | 0.04         | 0.05  | 0.08  | 0.08  | 0.12  |
|                  |               |                                      | Thermal    | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      |            | Input Power kW   | 0.19         | 0.20  | 0.41  | 0.36  | 0.50  |
|                  | 1400.         | 0.34                                 | Mechanical | Output Torque Nm | 1220.        | 1270. | 3170. | 2990. | 4270. |
|                  |               |                                      |            | Efficiency %     | 21           | 23    | 27    | 29    | 31    |
|                  |               |                                      | Thermal    | Input Power kW   | 0.03         | 0.04  | 0.07  | 0.08  | 0.11  |
|                  |               |                                      |            | Output Torque Nm | 156.         | 185.  | 501.  | 603.  | 950.  |
|                  | 1500.         | 0.32                                 | Mechanical | Input Power kW   | 0.15         | 0.16  | 0.32  | 0.25  | 0.36  |
|                  |               |                                      |            | Output Torque Nm | 986.         | 978.  | 2580. | 2320. | 3500. |
|                  |               |                                      | Thermal    | Efficiency %     | 19           | 18    | 25    | 30    | 33    |
|                  |               |                                      |            | Input Power kW   | 0.03         | 0.05  | 0.07  | 0.07  | 0.11  |
|                  | 1600.         | 0.30                                 | Mechanical | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      |            | Input Power kW   | 0.19         | 0.20  | 0.41  | 0.36  | 0.50  |
|                  |               |                                      | Thermal    | Output Torque Nm | 1380.        | 1480. | 3580. | 3490. | 4980. |
|                  |               |                                      |            | Efficiency %     | 19           | 21    | 25    | 28    | 30    |
|                  | 1750.         | 0.27                                 | Mechanical | Input Power kW   | 0.03         | 0.04  | 0.06  | 0.07  | 0.10  |
|                  |               |                                      |            | Output Torque Nm | 151.         | 277.  | 457.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.22         | 0.23  | 0.47  | 0.42  | 0.67  |
|                  |               |                                      |            | Output Torque Nm | 1640.        | 1800. | 4230. | 4290. | 7320. |
|                  | 1800.         | 0.27                                 | Mechanical | Efficiency %     | 17           | 20    | 23    | 27    | 30    |
|                  |               |                                      |            | Input Power kW   | 0.03         | 0.04  | 0.06  | 0.07  | 0.10  |
|                  |               |                                      | Thermal    | Output Torque Nm | 189.         | 217.  | 501.  | 603.  | 950.  |
|                  |               |                                      |            | Input Power kW   | 0.15         | 0.16  | 0.32  | 0.25  | 0.36  |
|                  | 2000.         | 0.24                                 | Mechanical | Output Torque Nm | 1050.        | 1150. | 3030. | 2560. | 3870. |
|                  |               |                                      |            | Efficiency %     | 17           | 17    | 23    | 25    | 28    |
|                  |               |                                      | Thermal    | Input Power kW   | 0.03         | 0.05  | 0.07  | 0.07  | 0.09  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  | 2100.         | 0.23                                 | Mechanical | Input Power kW   | 0.17         | 0.18  | 0.34  | 0.29  | 0.43  |
|                  |               |                                      |            | Output Torque Nm | 1320.        | 1410. | 3180. | 3040. | 4950. |
|                  |               |                                      | Thermal    | Efficiency %     | 16           | 19    | 21    | 24    | 28    |
|                  |               |                                      |            | Input Power kW   | 0.02         | 0.04  | 0.05  | 0.06  | 0.09  |
|                  | 2400.         | 0.20                                 | Mechanical | Output Torque Nm | 153.         | 281.  | 463.  | 603.  | 950.  |
|                  |               |                                      |            | Input Power kW   | 0.19         | 0.20  | 0.41  | 0.36  | 0.50  |
|                  |               |                                      | Thermal    | Output Torque Nm | 1690.        | 1860. | 4390. | 4300. | 6150. |
|                  |               |                                      |            | Efficiency %     | 16           | 19    | 21    | 25    | 27    |
|                  | 2500.         | 0.19                                 | Mechanical | Input Power kW   | 0.03         | 0.04  | 0.06  | 0.06  | 0.09  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 253.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.15         | 0.16  | 0.32  | 0.25  | 0.36  |
|                  |               |                                      |            | Output Torque Nm | 1190.        | 1340. | 3420. | 2980. | 4510. |
|                  | 2800.         | 0.17                                 | Mechanical | Efficiency %     | 15           | 17    | 21    | 24    | 26    |
|                  |               |                                      |            | Input Power kW   | 0.02         | 0.04  | 0.05  | 0.06  | 0.08  |
|                  |               |                                      | Thermal    | Output Torque Nm | 154.         | 283.  | 467.  | 603.  | 950.  |
|                  |               |                                      |            | Input Power kW   | 0.17         | 0.18  | 0.34  | 0.29  | 0.43  |
|                  | 3000.         | 0.16                                 | Mechanical | Output Torque Nm | 1620.        | 1780. | 3900. | 3750. | 6120. |
|                  |               |                                      |            | Efficiency %     | 13           | 17    | 18    | 21    | 25    |
|                  |               |                                      | Thermal    | Input Power kW   | 0.02         | 0.03  | 0.04  | 0.05  | 0.08  |
|                  |               |                                      |            | Output Torque Nm | 110.         | 201.  | 334.  | 582.  | 912.  |
|                  | 3500.         | 0.14                                 | Mechanical | Input Power kW   | 0.19         | 0.20  | 0.41  | 0.36  | 0.50  |
|                  |               |                                      |            | Output Torque Nm | 2010.        | 2100. | 5080. | 5120. | 7150. |
|                  |               |                                      | Thermal    | Efficiency %     | 12           | 15    | 17    | 23    | 24    |
|                  |               |                                      |            | Input Power kW   | 0.02         | 0.03  | 0.05  | 0.05  | 0.07  |
|                  | 3600.         | 0.13                                 | Mechanical | Output Torque Nm | 156.         | 286.  | 471.  | 603.  | 950.  |
|                  |               |                                      |            | Input Power kW   | 0.15         | 0.16  | 0.32  | 0.25  | 0.36  |
|                  |               |                                      | Thermal    | Output Torque Nm | 1460.        | 1680. | 4190. | 3670. | 5570. |
|                  |               |                                      |            | Efficiency %     | 12           | 15    | 18    | 21    | 23    |
|                  | 4200.         | 0.11                                 | Mechanical | Input Power kW   | 0.02         | 0.03  | 0.04  | 0.05  | 0.07  |
|                  |               |                                      |            | Output Torque Nm | 111.         | 203.  | 337.  | 588.  | 921.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.17         | 0.18  | 0.34  | 0.29  | 0.43  |
|                  |               |                                      |            | Output Torque Nm | 1910.        | 2000. | 4510. | 4460. | 7110. |
|                  | 4200.         | 0.11                                 | Mechanical | Efficiency %     | 10           | 13    | 15    | 19    | 22    |
|                  |               |                                      |            | Input Power kW   | 0.02         | 0.02  | 0.03  | 0.05  | 0.06  |
|                  |               |                                      | Thermal    | Output Torque Nm | 112.         | 205.  | 340.  | 593.  | 928.  |
|                  |               |                                      |            | Input Power kW   | 0.15         | 0.16  | 0.32  | 0.25  | 0.36  |
|                  | 4200.         | 0.11                                 | Mechanical | Output Torque Nm | 1730.        | 1890. | 4850. | 4370. | 6470. |
|                  |               |                                      |            | Efficiency %     | 9            | 12    | 14    | 19    | 21    |
|                  |               |                                      | Thermal    | Input Power kW   | 0.02         | 0.02  | 0.03  | 0.04  | 0.05  |
|                  |               |                                      |            | Output Torque Nm | 85.          | 156.  | 257.  | 446.  | 695.  |
|                  | 4200.         | 0.11                                 | Mechanical | Input Power kW   | 0.17         | 0.18  | 0.34  | 0.29  | 0.43  |
|                  |               |                                      |            | Output Torque Nm | 2000.        | 2290. | 5150. | 4900. | 7980. |
|                  |               |                                      | Thermal    | Efficiency %     | 8            | 11    | 12    | 16    | 19    |
|                  |               |                                      |            | Input Power kW   | 0.01         | 0.02  | 0.03  | 0.04  | 0.05  |
|                  | 4200.         | 0.11                                 | Mechanical | Output Torque Nm | 85.          | 157.  | 259.  | 449.  | 700.  |
|                  |               |                                      |            | Input Power kW   | 0.15         | 0.16  | 0.32  | 0.25  | 0.36  |
|                  |               |                                      | Thermal    | Output Torque Nm | 1810.        | 2160. | 5530. | 4790. | 7260. |
|                  |               |                                      |            | Efficiency %     | 7            | 10    | 11    | 15    | 18    |

# SERIES AJ

## RATINGS AT 250 REV/MIN INPUT

|                  | NOMINAL RATIO | NOMINAL<br>OUTPUT SPEED<br>REV / MIN | CAPACITY   |                  | SIZE OF UNIT |       |       |       |       |       |
|------------------|---------------|--------------------------------------|------------|------------------|--------------|-------|-------|-------|-------|-------|
|                  |               |                                      |            |                  | A0280        | A0410 | A0510 | A0610 | A0730 | A0860 |
| SINGLE REDUCTION | 5.0           | 50.00                                | Mechanical | Input Power kW   | 0.20         | 0.51  | 0.93  | 1.36  | 2.39  | 3.31  |
|                  |               |                                      |            | Output Torque Nm | 33.          | 86.   | 148.  | 225.  | 428.  | 554.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.75         | 1.21  | 1.93  | 2.85  | 3.69  | 4.04  |
|                  |               |                                      |            | Output Torque Nm | 127.         | 206.  | 306.  | 474.  | 662.  | 676.  |
|                  |               |                                      |            | Efficiency %     | 84           | 85    | 87    | 87    | 90    | 91    |
|                  | 7.5           | 33.33                                | Mechanical | Input Power kW   | 0.19         | 0.44  | 0.76  | 1.18  | 1.74  | 2.73  |
|                  |               |                                      |            | Output Torque Nm | 43.          | 101.  | 179.  | 281.  | 429.  | 675.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.62         | 1.03  | 1.63  | 2.50  | 3.26  | 3.51  |
|                  |               |                                      |            | Output Torque Nm | 142.         | 239.  | 384.  | 595.  | 802.  | 868.  |
|                  |               |                                      |            | Efficiency %     | 81           | 82    | 84    | 85    | 89    | 89    |
|                  | 10.0          | 25.00                                | Mechanical | Input Power kW   | 0.16         | 0.36  | 0.71  | 1.03  | 1.21  | 2.36  |
|                  |               |                                      |            | Output Torque Nm | 48.          | 114.  | 226.  | 316.  | 412.  | 762.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.46         | 0.83  | 1.28  | 2.12  | 2.74  | 2.99  |
|                  |               |                                      |            | Output Torque Nm | 142.         | 263.  | 412.  | 649.  | 940.  | 965.  |
|                  |               |                                      |            | Efficiency %     | 76           | 78    | 80    | 83    | 86    | 87    |
|                  | 12.5          | 20.00                                | Mechanical | Input Power kW   | 0.16         | 0.39  | 0.67  | 0.88  | 1.32  | 1.65  |
|                  |               |                                      |            | Output Torque Nm | 54.          | 142.  | 246.  | 330.  | 529.  | 685.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.38         | 0.70  | 1.15  | 1.67  | 2.25  | 2.69  |
|                  |               |                                      |            | Output Torque Nm | 133.         | 253.  | 428.  | 632.  | 902.  | 1120. |
|                  |               |                                      |            | Efficiency %     | 72           | 75    | 77    | 79    | 84    | 86    |
|                  | 15.0          | 16.67                                | Mechanical | Input Power kW   | 0.14         | 0.38  | 0.42  | 0.78  | 1.17  | 1.77  |
|                  |               |                                      |            | Output Torque Nm | 56.          | 153.  | 177.  | 345.  | 534.  | 818.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.39         | 0.63  | 1.15  | 1.51  | 2.12  | 2.27  |
|                  |               |                                      |            | Output Torque Nm | 154.         | 260.  | 491.  | 665.  | 973.  | 1050. |
|                  |               |                                      |            | Efficiency %     | 71           | 73    | 77    | 77    | 82    | 83    |
|                  | 20.0          | 12.50                                | Mechanical | Input Power kW   | 0.12         | 0.22  | 0.52  | 0.68  | 0.78  | 1.17  |
|                  |               |                                      |            | Output Torque Nm | 57.          | 119.  | 264.  | 360.  | 462.  | 698.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.26         | 0.61  | 0.74  | 1.07  | 1.81  | 1.94  |
|                  |               |                                      |            | Output Torque Nm | 120.         | 329.  | 377.  | 569.  | 1080. | 1160. |
|                  |               |                                      |            | Efficiency %     | 60           | 71    | 67    | 69    | 80    | 80    |
|                  | 25.0          | 10.00                                | Mechanical | Input Power kW   | 0.10         | 0.27  | 0.46  | 0.68  | 0.87  | 1.36  |
|                  |               |                                      |            | Output Torque Nm | 57.          | 161.  | 277.  | 429.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.24         | 0.43  | 0.66  | 0.95  | 1.32  | 1.41  |
|                  |               |                                      |            | Output Torque Nm | 133.         | 255.  | 401.  | 596.  | 914.  | 983.  |
|                  |               |                                      |            | Efficiency %     | 57           | 62    | 64    | 66    | 72    | 73    |
|                  | 30.0          | 8.33                                 | Mechanical | Input Power kW   | 0.09         | 0.24  | 0.36  | 0.60  | 0.69  | 1.16  |
|                  |               |                                      |            | Output Torque Nm | 57.          | 162.  | 252.  | 430.  | 556.  | 946.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.23         | 0.40  | 0.64  | 0.87  | 1.23  | 1.32  |
|                  |               |                                      |            | Output Torque Nm | 144.         | 271.  | 455.  | 628.  | 1000. | 1080. |
|                  |               |                                      |            | Efficiency %     | 54           | 59    | 61    | 63    | 70    | 71    |
|                  | 40.0          | 6.25                                 | Mechanical | Input Power kW   | 0.05         | 0.15  | 0.23  | 0.43  | 0.49  | 0.86  |
|                  |               |                                      |            | Output Torque Nm | 37.          | 126.  | 205.  | 379.  | 491.  | 878.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.19         | 0.36  | 0.60  | 0.78  | 1.08  | 1.16  |
|                  |               |                                      |            | Output Torque Nm | 138.         | 304.  | 533.  | 699.  | 1100. | 1190. |
|                  |               |                                      |            | Efficiency %     | 46           | 54    | 58    | 58    | 66    | 67    |
|                  | 50.0          | 5.00                                 | Mechanical | Input Power kW   | 0.04         | 0.09  | 0.17  | 0.27  | 0.37  | 0.59  |
|                  |               |                                      |            | Output Torque Nm | 29.          | 91.   | 166.  | 276.  | 439.  | 707.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.17         | 0.31  | 0.47  | 0.66  | 0.83  | 0.85  |
|                  |               |                                      |            | Output Torque Nm | 144.         | 309.  | 476.  | 687.  | 1010. | 1030. |
|                  |               |                                      |            | Efficiency %     | 43           | 51    | 52    | 54    | 63    | 63    |
|                  | 60.0          | 4.17                                 | Mechanical | Input Power kW   | 0.03         | 0.07  | 0.11  | 0.18  | 0.27  | 0.42  |
|                  |               |                                      |            | Output Torque Nm | 22.          | 70.   | 128.  | 211.  | 366.  | 571.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.15         | 0.26  | 0.41  | 0.60  | 0.69  | 0.73  |
|                  |               |                                      |            | Output Torque Nm | 138.         | 273.  | 480.  | 713.  | 934.  | 998.  |
|                  |               |                                      |            | Efficiency %     | 38           | 44    | 49    | 51    | 58    | 59    |
|                  | 70.0          | 3.57                                 | Mechanical | Input Power kW   | 0.02         | 0.05  | 0.08  | 0.14  | 0.20  | 0.31  |
|                  |               |                                      |            | Output Torque Nm | 18.          | 57.   | 100.  | 170.  | 286.  | 465.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.12         | 0.22  | 0.34  | 0.48  | 0.55  | 0.58  |
|                  |               |                                      |            | Output Torque Nm | 125.         | 271.  | 443.  | 621.  | 809.  | 868.  |
|                  |               |                                      |            | Efficiency %     | 35           | 43    | 47    | 47    | 54    | 55    |

# SERIES AJ

## RATINGS AT 250 REV/MIN INPUT

|                  | NOMINAL RATIO | NOMINAL<br>OUTPUT SPEED<br>REV / MIN | CAPACITY   |                  | SIZE OF UNIT |       |       |       |       |
|------------------|---------------|--------------------------------------|------------|------------------|--------------|-------|-------|-------|-------|
|                  |               |                                      |            |                  | A0410        | A0510 | A0610 | A0730 | A0860 |
| SINGLE REDUCTION | 75.0          | 3.33                                 | Mechanical | Input Power kW   | 0.11         | 0.16  | 0.27  | 0.32  | 0.53  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 284.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.46         | 0.81  | 1.06  | 1.17  | 1.60  |
|                  |               |                                      |            | Output Torque Nm | 779.         | 1460. | 1960. | 2280. | 2910. |
|                  |               |                                      |            | Efficiency %     | 58           | 61    | 61    | 66    | 68    |
|                  | 100.          | 2.50                                 | Mechanical | Input Power kW   | 0.06         | 0.15  | 0.24  | 0.25  | 0.41  |
|                  |               |                                      |            | Output Torque Nm | 140.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.45         | 0.53  | 0.75  | 1.17  | 1.39  |
|                  |               |                                      |            | Output Torque Nm | 1010.        | 1100. | 1630. | 2940. | 3250. |
|                  |               |                                      |            | Efficiency %     | 55           | 51    | 53    | 63    | 64    |
|                  | 125.          | 2.00                                 | Mechanical | Input Power kW   | 0.08         | 0.13  | 0.20  | 0.22  | 0.36  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.31         | 0.48  | 0.67  | 0.95  | 1.03  |
|                  |               |                                      |            | Output Torque Nm | 763.         | 1180. | 1710. | 2690. | 2710. |
|                  |               |                                      |            | Efficiency %     | 47           | 48    | 50    | 55    | 57    |
|                  | 150.          | 1.67                                 | Mechanical | Input Power kW   | 0.07         | 0.09  | 0.15  | 0.18  | 0.27  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 283.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.43         | 0.45  | 0.84  | 0.75  | 1.13  |
|                  |               |                                      |            | Output Torque Nm | 1290.        | 1410. | 2850. | 2650. | 4040. |
|                  |               |                                      |            | Efficiency %     | 50           | 53    | 54    | 59    | 60    |
|                  | 200.          | 1.25                                 | Mechanical | Input Power kW   | 0.04         | 0.09  | 0.13  | 0.14  | 0.21  |
|                  |               |                                      |            | Output Torque Nm | 144.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.43         | 0.45  | 0.68  | 0.75  | 1.13  |
|                  |               |                                      |            | Output Torque Nm | 1690.        | 1630. | 2640. | 3410. | 5200. |
|                  |               |                                      |            | Efficiency %     | 47           | 44    | 47    | 56    | 57    |
|                  | 225.          | 1.11                                 | Mechanical | Input Power kW   | 0.05         | 0.07  | 0.12  | 0.14  | 0.21  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 282.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.36         | 0.37  | 0.65  | 0.58  | 1.02  |
|                  |               |                                      |            | Output Torque Nm | 1400.        | 1520. | 2780. | 2620. | 4820. |
|                  |               |                                      |            | Efficiency %     | 46           | 50    | 50    | 54    | 57    |
|                  | 250.          | 1.00                                 | Mechanical | Input Power kW   | 0.05         | 0.07  | 0.11  | 0.12  | 0.19  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.30         | 0.45  | 0.60  | 0.75  | 0.92  |
|                  |               |                                      |            | Output Torque Nm | 1260.        | 1920. | 2780. | 3820. | 4740. |
|                  |               |                                      |            | Efficiency %     | 40           | 42    | 44    | 48    | 50    |
|                  | 300.          | 0.83                                 | Mechanical | Input Power kW   | 0.05         | 0.06  | 0.09  | 0.11  | 0.18  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 281.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.24         | 0.25  | 0.62  | 0.56  | 0.65  |
|                  |               |                                      |            | Output Torque Nm | 1070.        | 1160. | 3500. | 3280. | 3630. |
|                  |               |                                      |            | Efficiency %     | 38           | 41    | 48    | 52    | 49    |
|                  | 350.          | 0.71                                 | Mechanical | Input Power kW   | 0.04         | 0.06  | 0.09  | 0.10  | 0.10  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 506.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.29         | 0.37  | 0.60  | 0.58  | 0.45  |
|                  |               |                                      |            | Output Torque Nm | 1610.        | 2060. | 3510. | 3760. | 2480. |
|                  |               |                                      |            | Efficiency %     | 37           | 39    | 40    | 44    | 40    |
|                  | 375.          | 0.67                                 | Mechanical | Input Power kW   | 0.02         | 0.02  | 0.04  | 0.06  | 0.15  |
|                  |               |                                      |            | Output Torque Nm | 62.          | 109.  | 186.  | 313.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.20         | 0.32  | 0.41  | 0.48  | 0.8   |
|                  |               |                                      |            | Output Torque Nm | 982.         | 1670. | 2090. | 2760. | 5950. |
|                  |               |                                      |            | Efficiency %     | 29           | 33    | 31    | 37    | 47    |
|                  | 400.          | 0.63                                 | Mechanical | Input Power kW   | 0.03         | 0.06  | 0.08  | 0.08  | 0.14  |
|                  |               |                                      |            | Output Torque Nm | 150.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.24         | 0.25  | 0.62  | 0.56  | 0.65  |
|                  |               |                                      |            | Output Torque Nm | 1410.        | 1330. | 4060. | 4220. | 4660. |
|                  |               |                                      |            | Efficiency %     | 35           | 34    | 41    | 49    | 46    |
|                  | 450.          | 0.56                                 | Mechanical | Input Power kW   | 0.03         | 0.05  | 0.08  | 0.09  | 0.13  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.28         | 0.37  | 0.56  | 0.58  | 0.84  |
|                  |               |                                      |            | Output Torque Nm | 1720.        | 2390. | 3740. | 4380. | 6670. |
|                  |               |                                      |            | Efficiency %     | 35           | 37    | 37    | 42    | 45    |
|                  | 500.          | 0.50                                 | Mechanical | Input Power kW   | 0.03         | 0.05  | 0.07  | 0.08  | 0.13  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.24         | 0.25  | 0.57  | 0.56  | 0.65  |
|                  |               |                                      |            | Output Torque Nm | 1500.        | 1560. | 4350. | 4680. | 5190. |
|                  |               |                                      |            | Efficiency %     | 30           | 31    | 38    | 42    | 40    |
|                  | 600.          | 0.42                                 | Mechanical | Input Power kW   | 0.03         | 0.04  | 0.06  | 0.07  | 0.11  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.24         | 0.25  | 0.54  | 0.56  | 0.65  |
|                  |               |                                      |            | Output Torque Nm | 1700.        | 1820. | 4640. | 5460. | 6050. |
|                  |               |                                      |            | Efficiency %     | 28           | 30    | 36    | 40    | 38    |
|                  | 625.          | 0.40                                 | Mechanical | Input Power kW   | 0.03         | 0.04  | 0.06  | 0.07  | 0.11  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.22         | 0.23  | 0.43  | 0.39  | 0.58  |
|                  |               |                                      |            | Output Torque Nm | 1660.        | 1720. | 3640. | 3610. | 5470. |
|                  |               |                                      |            | Efficiency %     | 28           | 29    | 32    | 36    | 37    |
|                  | 700.          | 0.36                                 | Mechanical | Input Power kW   | 0.02         | 0.02  | 0.05  | 0.05  | 0.08  |
|                  |               |                                      |            | Output Torque Nm | 132.         | 127.  | 396.  | 431.  | 741.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.12         | 0.13  | 0.26  | 0.21  | 0.31  |
|                  |               |                                      |            | Output Torque Nm | 921.         | 979.  | 2310. | 2130. | 3020. |
|                  |               |                                      |            | Efficiency %     | 23           | 22    | 31    | 32    | 36    |
|                  | 750.          | 0.33                                 | Mechanical | Input Power kW   | 0.03         | 0.04  | 0.06  | 0.06  | 0.09  |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.22         | 0.23  | 0.43  | 0.39  | 0.58  |
|                  |               |                                      |            | Output Torque Nm | 1880.        | 2000. | 4120. | 4210. | 6380. |
|                  |               |                                      |            | Efficiency %     | 26           | 28    | 30    | 34    | 36    |
|                  | 800.          | 0.31                                 | Mechanical | Input Power kW   | 0.02         | 0.04  | 0.06  | 0.06  | 0.08  |
|                  |               |                                      |            | Output Torque Nm | 157.         | 309.  | 501.  | 603.  | 950.  |
|                  |               |                                      | Thermal    | Input Power kW   | 0.18         | 0.18  | 0.36  | 0.33  | 0.52  |
|                  |               |                                      |            | Output Torque Nm | 1580.        | 1490. | 3640. | 3840. | 6470. |
|                  |               |                                      |            | Efficiency %     | 25           | 25    | 30    | 35    | 39    |

# SERIES AJ

## RATINGS AT 250 REV/MIN INPUT

|                  | NOMINAL RATIO | NOMINAL<br>OUTPUT SPEED<br>REV / MIN | CAPACITY   |                  | SIZE OF UNIT |       |        |       |        |
|------------------|---------------|--------------------------------------|------------|------------------|--------------|-------|--------|-------|--------|
|                  |               |                                      |            |                  | A0410        | A0510 | A0610  | A0730 | A0860  |
| SINGLE REDUCTION | 900.          | 0.28                                 | Mechanical | Input Power kW   | 0.02         | 0.03  | 0.05   | 0.06  | 0.08   |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.   | 603.  | 950.   |
|                  |               |                                      | Thermal    | Input Power kW   | 0.21         | 0.22  | 0.40   | 0.36  | 0.56   |
|                  |               |                                      |            | Output Torque Nm | 2020.        | 2150. | 4340.  | 4430. | 7180.  |
|                  |               |                                      |            | Efficiency %     | 24           | 27    | 28     | 32    | 34     |
|                  | 1000.         | 0.25                                 | Mechanical | Input Power kW   | 0.02         | 0.04  | 0.05   | 0.05  | 0.08   |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.   | 603.  | 950.   |
|                  |               |                                      | Thermal    | Input Power kW   | 0.18         | 0.1   | 8 0.36 | 0.33  | 0.52   |
|                  |               |                                      |            | Output Torque Nm | 1680.        | 1750. | 4280.  | 4230. | 7150.  |
|                  |               |                                      |            | Efficiency %     | 21           | 23    | 27     | 30    | 33     |
|                  | 1200.         | 0.21                                 | Mechanical | Input Power kW   | 0.02         | 0.03  | 0.04   | 0.05  | 0.07   |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.   | 603.  | 950.   |
|                  |               |                                      | Thermal    | Input Power kW   | 0.18         | 0.1   | 8 0.36 | 0.33  | 0.52   |
|                  |               |                                      |            | Output Torque Nm | 1900.        | 2030. | 4840.  | 4930. | 8330.  |
|                  |               |                                      |            | Efficiency %     | 20           | 22    | 25     | 29    | 31     |
|                  | 1250.         | 0.20                                 | Mechanical | Input Power kW   | 0.02         | 0.03  | 0.04   | 0.05  | 0.07   |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.   | 603.  | 950.   |
|                  |               |                                      | Thermal    | Input Power kW   | 0.16         | 0.16  | 0.32   | 0.29  | 0.42   |
|                  |               |                                      |            | Output Torque Nm | 1760.        | 1840. | 4500.  | 4360. | 6470.  |
|                  |               |                                      |            | Efficiency %     | 20           | 22    | 25     | 28    | 30     |
|                  | 1400.         | 0.18                                 | Mechanical | Input Power kW   | 0.02         | 0.02  | 0.04   | 0.04  | 0.06   |
|                  |               |                                      |            | Output Torque Nm | 162.         | 190.  | 501.   | 603.  | 950.   |
|                  |               |                                      | Thermal    | Input Power kW   | 0.12         | 0.13  | 0.26   | 0.21  | 0.31   |
|                  |               |                                      |            | Output Torque Nm | 1530.        | 1470. | 3710.  | 3570. | 5410.  |
|                  |               |                                      |            | Efficiency %     | 19           | 18    | 23     | 28    | 31     |
|                  | 1500.         | 0.17                                 | Mechanical | Input Power kW   | 0.02         | 0.03  | 0.04   | 0.04  | 0.06   |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.   | 603.  | 950.   |
|                  |               |                                      | Thermal    | Input Power kW   | 0.16         | 0.16  | 0.32   | 0.29  | 0.42   |
|                  |               |                                      |            | Output Torque Nm | 1990.        | 2140. | 5080.  | 5080. | 7540.  |
|                  |               |                                      |            | Efficiency %     | 18           | 21    | 23     | 27    | 28     |
|                  | 1600.         | 0.16                                 | Mechanical | Input Power kW   | 0.02         | 0.02  | 0.03   | 0.04  | 0.05   |
|                  |               |                                      |            | Output Torque Nm | 157.         | 287.  | 474.   | 603.  | 950.   |
|                  |               |                                      | Thermal    | Input Power kW   | 0.18         | 0.1   | 8 0.36 | 0.33  | 0.52   |
|                  |               |                                      |            | Output Torque Nm | 2340.        | 2550. | 5930.  | 6080. | 10300. |
|                  |               |                                      |            | Efficiency %     | 17           | 20    | 22     | 26    | 28     |
|                  | 1750.         | 0.14                                 | Mechanical | Input Power kW   | 0.02         | 0.02  | 0.03   | 0.04  | 0.05   |
|                  |               |                                      |            | Output Torque Nm | 189.         | 224.  | 501.   | 603.  | 950.   |
|                  |               |                                      | Thermal    | Input Power kW   | 0.12         | 0.13  | 0.26   | 0.21  | 0.31   |
|                  |               |                                      |            | Output Torque Nm | 1620.        | 1730. | 4350.  | 3920. | 5940.  |
|                  |               |                                      |            | Efficiency %     | 16           | 17    | 21     | 24    | 26     |
|                  | 1800.         | 0.14                                 | Mechanical | Input Power kW   | 0.02         | 0.02  | 0.04   | 0.04  | 0.05   |
|                  |               |                                      |            | Output Torque Nm | 189.         | 309.  | 501.   | 603.  | 950.   |
|                  |               |                                      | Thermal    | Input Power kW   | 0.14         | 0.15  | 0.28   | 0.24  | 0.37   |
|                  |               |                                      |            | Output Torque Nm | 1910.        | 2060. | 4560.  | 4550. | 7550.  |
|                  |               |                                      |            | Efficiency %     | 16           | 18    | 20     | 23    | 26     |
|                  | 2000.         | 0.13                                 | Mechanical | Input Power kW   | 0.01         | 0.02  | 0.03   | 0.03  | 0.05   |
|                  |               |                                      |            | Output Torque Nm | 158.         | 291.  | 479.   | 603.  | 950.   |
|                  |               |                                      | Thermal    | Input Power kW   | 0.16         | 0.16  | 0.32   | 0.29  | 0.42   |
|                  |               |                                      |            | Output Torque Nm | 2440.        | 2690. | 6220.  | 6260. | 9300.  |
|                  |               |                                      |            | Efficiency %     | 16           | 18    | 21     | 24    | 25     |
|                  | 2100.         | 0.12                                 | Mechanical | Input Power kW   | 0.02         | 0.02  | 0.03   | 0.03  | 0.05   |
|                  |               |                                      |            | Output Torque Nm | 189.         | 260.  | 501.   | 603.  | 950.   |
|                  |               |                                      | Thermal    | Input Power kW   | 0.12         | 0.13  | 0.26   | 0.21  | 0.31   |
|                  |               |                                      |            | Output Torque Nm | 1840.        | 2010. | 4920.  | 4570. | 6930.  |
|                  |               |                                      |            | Efficiency %     | 15           | 16    | 20     | 22    | 25     |
|                  | 2400.         | 0.10                                 | Mechanical | Input Power kW   | 0.01         | 0.02  | 0.03   | 0.03  | 0.04   |
|                  |               |                                      |            | Output Torque Nm | 160.         | 293.  | 484.   | 603.  | 950.   |
|                  |               |                                      | Thermal    | Input Power kW   | 0.14         | 0.15  | 0.28   | 0.24  | 0.37   |
|                  |               |                                      |            | Output Torque Nm | 2340.        | 2580. | 5590.  | 5600. | 9300.  |
|                  |               |                                      |            | Efficiency %     | 14           | 16    | 18     | 20    | 24     |
|                  | 2500.         | 0.10                                 | Mechanical | Input Power kW   | 0.01         | 0.01  | 0.02   | 0.03  | 0.04   |
|                  |               |                                      |            | Output Torque Nm | 114.         | 208.  | 345.   | 602.  | 943.   |
|                  |               |                                      | Thermal    | Input Power kW   | 0.16         | 0.16  | 0.32   | 0.29  | 0.42   |
|                  |               |                                      |            | Output Torque Nm | 2890.        | 3030. | 7190.  | 7440. | 10800. |
|                  |               |                                      |            | Efficiency %     | 13           | 15    | 17     | 22    | 23     |
|                  | 2800.         | 0.09                                 | Mechanical | Input Power kW   | 0.01         | 0.02  | 0.03   | 0.03  | 0.04   |
|                  |               |                                      |            | Output Torque Nm | 161.         | 295.  | 487.   | 603.  | 950.   |
|                  |               |                                      | Thermal    | Input Power kW   | 0.12         | 0.13  | 0.26   | 0.21  | 0.31   |
|                  |               |                                      |            | Output Torque Nm | 2250.        | 2520. | 6020.  | 5620. | 8540.  |
|                  |               |                                      |            | Efficiency %     | 12           | 15    | 17     | 20    | 22     |
|                  | 3000.         | 0.08                                 | Mechanical | Input Power kW   | 0.01         | 0.01  | 0.02   | 0.03  | 0.04   |
|                  |               |                                      |            | Output Torque Nm | 115.         | 210.  | 348.   | 603.  | 950.   |
|                  |               |                                      | Thermal    | Input Power kW   | 0.14         | 0.15  | 0.28   | 0.24  | 0.37   |
|                  |               |                                      |            | Output Torque Nm | 2770.        | 2910. | 6460.  | 6650. | 10800. |
|                  |               |                                      |            | Efficiency %     | 11           | 13    | 15     | 19    | 21     |
|                  | 3500.         | 0.07                                 | Mechanical | Input Power kW   | 0.01         | 0.01  | 0.02   | 0.02  | 0.04   |
|                  |               |                                      |            | Output Torque Nm | 116.         | 211.  | 351.   | 603.  | 950.   |
|                  |               |                                      | Thermal    | Input Power kW   | 0.12         | 0.13  | 0.26   | 0.21  | 0.31   |
|                  |               |                                      |            | Output Torque Nm | 2670.        | 2840. | 6960.  | 6680. | 9910.  |
|                  |               |                                      |            | Efficiency %     | 10           | 12    | 14     | 18    | 20     |
|                  | 3600.         | 0.07                                 | Mechanical | Input Power kW   | 0.01         | 0.01  | 0.02   | 0.02  | 0.03   |
|                  |               |                                      |            | Output Torque Nm | 87.          | 161.  | 265.   | 460.  | 717.   |
|                  |               |                                      | Thermal    | Input Power kW   | 0.14         | 0.15  | 0.28   | 0.24  | 0.37   |
|                  |               |                                      |            | Output Torque Nm | 2890.        | 3320. | 7370.  | 7290. | 12100. |
|                  |               |                                      |            | Efficiency %     | 8            | 11    | 12     | 16    | 18     |
|                  | 4200.         | 0.06                                 | Mechanical | Input Power kW   | 0.01         | 0.01  | 0.01   | 0.02  | 0.03   |
|                  |               |                                      |            | Output Torque Nm | 88.          | 162.  | 267.   | 463.  | 722.   |
|                  |               |                                      | Thermal    | Input Power kW   | 0.12         | 0.13  | 0.26   | 0.21  | 0.31   |
|                  |               |                                      |            | Output Torque Nm | 2790.        | 3240. | 7940.  | 7320. | 11100. |
|                  |               |                                      |            | Efficiency %     | 7            | 10    | 12     | 15    | 17     |

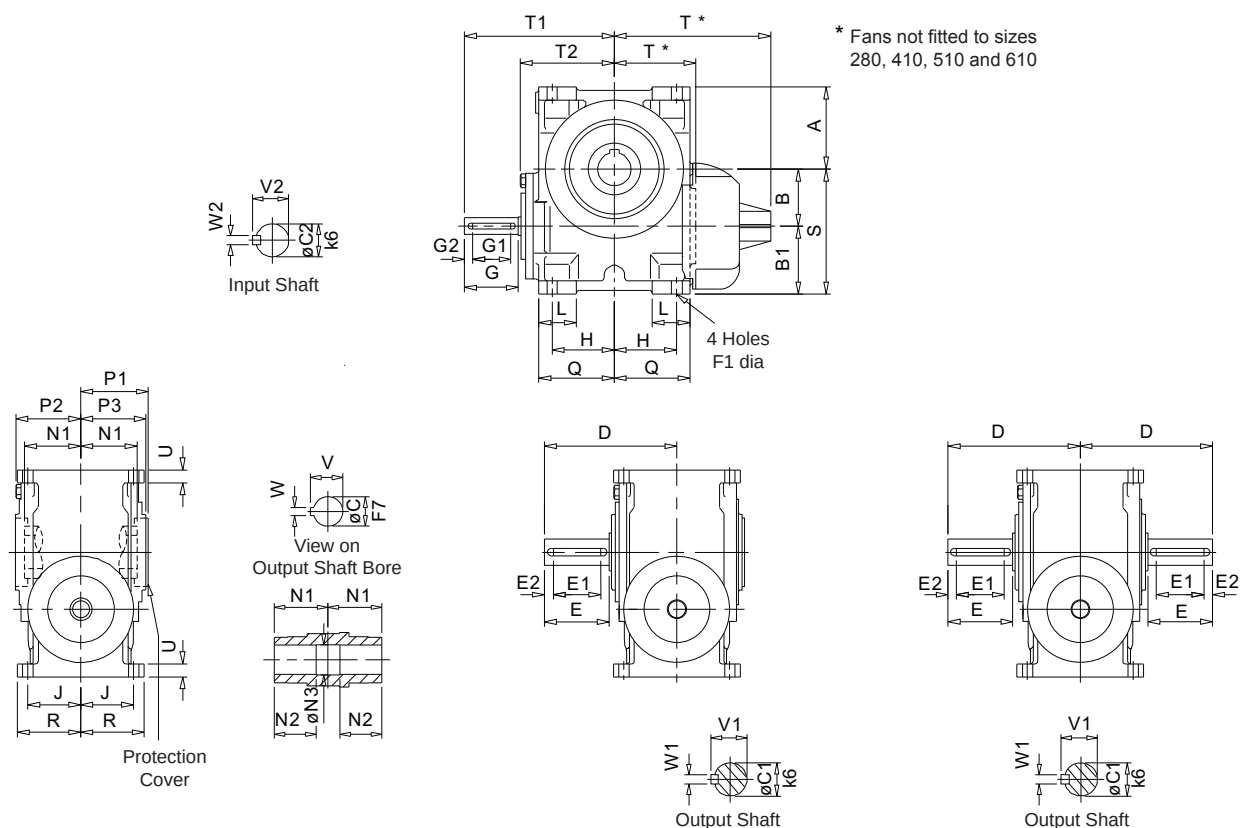
# SERIES AJ

## DIMENSIONS

### SINGLE REDUCTION

|   |   |  |  |   |  |  |   |   |
|---|---|--|--|---|--|--|---|---|
| A | 0 |  |  | 0 |  |  | W | R |
|---|---|--|--|---|--|--|---|---|

STANDARD UNIT



| SIZE  | A   | B    | B1   | $\phi C$ | $\phi C_1$ | C2 | D   | E  | E1 | E2  | F1   | G  | G1 | G2  |
|-------|-----|------|------|----------|------------|----|-----|----|----|-----|------|----|----|-----|
| A0280 | 58  | 28.6 | 52.4 | 16       | 16         | 10 | 79  | 35 | 23 | 5.5 | 9    | 29 | 22 | 3.5 |
| A0410 | 66  | 41.3 | 59.7 | 22       | 20         | 16 | 98  | 45 | 34 | 6   | 11.5 | 41 | 31 | 6.5 |
| A0510 | 74  | 50.8 | 61.2 | 25       | 25         | 16 | 117 | 57 | 42 | 7   | 11.5 | 48 | 35 | 6.5 |
| A0610 | 87  | 60.3 | 71.7 | 35       | 28         | 18 | 140 | 70 | 55 | 7   | 11.5 | 57 | 44 | 7   |
| A0730 | 105 | 73.0 | 80   | 40       | 30         | 22 | 168 | 83 | 62 | 7   | 13.5 | 70 | 57 | 7   |
| A0860 | 117 | 85.7 | 92.3 | 50       | 35         | 25 | 200 | 98 | 80 | 8   | 17.5 | 83 | 62 | 9   |

| SIZE  | H    | J    | L  | N1 | N2 | $\phi N_3$ | P1  | P2 | P3 | Q    | R    | S   | T   | T1    |
|-------|------|------|----|----|----|------------|-----|----|----|------|------|-----|-----|-------|
| A0280 | 52.5 | 41.5 | 30 | 40 | 32 | 16.2       | 48  | 45 | 44 | 61.5 | 50.5 | 81  | 53  | 90.5  |
| A0410 | 58.5 | 49   | 32 | 50 | 40 | 22.2       | 58  | 55 | 55 | 69   | 60   | 101 | 62  | 109.5 |
| A0510 | 57   | 52   | 35 | 56 | 45 | 25.2       | 63  | 61 | 61 | 67   | 62   | 112 | 75  | 133.4 |
| A0610 | 66   | 56   | 40 | 64 | 50 | 35.2       | 79  | 67 | 69 | 80   | 67   | 132 | 86  | 158.8 |
| A0730 | 81   | 70   | 45 | 77 | 60 | 40.2       | 95  | 81 | 84 | 95   | 84   | 153 | 197 | 190.5 |
| A0860 | 90   | 79   | 55 | 93 | 73 | 50.2       | 104 | 97 | 99 | 108  | 97   | 178 | 227 | 219.1 |

| SIZE  | T2  | U  | V            | V1             | V2               | W                | W1              | W2             |
|-------|-----|----|--------------|----------------|------------------|------------------|-----------------|----------------|
| A0280 | 61  | 9  | 18.4<br>18.3 | 18.00<br>17.87 | 11.200<br>11.075 | 5.015<br>4.985   | 5.000<br>4.970  | 3.000<br>2.375 |
| A0410 | 68  | 10 | 24.9<br>24.8 | 22.50<br>22.37 | 18.000<br>17.870 | 6.015<br>5.985   | 6.000<br>5.970  | 5.000<br>4.970 |
| A0510 | 86  | 12 | 28.5<br>28.3 | 28.00<br>27.71 | 18.000<br>17.870 | 8.018<br>7.982   | 8.000<br>7.964  | 5.000<br>4.970 |
| A0610 | 100 | 14 | 38.5<br>38.3 | 31.00<br>30.71 | 20.500<br>20.370 | 10.018<br>9.982  | 8.000<br>7.964  | 6.000<br>5.970 |
| A0730 | 122 | 16 | 43.5<br>43.3 | 33.00<br>32.71 | 24.500<br>24.370 | 12.021<br>11.979 | 8.000<br>7.964  | 6.000<br>5.970 |
| A0860 | 132 | 18 | 54.0<br>53.8 | 38.00<br>37.71 | 28.000<br>27.710 | 14.021<br>13.979 | 10.000<br>9.964 | 8.000<br>7.964 |

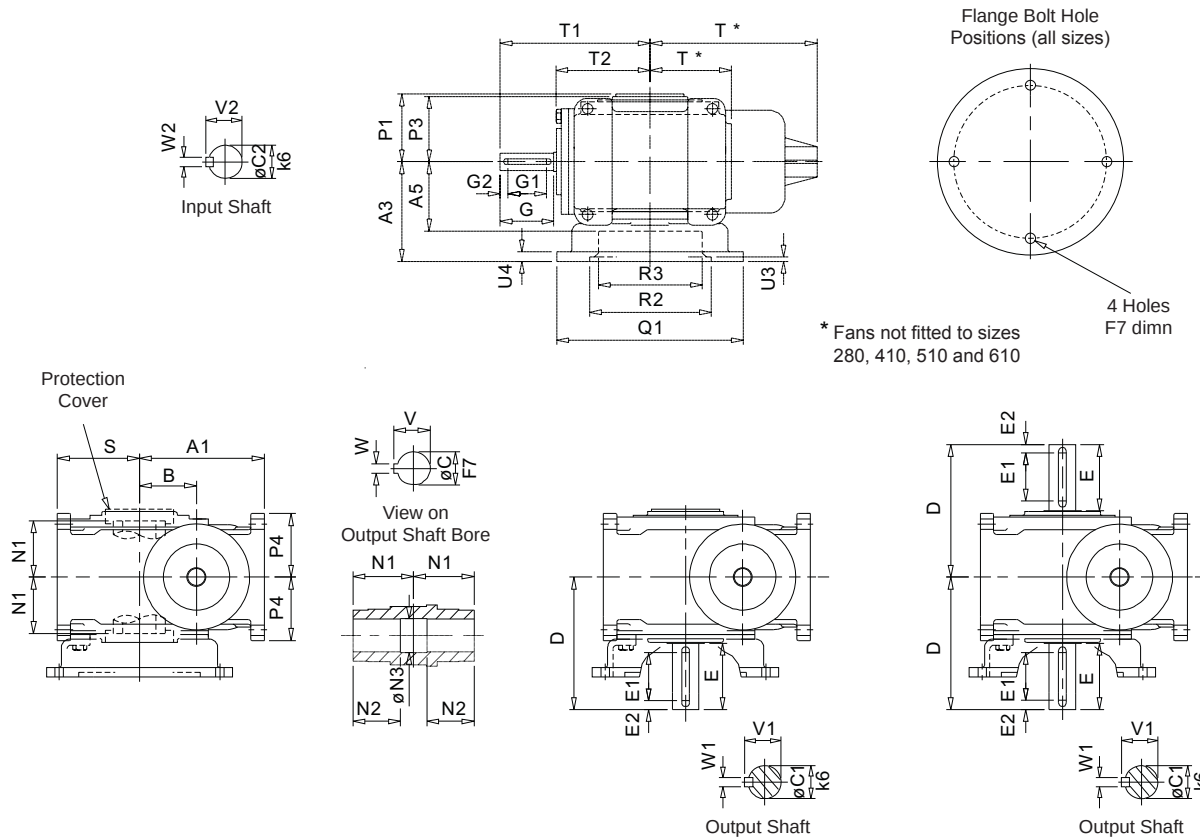
# SERIES AJ

## DIMENSIONS

### SINGLE REDUCTION

|   |   |  |  |   |  |  |   |   |
|---|---|--|--|---|--|--|---|---|
| A | 0 |  |  | 0 |  |  | F | R |
|---|---|--|--|---|--|--|---|---|

#### STANDARD UNIT FLANGE MOUNTED



| SIZE  | A 1 | A 3 | A 5 | B    | $\phi C$ | $\phi C1$ | C 2 | D   | E  | E 1 | E 2 | F 7                    | G  |
|-------|-----|-----|-----|------|----------|-----------|-----|-----|----|-----|-----|------------------------|----|
| A0280 | 81  | 63  | 49  | 28.6 | 16       | 16        | 10  | 79  | 35 | 23  | 5.5 | $\phi 6.6$ on 100 PCD  | 29 |
| A0410 | 101 | 80  | 60  | 41.3 | 22       | 20        | 16  | 98  | 45 | 34  | 6   | $\phi 9$ on 115 PCD    | 41 |
| A0510 | 112 | 90  | 65  | 50.8 | 25       | 25        | 16  | 117 | 57 | 42  | 7   | $\phi 9$ on 130 PCD    | 48 |
| A0610 | 132 | 105 | 71  | 60.3 | 35       | 28        | 18  | 140 | 70 | 55  | 7   | $\phi 11$ on 165 PCD   | 57 |
| A0730 | 153 | 120 | 91  | 73.0 | 40       | 30        | 22  | 168 | 83 | 62  | 7   | $\phi 13.5$ on 215 PCD | 70 |
| A0860 | 178 | 132 | 100 | 85.7 | 50       | 35        | 25  | 200 | 98 | 80  | 8   | $\phi 13.5$ on 215 PCD | 83 |

| SIZE  | G 1 | G 2 | N 1 | N 2 | $\phi N 3$ | P 1 | P 3 | P 4  | Q 1 | R 2                | R 3 | S   | T   | T 1   |
|-------|-----|-----|-----|-----|------------|-----|-----|------|-----|--------------------|-----|-----|-----|-------|
| A0280 | 22  | 3.5 | 40  | 32  | 16.2       | 48  | 44  | 50.5 | 120 | 80.030<br>80.000   | 60  | 58  | 53  | 90.5  |
| A0410 | 31  | 6.5 | 50  | 40  | 22.2       | 58  | 55  | 60   | 140 | 95.035<br>95.000   | 72  | 66  | 62  | 109.5 |
| A0510 | 35  | 6.5 | 56  | 45  | 25.2       | 63  | 61  | 62   | 160 | 110.035<br>110.000 | 88  | 74  | 75  | 133.4 |
| A0610 | 44  | 7   | 64  | 50  | 35.2       | 79  | 69  | 67   | 200 | 130.040<br>130.000 | 110 | 87  | 86  | 158.8 |
| A0730 | 57  | 7   | 77  | 60  | 40.2       | 95  | 84  | 84   | 250 | 180.040<br>180.000 | 136 | 105 | 197 | 190.5 |
| A0860 | 62  | 9   | 93  | 73  | 50.2       | 104 | 99  | 97   | 250 | 180.040<br>180.000 | 150 | 117 | 227 | 219.1 |

| SIZE  | T 2 | U 3 | U 4 | V            | V 1            | V 2              | W                | W 1             | W 2            |
|-------|-----|-----|-----|--------------|----------------|------------------|------------------|-----------------|----------------|
| A0280 | 61  | 3   | 7   | 18.4<br>18.3 | 18.00<br>17.87 | 11.200<br>11.075 | 5.015<br>4.985   | 5.000<br>4.970  | 3.000<br>2.375 |
| A0410 | 68  | 3.5 | 8   | 24.9<br>24.8 | 22.50<br>22.37 | 18.000<br>17.870 | 6.015<br>5.985   | 6.000<br>5.970  | 5.000<br>4.970 |
| A0510 | 86  | 4   | 9   | 28.5<br>28.3 | 28.00<br>27.71 | 18.000<br>17.870 | 8.018<br>7.982   | 8.000<br>7.964  | 5.000<br>4.970 |
| A0610 | 100 | 4.5 | 10  | 38.5<br>38.3 | 31.00<br>30.71 | 20.500<br>20.370 | 10.018<br>9.982  | 8.000<br>7.964  | 6.000<br>5.970 |
| A0730 | 122 | 5   | 12  | 43.5<br>43.3 | 33.00<br>32.71 | 24.500<br>24.370 | 12.021<br>11.979 | 8.000<br>7.964  | 6.000<br>5.970 |
| A0860 | 132 | 5   | 12  | 54.0<br>53.8 | 38.00<br>37.71 | 28.000<br>27.710 | 14.021<br>13.979 | 10.000<br>9.964 | 8.000<br>7.964 |

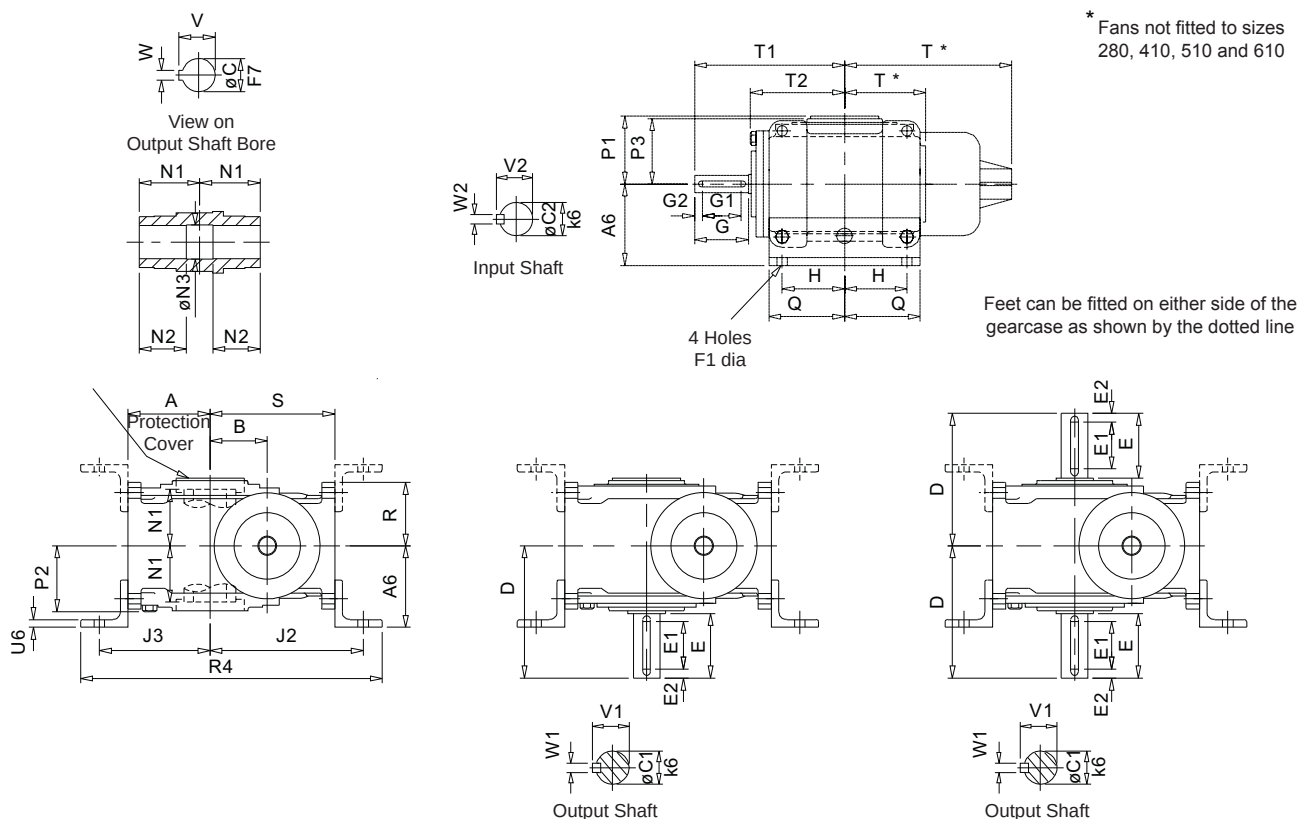
# SERIES AJ

## DIMENSIONS

### SINGLE REDUCTION

|   |   |  |  |   |  |  |   |   |
|---|---|--|--|---|--|--|---|---|
| A | 0 |  |  | 0 |  |  | G | R |
|---|---|--|--|---|--|--|---|---|

STANDARD UNIT WITH SIDE MOUNTED FEET



| SIZE  | A   | A6  | B    | $\phi C$ | $\phi C1$ | C2 | D   | E  | E1 | E2  | F1   | G  | G1 | G2  |
|-------|-----|-----|------|----------|-----------|----|-----|----|----|-----|------|----|----|-----|
| A0280 | 58  | 62  | 28.6 | 16       | 16        | 10 | 79  | 35 | 23 | 5.5 | 9    | 29 | 22 | 3.5 |
| A0410 | 66  | 75  | 41.3 | 22       | 20        | 16 | 98  | 45 | 34 | 6   | 11.5 | 41 | 31 | 6.5 |
| A0510 | 74  | 78  | 50.8 | 25       | 25        | 16 | 117 | 57 | 42 | 7   | 11.5 | 48 | 35 | 6.5 |
| A0610 | 87  | 86  | 60.3 | 35       | 28        | 18 | 140 | 70 | 55 | 7   | 11.5 | 57 | 44 | 7   |
| A0730 | 105 | 103 | 73.0 | 40       | 30        | 22 | 168 | 83 | 62 | 7   | 13.5 | 70 | 57 | 7   |
| A0860 | 117 | 118 | 85.7 | 50       | 35        | 25 | 200 | 98 | 80 | 8   | 17.5 | 83 | 62 | 9   |

| SIZE  | H    | J2    | J3   | N1 | N2 | $\phi N3$ | P1  | P2 | P3 | R    | R4  | S   | T   | T1    |
|-------|------|-------|------|----|----|-----------|-----|----|----|------|-----|-----|-----|-------|
| A0280 | 52.5 | 101.5 | 78.5 | 40 | 32 | 16.2      | 48  | 45 | 44 | 50.5 | 199 | 81  | 53  | 90.5  |
| A0410 | 58.5 | 127   | 92   | 50 | 40 | 22.2      | 58  | 55 | 55 | 60   | 247 | 101 | 62  | 109.5 |
| A0510 | 57   | 138   | 100  | 56 | 45 | 25.2      | 63  | 61 | 61 | 62   | 266 | 112 | 75  | 133.4 |
| A0610 | 66   | 162   | 117  | 64 | 50 | 35.2      | 79  | 67 | 69 | 67   | 319 | 132 | 86  | 158.8 |
| A0730 | 81   | 186   | 138  | 77 | 60 | 40.2      | 95  | 81 | 84 | 84   | 358 | 153 | 197 | 190.5 |
| A0860 | 90   | 217   | 156  | 93 | 73 | 50.2      | 104 | 97 | 99 | 97   | 415 | 178 | 227 | 219.1 |

| SIZE  | T2  | U6 | V            | V1             | V2               | W                | W1              | W2             |
|-------|-----|----|--------------|----------------|------------------|------------------|-----------------|----------------|
| A0280 | 61  | 5  | 18.4<br>18.3 | 18.00<br>17.87 | 11.200<br>11.075 | 5.015<br>4.985   | 5.000<br>4.970  | 3.000<br>2.375 |
| A0410 | 68  | 6  | 24.9<br>24.8 | 22.50<br>22.37 | 18.000<br>17.870 | 6.015<br>5.985   | 6.000<br>5.970  | 5.000<br>4.970 |
| A0510 | 86  | 6  | 28.5<br>28.3 | 28.00<br>27.71 | 18.000<br>17.870 | 8.018<br>7.982   | 8.000<br>7.964  | 5.000<br>4.970 |
| A0610 | 100 | 8  | 38.5<br>38.3 | 31.00<br>30.71 | 20.500<br>20.370 | 10.018<br>9.982  | 8.000<br>7.964  | 6.000<br>5.970 |
| A0730 | 122 | 8  | 43.5<br>43.3 | 33.00<br>32.71 | 24.500<br>24.370 | 12.021<br>11.979 | 8.000<br>7.964  | 6.000<br>5.970 |
| A0860 | 132 | 10 | 54.0<br>53.8 | 38.00<br>37.71 | 28.000<br>27.710 | 14.021<br>13.979 | 10.000<br>9.964 | 8.000<br>7.964 |

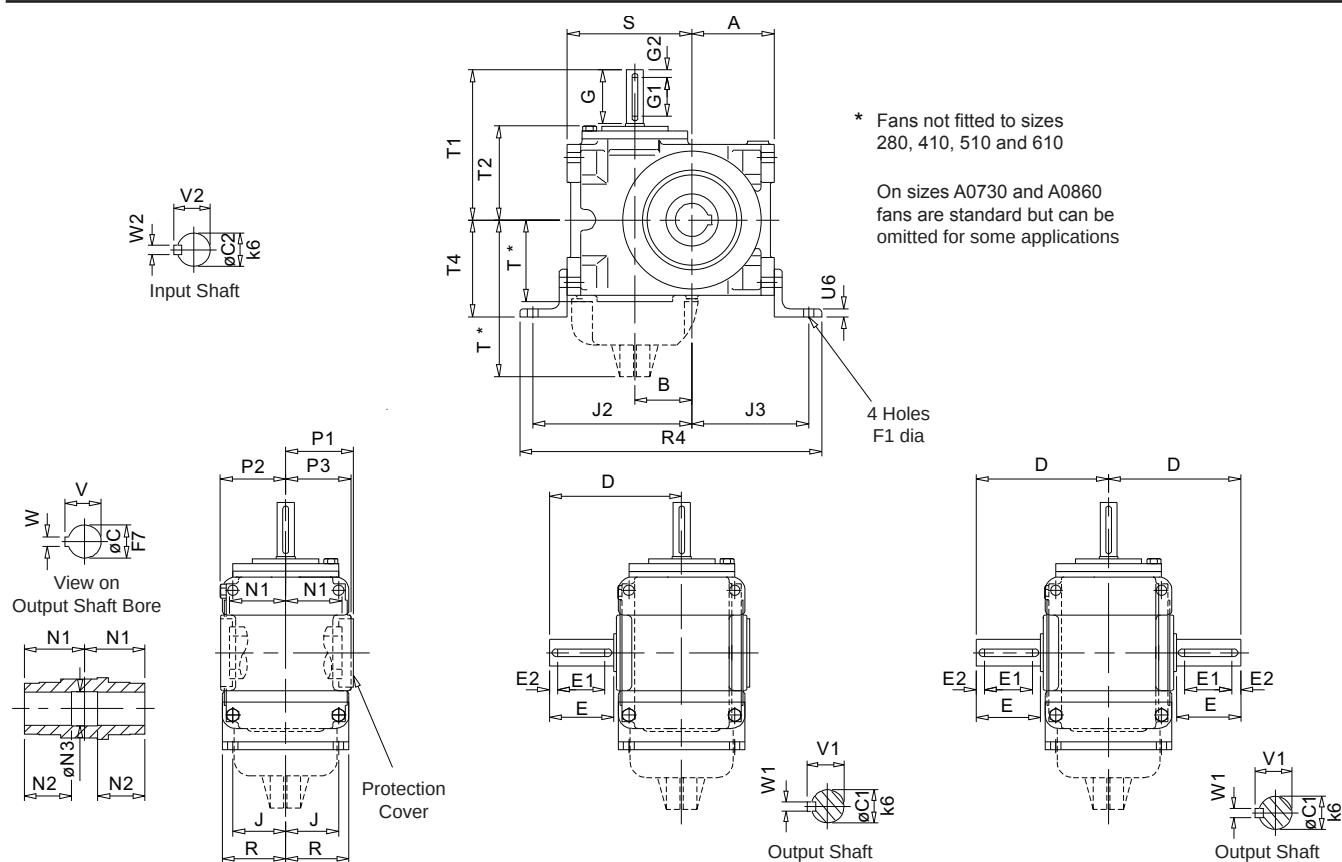
# SERIES AJ

## DIMENSIONS

### SINGLE REDUCTION

|   |   |  |  |   |  |  |   |   |
|---|---|--|--|---|--|--|---|---|
| A | 0 |  |  | 0 |  |  | H | R |
|---|---|--|--|---|--|--|---|---|

STANDARD UNIT WITH END MOUNTED FEET



| SIZE  | A   | B    | $\phi C$ | $\phi C1$ | C2 | D   | E  | E1 | E2  | F1   | G  | G1 | G2  | J    |
|-------|-----|------|----------|-----------|----|-----|----|----|-----|------|----|----|-----|------|
| A0280 | 58  | 28.6 | 16       | 16        | 10 | 79  | 35 | 23 | 5.5 | 9    | 29 | 22 | 3.5 | 41.5 |
| A0410 | 66  | 41.3 | 22       | 20        | 16 | 98  | 45 | 34 | 6   | 11.5 | 41 | 31 | 6.5 | 49   |
| A0510 | 74  | 50.8 | 25       | 25        | 16 | 117 | 57 | 42 | 7   | 11.5 | 48 | 35 | 6.5 | 52   |
| A0610 | 87  | 60.3 | 35       | 28        | 18 | 140 | 70 | 55 | 7   | 11.5 | 57 | 44 | 7   | 56   |
| A0730 | 105 | 73.0 | 40       | 30        | 22 | 168 | 83 | 62 | 7   | 13.5 | 70 | 57 | 7   | 70   |
| A0860 | 117 | 85.7 | 50       | 35        | 25 | 200 | 98 | 80 | 8   | 17.5 | 83 | 62 | 9   | 79   |

| SIZE  | J2    | J3   | N1 | N2 | $\phi N3$ | P1  | P2 | P3 | R    | R4  | S   | T   | T1    | T2  |
|-------|-------|------|----|----|-----------|-----|----|----|------|-----|-----|-----|-------|-----|
| A0280 | 101.5 | 78.5 | 40 | 32 | 16.2      | 48  | 45 | 44 | 50.5 | 199 | 81  | 53  | 90.5  | 61  |
| A0410 | 127   | 92   | 50 | 40 | 22.2      | 58  | 55 | 55 | 60   | 247 | 101 | 62  | 109.5 | 68  |
| A0510 | 138   | 100  | 56 | 45 | 25.2      | 63  | 61 | 61 | 62   | 266 | 112 | 75  | 133.4 | 86  |
| A0610 | 162   | 117  | 64 | 50 | 35.2      | 79  | 67 | 69 | 67   | 319 | 132 | 86  | 158.8 | 100 |
| A0730 | 186   | 138  | 77 | 60 | 40.2      | 95  | 81 | 84 | 84   | 358 | 153 | 197 | 190.5 | 122 |
| A0860 | 217   | 156  | 93 | 73 | 50.2      | 104 | 97 | 99 | 97   | 415 | 178 | 227 | 219.1 | 132 |

| SIZE  | T4   | U6 | V            | V1             | V2               | W                | W1              | W2             |
|-------|------|----|--------------|----------------|------------------|------------------|-----------------|----------------|
| A0280 | 73   | 5  | 18.4<br>18.3 | 18.00<br>17.87 | 11.200<br>11.075 | 5.015<br>4.985   | 5.000<br>4.970  | 3.000<br>2.375 |
| A0410 | 84.5 | 6  | 24.9<br>24.8 | 22.50<br>22.37 | 18.000<br>17.870 | 6.015<br>5.985   | 6.000<br>5.970  | 5.000<br>4.970 |
| A0510 | 83   | 6  | 28.5<br>28.3 | 28.00<br>27.71 | 18.000<br>17.870 | 8.018<br>7.982   | 8.000<br>7.964  | 5.000<br>4.970 |
| A0610 | 96   | 8  | 38.5<br>38.3 | 31.00<br>30.71 | 20.500<br>20.370 | 10.018<br>9.982  | 8.000<br>7.964  | 6.000<br>5.970 |
| A0730 | 114  | 8  | 43.5<br>43.3 | 33.00<br>32.71 | 24.500<br>24.370 | 12.021<br>11.979 | 8.000<br>7.964  | 6.000<br>5.970 |
| A0860 | 129  | 10 | 54.0<br>53.8 | 38.00<br>37.71 | 28.000<br>27.710 | 14.021<br>13.979 | 10.000<br>9.964 | 8.000<br>7.964 |

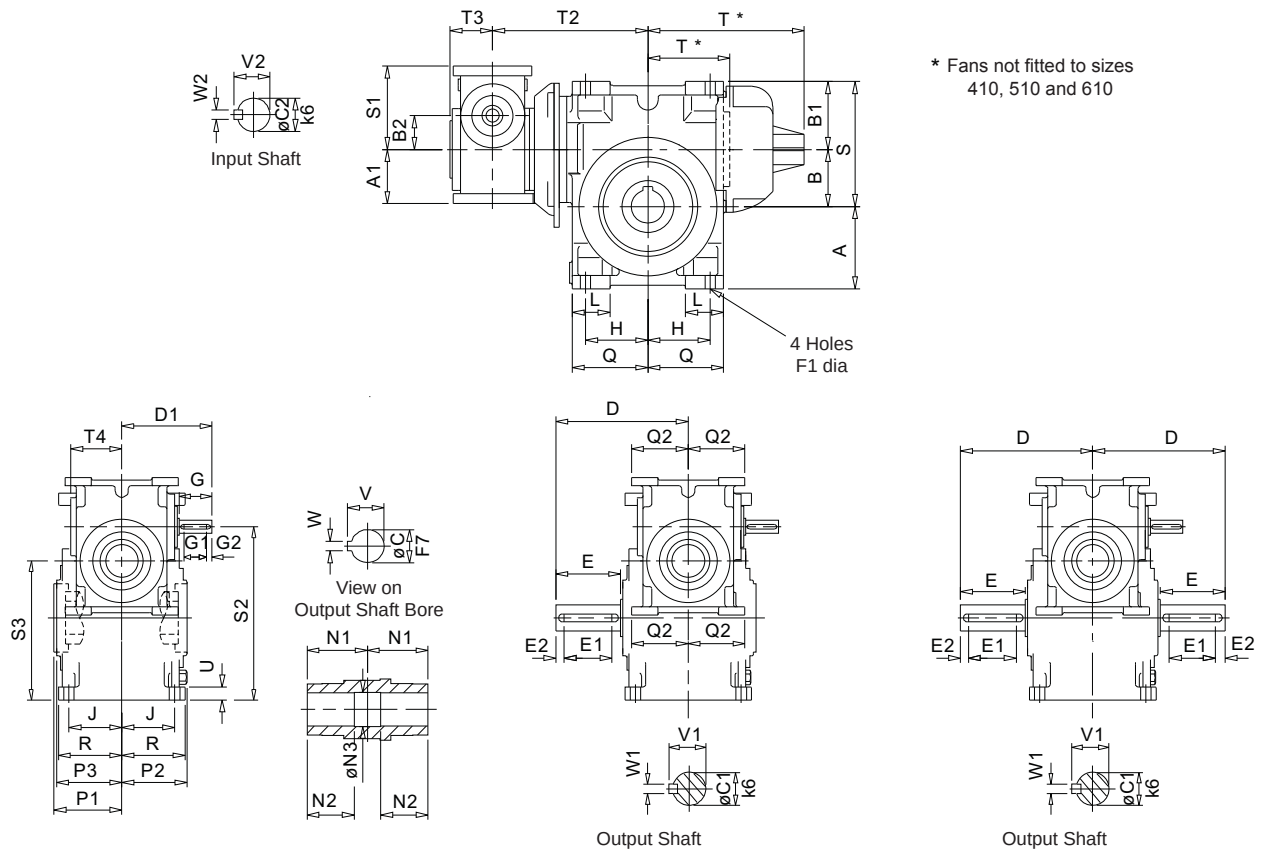
# SERIES AJ

## DIMENSIONS

### DOUBLE REDUCTION

|   |   |  |  |   |  |  |   |   |
|---|---|--|--|---|--|--|---|---|
| A | 0 |  |  | 0 |  |  | W | D |
|---|---|--|--|---|--|--|---|---|

STANDARD UNIT



\* Fans not fitted to sizes  
410, 510 and 610

| SIZE  | A   | A6 | B    | B1   | B2   | ØC | ØC1 | C2 | D   | D1    | E  | E1 | E2 | F1   | G  |
|-------|-----|----|------|------|------|----|-----|----|-----|-------|----|----|----|------|----|
| A0410 | 66  | 58 | 41.3 | 59.7 | 28.6 | 22 | 20  | 10 | 98  | 90.5  | 45 | 34 | 6  | 11.5 | 29 |
| A0510 | 74  | 58 | 50.8 | 61.2 | 28.6 | 25 | 25  | 10 | 117 | 90.5  | 57 | 42 | 7  | 11.5 | 29 |
| A0610 | 87  | 66 | 60.3 | 71.7 | 41.3 | 35 | 28  | 16 | 140 | 109.5 | 70 | 55 | 7  | 11.5 | 41 |
| A0730 | 105 | 66 | 73.0 | 80   | 41.3 | 40 | 30  | 16 | 168 | 109.5 | 83 | 62 | 7  | 13.5 | 41 |
| A0860 | 117 | 74 | 85.7 | 92.3 | 50.8 | 50 | 35  | 16 | 200 | 133.4 | 98 | 80 | 8  | 17.5 | 48 |

| SIZE  | G1 | G2  | H    | J  | L  | N1 | N2 | ØN3  | P1  | P2 | P3 | Q   | Q2   | R  | S   |
|-------|----|-----|------|----|----|----|----|------|-----|----|----|-----|------|----|-----|
| A0410 | 22 | 3.5 | 58.5 | 49 | 32 | 50 | 40 | 22.2 | 58  | 55 | 55 | 69  | 61.5 | 60 | 101 |
| A0510 | 22 | 3.5 | 57   | 52 | 35 | 56 | 45 | 25.2 | 63  | 61 | 61 | 67  | 61.5 | 62 | 112 |
| A0610 | 31 | 6.5 | 66   | 56 | 40 | 64 | 50 | 35.2 | 79  | 67 | 69 | 80  | 69   | 67 | 132 |
| A0730 | 31 | 6.5 | 81   | 70 | 45 | 77 | 60 | 40.2 | 95  | 81 | 84 | 95  | 69   | 81 | 153 |
| A0860 | 35 | 6.5 | 90   | 79 | 55 | 93 | 73 | 50.2 | 104 | 97 | 99 | 108 | 67   | 97 | 178 |

| SIZE  | S1  | S2    | S3    | T   | T2  | T3 | T4 | U  | V            | V1             | V2               | W                | W1              | W2             |
|-------|-----|-------|-------|-----|-----|----|----|----|--------------|----------------|------------------|------------------|-----------------|----------------|
| A0410 | 81  | 135.9 | 107.3 | 62  | 126 | 48 | 53 | 10 | 24.9<br>24.8 | 22.50<br>22.37 | 11.200<br>11.075 | 6.015<br>5.985   | 6.000<br>5.970  | 3.000<br>2.375 |
| A0510 | 81  | 153.4 | 124.8 | 75  | 143 | 48 | 53 | 12 | 28.5<br>28.3 | 28.00<br>27.71 | 11.200<br>11.075 | 8.018<br>7.982   | 8.000<br>7.964  | 3.000<br>2.375 |
| A0610 | 101 | 188.6 | 147.3 | 86  | 171 | 58 | 62 | 14 | 38.5<br>38.3 | 31.00<br>30.71 | 18.000<br>17.870 | 10.018<br>9.982  | 8.000<br>7.964  | 5.000<br>4.970 |
| A0730 | 101 | 219.6 | 178   | 197 | 192 | 58 | 62 | 16 | 43.5<br>43.3 | 33.00<br>32.71 | 18.000<br>17.870 | 12.021<br>11.979 | 8.000<br>7.964  | 5.000<br>4.970 |
| A0860 | 112 | 253.5 | 202.7 | 227 | 208 | 63 | 75 | 18 | 54.0<br>53.8 | 38.00<br>37.71 | 18.000<br>17.870 | 14.021<br>13.979 | 10.000<br>9.964 | 5.000<br>4.970 |

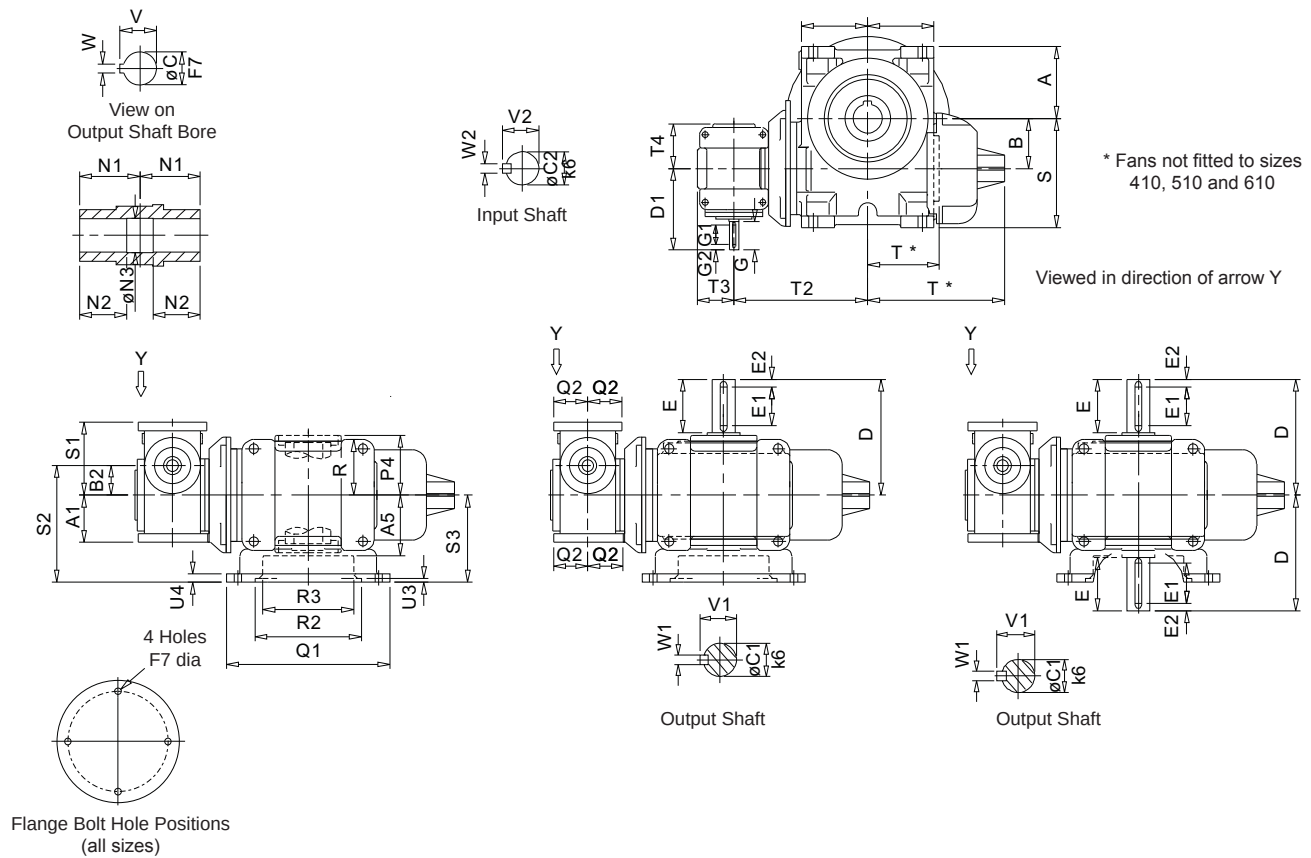
# SERIES AJ

## DIMENSIONS

### DOUBLE REDUCTION

|   |   |  |  |   |  |  |   |   |
|---|---|--|--|---|--|--|---|---|
| A | 0 |  |  | 0 |  |  | F | D |
|---|---|--|--|---|--|--|---|---|

#### STANDARD UNIT FLANGE MOUNTED



\* Fans not fitted to sizes 410, 510 and 610

| SIZE  | A   | A1 | A5  | B    | B2   | $\phi C$ | $\phi C1$ | C2 | D   | D1    | E  | E1 | E2 | F7                     |
|-------|-----|----|-----|------|------|----------|-----------|----|-----|-------|----|----|----|------------------------|
| A0410 | 66  | 58 | 60  | 41.3 | 28.6 | 22       | 20        | 10 | 98  | 90.5  | 45 | 34 | 6  | $\phi 9$ on 115 PCD    |
| A0510 | 74  | 58 | 65  | 50.8 | 28.6 | 25       | 25        | 10 | 117 | 90.5  | 57 | 42 | 7  | $\phi 9$ on 130 PCD    |
| A0610 | 87  | 66 | 71  | 60.3 | 41.3 | 35       | 28        | 16 | 140 | 109.5 | 70 | 55 | 7  | $\phi 11$ on 165 PCD   |
| A0730 | 105 | 66 | 91  | 73   | 41.3 | 40       | 30        | 16 | 168 | 109.5 | 83 | 62 | 7  | $\phi 13.5$ on 215 PCD |
| A0860 | 117 | 74 | 100 | 85.7 | 50.8 | 50       | 35        | 16 | 200 | 133.4 | 98 | 80 | 8  | $\phi 13.5$ on 215 PCD |

| SIZE  | G  | G1 | G2  | N1 | N2 | $\phi N3$ | P4 | Q   | Q1  | Q2   | R2                 | R3  | S   | S1  | S2    |
|-------|----|----|-----|----|----|-----------|----|-----|-----|------|--------------------|-----|-----|-----|-------|
| A0410 | 29 | 22 | 3.5 | 50 | 40 | 22.2      | 55 | 69  | 140 | 61.5 | 95.035<br>95.000   | 72  | 101 | 81  | 108.6 |
| A0510 | 29 | 22 | 3.5 | 56 | 45 | 25.2      | 61 | 67  | 160 | 61.5 | 110.035<br>110.000 | 88  | 112 | 81  | 118.6 |
| A0610 | 41 | 31 | 6.5 | 64 | 50 | 35.2      | 69 | 80  | 200 | 69   | 130.040<br>130.000 | 110 | 132 | 101 | 146.3 |
| A0730 | 41 | 31 | 6.5 | 77 | 60 | 40.2      | 84 | 95  | 250 | 69   | 180.040<br>180.000 | 136 | 153 | 101 | 161.3 |
| A0860 | 48 | 35 | 6.5 | 93 | 73 | 50.2      | 99 | 108 | 250 | 67   | 180.040<br>180.000 | 150 | 178 | 112 | 182.8 |

| SIZE  | S3  | T   | T2  | T3 | T4 | U3  | U4 | V            | V1             | V2               | W                | W1              | W2             |
|-------|-----|-----|-----|----|----|-----|----|--------------|----------------|------------------|------------------|-----------------|----------------|
| A0410 | 80  | 62  | 126 | 48 | 53 | 3.5 | 8  | 24.9<br>24.8 | 22.50<br>22.37 | 11.200<br>11.075 | 6.015<br>5.985   | 6.000<br>5.970  | 3.000<br>2.375 |
| A0510 | 90  | 75  | 143 | 48 | 53 | 4   | 9  | 28.5<br>28.3 | 28.00<br>27.71 | 11.200<br>11.075 | 8.018<br>7.982   | 8.000<br>7.964  | 3.000<br>2.375 |
| A0610 | 105 | 86  | 171 | 58 | 62 | 4.5 | 10 | 38.5<br>38.3 | 31.00<br>30.71 | 18.000<br>17.870 | 10.018<br>9.982  | 8.000<br>7.964  | 5.000<br>4.970 |
| A0730 | 120 | 197 | 192 | 58 | 62 | 5   | 12 | 43.5<br>43.3 | 33.00<br>32.71 | 18.000<br>17.870 | 12.021<br>11.979 | 8.000<br>7.964  | 5.000<br>4.970 |
| A0860 | 132 | 227 | 208 | 63 | 75 | 5   | 12 | 54.0<br>53.8 | 38.00<br>37.71 | 18.000<br>17.870 | 14.021<br>13.979 | 10.000<br>9.964 | 5.000<br>4.970 |

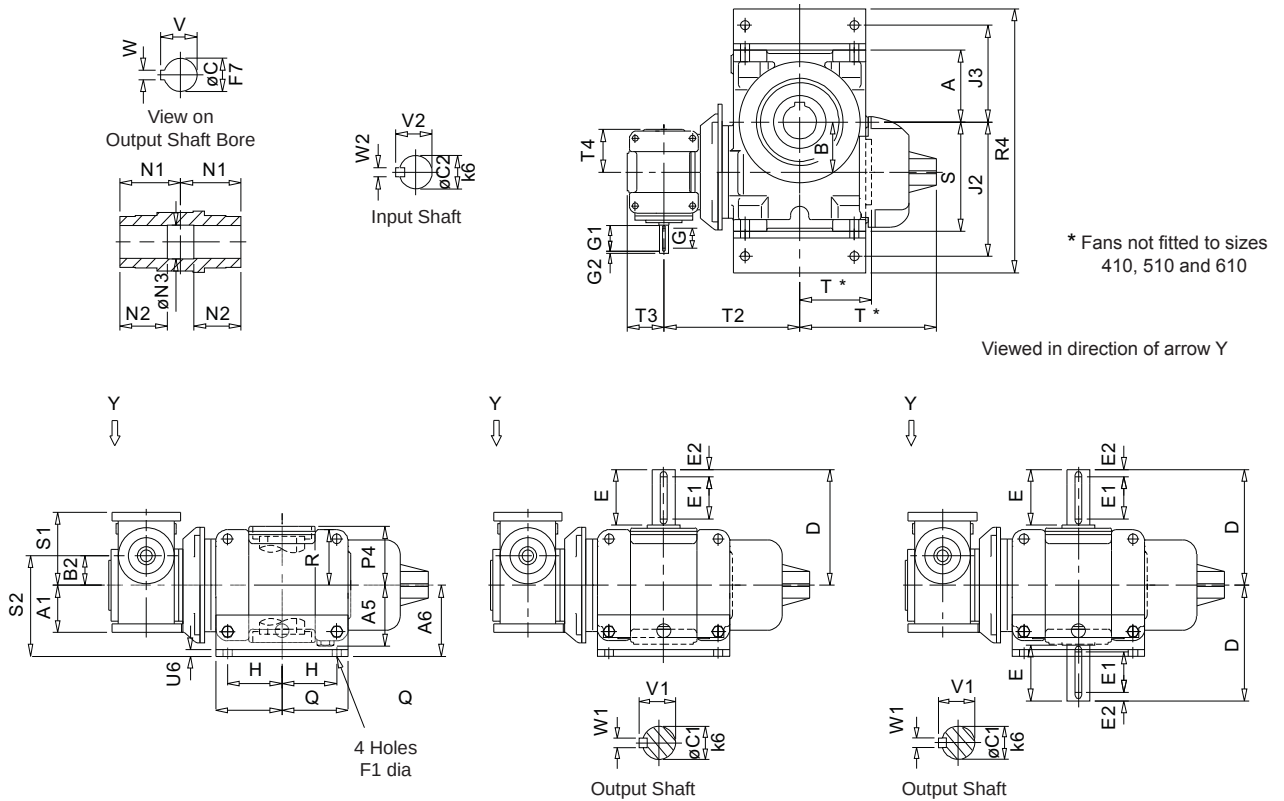
# SERIES AJ

## DIMENSIONS

### DOUBLE REDUCTION

|   |   |  |  |   |  |  |   |   |
|---|---|--|--|---|--|--|---|---|
| A | 0 |  |  | 0 |  |  | G | D |
|---|---|--|--|---|--|--|---|---|

STANDARD UNIT WITH SIDE MOUNTED FEET



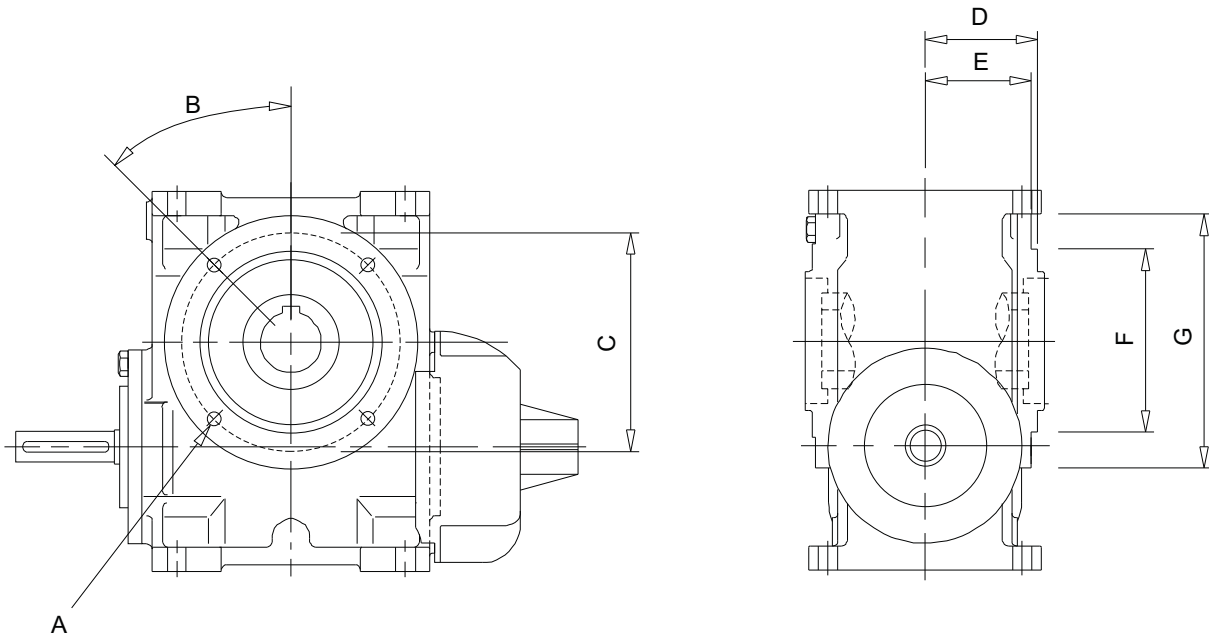
| SIZE  | A   | A1 | A5 | A6  | B    | B2   | ØC | ØC1 | C2 | D   | D1    | E  | E1 | E2 | F1   |
|-------|-----|----|----|-----|------|------|----|-----|----|-----|-------|----|----|----|------|
| A0410 | 66  | 58 | 55 | 75  | 41.3 | 28.6 | 22 | 20  | 10 | 98  | 90.5  | 45 | 34 | 6  | 11.5 |
| A0510 | 74  | 58 | 61 | 78  | 50.8 | 28.6 | 25 | 25  | 10 | 117 | 90.5  | 57 | 42 | 7  | 11.5 |
| A0610 | 87  | 66 | 67 | 86  | 60.3 | 41.3 | 35 | 28  | 16 | 140 | 109.5 | 70 | 55 | 7  | 11.5 |
| A0730 | 105 | 66 | 81 | 103 | 73.0 | 41.3 | 40 | 30  | 16 | 168 | 109.5 | 83 | 62 | 7  | 13.5 |
| A0860 | 117 | 74 | 97 | 118 | 85.7 | 50.8 | 50 | 35  | 16 | 200 | 133.4 | 98 | 80 | 8  | 17.5 |

| SIZE  | G  | G1 | G2  | H    | J2  | J3  | L  | N1 | N2   | ØN3 | Q   | R  | S   | S1  | S2    |
|-------|----|----|-----|------|-----|-----|----|----|------|-----|-----|----|-----|-----|-------|
| A0410 | 29 | 22 | 3.5 | 58.5 | 127 | 92  | 50 | 40 | 22.2 | 55  | 69  | 60 | 101 | 81  | 103.6 |
| A0510 | 29 | 22 | 3.5 | 57   | 138 | 100 | 56 | 45 | 25.2 | 61  | 67  | 62 | 112 | 81  | 106.6 |
| A0610 | 41 | 31 | 6.5 | 66   | 162 | 117 | 64 | 50 | 35.2 | 69  | 80  | 67 | 132 | 101 | 127.3 |
| A0730 | 41 | 31 | 6.5 | 81   | 186 | 138 | 77 | 60 | 40.2 | 84  | 95  | 81 | 153 | 101 | 144.3 |
| A0860 | 48 | 35 | 6.5 | 90   | 217 | 156 | 93 | 73 | 50.2 | 99  | 108 | 97 | 178 | 112 | 168.8 |

| SIZE  | T   | T2  | T3 | T4 | U6 | V            | V1             | V2               | W                | W1              | W2             |
|-------|-----|-----|----|----|----|--------------|----------------|------------------|------------------|-----------------|----------------|
| A0410 | 62  | 126 | 48 | 53 | 6  | 24.9<br>24.8 | 22.50<br>22.37 | 11.200<br>11.075 | 6.015<br>5.985   | 6.000<br>5.970  | 3.000<br>2.375 |
| A0510 | 75  | 143 | 48 | 53 | 6  | 28.5<br>28.3 | 28.00<br>27.71 | 11.200<br>11.075 | 8.018<br>7.982   | 8.000<br>7.964  | 3.000<br>2.375 |
| A0610 | 86  | 171 | 58 | 62 | 8  | 38.5<br>38.3 | 31.00<br>30.71 | 18.000<br>17.870 | 10.018<br>9.982  | 8.000<br>7.964  | 5.000<br>4.970 |
| A0730 | 197 | 192 | 58 | 62 | 8  | 43.5<br>43.3 | 33.00<br>32.71 | 18.000<br>17.870 | 12.021<br>11.979 | 8.000<br>7.964  | 5.000<br>4.970 |
| A0860 | 227 | 208 | 63 | 75 | 10 | 54.0<br>53.8 | 38.00<br>37.71 | 18.000<br>17.870 | 14.021<br>13.979 | 10.000<br>9.964 | 5.000<br>4.970 |

# SERIES AJ

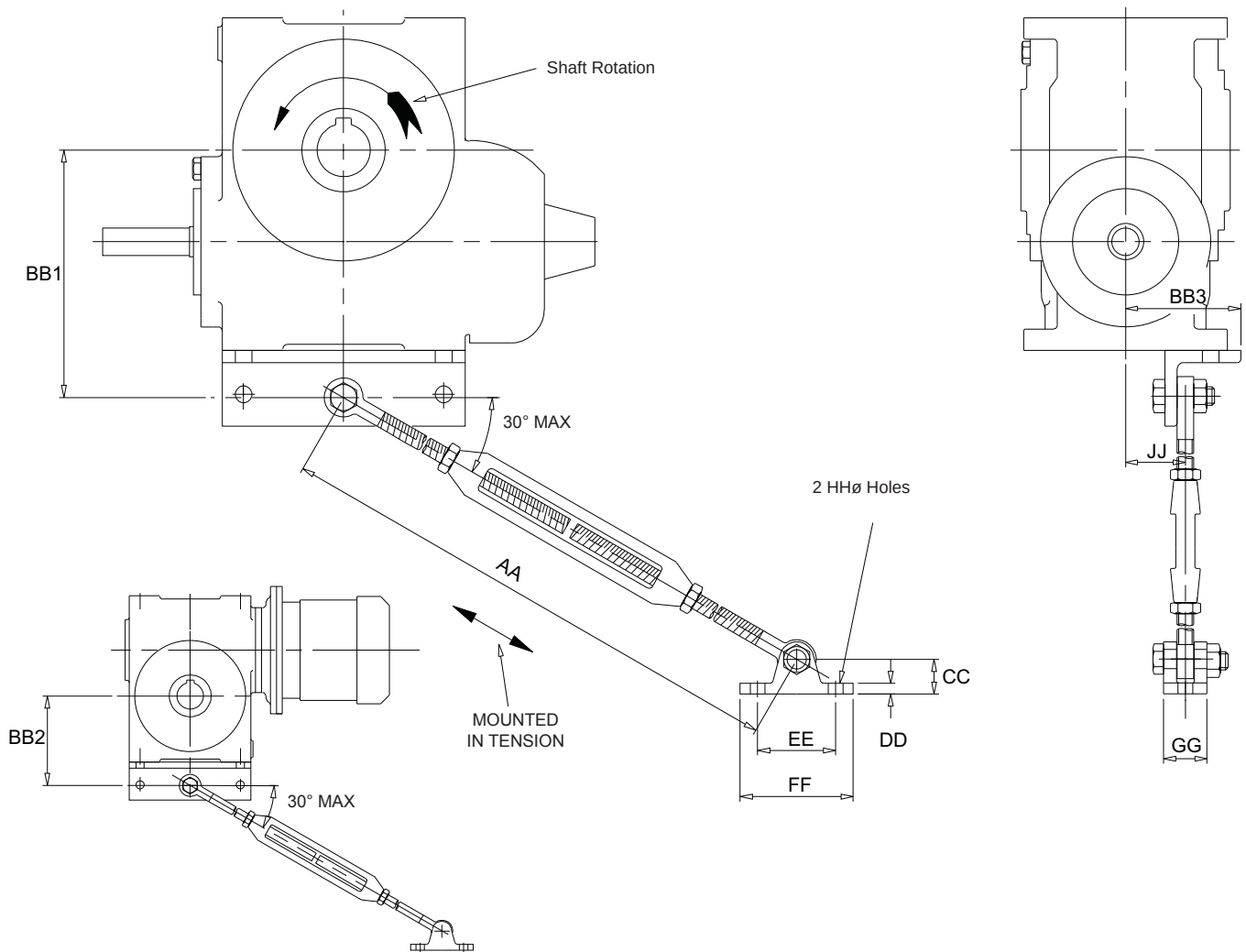
## CASE WITH ADDITIONAL MACHINED SPIGOT



| UNIT SIZE | A                                       | B     | C        | D  | E  | F                | G   |
|-----------|-----------------------------------------|-------|----------|----|----|------------------|-----|
| A0280     | 4 Holes equally spaced<br>M6 x 9 Deep   | 45o   | 73 PCD   | 44 | 41 | 52.99<br>52.97   | 85  |
| A0410     | 4 Holes equally spaced<br>M6 x 12 Deep  | 45o   | 88.9 PCD | 55 | 51 | 69.99<br>69.97   | 101 |
| A0510     | 4 Holes equally spaced<br>M8 x 14 Deep  | 45o   | 107 PCD  | 59 | 55 | 84.99<br>84.97   | 122 |
| A0610     | 8 Holes equally spaced<br>M8 x 14 Deep  | 22.5o | 130 PCD  | 65 | 61 | 104.99<br>104.97 | 146 |
| A0730     | 8 Holes equally spaced<br>M10 x 18 Deep | 22.5o | 155 PCD  | 79 | 74 | 124.99<br>124.97 | 175 |
| A0860     | 8 Holes equally spaced<br>M10 x 18 Deep | 22.5o | 176 PCD  | 95 | 90 | 144.99<br>144.97 | 196 |

This option is available in Additional Features - Column 20

## TORQUE ARM DETAILS



|     | SIZE OF UNIT |           |           |           |           |           |
|-----|--------------|-----------|-----------|-----------|-----------|-----------|
|     | A0280        | A0410     | A0510     | A0610     | A0730     | A0860     |
| BB1 | 100          | 126       | 137       | 163       | 184       | 215       |
| BB2 | 77           | 91        | 99        | 118       | 136       | 154       |
| BB3 | 51           | 63        | 66        | 76        | 87        | 100       |
| AA  | 355 - 510    | 355 - 510 | 480 - 635 | 480 - 635 | 480 - 635 | 610 - 750 |
| CC  | 21           | 21        | 25        | 25        | 25        | 30        |
| DD  | 6            | 6         | 8         | 8         | 8         | 10        |
| EE  | 51           | 51        | 57        | 57        | 57        | 70        |
| FF  | 70           | 70        | 83        | 83        | 83        | 102       |
| GG  | 25           | 25        | 30        | 30        | 30        | 38        |
| HH  | 9            | 9         | 11        | 11        | 11        | 14.3      |
| JJ  | 31           | 34        | 38        | 40        | 51        | 58        |

The torque arm should be fitted on that side of the gear unit which is adjacent to the driven machine.

The angle between the torque arm and the high speed shaft MUST NOT EXCEED 30°. The torque arm must be positioned so that it is loaded IN TENSION, i.e. in the direction of TORQUE REACTION, which is opposite to the direction of shaft rotation, as shown above.

For reversing applications two torque arms must be fitted in opposite mounting positions.

Gear units must be locked axially when mounted in position, and supported by the low speed sleeve for a minimum of 90% of the bore length.

## SHIPPING SPECIFICATION

### SINGLE REDUCTION

| COLUMN 10 ENTRY |                    | UNIT SIZE |       |       |       |       |       |
|-----------------|--------------------|-----------|-------|-------|-------|-------|-------|
|                 |                    | A0280     | A0410 | A0510 | A0610 | A0730 | A0860 |
| R               | Unit Weight        | 4.5       | 7.4   | 11.2  | 16    | 29    | 45    |
|                 | Weight Packed      | 6.0       | 9.0   | 13.2  | 19    | 34    | 53    |
|                 | Volume Packed (m3) | 0.013     | 0.016 | 0.018 | 0.028 | 0.056 | 0.088 |
| G               | Unit Weight        | 7.0       | 11.3  | 15.3  | 22    | 35    | 54    |
|                 | Weight Packed      | 9.0       | 13    | 18    | 26    | 42    | 64    |
|                 | Volume Packed (m3) | 0.015     | 0.021 | 0.03  | 0.04  | 0.07  | 0.10  |

### DOUBLE REDUCTION

| COLUMN 10 ENTRY |                    | UNIT SIZE |       |       |       |       |
|-----------------|--------------------|-----------|-------|-------|-------|-------|
|                 |                    | A0410     | A0510 | A0610 | A0730 | A0860 |
| D               | Unit Weight        | 12.5      | 16.5  | 25    | 38    | 59    |
|                 | Weight Packed      | 15.5      | 18.5  | 28    | 43    | 65    |
|                 | Volume Packed (m3) | 0.029     | 0.031 | 0.044 | 0.072 | 0.106 |
| H               | Unit Weight        | 15.5      | 19    | 29    | 42    | 63    |
|                 | Weight Packed      | 19        | 22    | 37    | 49    | 70    |
|                 | Volume Packed (m3) | 0.031     | 0.033 | 0.049 | 0.077 | 0.118 |

ALL WEIGHTS IN KG

ALL WEIGHTS INCLUDE LUBRICANT

|                 |   |                                                                        |
|-----------------|---|------------------------------------------------------------------------|
| COLUMN 10 ENTRY | R | - REDUCER UNIT - SINGLE REDUCTION                                      |
|                 | G | - UNIT TO ALLOW FITTING OF A NON STANDARD IEC MOTOR - SINGLE REDUCTION |
|                 | D | - REDUCER UNIT - DOUBLE REDUCTION                                      |
|                 | H | - UNIT TO ALLOW FITTING OF A NON STANDARD IEC MOTOR - DOUBLE REDUCTION |
| G AND H         |   | TYPE UNIT WEIGHTS AND VOLUMES DO NOT INCLUDE MOTORS                    |

MAXIMUM STANDARD MOTOR FLANGES HAVE BEEN INCLUDED IN WEIGHTS AND VOLUMES

### IMPORTANT

#### Product Safety Information

**General** - The following information is important in ensuring safety. It **must** be brought to the attention of personnel involved in the selection of the equipment, those responsible for the design of the machinery in which it is to be incorporated and those involved in its installation, use and maintenance.

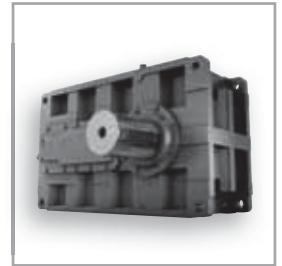
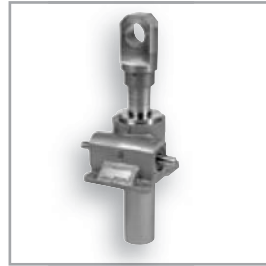
The equipment will operate safely provided it is selected, installed, used and maintained properly. As with any power transmission equipment **proper precautions must** be taken as indicated in the following paragraphs, to ensure safety.

**Potential Hazards** - these are **not** necessarily listed in any order of severity as the degree of danger varies in individual circumstances. It is important therefore that the list is studied in its entirety:-

- 1) Fire/Explosion
  - (a) Oil mists and vapour are generated within gear units. It is therefore dangerous to use naked lights in the proximity of gearbox openings, due to the risk of fire or explosion.
  - (b) In the event of fire or serious overheating (over 300 °C), certain materials (rubber, plastics, etc.) may decompose and produce fumes. Care should be taken to avoid exposure to the fumes, and the remains of burned or overheated plastic/rubber materials should be handled with rubber gloves.
- 2) Guards - Rotating shafts and couplings must be guarded to eliminate the possibility of physical contact or entanglement of clothing. It should be of rigid construction and firmly secured.
- 3) Noise - High speed gearboxes and gearbox driven machinery may produce noise levels which are damaging to the hearing with prolonged exposure. Ear defenders should be provided for personnel in these circumstances. Reference should be made to the Department of Employment Code of Practice for reducing exposure of employed persons to noise.
- 4) Lifting - Where provided (on larger units) only the lifting points or eyebolts must be used for lifting operations (see maintenance manual or general arrangement drawing for lifting point positions). Failure to use the lifting points provided may result in personal injury and/or damage to the product or surrounding equipment. Keep clear of raised equipment.
- 5) Lubricants and Lubrication
  - (a) Prolonged contact with lubricants can be detrimental to the skin. The manufacturer's instruction must be followed when handling lubricants.
  - (b) The lubrication status of the equipment must be checked before commissioning. Read and carry out all instructions on the lubricant plate and in the installation and maintenance literature. Heed all warning tags. Failure to do so could result in mechanical damage and in extreme cases risk of injury to personnel.
- 6) Electrical Equipment - Observe hazard warnings on electrical equipment and isolate power before working on the gearbox or associated equipment, in order to prevent the machinery being started.
- 7) Installation, Maintenance and Storage
  - (a) In the event that equipment is to be held in storage, for a period exceeding 6 months, prior to installation or commissioning, application engineering must be consulted regarding special preservation requirements. Unless otherwise agreed, equipment must be stored in a building protected from extremes of temperature and humidity to prevent deterioration.  
The rotating components (gears and shafts) must be turned a few revolutions once a month (to prevent bearings brinelling).
  - (b) External gearbox components may be supplied with preservative materials applied, in the form of a "waxed" tape overwrap or wax film preservative. Gloves should be worn when removing these materials. The former can be removed manually, the latter using white spirit as a solvent.  
  
Preservatives applied to the internal parts of the gear units do not require removal prior to operation.
  - (c) Installation must be performed in accordance with the manufacturer's instructions and be undertaken by suitably qualified personnel.
  - (d) Before working on a gearbox or associated equipment, ensure that the load has been removed from the system to eliminate the possibility of any movement of the machinery and isolate power supply. Where necessary, provide mechanical means to ensure the machinery cannot move or rotate. Ensure removal of such devices after work is complete.
  - (e) Ensure the proper maintenance of gearboxes in operation. Use only the correct tools and approved spare parts for repair and maintenance. Consult the Maintenance Manual before dismantling or performing maintenance work.
- 8) Hot Surfaces and Lubricants
  - (a) During operation, gear units may become sufficiently hot to cause skin burns. Care must be taken to avoid accidental contact.
  - (b) After extended running the lubricant in gear units and lubrication systems may reach temperatures sufficient to cause burns. Allow equipment to cool before servicing or performing adjustments.
- 9) Selection and Design
  - (a) Where gear units provide a backstop facility, ensure that back-up systems are provided if failure of the backstop device would endanger personnel or result in damage.
  - (b) The driving and driven equipment must be correctly selected to ensure that the complete machinery installation will perform satisfactorily, avoiding system critical speeds, system torsional vibration, etc.
  - (c) The equipment must not be operated in an environment or at speeds, powers, torques or with external loads beyond those for which it was designed.
  - (d) As improvements in design are being made continually the contents of this catalogue are not to be regarded as binding in detail, and drawings and capacities are subject to alterations without notice.

The above guidance is based on the current state of knowledge and our best assessment of the potential hazards in the operation of the gear units.

Any further information or clarification required may be obtained by contacting an Application Engineer.



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