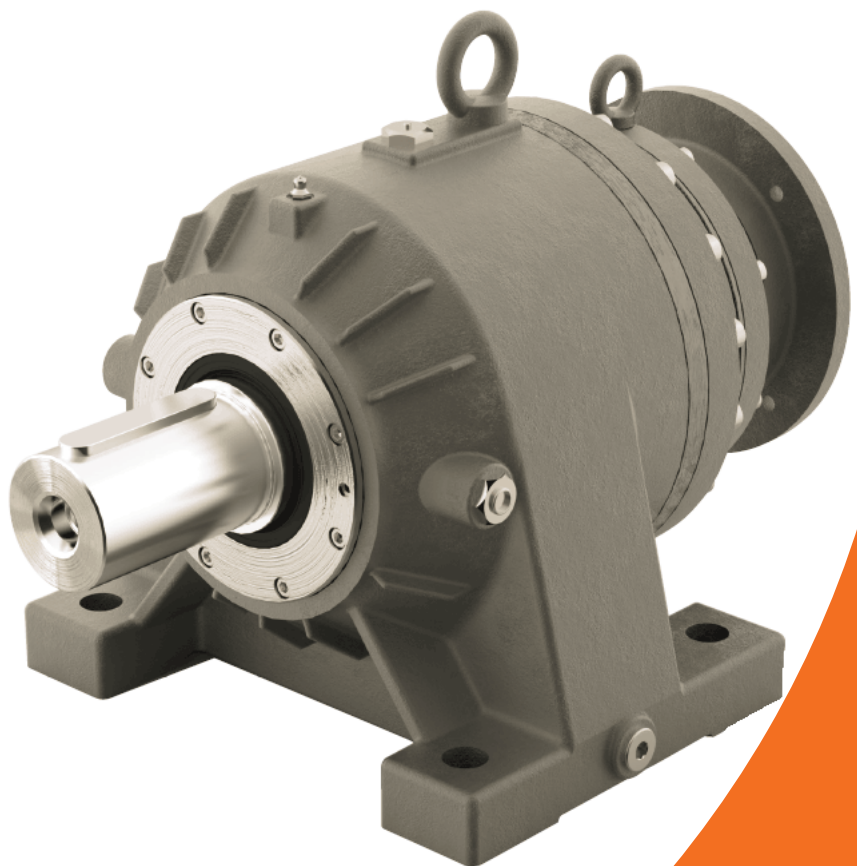


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with you at every turn

Series P Planetary



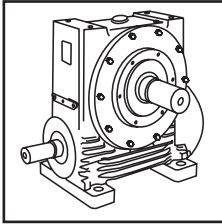
Technical
Up to - 30kW / 12000Nm

Planetary
CP-2.00GB0413

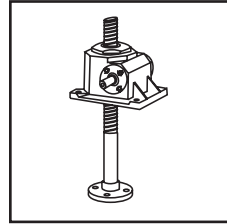
SERIES P

PRODUCTS IN THE RANGE

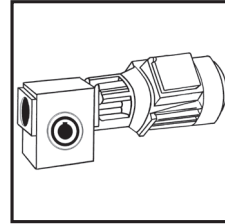
Serving an entire spectrum of mechanical drive applications from food, energy, mining and metal; to automotive, aerospace and marine propulsion, we are here to make a positive difference to the supply of drive solutions.



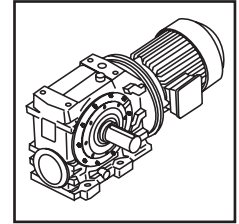
Series A
Worm Gear units
and geared motors
in single & double
reduction types



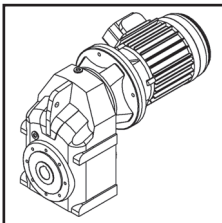
Series BD
Screwjack worm
gear unit



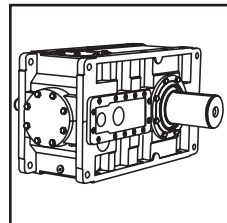
Series BS
Worm gear unit



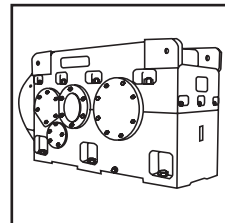
Series C
Right angle drive
helical worm geared
motors & reducers



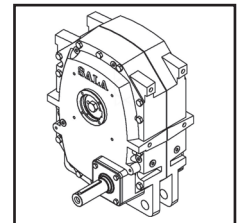
Series F
Parallel shaft helical
geared motors &
reducers



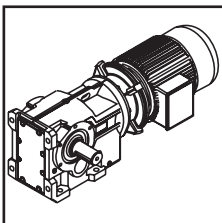
Series G
Helical parallel shaft
& bevel helical right
angle drive gear
units



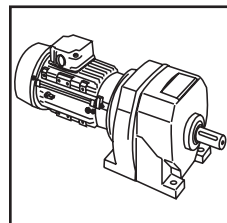
Series H
Large helical parallel
shaft & bevel helical
right angle drive units



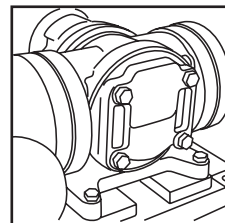
Series J
Shaft mounted
helical speed
reducers



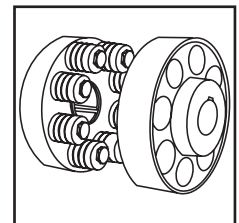
Series K
Right angle helical
bevel helical geared
motors & reducers



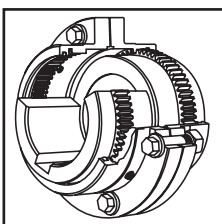
Series M
In-line helical geared
motors & reducers



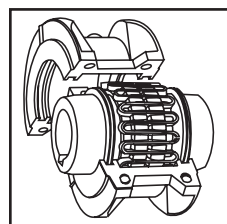
Roloid Gear Pump
Lubrication and fluid
transportation pump



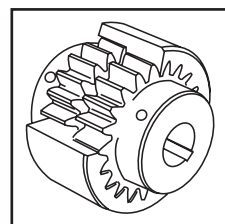
Series X
Cone Ring
Pin and bush
elastomer coupling



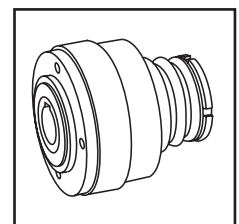
Series X
Gear
Torsionally rigid,
high torque coupling



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.

| | |
|------------------------------|----|
| General Description _____ | 1 |
| Selection _____ | 2 |
| Designation _____ | 5 |
| Nominal Torque _____ | 6 |
| PL01 _____ | 7 |
| PL02 _____ | 9 |
| PL03 _____ | 11 |
| PL05 _____ | 13 |
| PL08 _____ | 15 |
| PL12 _____ | 17 |
| Overhung Loads _____ | 19 |
| Motorised Ratings _____ | 20 |
| Lubrication _____ | 35 |
| Shipping Specification _____ | 37 |

GENERAL DESCRIPTION

This initial range of Series P Planetary units has 6 sizes with ratio coverage from 3.6:1 to 3200:1 and provides an efficient and compact drive solution to meet power requirements up to 30kW and up to 12000Nm torque capacity.

The range takes advantage of Radicon's many years of accumulated design expertise, together with the use of high quality materials and components, the end result is a high quality series of planetary gear reducers and geared motors offering a high load carrying capacity, high efficiency, quiet running and reliable drive solution.

Standard unit versions available:

Parallel (co-axial) drive options:

- Base Mounted
- Flange Mounted

Input options:

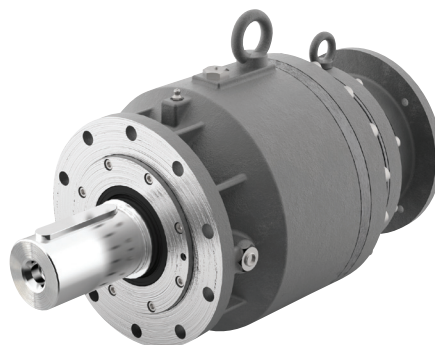
- Input shaft with keyway
- Motor adapter to suit fitting of IEC B5 motor
- Motor adapter to suit fitting of NEMA C flange motor

Output options:

- Output shaft with keyway
- Hollow output shaft to suit connection with shrink disk
- Output shaft with external spline
- Output shaft with internal spline

Design features:

- Gears are manufactured from high quality materials heat treated and profile ground providing a high level of surface finish to ensure efficient high load carrying capacity and quiet operation
- Motor connections are designed to suit standard IEC or NEMA C motors, other motor connections can be provided on request.
- All units are designed with ability to fit double oil seals to both input and output shaft assemblies
- Units are designed to be dimensionally interchangeable with other major manufacturers
- Units are modular in design allowing many possible unit combinations to be built from a limited inventory
- Units are designed so that they may be easily customised to suit more exacting customer requirements.



GEAR UNIT SELECTION

| | | | |
|-------------|--|------------|---------------------------------------|
| f | Service Factor ($f = fm \times fs$) | fm | Mechanical Service Factor |
| Fr1 | Input Shaft Radial Load Capacity (N) | Fr2 | Output Shaft Radial Load Capacity (N) |
| fs | Starting Frequency Factor | | |
| n1 | Input Speed (rpm) | n2 | Output Speed (rpm) |
| i | Actual Transmission Ratio = $\frac{n1}{n2}$ | iN | Nominal Transmission Ratio |
| Pe | Absorbed Power (kW) | T2 | Rated Output Torque |
| M2 | Output Torque (Nm) = $\frac{Pe \times 9550}{n2}$ | | |
| n2*h | Output Speed (rpm) x Operating Hours | h | Lifetime (hours) |
| Pt | Thermal Rating (when $t = 20^\circ\text{C}$) | fw | Thermal Rating Modifying Factor |
| t | Ambient Temperature ($^\circ\text{C}$) | | |

Mechanical Service Factor **fm**

| Prime Mover | Operating Duty Hours/Day | Load Classification Driven Machine | | |
|-----------------------------------|--------------------------|------------------------------------|----------------------|-------------------|
| | | U Uniform | M Moderate | H Heavy |
| Electric Motor Hydraulic Motor | < 3 | 0.80 | 1.00 | 1.50 |
| | 3 to 10 | 1.00 | 1.25 | 1.75 |
| | >10 | 1.25 | 1.50 | 2.00 |
| Piston Engine >3 Cylinders | < 3 | 1.00 | 1.25 | 1.75 |
| | 3 to 10 | 1.25 | 1.50 | 2.00 |
| | >10 | 1.50 | 1.75 | 2.25 |
| Piston Engine 1-3 Cylinders | < 3 | 1.25 | 1.50 | 2.00 |
| | 3 to 10 | 1.50 | 1.75 | 2.25 |
| | >10 | 1.75 | 2.00 | 2.50 |

Starting Frequency Factor **fs**

| Starts (or Stops) per Hour | fs |
|----------------------------|-----------|
| 1 | 1.00 |
| 2 - 5 | 1.06 |
| 6 - 10 | 1.10 |
| 11 - 40 | 1.16 |
| 41 - 80 | 1.20 |
| >80 | 1.25 |

Thermal Modifying Factor **fw**

| Ambient Temperature | Duration of Operation per Hour | | | | |
|---------------------|--------------------------------|------|------|------|------|
| | 100% | 80% | 60% | 40% | 20% |
| -20°C | 1.50 | 1.61 | 1.78 | 2.06 | 2.65 |
| -10°C | 1.35 | 1.45 | 1.60 | 1.86 | 2.38 |
| 0°C | 1.25 | 1.34 | 1.48 | 1.72 | 2.20 |
| 10°F | 1.12 | 1.20 | 1.33 | 1.54 | 1.98 |
| 20°C | 1.00 | 1.07 | 1.19 | 1.37 | 1.76 |
| 25°C | 0.95 | 1.02 | 1.13 | 1.31 | 1.68 |
| 30°C | 0.88 | 0.94 | 1.04 | 1.21 | 1.55 |
| 40°C | 0.75 | 0.80 | 0.89 | 1.03 | 1.32 |
| 50°C | 0.63 | 0.67 | 0.75 | 0.87 | 1.11 |

Load Classification by Application

| Load Classification | | | | | |
|--|---|--|--|--|--|
| U Uniform Load | | | | | |
| M Moderate Shock Load | | | | | |
| H Heavy Shock Load | | | | | |
| † Consult our Engineers | | | | | |
| Agitators | | | | | |
| Pure liquids | U | | | | |
| Liquids and solids | M | | | | |
| Liquids variable density | M | | | | |
| Blowers | | | | | |
| Centrifugal | U | | | | |
| Lobe | M | | | | |
| Vane | U | | | | |
| Brewing & distilling | | | | | |
| Bottling machinery | M | | | | |
| Brew kettles | M | | | | |
| Cookers | M | | | | |
| Mash tubs | M | | | | |
| Scale Hopper | M | | | | |
| Can filling machine | M | | | | |
| Crane knife | M | | | | |
| Car dumper | M | | | | |
| Car puller | M | | | | |
| Clarifier | U | | | | |
| Classifier | M | | | | |
| Clay working machinery | | | | | |
| Brick press | H | | | | |
| Briquette machine | H | | | | |
| Clay working machine | M | | | | |
| Plug mill | M | | | | |
| Compressors | | | | | |
| Centrifugal | U | | | | |
| Lobe | M | | | | |
| Reciprocating | | | | | |
| Multi cylinder | M | | | | |
| Single cylinder | H | | | | |
| Conveyors-Light duty uniform load | | | | | |
| Apron | U | | | | |
| Assembly | U | | | | |
| Belt | U | | | | |
| Bucket | U | | | | |
| Chain | U | | | | |
| Flight | U | | | | |
| Oven | U | | | | |
| Screw | U | | | | |
| Conveyors-Heavy duty non-uniform load | | | | | |
| Apron | M | | | | |
| Assembly | M | | | | |
| Belt | M | | | | |
| Bucket | M | | | | |
| Chain | M | | | | |
| Flight | M | | | | |
| Live roll | † | | | | |
| Oven | M | | | | |
| Reciprocating | M | | | | |
| Screw | M | | | | |
| Shaker | M | | | | |
| Cranes | † | | | | |
| Crusher | | | | | |
| Ore | H | | | | |
| Stone | H | | | | |
| Sugar | H | | | | |
| Dredgers | | | | | |
| Conveyors | M | | | | |
| Cutter head drive | H | | | | |
| Pumps | M | | | | |
| Screen Drive | H | | | | |
| Stackers | M | | | | |
| Winches | M | | | | |
| Elevators | | | | | |
| Bucket - Uniform load | U | | | | |
| Bucket - Heavy load | M | | | | |
| Bucket - Continuous | U | | | | |
| Centrifugal discharge | U | | | | |
| Escalators | U | | | | |
| Freight | M | | | | |
| Gravity discharge | U | | | | |
| Passenger Lifts | † | | | | |
| Fans | | | | | |
| Centrifugal | U | | | | |
| Cooling towers | | | | | |
| Induced draft | † | | | | |
| Forced draft | † | | | | |
| Fan- Large diameter induced draft | M | | | | |
| Fan, light, small diameter | M | | | | |
| Feeders | | | | | |
| Apron | M | | | | |
| Belt | U | | | | |
| Disc | U | | | | |
| Reciprocating | H | | | | |
| Screw | M | | | | |
| Food Industry | | | | | |
| Cereal cooker | U | | | | |
| Dough mixer | M | | | | |
| Meat grinder | M | | | | |
| Meat slicer | M | | | | |
| Generators - not welding | U | | | | |
| Hammer mills | H | | | | |
| Hoists | | | | | |
| Heavy duty | H | | | | |
| Medium duty | M | | | | |
| Skip hoist | M | | | | |
| Laundry | | | | | |
| Tumbler | M | | | | |
| Washer | M | | | | |
| Line shafts | | | | | |
| Heavy duty | M | | | | |
| Light duty | U | | | | |
| Lumber industry | | | | | |
| Barkers | M | | | | |
| Burner conveyor | M | | | | |
| Chain / Drag saw | H | | | | |
| Chain transfer | H | | | | |
| Chain way transfer | H | | | | |
| De-barking drum | H | | | | |
| Edger feed | M | | | | |
| Gang feed | M | | | | |
| Green chain | M | | | | |
| Live roll | H | | | | |
| Log deck | H | | | | |
| Log Haul | H | | | | |
| Log turning | H | | | | |
| Log conveyor | H | | | | |
| Of bearing roll | M | | | | |
| Planer feed chains | M | | | | |
| Planer hoist | M | | | | |
| Re-saw conveyor | M | | | | |
| Roll cases | H | | | | |
| Slab conveyor | H | | | | |
| Sorting table Triple hoist | M | | | | |
| Triple hoist - drive/conveyor | M | | | | |
| Transfer conveyor | M | | | | |
| Transfer roll | M | | | | |
| Tray drive | M | | | | |
| Trimmer feed | M | | | | |
| Waste conveyor | M | | | | |
| Small waste conveyor (belt) | U | | | | |
| Small waste conveyor (chain) | M | | | | |
| Machine Tools | | | | | |
| Bending roll | M | | | | |
| Punch press | H | | | | |
| Notching press | H | | | | |
| Plate planer | H | | | | |
| Other machine tools | | | | | |
| Main drive | M | | | | |
| Aux drive | U | | | | |
| Metal mills | | | | | |
| Carriage / Main drive | M | | | | |
| Draw bench | M | | | | |
| Dryer | M | | | | |
| Flattening machine | M | | | | |
| Pinch drive | M | | | | |
| Reversing slitters | M | | | | |
| Scrubber rolls | M | | | | |
| Table conveyors | | | | | |
| Group drives | M | | | | |
| Individual drives | H | | | | |
| Table conveyors - reversing | H | | | | |
| Wire draw | M | | | | |
| Wire roll | M | | | | |
| Mills | | | | | |
| Cement kiln | H | | | | |
| Dryer, Cooler | H | | | | |
| Kiln (other) | H | | | | |
| Rod plain | H | | | | |
| Rod wedge bar | H | | | | |
| Rotary / Ball | H | | | | |
| Tumbling barrel | H | | | | |
| Mixers | | | | | |
| Concrete | M | | | | |
| Cons density | U | | | | |
| Variable density | M | | | | |
| Oil Industry | | | | | |
| Chillers | M | | | | |
| Oil well pump | M | | | | |
| Filter press | M | | | | |
| Rotary kiln | M | | | | |
| Paper | | | | | |
| Agitator (mixer) | M | | | | |
| Barker (hydraulic) | M | | | | |
| Barker (mechanical) | H | | | | |
| Barking drum | H | | | | |
| Beater & pulper | M | | | | |
| Bleacher | U | | | | |
| Calenders | M | | | | |
| Calender- Super | H | | | | |
| Converting machine | M | | | | |
| Conveyors | U | | | | |
| Couch | M | | | | |
| Cutters - plates | H | | | | |
| Cylinders | M | | | | |
| Dryers | M | | | | |
| Felt stretcher | M | | | | |
| Felt whipper | H | | | | |
| Jordans | M | | | | |
| Log haul | H | | | | |
| Machine reel | M | | | | |
| Presses | M | | | | |
| Stock chest | M | | | | |
| Suction roll | M | | | | |
| Washers & thickeners | M | | | | |
| Winders | M | | | | |
| Printing presses | † | | | | |
| Pullers | | | | | |
| Barge haul | H | | | | |
| Pumps | | | | | |
| Centrifugal | U | | | | |
| Proportioning | M | | | | |
| Reciprocating | | | | | |
| Single acting 3+ cylinders | M | | | | |
| Double acting 2+ cylinders | M | | | | |
| Single acting 1 & 2 cylinders | † | | | | |
| Double acting 1 cylinder | † | | | | |
| Rotary - gear type | U | | | | |
| Rotary - lobe type / vane | U | | | | |
| Sand miller | M | | | | |
| Sewage treatment | | | | | |
| Bar screen | U | | | | |
| Chemical feeder | U | | | | |
| Collector | U | | | | |
| Dewatering screw | M | | | | |
| Mixers | M | | | | |
| Scum breaker | M | | | | |
| Thickeners | M | | | | |
| Vacuum filters | M | | | | |
| Screens | | | | | |
| Air washing | U | | | | |
| Rotary, stone or gravel | M | | | | |
| Travelling water intake | U | | | | |
| Slab pushers | M | | | | |
| Slewing | H | | | | |
| Steering gear | † | | | | |
| Stokers | U | | | | |
| Sugar Industry | | | | | |
| Cane Knife | M | | | | |
| Crusher | M | | | | |
| Mills | M | | | | |
| Textile Industry | | | | | |
| Batchers | M | | | | |
| Calenders | M | | | | |
| Cards | M | | | | |
| Dry cans | M | | | | |
| Dryers | M | | | | |
| Dyeing machinery | M | | | | |
| Knitting machines | M | | | | |
| Looms | M | | | | |
| Mangles | M | | | | |
| Nappers | M | | | | |
| Pads | M | | | | |
| Range drive | M | | | | |
| Slashers | M | | | | |
| Soapers | M | | | | |
| Spinners | M | | | | |
| Tenter frame | M | | | | |
| Washers | M | | | | |
| Winders | M | | | | |
| Windlass | † | | | | |

SELECTION EXAMPLE

Example 1 (For Motorised Unit)

Absorbed Power (P_e) = 5 kW

Motor Power = 5.5 kW

$n_1 = 1450$ rpm, $n_2 = 22$ rpm

Required Ratio (i) = $\frac{1450}{22} = 66:1$

Ambient Temp (t) = 30°C

Moderate Shock Loading

1 start / hour

8 hours / day Continuous Operation

Determine the Output Torque T_2

$$T_2 = \frac{P_e \times 9550}{n_2}$$

$$T_2 = \frac{5 \times 9550}{22} = 2170 \text{ Nm}$$

Determine the Service Factor f

Refer to Mechanical Service Factor Table f_m ,
And Starting Frequency Factor Table f_s

| Prime Mover | Operating Duty Hours/Day | Load Classification Driven Machine | | | Starts (or Stops) per Hour | f_s |
|-----------------------------------|--------------------------|------------------------------------|------------|---------|----------------------------|-------|
| | | U Uniform | M Moderate | H Heavy | | |
| Electric Motor Hydraulic Motor | < 3 | 0.80 | 1.00 | 1.50 | 1 | 1.00 |
| | 3 to 10 | 1.00 | 1.25 | 1.75 | 2 - 5 | 1.06 |
| | >10 | 1.25 | 1.50 | 2.00 | 6 - 10 | 1.10 |
| Piston Engine >3 Cylinders | < 3 | 1.00 | 1.25 | 1.75 | 11 - 40 | 1.16 |
| | 3 to 10 | 1.25 | 1.50 | 2.00 | 41 - 80 | 1.20 |
| | >10 | 1.50 | 1.75 | 2.25 | >80 | 1.25 |
| Piston Engine 1-3 Cylinders | < 3 | 1.25 | 1.50 | 2.00 | | |
| | 3 to 10 | 1.50 | 1.75 | 2.25 | | |
| | >10 | 1.75 | 2.00 | 2.50 | | |

$$f = f_m \times f_s (1.25 \times 1.00) \quad f = 1.25$$

Determine Thermal Modifying Factor f_w

Refer to Thermal Modifying Factor Table f_w

| Ambient Temperature | Duration of Operation per Hour | | |
|---------------------|--------------------------------|------|------|
| | 100% | 80% | 60% |
| 20°C | 1.00 | 1.07 | 1.19 |
| 25°C | 0.95 | 1.02 | 1.13 |
| 30°C | 0.88 | 0.94 | 1.04 |
| 40°C | 0.75 | 0.80 | 0.89 |
| 50°C | 0.63 | 0.67 | 0.75 |

$$f_w (\text{for } 30^\circ\text{C}) = 0.88$$

Select Gear Unit

Refer to Motorised Selection Tables (select a motor power larger than the absorbed power)

| | n_2 | Ratio i | M2 (Nm) | f_m | Fr2 (N) | Unit Designation | Motor Frame | Pt (kW) |
|--------|-------|-----------|---------|-------|---------|----------------------------|-------------|---------|
| 5.5 kW | 41.6 | 34.88 | 1225 | 1.57 | 28500 | PL0320 36. - M - - - 5.5 A | 132 | 14.1 |
| | 34.4 | 42.19 | 1482 | 1.32 | 28500 | PL0320 45. - M - - - 5.5 A | 132 | 15.1 |
| 4-pole | 28.9 | 50.19 | 1764 | 0.83 | 28500 | PL0320 50. - M - - - 5.5 A | 132 | 13.8 |
| | 26.3 | 55.09 | 1916 | 1.75 | 28500 | PL0330 56. - M - - - 5.5 A | 132 | 11.1 |
| | 21.7 | 66.79 | 2322 | 1.46 | 28500 | PL0330 71. - M - - - 5.5 A | 132 | 11.1 |
| | 17.9 | 80.96 | 2815 | 1.22 | 28500 | PL0330 80. - M - - - 5.5 A | 132 | 11.1 |
| | 16.5 | 87.83 | 3054 | 1.13 | 28500 | PL0330 90. - M - - - 5.5 A | 132 | 10.9 |

Unit selected: PL0330 $iN = 71$.

Check the Required Service Factor f (1.25) is less than F_m (1.46)

Check the Output Torque M2 (2322Nm) is greater than the required torque T2 (2170Nm)

Check Thermal Capacity Pt x f_w (11.1 x 0.88 = 9.77 kW) is greater than absorbed power P_e (5 kW)

Check the output speed, n_2 (21.7 rpm) is within range of requirement (22 rpm)

Check that any Overhung Load applied does not exceed Fr_2^* (N)

* Fr_2 is applied at Centre of shaft extension

Lifetime Check

Refer to the n_2^*h Selection Tables

| SERIES P | Ratio iN | Ratio i | T2 (Nm) - $n_2 \times h$ rating | | | | | | n1 Max | Pt kW |
|----------|------------|-----------|---------------------------------|--------|--------|---------|---------|-----------|--------|-------|
| | | | 10,000 | 25,000 | 50,000 | 100,000 | 500,000 | 1,000,000 | | |
| PL0330 | 56. | 55.09 | 3930 | 3700 | 3648 | 3400 | 2536 | 2060 | 3500 | 11.1 |
| | 71. | 66.79 | 3930 | 3700 | 3648 | 3400 | 2536 | 2060 | | 11.1 |
| | 80. | 80.96 | 3930 | 3700 | 3648 | 3400 | 2536 | 2060 | | 11.1 |
| | 90. | 87.83 | 3930 | 3700 | 3648 | 3400 | 2536 | 2060 | | 10.9 |

Look up n_2^*h value for required torque T2 (2170Nm)

$n_2^*h = 850,000$ (by linear Interpolation)

$$\text{Lifetime (hours)} = \frac{n_2^*h}{n_2} = \frac{850,000}{22} = 38600 \text{ hours}$$

Unit Designation

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

e.g.

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P | L | 0 | 5 | 3 | 0 | 1 | 1 | 2 | B | M | C | B | 3 | 1 | . | 5 | A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

1 - 2 - 3 - 4 - 5 - 6

Unit Size / Type

e.g. PL0110
PL0330
PL0520
PL1230 etc...

7 - 8 - 9

Ratio (i N)

e.g. 4.5
18.
112
10C etc....

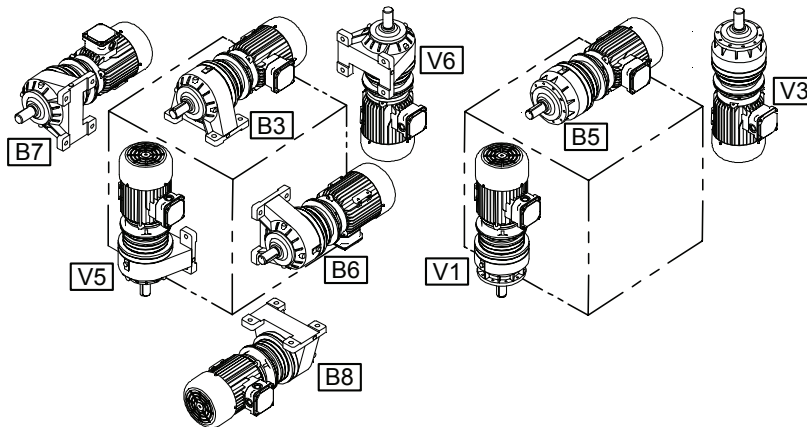
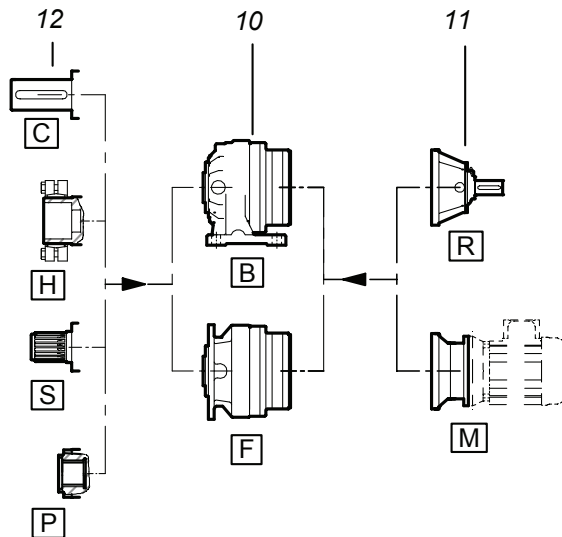
13 - 14

Mounting Position

e.g. B3
B5 etc....

10 - 11 - 12

Unit Options



15 - 16 - 17

Units supplied complete with a motor
enter the **Motor Power (kW)**
e.g. .37 1.5 15. etc....

Units supplied for cutomers to fit their own
motor enter the **Frame Size**
e.g. 063 090 132 etc...

For a non motorised unit enter ---

18

Motor Speed

4 pole (1450) **A**
6 pole (960) **C**
2 pole (2900) **E**
8 pole (725) **G**

Units supplied without a motor
fitted enter -

SERIES P

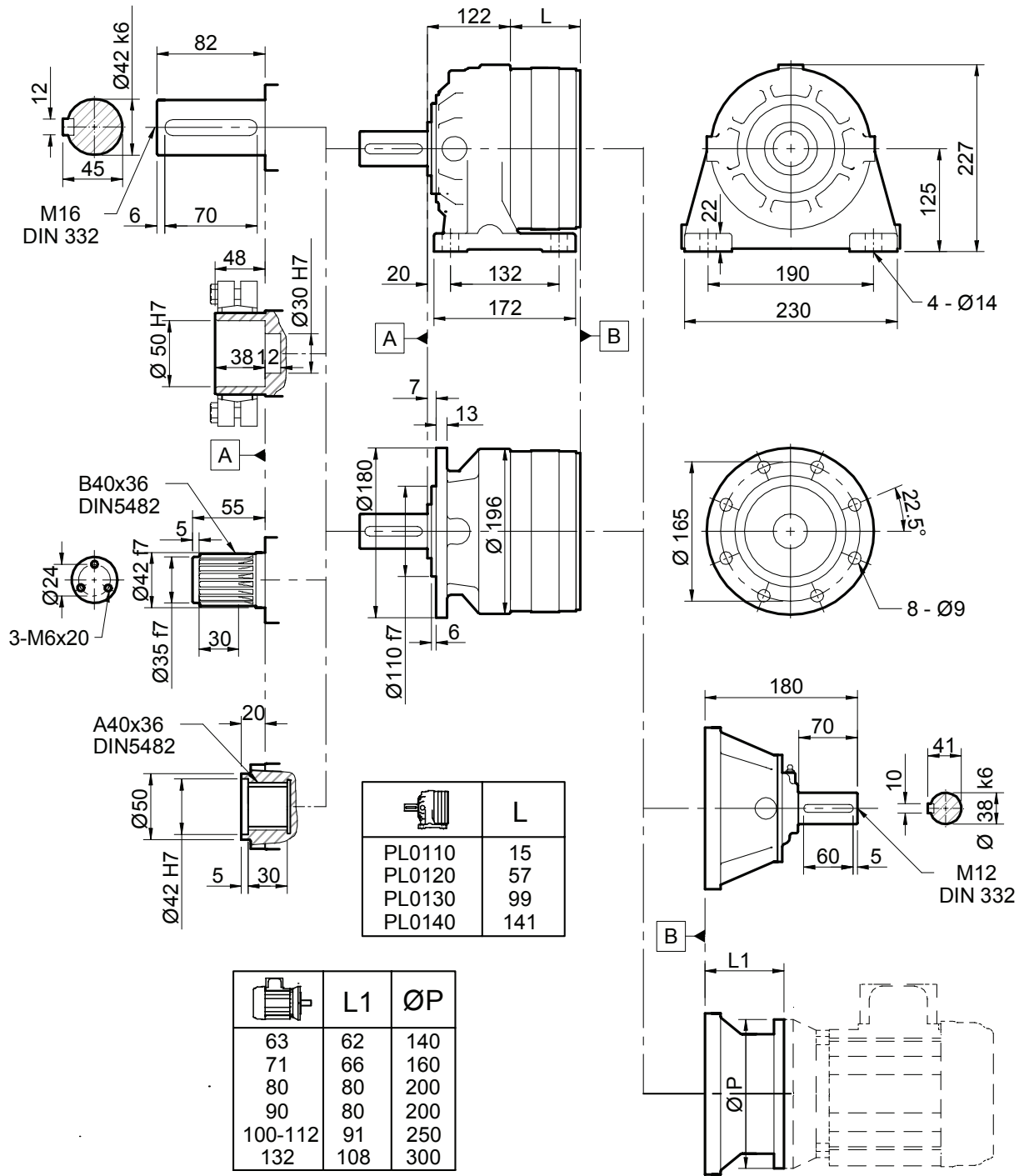
NOMINAL TORQUE

| | iN | T2 (Nm) | | | iN | T2 (Nm) | | | iN | T2 (Nm) | |
|-----|-----|---------|------|------|------|---------|------|------|-----|---------|-------|
| | | PL01 | PL02 | | | PL03 | PL05 | | | PL08 | PL12 |
| 1 | 3.6 | 1110 | 2050 | | 3.6 | 3400 | 5231 | | 3.6 | 9112 | 11277 |
| | 4.5 | 900 | 1661 | | 4.5 | 2887 | 4442 | | 4.5 | 7490 | 9996 |
| | 6.3 | 629 | 1162 | | 5.6 | 2008 | 3089 | | 5.6 | 5396 | 7196 |
| | 7.1 | 464 | 856 | | 7.1 | 1494 | 2298 | | 7.1 | 4564 | 6084 |
| 2 | 16. | 1110 | 2050 | | 14. | 3400 | 5231 | | 14. | 9112 | 11277 |
| | 18. | 1110 | 2050 | | 16. | 3400 | 5231 | | 16. | 9112 | 11277 |
| | 22. | 900 | 1661 | | 20. | 2887 | 4442 | | 20. | 7490 | 9996 |
| | 25. | 1110 | 2050 | | 22. | 3400 | 5231 | | 22. | 9112 | 11277 |
| | 28. | 1110 | 2050 | | 25. | 3400 | 5231 | | 25. | 9112 | 11277 |
| | 36. | 900 | 1661 | | 32. | 2887 | 4442 | | 28. | 7490 | 9996 |
| | 40. | 629 | 1162 | | 36. | 2008 | 3089 | | 32. | 5396 | 7196 |
| | 45. | 629 | 1162 | | 45. | 2008 | 3089 | | 36 | 5396 | 7196 |
| 56. | 464 | 856 | 50. | 1494 | 2298 | 45. | 4564 | 6084 | | | |
| 3 | 63. | 1110 | 2050 | | 56. | 3400 | 5231 | | 56. | 9112 | 11277 |
| | 71. | 1110 | 2050 | | 71. | 3400 | 5231 | | 63. | 9112 | 11277 |
| | 80. | 1110 | 2050 | | 80. | 3400 | 5231 | | 71. | 9112 | 11277 |
| | 90. | 1110 | 2050 | | 90. | 3400 | 5231 | | 80. | 9112 | 11277 |
| | 100 | 900 | 1661 | | 100 | 2887 | 4442 | | 90. | 7490 | 9996 |
| | 112 | 1110 | 2050 | | 112 | 3400 | 5231 | | 100 | 9112 | 11277 |
| | 125 | 1110 | 2050 | | 125 | 3400 | 5231 | | 112 | 9112 | 11277 |
| | 140 | 1110 | 2050 | | 140 | 3400 | 5231 | | 125 | 9112 | 11277 |
| | 160 | 900 | 1661 | | 160 | 2887 | 4442 | | 140 | 7490 | 9996 |
| | 180 | 1110 | 2050 | | 180 | 3400 | 5231 | | 160 | 9112 | 11277 |
| | 225 | 1110 | 2050 | | 200 | 3400 | 5231 | | 180 | 9112 | 11277 |
| | 250 | 900 | 1661 | | 250 | 2887 | 4442 | | 225 | 7490 | 9996 |
| | 280 | 629 | 1162 | | 280 | 2008 | 3089 | | 250 | 5396 | 7196 |
| | 360 | 629 | 1162 | | 315 | 2008 | 3089 | | 280 | 5396 | 7196 |
| 400 | 464 | 856 | 360 | 1494 | 2298 | 360 | 4564 | 6084 | | | |
| 4 | 450 | 1110 | 2050 | | 400 | 3400 | 5231 | | 400 | 9112 | 11277 |
| | 500 | 1110 | 2050 | | 500 | 3400 | 5231 | | 450 | 9112 | 11277 |
| | 560 | 1110 | 2050 | | 560 | 3400 | 5231 | | 500 | 9112 | 11277 |
| | 630 | 1110 | 2050 | | 630 | 3400 | 5231 | | 560 | 9112 | 11277 |
| | 710 | 1110 | 2050 | | 710 | 3400 | 5231 | | 630 | 9112 | 11277 |
| | 800 | 1110 | 2050 | | 800 | 3400 | 5231 | | 710 | 9112 | 11277 |
| | 900 | 1110 | 2050 | | 900 | 3400 | 5231 | | 800 | 9112 | 11277 |
| | 10C | 1110 | 2050 | | 10C | 3400 | 5231 | | 900 | 9112 | 11277 |
| | 11C | 1110 | 2050 | | 11C | 3400 | 5231 | | 10C | 9112 | 11277 |
| | 14C | 1110 | 2050 | | 12C | 3400 | 5231 | | 11C | 9112 | 11277 |
| | 16C | 1110 | 2050 | | 14C | 3400 | 5231 | | 12C | 9112 | 11277 |
| | 18C | 629 | 1162 | | 16C | 2008 | 3089 | | 14C | 5396 | 7196 |
| | 20C | 900 | 1661 | | 18C | 2887 | 4442 | | 16C | 7490 | 9996 |
| | 22C | 629 | 1162 | | 20C | 2008 | 3089 | | 18C | 5396 | 7196 |
| | 25C | 629 | 1162 | | 22C | 2008 | 3089 | | 20C | 5396 | 7196 |
| | 32C | 464 | 856 | | 25C | 1494 | 2298 | | 25C | 4564 | 6084 |

SERIES P

PL01

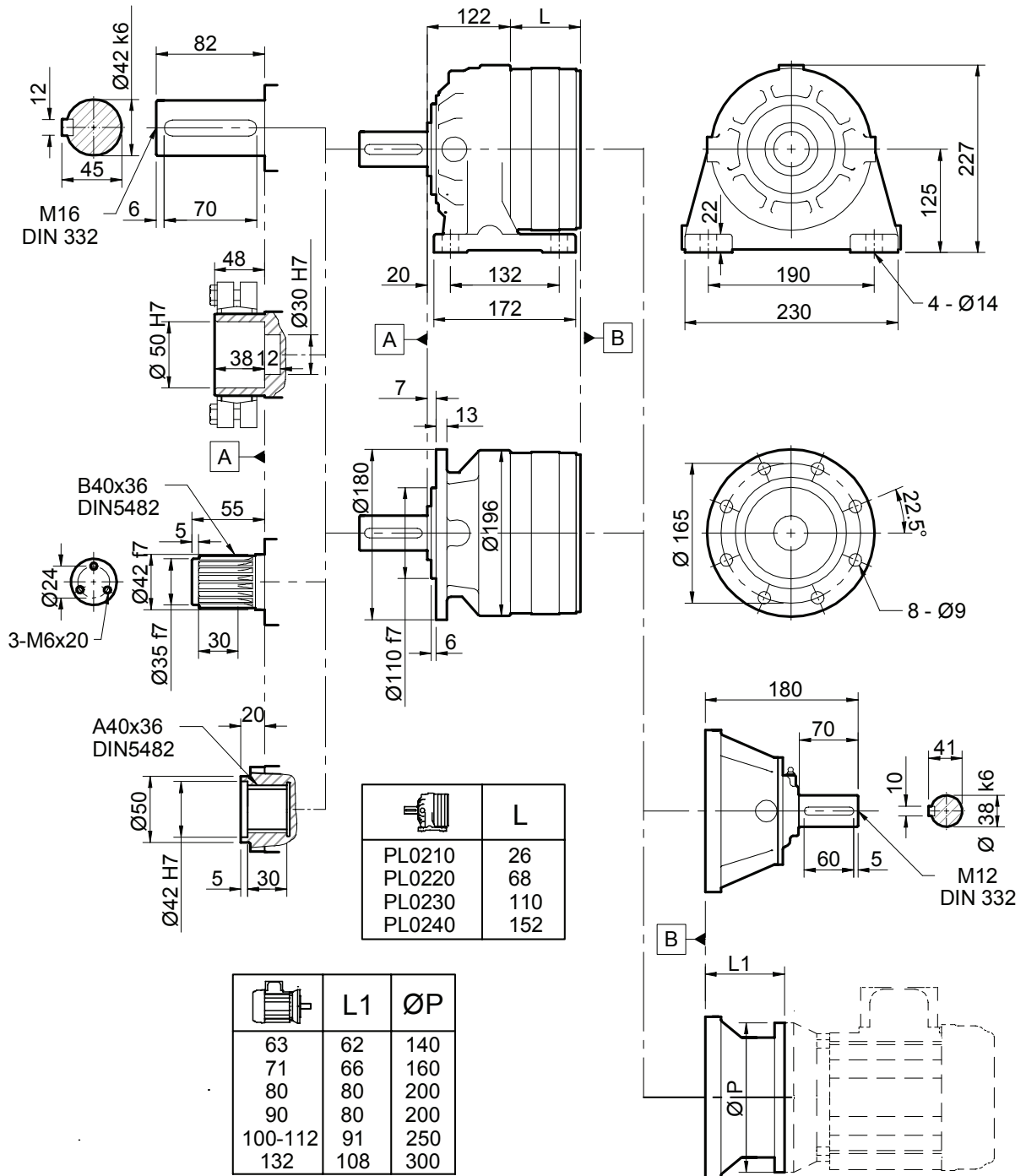
| SERIES P | Rati iN | Ratio i | T2 (Nm) - n2*h rating | | | | | | n1 Max | Pt - kW |
|-------------|------------|------------|-----------------------|--------|--------|---------|---------|-----------|-----------|------------|
| | | | 10,000 | 25,000 | 50,000 | 100,000 | 500,000 | 1,000,000 | | |
| PL0110 | 3.6 | 3.89 | 1305 | 1224 | 1207 | 1110 | 946 | 769 | 3500 | 15.4 |
| | 4.5 | 4.71 | 1220 | 1123 | 986 | 900 | 824 | 751 | | 15.4 |
| | 6.3 | 6.20 | 895 | 753 | 660 | 629 | 575 | 552 | | 14.7 |
| | 7.1 | 7.50 | 643 | 539 | 482 | 464 | 422 | 404 | | 12.5 |
| PL0120 | 16. | 15.12 | 1305 | 1224 | 1207 | 1110 | 946 | 769 | 3500 | 8.9 |
| | 18. | 18.33 | 1305 | 1224 | 1207 | 1110 | 946 | 769 | | 8.9 |
| | 22. | 22.22 | 1220 | 1123 | 986 | 900 | 824 | 751 | | 8.9 |
| | 25. | 24.11 | 1305 | 1224 | 1207 | 1110 | 946 | 769 | | 8.7 |
| | 28. | 29.17 | 1305 | 1224 | 1207 | 1110 | 946 | 769 | | 8.0 |
| | 36. | 35.36 | 1220 | 1123 | 986 | 900 | 824 | 751 | | 8.0 |
| | 40. | 38.44 | 895 | 753 | 660 | 629 | 575 | 552 | | 8.5 |
| | 45. | 46.50 | 895 | 753 | 660 | 629 | 575 | 552 | | 7.8 |
| 56. | 56.25 | 643 | 539 | 482 | 464 | 422 | 404 | 7.2 | | |
| PL0130 | 63. | 58.81 | 1305 | 1224 | 1207 | 1110 | 946 | 769 | 3500 | 6.2 |
| | 71. | 71.30 | 1305 | 1224 | 1207 | 1110 | 946 | 769 | | 6.2 |
| | 80. | 86.43 | 1305 | 1224 | 1207 | 1110 | 946 | 769 | | 6.2 |
| | 90. | 93.77 | 1305 | 1224 | 1207 | 1110 | 946 | 769 | | 6.1 |
| | 100 | 104.8 | 1220 | 1123 | 986 | 900 | 824 | 751 | | 6.1 |
| | 112 | 113.4 | 1305 | 1224 | 1207 | 1110 | 946 | 769 | | 6.0 |
| | 125 | 137.5 | 1305 | 1224 | 1207 | 1110 | 946 | 769 | | 6.0 |
| | 140 | 149.5 | 1305 | 1224 | 1207 | 1110 | 946 | 769 | | 6.0 |
| | 160 | 166.7 | 1220 | 1123 | 986 | 900 | 824 | 751 | | 5.8 |
| | 180 | 180.8 | 1305 | 1224 | 1207 | 1110 | 946 | 769 | | 5.8 |
| | 225 | 218.8 | 1305 | 1224 | 1207 | 1110 | 946 | 769 | | 5.7 |
| | 250 | 265.2 | 1220 | 1123 | 986 | 900 | 824 | 751 | | 5.7 |
| | 280 | 288.3 | 895 | 753 | 660 | 629 | 575 | 552 | | 5.6 |
| | 360 | 348.8 | 895 | 753 | 660 | 629 | 575 | 552 | | 5.6 |
| 400 | 421.9 | 643 | 539 | 482 | 464 | 422 | 404 | 5.6 | | |
| PL0140 | 450 | 441.1 | 1305 | 1224 | 1207 | 1110 | 946 | 769 | 3500 | 4.6 |
| | 500 | 534.7 | 1305 | 1224 | 1207 | 1110 | 946 | 769 | | 4.6 |
| | 560 | 581.3 | 1305 | 1224 | 1207 | 1110 | 946 | 769 | | 4.6 |
| | 630 | 648.2 | 1305 | 1224 | 1207 | 1110 | 946 | 769 | | 4.6 |
| | 710 | 703.2 | 1305 | 1224 | 1207 | 1110 | 946 | 769 | | 4.5 |
| | 800 | 850.7 | 1305 | 1224 | 1207 | 1110 | 946 | 769 | | 4.5 |
| | 900 | 926.8 | 1305 | 1224 | 1207 | 1110 | 946 | 769 | | 4.5 |
| | 10C | 1031.3 | 1305 | 1224 | 1207 | 1110 | 946 | 769 | | 4.4 |
| | 11C | 1121.2 | 1305 | 1224 | 1207 | 1110 | 946 | 769 | | 4.4 |
| | 14C | 1356.3 | 1305 | 1224 | 1207 | 1110 | 946 | 769 | | 4.3 |
| | 16C | 1640.6 | 1305 | 1224 | 1207 | 1110 | 946 | 769 | | 4.3 |
| | 18C | 1787.5 | 895 | 753 | 660 | 629 | 575 | 552 | | 4.3 |
| | 20C | 1988.8 | 1220 | 1123 | 986 | 900 | 824 | 751 | | 4.3 |
| | 22C | 2162.3 | 895 | 753 | 660 | 629 | 575 | 552 | | 4.3 |
| | 25C | 2615.6 | 895 | 753 | 660 | 629 | 575 | 552 | | 4.3 |
| 32C | 3164.1 | 643 | 539 | 482 | 464 | 422 | 404 | 4.3 | | |



SERIES P

PL02

| SERIES P | Ratio iN | Ratio i | T2 (Nm) - n2*h rating | | | | | | n1 Max | Pt - kW |
|-------------|-------------|------------|-----------------------|--------|--------|---------|---------|-----------|-----------|------------|
| | | | 10,000 | 25,000 | 50,000 | 100,000 | 500,000 | 1,000,000 | | |
| PL0210 | 3.6 | 3.89 | 2398 | 2247 | 2215 | 2050 | 1622 | 1317 | 3500 | 16.0 |
| | 4.5 | 4.71 | 2239 | 2074 | 1820 | 1661 | 1523 | 1286 | | 16.0 |
| | 6.3 | 6.20 | 1655 | 1391 | 1219 | 1162 | 1063 | 1020 | | 15.3 |
| | 7.1 | 7.50 | 1188 | 996 | 891 | 856 | 780 | 745 | | 13.0 |
| PL0220 | 16. | 15.12 | 2398 | 2247 | 2215 | 2050 | 1622 | 1317 | 3500 | 9.3 |
| | 18. | 18.33 | 2398 | 2247 | 2215 | 2050 | 1622 | 1317 | | 9.3 |
| | 22. | 22.22 | 2239 | 2074 | 1820 | 1661 | 1523 | 1286 | | 9.3 |
| | 25. | 24.11 | 2398 | 2247 | 2215 | 2050 | 1622 | 1317 | | 9.0 |
| | 28. | 29.17 | 2398 | 2247 | 2215 | 2050 | 1622 | 1317 | | 8.2 |
| | 36. | 35.36 | 2239 | 2074 | 1820 | 1661 | 1523 | 1286 | | 8.2 |
| | 40. | 38.44 | 1655 | 1391 | 1219 | 1162 | 1063 | 1020 | | 8.8 |
| | 45. | 46.50 | 1655 | 1391 | 1219 | 1162 | 1063 | 1020 | | 8.1 |
| PL0230 | 56. | 56.25 | 1188 | 996 | 891 | 856 | 780 | 745 | 3500 | 7.4 |
| | 63. | 58.81 | 2398 | 2247 | 2215 | 2050 | 1622 | 1317 | | 6.5 |
| | 71. | 71.30 | 2398 | 2247 | 2215 | 2050 | 1622 | 1317 | | 6.5 |
| | 80. | 86.43 | 2398 | 2247 | 2215 | 2050 | 1622 | 1317 | | 6.5 |
| | 90. | 93.77 | 2398 | 2247 | 2215 | 2050 | 1622 | 1317 | | 6.3 |
| | 100 | 104.8 | 2239 | 2074 | 1820 | 1661 | 1523 | 1286 | | 6.3 |
| | 112 | 113.4 | 2398 | 2247 | 2215 | 2050 | 1622 | 1317 | | 6.2 |
| | 125 | 137.5 | 2398 | 2247 | 2215 | 2050 | 1622 | 1317 | | 6.2 |
| | 140 | 149.5 | 2398 | 2247 | 2215 | 2050 | 1622 | 1317 | | 6.2 |
| | 160 | 166.7 | 2239 | 2074 | 1820 | 1661 | 1523 | 1286 | | 6.0 |
| | 180 | 180.8 | 2398 | 2247 | 2215 | 2050 | 1622 | 1317 | | 6.0 |
| | 225 | 218.8 | 2398 | 2247 | 2215 | 2050 | 1622 | 1317 | | 5.9 |
| | 250 | 265.2 | 2239 | 2074 | 1820 | 1661 | 1523 | 1286 | | 5.9 |
| | 280 | 288.3 | 1655 | 1391 | 1219 | 1162 | 1063 | 1020 | | 5.8 |
| PL0240 | 360 | 348.8 | 1655 | 1391 | 1219 | 1162 | 1063 | 1020 | 3500 | 5.8 |
| | 400 | 421.9 | 1188 | 996 | 891 | 856 | 780 | 745 | | 5.8 |
| | 450 | 441.1 | 2398 | 2247 | 2215 | 2050 | 1622 | 1317 | | 4.8 |
| | 500 | 534.7 | 2398 | 2247 | 2215 | 2050 | 1622 | 1317 | | 4.8 |
| | 560 | 581.3 | 2398 | 2247 | 2215 | 2050 | 1622 | 1317 | | 4.8 |
| | 630 | 648.2 | 2398 | 2247 | 2215 | 2050 | 1622 | 1317 | | 4.8 |
| | 710 | 703.2 | 2398 | 2247 | 2215 | 2050 | 1622 | 1317 | | 4.7 |
| | 800 | 850.7 | 2398 | 2247 | 2215 | 2050 | 1622 | 1317 | | 4.6 |
| | 900 | 926.8 | 2398 | 2247 | 2215 | 2050 | 1622 | 1317 | | 4.6 |
| | 10C | 1031.3 | 2398 | 2247 | 2215 | 2050 | 1622 | 1317 | | 4.5 |
| | 11C | 1121.2 | 2398 | 2247 | 2215 | 2050 | 1622 | 1317 | | 4.5 |
| | 14C | 1356.3 | 2398 | 2247 | 2215 | 2050 | 1622 | 1317 | | 4.5 |
| | 16C | 1640.6 | 2398 | 2247 | 2215 | 2050 | 1622 | 1317 | | 4.5 |
| | 18C | 1787.5 | 1655 | 1391 | 1219 | 1162 | 1063 | 1020 | | 4.5 |
| | 20C | 1988.8 | 2239 | 2074 | 1820 | 1661 | 1523 | 1286 | | 4.5 |
| | 22C | 2162.3 | 1655 | 1391 | 1219 | 1162 | 1063 | 1020 | | 4.5 |
| 25C | 2615.6 | 1655 | 1391 | 1219 | 1162 | 1063 | 1020 | 4.5 | | |
| 32C | 3164.1 | 1188 | 996 | 891 | 856 | 780 | 745 | 4.5 | | |



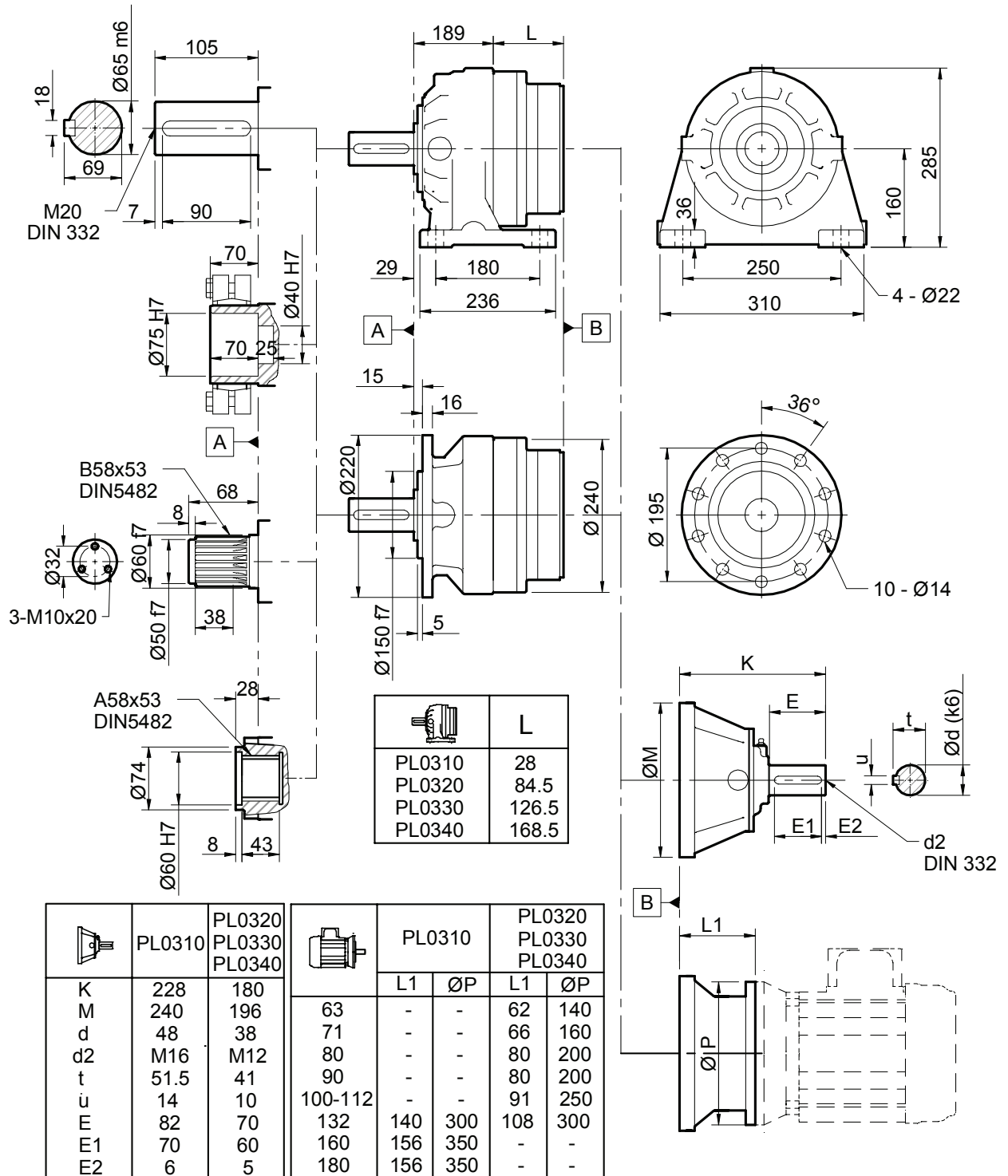
SERIES P

PL03

| SERIES P | Ratio iN | Ratio i | T2 (Nm) - n2*h rating | | | | | | n1 Max | Pt - kW |
|-------------|-------------|------------|-----------------------|--------|--------|---------|---------|-----------|-----------|------------|
| | | | 10,000 | 25,000 | 50,000 | 100,000 | 500,000 | 1,000,000 | | |
| PL0310 | 3.6 | 3.64 | 3930 | 3700 | 3648 | 3400 | 2536 | 2060 | 2800 | 29.0 |
| | 4.5 | 4.36 | 3598 | 3350 | 3199 | 2887 | 2493 | 2025 | | 29.0 |
| | 5.6 | 5.63 | 2891 | 2432 | 2137 | 2008 | 1838 | 1765 | | 27.6 |
| | 7.1 | 6.69 | 2100 | 1764 | 1553 | 1494 | 1364 | 1306 | | 23.5 |
| PL0320 | 14. | 14.17 | 3930 | 3700 | 3648 | 3400 | 2536 | 2060 | 3500 | 15.9 |
| | 16. | 17.17 | 3930 | 3700 | 3648 | 3400 | 2536 | 2060 | | 15.9 |
| | 20. | 20.57 | 3598 | 3350 | 3199 | 2887 | 2493 | 2025 | | 15.9 |
| | 22. | 22.59 | 3930 | 3700 | 3648 | 3400 | 2536 | 2060 | | 15.5 |
| | 25. | 27.32 | 3930 | 3700 | 3648 | 3400 | 2536 | 2060 | | 14.1 |
| | 32. | 32.73 | 3598 | 3350 | 3199 | 2887 | 2493 | 2025 | | 14.1 |
| | 36. | 34.88 | 2891 | 2432 | 2137 | 2008 | 1838 | 1765 | | 15.1 |
| | 45. | 42.19 | 2891 | 2432 | 2137 | 2008 | 1838 | 1765 | | 13.8 |
| PL0330 | 50. | 50.19 | 2100 | 1764 | 1553 | 1494 | 1364 | 1306 | 3500 | 12.7 |
| | 56. | 55.09 | 3930 | 3700 | 3648 | 3400 | 2536 | 2060 | | 11.1 |
| | 71. | 66.79 | 3930 | 3700 | 3648 | 3400 | 2536 | 2060 | | 11.1 |
| | 80. | 80.96 | 3930 | 3700 | 3648 | 3400 | 2536 | 2060 | | 11.1 |
| | 90. | 87.83 | 3930 | 3700 | 3648 | 3400 | 2536 | 2060 | | 10.9 |
| | 100 | 96.98 | 3598 | 3350 | 3199 | 2887 | 2493 | 2025 | | 10.9 |
| | 112 | 106.5 | 3930 | 3700 | 3648 | 3400 | 2536 | 2060 | | 10.6 |
| | 125 | 128.8 | 3930 | 3700 | 3648 | 3400 | 2536 | 2060 | | 10.6 |
| | 140 | 140.0 | 3930 | 3700 | 3648 | 3400 | 2536 | 2060 | | 10.6 |
| | 160 | 154.3 | 3598 | 3350 | 3199 | 2887 | 2493 | 2025 | | 10.4 |
| | 180 | 169.4 | 3930 | 3700 | 3648 | 3400 | 2536 | 2060 | | 10.4 |
| | 200 | 204.9 | 3930 | 3700 | 3648 | 3400 | 2536 | 2060 | | 10.2 |
| | 250 | 245.5 | 3598 | 3350 | 3199 | 2887 | 2493 | 2025 | | 10.2 |
| | 280 | 261.6 | 2891 | 2432 | 2137 | 2008 | 1838 | 1765 | | 10.0 |
| | 315 | 316.4 | 2891 | 2432 | 2137 | 2008 | 1838 | 1765 | | 10.0 |
| | 360 | 376.4 | 2100 | 1764 | 1553 | 1494 | 1364 | 1306 | | 10.0 |
| PL0340 | 400 | 413.2 | 3930 | 3700 | 3648 | 3400 | 2536 | 2060 | 3500 | 8.1 |
| | 500 | 500.9 | 3930 | 3700 | 3648 | 3400 | 2536 | 2060 | | 8.1 |
| | 560 | 544.6 | 3930 | 3700 | 3648 | 3400 | 2536 | 2060 | | 8.1 |
| | 630 | 607.2 | 3930 | 3700 | 3648 | 3400 | 2536 | 2060 | | 8.1 |
| | 710 | 658.8 | 3930 | 3700 | 3648 | 3400 | 2536 | 2060 | | 8.0 |
| | 800 | 796.9 | 3930 | 3700 | 3648 | 3400 | 2536 | 2060 | | 7.8 |
| | 900 | 868.2 | 3930 | 3700 | 3648 | 3400 | 2536 | 2060 | | 7.8 |
| | 10C | 966.0 | 3930 | 3700 | 3648 | 3400 | 2536 | 2060 | | 7.7 |
| | 11C | 1050.2 | 3930 | 3700 | 3648 | 3400 | 2536 | 2060 | | 7.7 |
| | 12C | 1270.4 | 3930 | 3700 | 3648 | 3400 | 2536 | 2060 | | 7.6 |
| | 14C | 1536.8 | 3930 | 3700 | 3648 | 3400 | 2536 | 2060 | | 7.6 |
| | 16C | 1621.7 | 2891 | 2432 | 2137 | 2008 | 1838 | 1765 | | 7.6 |
| | 18C | 1840.9 | 3598 | 3350 | 3199 | 2887 | 2493 | 2025 | | 7.6 |
| | 20C | 1961.7 | 2891 | 2432 | 2137 | 2008 | 1838 | 1765 | | 7.6 |
| | 22C | 2373.0 | 2891 | 2432 | 2137 | 2008 | 1838 | 1765 | | 7.6 |
| | 25C | 2823.3 | 2100 | 1764 | 1553 | 1494 | 1364 | 1306 | | 7.6 |

SERIES P

PL03



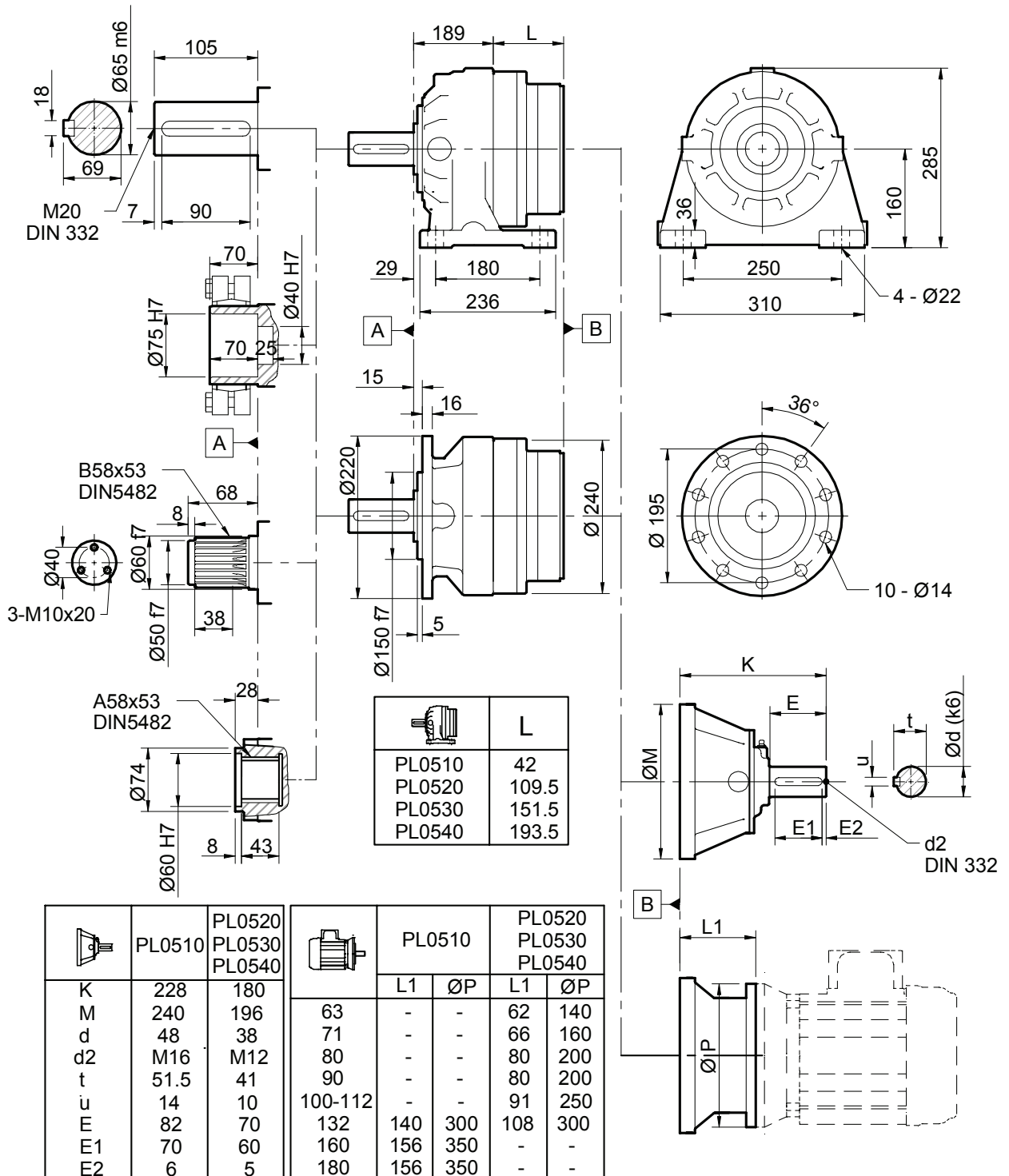
SERIES P

PL05

| SERIES P | Ratio iN | Ratio i | T2 (Nm) - n2*h rating | | | | | | n1 Max | Pt - kW |
|-------------|-------------|------------|-----------------------|--------|--------|---------|---------|-----------|-----------|------------|
| | | | 10,000 | 25,000 | 50,000 | 100,000 | 500,000 | 1,000,000 | | |
| PL0510 | 3.6 | 3.64 | 6028 | 5675 | 5595 | 5231 | 3556 | 2889 | 2800 | 30.2 |
| | 4.5 | 4.36 | 5519 | 5139 | 4920 | 4442 | 3498 | 2841 | | 30.2 |
| | 5.6 | 5.63 | 4448 | 3742 | 3287 | 3089 | 2828 | 2716 | | 28.8 |
| | 7.1 | 6.69 | 3232 | 2715 | 2389 | 2298 | 2099 | 2010 | | 24.5 |
| PL0520 | 14. | 14.17 | 6028 | 5675 | 5595 | 5231 | 3556 | 2889 | 3500 | 16.6 |
| | 16. | 17.17 | 6028 | 5675 | 5595 | 5231 | 3556 | 2889 | | 16.6 |
| | 20. | 20.57 | 5519 | 5139 | 4920 | 4442 | 3498 | 2841 | | 16.6 |
| | 22. | 22.59 | 6028 | 5675 | 5595 | 5231 | 3556 | 2889 | | 16.1 |
| | 25. | 27.32 | 6028 | 5675 | 5595 | 5231 | 3556 | 2889 | | 14.7 |
| | 32. | 32.73 | 5519 | 5139 | 4920 | 4442 | 3498 | 2841 | | 14.7 |
| | 36. | 34.88 | 4448 | 3742 | 3287 | 3089 | 2828 | 2716 | | 15.7 |
| | 45. | 42.19 | 4448 | 3742 | 3287 | 3089 | 2828 | 2716 | | 14.4 |
| 50. | 50.19 | 3232 | 2715 | 2389 | 2298 | 2099 | 2010 | 13.3 | | |
| PL0530 | 56. | 55.09 | 6028 | 5675 | 5595 | 5231 | 3556 | 2889 | 3500 | 11.6 |
| | 71. | 66.79 | 6028 | 5675 | 5595 | 5231 | 3556 | 2889 | | 11.6 |
| | 80. | 80.96 | 6028 | 5675 | 5595 | 5231 | 3556 | 2889 | | 11.6 |
| | 90. | 87.83 | 6028 | 5675 | 5595 | 5231 | 3556 | 2889 | | 11.4 |
| | 100 | 96.98 | 5519 | 5139 | 4920 | 4442 | 3498 | 2841 | | 11.3 |
| | 112 | 106.5 | 6028 | 5675 | 5595 | 5231 | 3556 | 2889 | | 11.1 |
| | 125 | 128.8 | 6028 | 5675 | 5595 | 5231 | 3556 | 2889 | | 11.1 |
| | 140 | 140.0 | 6028 | 5675 | 5595 | 5231 | 3556 | 2889 | | 11.1 |
| | 160 | 154.3 | 5519 | 5139 | 4920 | 4442 | 3498 | 2841 | | 10.8 |
| | 180 | 169.4 | 6028 | 5675 | 5595 | 5231 | 3556 | 2889 | | 10.8 |
| | 200 | 204.9 | 6028 | 5675 | 5595 | 5231 | 3556 | 2889 | | 10.6 |
| | 250 | 245.5 | 5519 | 5139 | 4920 | 4442 | 3498 | 2841 | | 10.6 |
| | 280 | 261.6 | 4448 | 3742 | 3287 | 3089 | 2828 | 2716 | | 10.4 |
| | 315 | 316.4 | 4448 | 3742 | 3287 | 3089 | 2828 | 2716 | | 10.4 |
| 360 | 376.4 | 3232 | 2715 | 2389 | 2298 | 2099 | 2010 | 10.4 | | |
| PL0540 | 400 | 413.2 | 6028 | 5675 | 5595 | 5231 | 3556 | 2889 | 3500 | 8.4 |
| | 500 | 500.9 | 6028 | 5675 | 5595 | 5231 | 3556 | 2889 | | 8.4 |
| | 560 | 544.6 | 6028 | 5675 | 5595 | 5231 | 3556 | 2889 | | 8.4 |
| | 630 | 607.2 | 6028 | 5675 | 5595 | 5231 | 3556 | 2889 | | 8.4 |
| | 710 | 658.8 | 6028 | 5675 | 5595 | 5231 | 3556 | 2889 | | 8.3 |
| | 800 | 796.9 | 6028 | 5675 | 5595 | 5231 | 3556 | 2889 | | 8.2 |
| | 900 | 868.2 | 6028 | 5675 | 5595 | 5231 | 3556 | 2889 | | 8.2 |
| | 10C | 966.0 | 6028 | 5675 | 5595 | 5231 | 3556 | 2889 | | 8.0 |
| | 11C | 1050.2 | 6028 | 5675 | 5595 | 5231 | 3556 | 2889 | | 8.0 |
| | 12C | 1270.4 | 6028 | 5675 | 5595 | 5231 | 3556 | 2889 | | 7.9 |
| | 14C | 1536.8 | 6028 | 5675 | 5595 | 5231 | 3556 | 2889 | | 7.9 |
| | 16C | 1621.7 | 4448 | 3742 | 3287 | 3089 | 2828 | 2716 | | 7.9 |
| | 18C | 1840.9 | 5519 | 5139 | 4920 | 4442 | 3498 | 2841 | | 7.9 |
| | 20C | 1961.7 | 4448 | 3742 | 3287 | 3089 | 2828 | 2716 | | 7.9 |
| | 22C | 2373.0 | 4448 | 3742 | 3287 | 3089 | 2828 | 2716 | | 7.9 |
| | 25C | 2823.3 | 3232 | 2715 | 2389 | 2298 | 2099 | 2010 | | 7.9 |

SERIES P

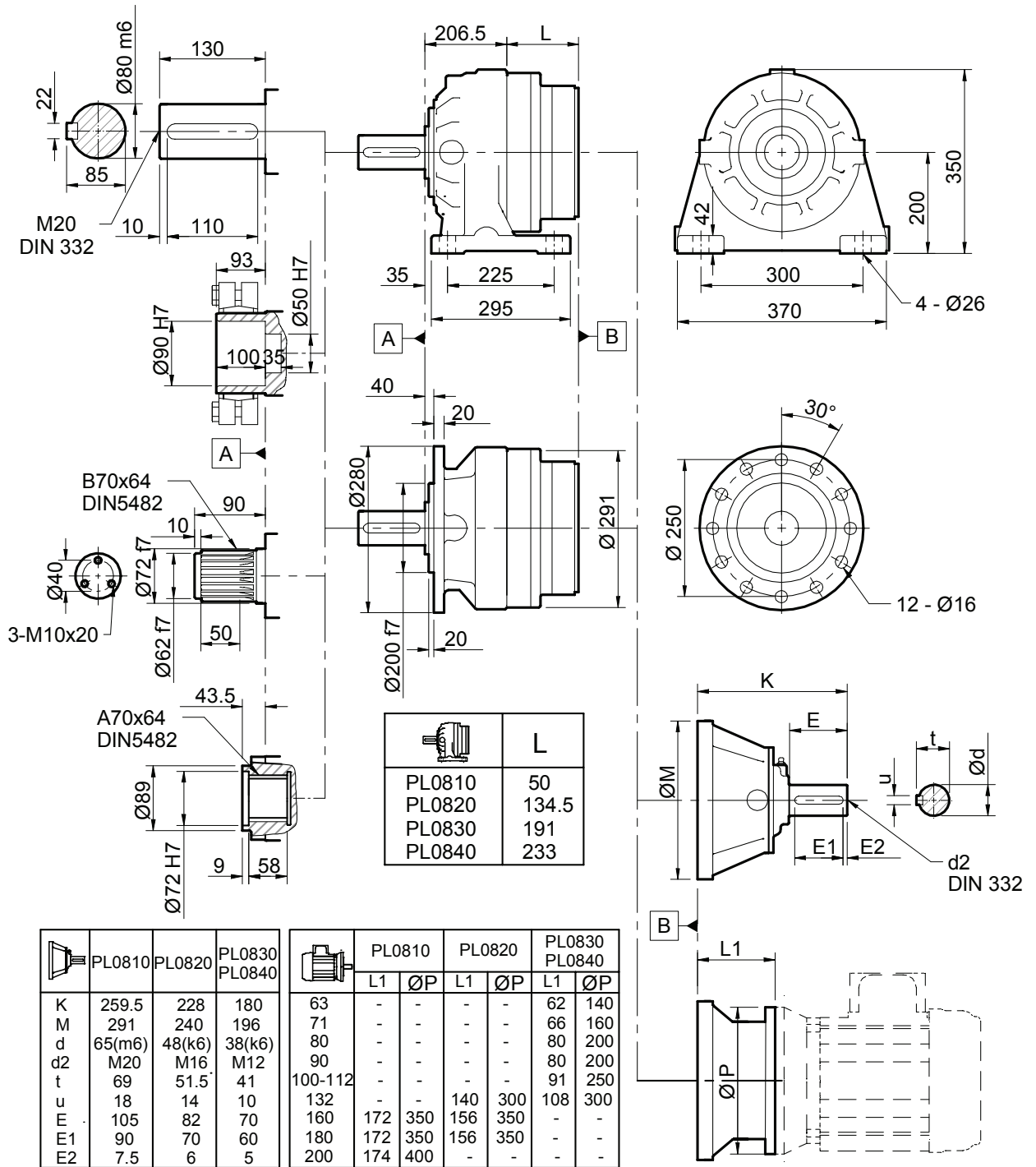
PL05



SERIES P

PL08

| SERIES P | Ratio iN | Ratio i | T2 (Nm) - n2*h rating | | | | | | n1 Max | Pt - kW |
|-------------|-------------|------------|-----------------------|--------|--------|---------|---------|-----------|-----------|------------|
| | | | 10,000 | 25,000 | 50,000 | 100,000 | 500,000 | 1,000,000 | | |
| PL0810 | 3.6 | 3.64 | 10669 | 10034 | 9889 | 9112 | 5622 | 4567 | 2500 | 44.4 |
| | 4.5 | 4.36 | 10055 | 9330 | 8295 | 7490 | 5502 | 4469 | | 44.4 |
| | 5.6 | 5.63 | 7742 | 6521 | 5734 | 5396 | 4949 | 4341 | | 42.4 |
| | 7.1 | 6.69 | 6389 | 5377 | 4740 | 4564 | 4180 | 4014 | | 36.0 |
| PL0820 | 14. | 13.27 | 10669 | 10034 | 9889 | 9112 | 5622 | 4567 | 2800 | 27.6 |
| | 16. | 15.90 | 10669 | 10034 | 9889 | 9112 | 5622 | 4567 | | 27.6 |
| | 20. | 19.04 | 10055 | 9330 | 8295 | 7490 | 5502 | 4469 | | 27.6 |
| | 22. | 20.49 | 10669 | 10034 | 9889 | 9112 | 5622 | 4567 | | 26.9 |
| | 25. | 24.38 | 10669 | 10034 | 9889 | 9112 | 5622 | 4567 | | 24.5 |
| | 28. | 29.20 | 10055 | 9330 | 8295 | 7490 | 5502 | 4469 | | 24.5 |
| | 32. | 31.64 | 7742 | 6521 | 5734 | 5396 | 4949 | 4341 | | 26.2 |
| | 36. | 37.64 | 7742 | 6521 | 5734 | 5396 | 4949 | 4341 | | 24.0 |
| PL0830 | 45. | 44.79 | 6389 | 5377 | 4740 | 4564 | 4180 | 4014 | 3500 | 22.1 |
| | 56. | 51.61 | 10669 | 10034 | 9889 | 9112 | 5622 | 4567 | | 18.8 |
| | 63. | 62.56 | 10669 | 10034 | 9889 | 9112 | 5622 | 4567 | | 18.8 |
| | 71. | 74.94 | 10669 | 10034 | 9889 | 9112 | 5622 | 4567 | | 18.8 |
| | 80. | 82.28 | 10669 | 10034 | 9889 | 9112 | 5622 | 4567 | | 18.5 |
| | 90. | 89.77 | 10055 | 9330 | 8295 | 7490 | 5502 | 4469 | | 18.4 |
| | 100 | 98.56 | 10669 | 10034 | 9889 | 9112 | 5622 | 4567 | | 18.0 |
| | 112 | 119.2 | 10669 | 10034 | 9889 | 9112 | 5622 | 4567 | | 18.0 |
| | 125 | 127.0 | 10669 | 10034 | 9889 | 9112 | 5622 | 4567 | | 18.0 |
| | 140 | 142.8 | 10055 | 9330 | 8295 | 7490 | 5502 | 4469 | | 17.6 |
| | 160 | 153.7 | 10669 | 10034 | 9889 | 9112 | 5622 | 4567 | | 17.6 |
| | 180 | 182.8 | 10669 | 10034 | 9889 | 9112 | 5622 | 4567 | | 17.3 |
| | 225 | 219.0 | 10055 | 9330 | 8295 | 7490 | 5502 | 4469 | | 17.3 |
| | 250 | 237.3 | 7742 | 6521 | 5734 | 5396 | 4949 | 4341 | | 16.9 |
| 280 | 282.3 | 7742 | 6521 | 5734 | 5396 | 4949 | 4341 | 16.9 | | |
| 360 | 335.9 | 6389 | 5377 | 4740 | 4564 | 4180 | 4014 | 16.9 | | |
| PL0840 | 400 | 387.1 | 10669 | 10034 | 9889 | 9112 | 5622 | 4567 | 3500 | 14.2 |
| | 450 | 469.2 | 10669 | 10034 | 9889 | 9112 | 5622 | 4567 | | 14.2 |
| | 500 | 510.1 | 10669 | 10034 | 9889 | 9112 | 5622 | 4567 | | 14.2 |
| | 560 | 562.0 | 10669 | 10034 | 9889 | 9112 | 5622 | 4567 | | 14.2 |
| | 630 | 617.1 | 10669 | 10034 | 9889 | 9112 | 5622 | 4567 | | 14.0 |
| | 710 | 746.5 | 10669 | 10034 | 9889 | 9112 | 5622 | 4567 | | 13.8 |
| | 800 | 787.7 | 10669 | 10034 | 9889 | 9112 | 5622 | 4567 | | 13.8 |
| | 900 | 894.2 | 10669 | 10034 | 9889 | 9112 | 5622 | 4567 | | 13.6 |
| | 10C | 952.8 | 10669 | 10034 | 9889 | 9112 | 5622 | 4567 | | 13.6 |
| | 11C | 1152.6 | 10669 | 10034 | 9889 | 9112 | 5622 | 4567 | | 13.4 |
| | 12C | 1371.3 | 10669 | 10034 | 9889 | 9112 | 5622 | 4567 | | 13.4 |
| | 14C | 1471.3 | 7742 | 6521 | 5734 | 5396 | 4949 | 4341 | | 13.4 |
| | 16C | 1642.7 | 10055 | 9330 | 8295 | 7490 | 5502 | 4469 | | 13.4 |
| | 18C | 1779.8 | 7742 | 6521 | 5734 | 5396 | 4949 | 4341 | | 13.4 |
| | 20C | 2117.5 | 7742 | 6521 | 5734 | 5396 | 4949 | 4341 | | 13.4 |
| | 25C | 2519.3 | 6389 | 5377 | 4740 | 4564 | 4180 | 4014 | | 13.4 |



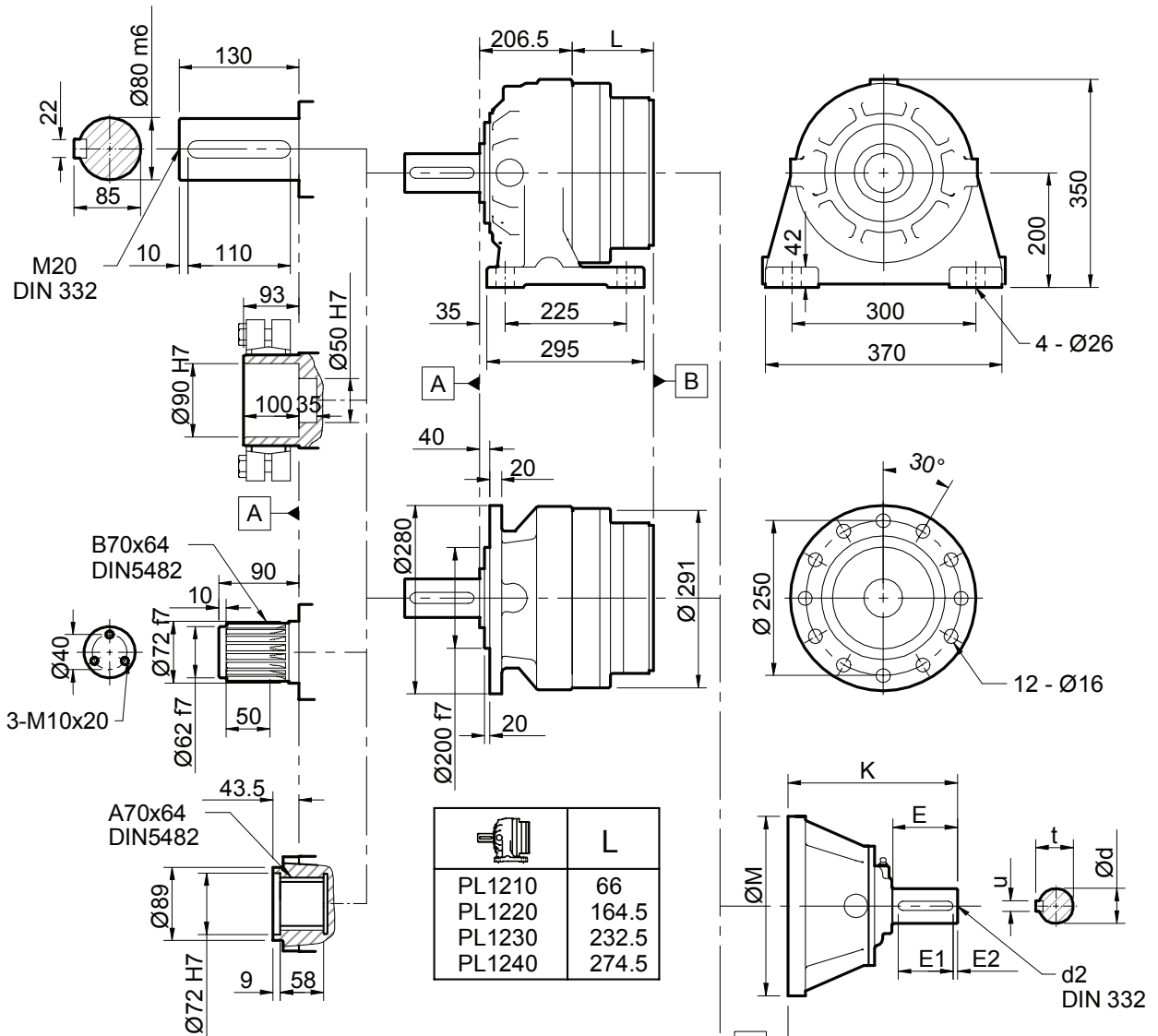
SERIES P

PL12

| SERIES P | Ratio IN | Ratio i | T2 (Nm) - n2*h rating | | | | | | n1 Max | Pt - kW |
|-------------|-------------|------------|-----------------------|--------|--------|---------|---------|-----------|-----------|------------|
| | | | 10,000 | 25,000 | 50,000 | 100,000 | 500,000 | 1,000,000 | | |
| PL1210 | 3.6 | 3.64 | 14202 | 13356 | 13168 | 11277 | 6958 | 5652 | 2500 | 46.3 |
| | 4.5 | 4.36 | 13385 | 12420 | 11064 | 9996 | 6813 | 5534 | | 46.3 |
| | 5.6 | 5.63 | 10324 | 8700 | 7655 | 7196 | 6597 | 5375 | | 44.1 |
| | 7.1 | 6.69 | 8519 | 7170 | 6323 | 6084 | 5573 | 5325 | | 37.5 |
| PL1220 | 14. | 13.27 | 14202 | 13356 | 13168 | 11277 | 6958 | 5652 | 2800 | 29.1 |
| | 16. | 15.90 | 14202 | 13356 | 13168 | 11277 | 6958 | 5652 | | 29.1 |
| | 20. | 19.04 | 13385 | 12420 | 11064 | 9996 | 6813 | 5534 | | 29.1 |
| | 22. | 20.49 | 14202 | 13356 | 13168 | 11277 | 6958 | 5652 | | 28.4 |
| | 25. | 24.38 | 14202 | 13356 | 13168 | 11277 | 6958 | 5652 | | 25.9 |
| | 28. | 29.20 | 13385 | 12420 | 11064 | 9996 | 6813 | 5534 | | 25.9 |
| | 32. | 31.64 | 10324 | 8700 | 7655 | 7196 | 6597 | 5375 | | 27.7 |
| | 36. | 37.64 | 10324 | 8700 | 7655 | 7196 | 6597 | 5375 | | 25.3 |
| PL1230 | 45. | 44.79 | 8519 | 7170 | 6323 | 6084 | 5573 | 5325 | 3500 | 23.4 |
| | 56. | 51.61 | 14202 | 13356 | 13168 | 11277 | 6958 | 5652 | | 20.5 |
| | 63. | 62.56 | 14202 | 13356 | 13168 | 11277 | 6958 | 5652 | | 20.5 |
| | 71. | 74.94 | 14202 | 13356 | 13168 | 11277 | 6958 | 5652 | | 20.5 |
| | 80. | 82.28 | 14202 | 13356 | 13168 | 11277 | 6958 | 5652 | | 20.2 |
| | 90. | 89.77 | 13385 | 12420 | 11064 | 9996 | 6813 | 5534 | | 20.0 |
| | 100 | 98.56 | 14202 | 13356 | 13168 | 11277 | 6958 | 5652 | | 19.6 |
| | 112 | 119.2 | 14202 | 13356 | 13168 | 11277 | 6958 | 5652 | | 19.6 |
| | 125 | 127.0 | 14202 | 13356 | 13168 | 11277 | 6958 | 5652 | | 19.6 |
| | 140 | 142.8 | 13385 | 12420 | 11064 | 9996 | 6813 | 5534 | | 19.2 |
| | 160 | 153.7 | 14202 | 13356 | 13168 | 11277 | 6958 | 5652 | | 19.2 |
| | 180 | 182.8 | 14202 | 13356 | 13168 | 11277 | 6958 | 5652 | | 18.8 |
| | 225 | 219.0 | 13385 | 12420 | 11064 | 9996 | 6813 | 5534 | | 18.8 |
| 250 | 237.3 | 10324 | 8700 | 7655 | 7196 | 6597 | 5375 | 18.4 | | |
| 280 | 282.3 | 10324 | 8700 | 7655 | 7196 | 6597 | 5375 | 18.4 | | |
| 360 | 335.9 | 8519 | 7170 | 6323 | 6084 | 5573 | 5325 | 18.4 | | |
| PL1240 | 400 | 387.1 | 14202 | 13356 | 13168 | 11277 | 6958 | 5652 | 3500 | 15.5 |
| | 450 | 469.2 | 14202 | 13356 | 13168 | 11277 | 6958 | 5652 | | 15.5 |
| | 500 | 510.1 | 14202 | 13356 | 13168 | 11277 | 6958 | 5652 | | 15.5 |
| | 560 | 562.0 | 14202 | 13356 | 13168 | 11277 | 6958 | 5652 | | 15.5 |
| | 630 | 617.1 | 14202 | 13356 | 13168 | 11277 | 6958 | 5652 | | 15.3 |
| | 710 | 746.5 | 14202 | 13356 | 13168 | 11277 | 6958 | 5652 | | 15.0 |
| | 800 | 787.7 | 14202 | 13356 | 13168 | 11277 | 6958 | 5652 | | 15.0 |
| | 900 | 894.2 | 14202 | 13356 | 13168 | 11277 | 6958 | 5652 | | 14.8 |
| | 10C | 952.8 | 14202 | 13356 | 13168 | 11277 | 6958 | 5652 | | 14.8 |
| | 11C | 1152.6 | 14202 | 13356 | 13168 | 11277 | 6958 | 5652 | | 14.6 |
| | 12C | 1371.3 | 14202 | 13356 | 13168 | 11277 | 6958 | 5652 | | 14.6 |
| | 14C | 1471.3 | 10324 | 8700 | 7655 | 7196 | 6597 | 5375 | | 14.6 |
| | 16C | 1642.7 | 13385 | 12420 | 11064 | 9996 | 6813 | 5534 | | 14.6 |
| | 18C | 1779.8 | 10324 | 8700 | 7655 | 7196 | 6597 | 5375 | | 14.6 |
| | 20C | 2117.5 | 10324 | 8700 | 7655 | 7196 | 6597 | 5375 | | 14.6 |
| | 25C | 2519.3 | 8519 | 7170 | 6323 | 6084 | 5573 | 5325 | | 14.6 |

SERIES P

PL12

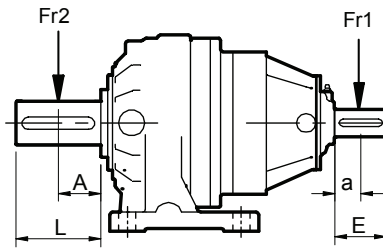


| | Terminal Box | | | Motor Body | PL1210 | | PL1220 | | PL1230 PL1240 | |
|----|--------------|--------|------------------|------------|--------|-----|--------|-----|------------------|-----|
| | PL1210 | PL1220 | PL1230 PL1240 | | L1 | ØP | L1 | ØP | L1 | ØP |
| K | 259.5 | 228 | 180 | 63 | - | - | - | - | 62 | 140 |
| M | 291 | 240 | 196 | 71 | - | - | - | - | 66 | 160 |
| d | 65(m6) | 48(k6) | 38(k6) | 80 | - | - | - | - | 80 | 200 |
| d2 | M20 | M16 | M12 | 90 | - | - | - | - | 80 | 200 |
| t | 69 | 51.5 | 41 | 100-112 | - | - | - | - | 91 | 250 |
| u | 18 | 14 | 10 | 132 | - | 140 | 300 | 108 | 300 | |
| E | 105 | 82 | 70 | 160 | 172 | 350 | 156 | 350 | - | - |
| E1 | 90 | 70 | 60 | 180 | 172 | 350 | 156 | 350 | - | - |
| E2 | 7.5 | 6 | 5 | 200 | 174 | 400 | - | - | - | - |

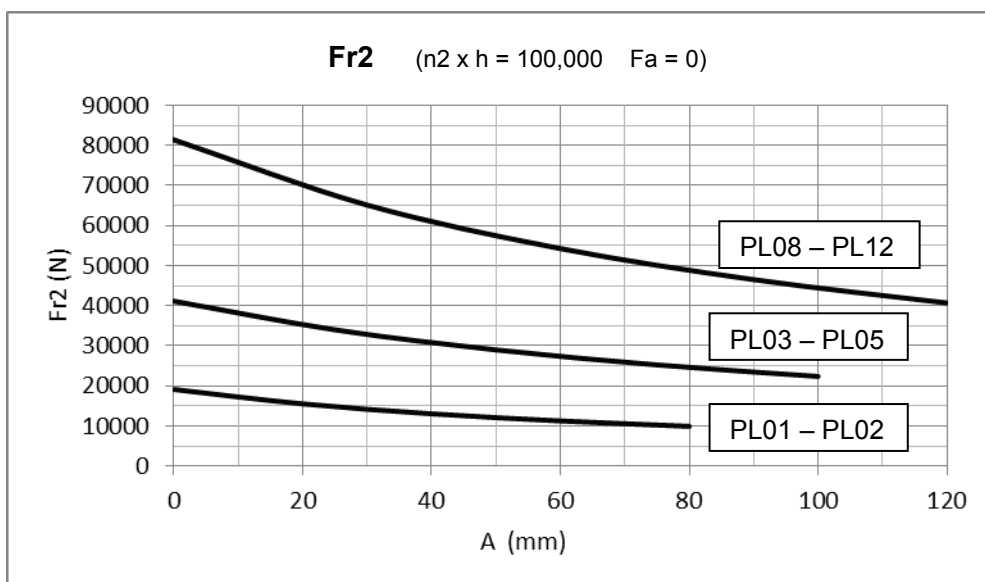
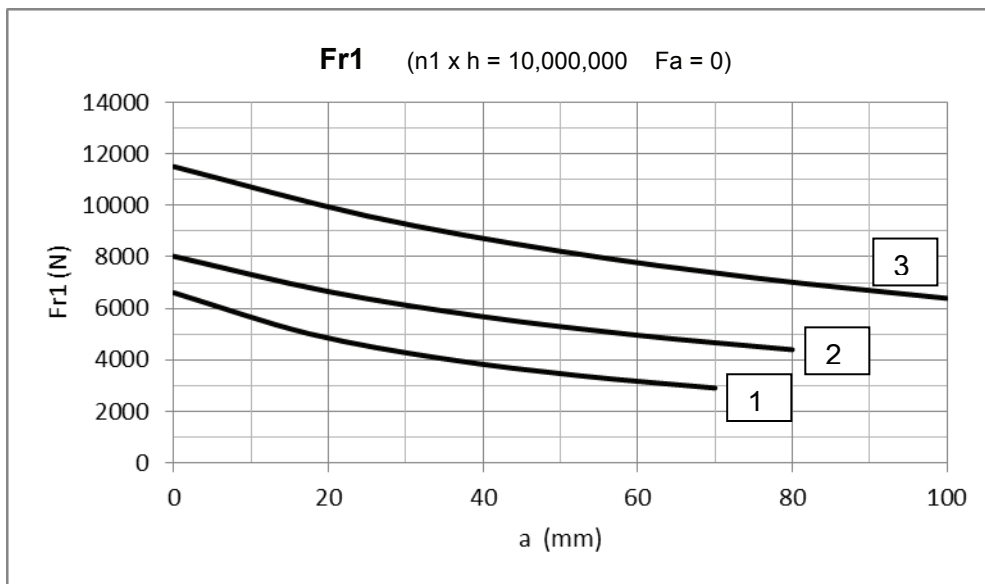
SERIES P

OVERHUNG LOADS

| | L |
|-------------|-----|
| PL01 - PL02 | 82 |
| PL03 - PL05 | 105 |
| PL08 - PL12 | 130 |



| | E |
|--|-----|
| 1 PL0110 - PL0210 PL0120 - PL0220 PL0130 - PL0230 PL0140 - PL0240 PL0320 - PL0520 PL0330 - PL0530 PL0340 - PL0540 PL0830 - PL1230 PL0840 - PL1240 | 70 |
| 2 PL0310 - PL0510 PL0820 - PL1220 | 82 |
| 3 PL0810 - PL1210 | 105 |



SERIES P

MOTORISED RATINGS

| | n2 | Ratio i | M2 (Nm) | fm | Fr2 (N) | Unit Designation | | | | | Motor Frame | Pt (kW) |
|----------------|---------------|------------|------------|------|---------|------------------|--------|---------|---------|-----|----------------|------------|
| 0.12 kW | 5.0 | 288.30 | 219 | 2.88 | 13000 | PL0130 | 280 | - M --- | .12 | A | 63 | 5.6 |
| | 4.2 | 348.75 | 265 | 2.38 | 13000 | PL0130 | 360 | - M --- | .12 | A | 63 | 5.6 |
| | 4-pole | 3.4 | 421.88 | 320 | 1.45 | 13000 | PL0130 | 400 | - M --- | .12 | A | 63 |
| | 3.3 | 441.10 | 331 | 3.35 | 13000 | PL0140 | 450 | - M --- | .12 | A | 63 | 4.6 |
| | 2.7 | 534.72 | 401 | 2.76 | 13000 | PL0140 | 500 | - M --- | .12 | A | 63 | 4.6 |
| | 2.5 | 581.35 | 436 | 2.54 | 13000 | PL0140 | 560 | - M --- | .12 | A | 63 | 4.6 |
| | 2.2 | 648.21 | 487 | 2.28 | 13000 | PL0140 | 630 | - M --- | .12 | A | 63 | 4.6 |
| | 2.1 | 703.24 | 528 | 2.10 | 13000 | PL0140 | 710 | - M --- | .12 | A | 63 | 4.5 |
| | 1.7 | 850.69 | 639 | 1.74 | 13000 | PL0140 | 800 | - M --- | .12 | A | 63 | 4.5 |
| | 1.6 | 926.83 | 696 | 1.60 | 13000 | PL0140 | 900 | - M --- | .12 | A | 63 | 4.5 |
| | 1.4 | 1031.25 | 774 | 1.43 | 13000 | PL0140 | 10C | - M --- | .12 | A | 63 | 4.4 |
| | 1.3 | 1121.17 | 842 | 1.32 | 13000 | PL0140 | 11C | - M --- | .12 | A | 63 | 4.4 |
| | 1.1 | 1356.25 | 1018 | 1.09 | 13000 | PL0140 | 14C | - M --- | .12 | A | 63 | 4.3 |
| | 0.88 | 1640.63 | 1232 | 0.90 | 13000 | PL0140 | 16C | - M --- | .12 | A | 63 | 4.3 |
| | 2.1 | 703.24 | 528 | 3.88 | 13000 | PL0240 | 710 | - M --- | .12 | A | 63 | 4.8 |
| | 1.7 | 850.69 | 639 | 3.21 | 13000 | PL0240 | 800 | - M --- | .12 | A | 63 | 4.7 |
| | 1.6 | 926.83 | 696 | 2.95 | 13000 | PL0240 | 900 | - M --- | .12 | A | 63 | 4.6 |
| | 1.4 | 1031.25 | 774 | 2.65 | 13000 | PL0240 | 10C | - M --- | .12 | A | 63 | 4.6 |
| | 1.3 | 1121.17 | 842 | 2.44 | 13000 | PL0240 | 11C | - M --- | .12 | A | 63 | 4.5 |
| | 1.1 | 1356.25 | 1018 | 2.01 | 13000 | PL0240 | 14C | - M --- | .12 | A | 63 | 4.5 |
| | 0.88 | 1640.63 | 1232 | 1.66 | 13000 | PL0240 | 16C | - M --- | .12 | A | 63 | 4.5 |
| | 0.81 | 1787.46 | 1342 | 0.87 | 13000 | PL0240 | 18C | - M --- | .12 | A | 63 | 4.5 |
| | 0.73 | 1988.84 | 1493 | 1.11 | 13000 | PL0240 | 20C | - M --- | .12 | A | 63 | 4.5 |
| | 1.1 | 1270.45 | 967 | 3.52 | 28500 | PL0340 | 11C | - M --- | .12 | A | 63 | 7.7 |
| | 0.93 | 1536.83 | 1170 | 2.91 | 28500 | PL0340 | 12C | - M --- | .12 | A | 63 | 7.6 |
| | 0.88 | 1621.69 | 1235 | 1.63 | 28500 | PL0340 | 14C | - M --- | .12 | A | 63 | 7.6 |
| | 0.78 | 1840.91 | 1402 | 2.06 | 28500 | PL0340 | 16C | - M --- | .12 | A | 63 | 7.6 |
| | 0.73 | 1961.72 | 1494 | 1.34 | 28500 | PL0340 | 18C | - M --- | .12 | A | 63 | 7.6 |
| | 0.60 | 2373.05 | 1807 | 1.11 | 28500 | PL0340 | 20C | - M --- | .12 | A | 63 | 7.6 |
| | 0.78 | 1840.91 | 1402 | 3.17 | 28500 | PL0540 | 16C | - M --- | .12 | A | 63 | 7.9 |
| | 0.73 | 1961.72 | 1494 | 2.07 | 28500 | PL0540 | 18C | - M --- | .12 | A | 63 | 7.9 |
| | 0.60 | 2373.05 | 1807 | 1.71 | 28500 | PL0540 | 20C | - M --- | .12 | A | 63 | 7.9 |
| | 0.51 | 2823.32 | 2149 | 1.07 | 28500 | PL0540 | 22C | - M --- | .12 | A | 63 | 7.9 |
| | 0.87 | 1642.66 | 1251 | 5.99 | 41000 | PL0840 | 16C | - M --- | .12 | A | 63 | 13.4 |
| | 0.80 | 1779.79 | 1355 | 3.98 | 41000 | PL0840 | 18C | - M --- | .12 | A | 63 | 13.4 |
| | 0.68 | 2117.49 | 1612 | 3.35 | 41000 | PL0840 | 20C | - M --- | .12 | A | 63 | 13.4 |
| | 0.57 | 2519.27 | 1918 | 2.38 | 41000 | PL0840 | 25C | - M --- | .12 | A | 63 | 13.4 |
| | 0.57 | 2519.27 | 1918 | 3.17 | 41000 | PL1240 | 25C | - M --- | .12 | A | 63 | 15.5 |
| 0.18 kW | 5.5 | 265.18 | 302 | 2.98 | 13000 | PL0130 | 250 | - M --- | .18 | A | 63 | 5.7 |
| | 5.0 | 288.30 | 328 | 1.92 | 13000 | PL0130 | 280 | - M --- | .18 | A | 63 | 5.6 |
| | 4-pole | 4.2 | 348.75 | 397 | 1.58 | 13000 | PL0130 | 360 | - M --- | .18 | A | 63 |
| | 3.4 | 421.88 | 480 | 0.97 | 13000 | PL0130 | 400 | - M --- | .18 | A | 63 | 5.6 |
| | 3.3 | 441.10 | 497 | 2.23 | 13000 | PL0140 | 450 | - M --- | .18 | A | 63 | 4.6 |
| | 2.7 | 534.72 | 602 | 1.84 | 13000 | PL0140 | 500 | - M --- | .18 | A | 63 | 4.6 |
| | 2.5 | 581.35 | 655 | 1.70 | 13000 | PL0140 | 560 | - M --- | .18 | A | 63 | 4.6 |
| | 2.2 | 648.21 | 730 | 1.52 | 13000 | PL0140 | 630 | - M --- | .18 | A | 63 | 4.6 |
| | 2.1 | 703.24 | 792 | 1.40 | 13000 | PL0140 | 710 | - M --- | .18 | A | 63 | 4.5 |
| | 1.7 | 850.69 | 958 | 1.16 | 13000 | PL0140 | 800 | - M --- | .18 | A | 63 | 4.5 |
| | 1.6 | 926.83 | 1044 | 1.06 | 13000 | PL0140 | 900 | - M --- | .18 | A | 63 | 4.5 |
| | 1.4 | 1031.25 | 1161 | 0.96 | 13000 | PL0140 | 10C | - M --- | .18 | A | 63 | 4.4 |
| | 1.3 | 1121.17 | 1263 | 0.88 | 13000 | PL0140 | 11C | - M --- | .18 | A | 63 | 4.4 |
| | 5.0 | 288.30 | 328 | 3.54 | 13000 | PL0230 | 280 | - M --- | .18 | A | 63 | 5.8 |
| | 4.2 | 348.75 | 397 | 2.93 | 13000 | PL0230 | 360 | - M --- | .18 | A | 63 | 5.8 |
| | 3.4 | 421.88 | 480 | 1.78 | 13000 | PL0230 | 400 | - M --- | .18 | A | 63 | 5.8 |
| | 2.7 | 534.72 | 602 | 3.40 | 13000 | PL0240 | 500 | - M --- | .18 | A | 63 | 4.8 |
| | 2.5 | 581.35 | 655 | 3.13 | 13000 | PL0240 | 560 | - M --- | .18 | A | 63 | 4.8 |
| | 2.2 | 648.21 | 730 | 2.81 | 13000 | PL0240 | 630 | - M --- | .18 | A | 63 | 4.8 |
| | 2.1 | 703.24 | 792 | 2.59 | 13000 | PL0240 | 710 | - M --- | .18 | A | 63 | 4.8 |

SERIES P

MOTORISED RATINGS

| | n2 | Ratio i | M2 (Nm) | fm | Fr2 (N) | Unit Designation | | | | | Motor Frame | Pt (kW) |
|----------------|------|------------|------------|------|---------|------------------|-----|---------|-----|---|----------------|------------|
| 0.18 kW | 1.7 | 850.69 | 958 | 2.14 | 13000 | PL0240 | 800 | - M --- | .18 | A | 63 | 4.7 |
| | 1.6 | 926.83 | 1044 | 1.96 | 13000 | PL0240 | 900 | - M --- | .18 | A | 63 | 4.6 |
| 4-pole | 1.4 | 1031.25 | 1161 | 1.77 | 13000 | PL0240 | 10C | - M --- | .18 | A | 63 | 4.6 |
| | 1.3 | 1121.17 | 1263 | 1.62 | 13000 | PL0240 | 11C | - M --- | .18 | A | 63 | 4.5 |
| | 1.1 | 1356.25 | 1527 | 1.34 | 13000 | PL0240 | 14C | - M --- | .18 | A | 63 | 4.5 |
| | 0.88 | 1640.63 | 1848 | 1.11 | 13000 | PL0240 | 16C | - M --- | .18 | A | 63 | 4.5 |
| | 1.6 | 868.19 | 991 | 3.43 | 28500 | PL0340 | 900 | - M --- | .18 | A | 63 | 7.8 |
| | 1.5 | 966.01 | 1103 | 3.08 | 28500 | PL0340 | 10C | - M --- | .18 | A | 63 | 7.7 |
| | 1.4 | 1050.24 | 1199 | 2.83 | 28500 | PL0340 | 11C | - M --- | .18 | A | 63 | 7.7 |
| | 1.1 | 1270.45 | 1451 | 2.34 | 28500 | PL0340 | 12C | - M --- | .18 | A | 63 | 7.6 |
| | 0.93 | 1536.83 | 1755 | 1.94 | 28500 | PL0340 | 14C | - M --- | .18 | A | 63 | 7.6 |
| | 0.88 | 1621.69 | 1852 | 1.08 | 28500 | PL0340 | 16C | - M --- | .18 | A | 63 | 7.6 |
| | 0.78 | 1840.91 | 2102 | 1.37 | 28500 | PL0340 | 18C | - M --- | .18 | A | 63 | 7.6 |
| | 0.73 | 1961.72 | 2240 | 0.90 | 28500 | PL0340 | 20C | - M --- | .18 | A | 63 | 7.6 |
| | 1.1 | 1270.45 | 1451 | 3.61 | 28500 | PL0540 | 12C | - M --- | .18 | A | 63 | 7.9 |
| | 0.93 | 1536.83 | 1755 | 2.98 | 28500 | PL0540 | 14C | - M --- | .18 | A | 63 | 7.9 |
| | 0.88 | 1621.69 | 1852 | 1.67 | 28500 | PL0540 | 16C | - M --- | .18 | A | 63 | 7.9 |
| | 0.78 | 1840.91 | 2102 | 2.11 | 28500 | PL0540 | 18C | - M --- | .18 | A | 63 | 7.9 |
| | 0.73 | 1961.72 | 2240 | 1.38 | 28500 | PL0540 | 20C | - M --- | .18 | A | 63 | 7.9 |
| | 0.60 | 2373.05 | 2710 | 1.14 | 28500 | PL0540 | 22C | - M --- | .18 | A | 63 | 7.9 |
| | 0.87 | 1642.66 | 1876 | 3.99 | 41000 | PL0840 | 16C | - M --- | .18 | A | 63 | 13.4 |
| | 0.80 | 1779.79 | 2033 | 2.65 | 41000 | PL0840 | 18C | - M --- | .18 | A | 63 | 13.4 |
| | 0.68 | 2117.49 | 2418 | 2.23 | 41000 | PL0840 | 20C | - M --- | .18 | A | 63 | 13.4 |
| | 0.57 | 2519.27 | 2877 | 1.59 | 41000 | PL0840 | 25C | - M --- | .18 | A | 63 | 13.4 |
| | 0.68 | 2117.49 | 2418 | 2.98 | 41000 | PL1240 | 20C | - M --- | .18 | A | 63 | 14.6 |
| | 0.57 | 2519.27 | 2877 | 2.11 | 41000 | PL1240 | 25C | - M --- | .18 | A | 63 | 14.6 |
| 0.25 kW | 8.7 | 166.68 | 263 | 3.42 | 13000 | PL0130 | 160 | - M --- | .25 | A | 71 | 5.8 |
| | 8.0 | 180.83 | 286 | 3.88 | 13000 | PL0130 | 180 | - M --- | .25 | A | 71 | 5.8 |
| 4-pole | 6.6 | 218.75 | 346 | 3.21 | 13000 | PL0130 | 225 | - M --- | .25 | A | 71 | 5.7 |
| | 5.5 | 265.18 | 419 | 2.15 | 13000 | PL0130 | 250 | - M --- | .25 | A | 71 | 5.7 |
| | 5.0 | 288.30 | 456 | 1.38 | 13000 | PL0130 | 280 | - M --- | .25 | A | 71 | 5.6 |
| | 4.2 | 348.75 | 551 | 1.14 | 13000 | PL0130 | 360 | - M --- | .25 | A | 71 | 5.6 |
| | 3.3 | 441.10 | 690 | 1.61 | 13000 | PL0140 | 450 | - M --- | .25 | A | 71 | 4.6 |
| | 2.7 | 534.72 | 836 | 1.33 | 13000 | PL0140 | 500 | - M --- | .25 | A | 71 | 4.6 |
| | 2.5 | 581.35 | 909 | 1.22 | 13000 | PL0140 | 560 | - M --- | .25 | A | 71 | 4.6 |
| | 2.2 | 648.21 | 1014 | 1.09 | 13000 | PL0140 | 630 | - M --- | .25 | A | 71 | 4.6 |
| | 5.5 | 265.18 | 419 | 3.96 | 13000 | PL0230 | 250 | - M --- | .25 | A | 71 | 5.9 |
| | 5.0 | 288.30 | 456 | 2.55 | 13000 | PL0230 | 280 | - M --- | .25 | A | 71 | 5.8 |
| | 4.2 | 348.75 | 551 | 2.11 | 13000 | PL0230 | 360 | - M --- | .25 | A | 71 | 5.8 |
| | 3.4 | 421.88 | 667 | 1.28 | 13000 | PL0230 | 400 | - M --- | .25 | A | 71 | 5.8 |
| | 3.3 | 441.10 | 690 | 2.97 | 13000 | PL0240 | 450 | - M --- | .25 | A | 71 | 4.8 |
| | 2.7 | 534.72 | 836 | 2.45 | 13000 | PL0240 | 500 | - M --- | .25 | A | 71 | 4.8 |
| | 2.5 | 581.35 | 909 | 2.25 | 13000 | PL0240 | 560 | - M --- | .25 | A | 71 | 4.8 |
| | 2.2 | 648.21 | 1014 | 2.02 | 13000 | PL0240 | 630 | - M --- | .25 | A | 71 | 4.8 |
| | 2.1 | 703.24 | 1100 | 1.86 | 13000 | PL0240 | 710 | - M --- | .25 | A | 71 | 4.7 |
| | 1.7 | 850.69 | 1331 | 1.54 | 13000 | PL0240 | 800 | - M --- | .25 | A | 71 | 4.6 |
| | 1.6 | 926.83 | 1450 | 1.41 | 13000 | PL0240 | 900 | - M --- | .25 | A | 71 | 4.6 |
| | 1.4 | 1031.25 | 1613 | 1.27 | 13000 | PL0240 | 10C | - M --- | .25 | A | 71 | 4.5 |
| | 1.3 | 1121.17 | 1754 | 1.17 | 13000 | PL0240 | 11C | - M --- | .25 | A | 71 | 4.5 |
| | 1.1 | 1356.25 | 2121 | 0.97 | 13000 | PL0240 | 14C | - M --- | .25 | A | 71 | 4.5 |
| | 0.88 | 1640.63 | 2566 | 0.80 | 13000 | PL0240 | 16C | - M --- | .25 | A | 71 | 4.5 |
| | 4.5 | 316.41 | 507 | 3.96 | 28500 | PL0330 | 315 | - M --- | .25 | A | 71 | 10.0 |
| | 3.8 | 376.44 | 603 | 2.48 | 28500 | PL0330 | 360 | - M --- | .25 | A | 71 | 10.0 |
| | 2.4 | 607.20 | 963 | 3.53 | 28500 | PL0340 | 630 | - M --- | .25 | A | 71 | 8.1 |
| | 2.2 | 658.75 | 1045 | 3.25 | 28500 | PL0340 | 710 | - M --- | .25 | A | 71 | 8.0 |
| | 1.8 | 796.88 | 1264 | 2.69 | 28500 | PL0340 | 800 | - M --- | .25 | A | 71 | 7.8 |
| | 1.6 | 868.19 | 1377 | 2.47 | 28500 | PL0340 | 900 | - M --- | .25 | A | 71 | 7.8 |
| | 1.5 | 966.01 | 1532 | 2.22 | 28500 | PL0340 | 10C | - M --- | .25 | A | 71 | 7.7 |
| | 1.4 | 1050.24 | 1666 | 2.04 | 28500 | PL0340 | 11C | - M --- | .25 | A | 71 | 7.7 |
| | 1.1 | 1270.45 | 2015 | 1.69 | 28500 | PL0340 | 12C | - M --- | .25 | A | 71 | 7.6 |
| | 0.93 | 1536.83 | 2438 | 1.39 | 28500 | PL0340 | 14C | - M --- | .25 | A | 71 | 7.6 |
| | 0.88 | 1621.69 | 2572 | 0.78 | 28500 | PL0340 | 16C | - M --- | .25 | A | 71 | 7.6 |

SERIES P

MOTORISED RATINGS

| | n2 | Ratio i | M2 (Nm) | fm | Fr2 (N) | Unit Designation | | | | | Motor Frame | Pt (kW) |
|----------------|------|------------|------------|------|---------|------------------|-----|-----------|-----|---|----------------|------------|
| 0.25 kW | 1.6 | 868.19 | 1377 | 3.80 | 28500 | PL0540 | 900 | - M - - - | .25 | A | 71 | 8.4 |
| | 1.5 | 966.01 | 1532 | 3.41 | 28500 | PL0540 | 10C | - M - - - | .25 | A | 71 | 8.3 |
| 4-pole | 1.4 | 1050.24 | 1666 | 3.14 | 28500 | PL0540 | 11C | - M - - - | .25 | A | 71 | 8.2 |
| | 1.1 | 1270.45 | 2015 | 2.60 | 28500 | PL0540 | 12C | - M - - - | .25 | A | 71 | 8.2 |
| | 0.93 | 1536.83 | 2438 | 2.15 | 28500 | PL0540 | 14C | - M - - - | .25 | A | 71 | 8.0 |
| | 0.88 | 1621.69 | 2572 | 1.20 | 28500 | PL0540 | 16C | - M - - - | .25 | A | 71 | 8.0 |
| | 0.78 | 1840.91 | 2920 | 1.52 | 28500 | PL0540 | 18C | - M - - - | .25 | A | 71 | 7.9 |
| | 0.73 | 1961.72 | 3111 | 0.99 | 28500 | PL0540 | 20C | - M - - - | .25 | A | 71 | 7.9 |
| | 0.60 | 2373.05 | 3764 | 0.82 | 28500 | PL0540 | 22C | - M - - - | .25 | A | 71 | 7.9 |
| | 1.0 | 1371.33 | 2175 | 4.19 | 41000 | PL0840 | 12C | - M - - - | .25 | A | 71 | 13.4 |
| | 0.97 | 1471.29 | 2334 | 2.31 | 41000 | PL0840 | 14C | - M - - - | .25 | A | 71 | 13.4 |
| | 0.87 | 1642.66 | 2605 | 2.87 | 41000 | PL0840 | 16C | - M - - - | .25 | A | 71 | 13.4 |
| | 0.80 | 1779.79 | 2823 | 1.91 | 41000 | PL0840 | 18C | - M - - - | .25 | A | 71 | 13.4 |
| | 0.68 | 2117.49 | 3359 | 1.61 | 41000 | PL0840 | 20C | - M - - - | .25 | A | 71 | 13.4 |
| | 0.57 | 2519.27 | 3996 | 1.14 | 41000 | PL0840 | 25C | - M - - - | .25 | A | 71 | 13.4 |
| | 0.87 | 1642.66 | 2605 | 3.84 | 41000 | PL1240 | 16C | - M - - - | .25 | A | 71 | 14.6 |
| | 0.80 | 1779.79 | 2823 | 2.55 | 41000 | PL1240 | 18C | - M - - - | .25 | A | 71 | 14.6 |
| | 0.68 | 2117.49 | 3359 | 2.14 | 41000 | PL1240 | 20C | - M - - - | .25 | A | 71 | 14.6 |
| | 0.57 | 2519.27 | 3996 | 1.52 | 41000 | PL1240 | 25C | - M - - - | .25 | A | 71 | 14.6 |
| 0.37 kW | 13.8 | 104.77 | 245 | 3.67 | 13000 | PL0130 | 100 | - M - - - | .37 | A | 71 | 6.1 |
| | 12.8 | 113.43 | 265 | 4.18 | 13000 | PL0130 | 112 | - M - - - | .37 | A | 71 | 6.0 |
| 4-pole | 10.5 | 137.50 | 322 | 3.45 | 13000 | PL0130 | 125 | - M - - - | .37 | A | 71 | 6.0 |
| | 9.7 | 149.49 | 350 | 3.17 | 13000 | PL0130 | 140 | - M - - - | .37 | A | 71 | 6.0 |
| | 8.7 | 166.68 | 390 | 2.31 | 13000 | PL0130 | 160 | - M - - - | .37 | A | 71 | 5.8 |
| | 8.0 | 180.83 | 423 | 2.62 | 13000 | PL0130 | 180 | - M - - - | .37 | A | 71 | 5.8 |
| | 6.6 | 218.75 | 512 | 2.17 | 13000 | PL0130 | 225 | - M - - - | .37 | A | 71 | 5.7 |
| | 5.5 | 265.18 | 620 | 1.45 | 13000 | PL0130 | 250 | - M - - - | .37 | A | 71 | 5.7 |
| | 5.0 | 288.30 | 674 | 0.93 | 13000 | PL0130 | 280 | - M - - - | .37 | A | 71 | 5.6 |
| | 6.6 | 218.75 | 512 | 4.01 | 13000 | PL0230 | 225 | - M - - - | .37 | A | 71 | 5.9 |
| | 5.5 | 265.18 | 620 | 2.68 | 13000 | PL0230 | 250 | - M - - - | .37 | A | 71 | 5.9 |
| | 5.0 | 288.30 | 674 | 1.72 | 13000 | PL0230 | 280 | - M - - - | .37 | A | 71 | 5.8 |
| | 4.2 | 348.75 | 816 | 1.42 | 13000 | PL0230 | 360 | - M - - - | .37 | A | 71 | 5.8 |
| | 3.4 | 421.88 | 987 | 0.87 | 13000 | PL0230 | 400 | - M - - - | .37 | A | 71 | 5.8 |
| | 3.3 | 441.10 | 1021 | 2.01 | 13000 | PL0240 | 450 | - M - - - | .37 | A | 71 | 4.8 |
| | 2.7 | 534.72 | 1238 | 1.66 | 13000 | PL0240 | 500 | - M - - - | .37 | A | 71 | 4.8 |
| | 2.5 | 581.35 | 1346 | 1.52 | 13000 | PL0240 | 560 | - M - - - | .37 | A | 71 | 4.8 |
| | 2.2 | 648.21 | 1501 | 1.37 | 13000 | PL0240 | 630 | - M - - - | .37 | A | 71 | 4.8 |
| | 2.1 | 703.24 | 1628 | 1.26 | 13000 | PL0240 | 710 | - M - - - | .37 | A | 71 | 4.7 |
| | 1.7 | 850.69 | 1969 | 1.04 | 13000 | PL0240 | 800 | - M - - - | .37 | A | 71 | 4.6 |
| | 1.6 | 926.83 | 2146 | 0.96 | 13000 | PL0240 | 900 | - M - - - | .37 | A | 71 | 4.6 |
| | 1.4 | 1031.25 | 2387 | 0.86 | 13000 | PL0240 | 10C | - M - - - | .37 | A | 71 | 4.5 |
| | 5.5 | 261.56 | 620 | 3.24 | 28500 | PL0330 | 280 | - M - - - | .37 | A | 71 | 10.0 |
| | 4.5 | 316.41 | 751 | 2.68 | 28500 | PL0330 | 315 | - M - - - | .37 | A | 71 | 10.0 |
| | 3.8 | 376.44 | 893 | 1.67 | 28500 | PL0330 | 360 | - M - - - | .37 | A | 71 | 10.0 |
| | 3.5 | 413.19 | 970 | 3.51 | 28500 | PL0340 | 400 | - M - - - | .37 | A | 71 | 8.1 |
| | 2.9 | 500.89 | 1176 | 2.89 | 28500 | PL0340 | 500 | - M - - - | .37 | A | 71 | 8.1 |
| | 2.6 | 544.57 | 1278 | 2.66 | 28500 | PL0340 | 560 | - M - - - | .37 | A | 71 | 8.1 |
| | 2.4 | 607.20 | 1425 | 2.39 | 28500 | PL0340 | 630 | - M - - - | .37 | A | 71 | 8.1 |
| | 2.2 | 658.75 | 1546 | 2.20 | 28500 | PL0340 | 710 | - M - - - | .37 | A | 71 | 8.0 |
| | 1.8 | 796.88 | 1871 | 1.82 | 28500 | PL0340 | 800 | - M - - - | .37 | A | 71 | 7.8 |
| | 1.6 | 868.19 | 2038 | 1.67 | 28500 | PL0340 | 900 | - M - - - | .37 | A | 71 | 7.8 |
| | 1.5 | 966.01 | 2268 | 1.50 | 28500 | PL0340 | 10C | - M - - - | .37 | A | 71 | 7.7 |
| | 1.4 | 1050.24 | 2465 | 1.38 | 28500 | PL0340 | 11C | - M - - - | .37 | A | 71 | 7.7 |
| | 1.1 | 1270.45 | 2982 | 1.14 | 28500 | PL0340 | 12C | - M - - - | .37 | A | 71 | 7.6 |
| | 0.93 | 1536.83 | 3608 | 0.94 | 28500 | PL0340 | 14C | - M - - - | .37 | A | 71 | 7.6 |
| | 3.8 | 376.44 | 893 | 2.57 | 28500 | PL0530 | 360 | - M - - - | .37 | A | 71 | 10.4 |
| | 2.4 | 607.20 | 1425 | 3.67 | 28500 | PL0540 | 630 | - M - - - | .37 | A | 71 | 8.4 |
| | 2.2 | 658.75 | 1546 | 3.38 | 28500 | PL0540 | 710 | - M - - - | .37 | A | 71 | 8.3 |
| | 1.8 | 796.88 | 1871 | 2.80 | 28500 | PL0540 | 800 | - M - - - | .37 | A | 71 | 8.2 |
| | 1.6 | 868.19 | 2038 | 2.57 | 28500 | PL0540 | 900 | - M - - - | .37 | A | 71 | 8.2 |
| | 1.5 | 966.01 | 2268 | 2.31 | 28500 | PL0540 | 10C | - M - - - | .37 | A | 71 | 8.0 |
| | 1.4 | 1050.24 | 2465 | 2.12 | 28500 | PL0540 | 11C | - M - - - | .37 | A | 71 | 8.0 |
| | 1.1 | 1270.45 | 2982 | 1.75 | 28500 | PL0540 | 12C | - M - - - | .37 | A | 71 | 7.9 |

SERIES P

MOTORISED RATINGS

| | n2 | Ratio i | M2 (Nm) | fm | Fr2 (N) | Unit Designation | | | | | Motor Frame | Pt (kW) | |
|----------------|----------------|------------|------------|-------|---------|------------------|-----------|-----------|-----------|-----|----------------|------------|-----|
| 0.37 kW | 0.93 | 1536.83 | 3608 | 1.45 | 28500 | PL0540 | 14C | - M - - - | .37 | A | 71 | 7.9 | |
| | 0.88 | 1621.69 | 3807 | 0.81 | 28500 | PL0540 | 16C | - M - - - | .37 | A | 71 | 7.9 | |
| 4-pole | 0.78 | 1840.91 | 4321 | 1.03 | 28500 | PL0540 | 18C | - M - - - | .37 | A | 71 | 7.9 | |
| | 1.5 | 952.83 | 2237 | 4.07 | 41000 | PL0840 | 10C | - M - - - | .37 | A | 71 | 13.6 | |
| | 1.2 | 1152.62 | 2706 | 3.37 | 41000 | PL0840 | 11C | - M - - - | .37 | A | 71 | 13.4 | |
| | 1.0 | 1371.33 | 3219 | 2.83 | 41000 | PL0840 | 12C | - M - - - | .37 | A | 71 | 13.4 | |
| | 1.0 | 1471.29 | 3454 | 1.56 | 41000 | PL0840 | 14C | - M - - - | .37 | A | 71 | 13.4 | |
| | 0.87 | 1642.66 | 3856 | 1.94 | 41000 | PL0840 | 16C | - M - - - | .37 | A | 71 | 13.4 | |
| | 0.80 | 1779.79 | 4178 | 1.29 | 41000 | PL0840 | 18C | - M - - - | .37 | A | 71 | 13.4 | |
| | 0.68 | 2117.49 | 4971 | 1.09 | 41000 | PL0840 | 20C | - M - - - | .37 | A | 71 | 13.4 | |
| | 1.0 | 1371.33 | 3219 | 3.50 | 41000 | PL1240 | 12C | - M - - - | .37 | A | 71 | 14.6 | |
| | 0.97 | 1471.29 | 3454 | 2.08 | 41000 | PL1240 | 14C | - M - - - | .37 | A | 71 | 14.6 | |
| | 0.87 | 1642.66 | 3856 | 2.59 | 41000 | PL1240 | 16C | - M - - - | .37 | A | 71 | 14.6 | |
| | 0.80 | 1779.79 | 4178 | 1.72 | 41000 | PL1240 | 18C | - M - - - | .37 | A | 71 | 14.6 | |
| | 0.68 | 2117.49 | 4971 | 1.45 | 41000 | PL1240 | 20C | - M - - - | .37 | A | 71 | 14.6 | |
| | 0.57 | 2519.27 | 5914 | 1.03 | 41000 | PL1240 | 25C | - M - - - | .37 | A | 71 | 14.6 | |
| | 0.55 kW | 16.8 | 86.43 | 301 | 3.69 | 13000 | PL0130 | 80. | - M - - - | .55 | A | 80 | 6.2 |
| | | 15.5 | 93.77 | 326 | 3.40 | 13000 | PL0130 | 90. | - M - - - | .55 | A | 80 | 6.1 |
| | 4-pole | 13.8 | 104.77 | 364 | 2.47 | 13000 | PL0130 | 100 | - M - - - | .55 | A | 80 | 6.1 |
| | | 12.8 | 113.43 | 394 | 2.81 | 13000 | PL0130 | 112 | - M - - - | .55 | A | 80 | 6.0 |
| 10.5 | | 137.50 | 478 | 2.32 | 13000 | PL0130 | 125 | - M - - - | .55 | A | 80 | 6.0 | |
| 9.7 | | 149.49 | 520 | 2.14 | 13000 | PL0130 | 140 | - M - - - | .55 | A | 80 | 6.0 | |
| 8.7 | | 166.68 | 580 | 1.55 | 13000 | PL0130 | 160 | - M - - - | .55 | A | 80 | 5.8 | |
| 8.0 | | 180.83 | 629 | 1.77 | 13000 | PL0130 | 180 | - M - - - | .55 | A | 80 | 5.8 | |
| 6.6 | | 218.75 | 761 | 1.46 | 13000 | PL0130 | 225 | - M - - - | .55 | A | 80 | 5.7 | |
| 5.5 | | 265.18 | 922 | 0.98 | 13000 | PL0130 | 250 | - M - - - | .55 | A | 80 | 5.7 | |
| 9.7 | | 149.49 | 520 | 3.94 | 13000 | PL0230 | 140 | - M - - - | .55 | A | 80 | 6.2 | |
| 8.7 | | 166.68 | 580 | 2.87 | 13000 | PL0230 | 160 | - M - - - | .55 | A | 80 | 6.0 | |
| 8.0 | | 180.83 | 629 | 3.26 | 13000 | PL0230 | 180 | - M - - - | .55 | A | 80 | 6.0 | |
| 6.6 | | 218.75 | 761 | 2.69 | 13000 | PL0230 | 225 | - M - - - | .55 | A | 80 | 5.9 | |
| 5.5 | | 265.18 | 922 | 1.80 | 13000 | PL0230 | 250 | - M - - - | .55 | A | 80 | 5.9 | |
| 5.0 | | 288.30 | 1003 | 1.16 | 13000 | PL0230 | 280 | - M - - - | .55 | A | 80 | 5.8 | |
| 4.2 | | 348.75 | 1213 | 0.96 | 13000 | PL0230 | 360 | - M - - - | .55 | A | 80 | 5.8 | |
| 3.3 | | 441.10 | 1518 | 1.35 | 13000 | PL0240 | 450 | - M - - - | .55 | A | 80 | 4.8 | |
| 2.7 | | 534.72 | 1840 | 1.11 | 13000 | PL0240 | 500 | - M - - - | .55 | A | 80 | 4.8 | |
| 2.5 | | 581.35 | 2001 | 1.02 | 13000 | PL0240 | 560 | - M - - - | .55 | A | 80 | 4.8 | |
| 2.2 | 648.21 | 2231 | 0.92 | 13000 | PL0240 | 630 | - M - - - | .55 | A | 80 | 4.8 | | |
| 5.8 | 245.45 | 866 | 3.34 | 28500 | PL0330 | 250 | - M - - - | .55 | A | 80 | 10.2 | | |
| 5.5 | 261.56 | 922 | 2.18 | 28500 | PL0330 | 280 | - M - - - | .55 | A | 80 | 10.0 | | |
| 4.5 | 316.41 | 1116 | 1.80 | 28500 | PL0330 | 315 | - M - - - | .55 | A | 80 | 10.0 | | |
| 3.8 | 376.44 | 1327 | 1.13 | 28500 | PL0330 | 360 | - M - - - | .55 | A | 80 | 10.0 | | |
| 3.5 | 413.19 | 1442 | 2.36 | 28500 | PL0340 | 400 | - M - - - | .55 | A | 80 | 8.1 | | |
| 2.9 | 500.89 | 1748 | 1.95 | 28500 | PL0340 | 500 | - M - - - | .55 | A | 80 | 8.1 | | |
| 2.6 | 544.57 | 1900 | 1.79 | 28500 | PL0340 | 560 | - M - - - | .55 | A | 80 | 8.1 | | |
| 2.4 | 607.20 | 2119 | 1.60 | 28500 | PL0340 | 630 | - M - - - | .55 | A | 80 | 8.1 | | |
| 2.2 | 658.75 | 2299 | 1.48 | 28500 | PL0340 | 710 | - M - - - | .55 | A | 80 | 8.0 | | |
| 1.8 | 796.88 | 2781 | 1.22 | 28500 | PL0340 | 800 | - M - - - | .55 | A | 80 | 7.8 | | |
| 1.6 | 868.19 | 3029 | 1.12 | 28500 | PL0340 | 900 | - M - - - | .55 | A | 80 | 7.8 | | |
| 1.5 | 966.01 | 3371 | 1.01 | 28500 | PL0340 | 10C | - M - - - | .55 | A | 80 | 7.7 | | |
| 1.4 | 1050.24 | 3665 | 0.93 | 28500 | PL0340 | 11C | - M - - - | .55 | A | 80 | 7.7 | | |
| 1.1 | 1270.45 | 4433 | 0.77 | 28500 | PL0340 | 12C | - M - - - | .55 | A | 80 | 7.6 | | |
| 4.5 | 316.41 | 1116 | 2.77 | 28500 | PL0530 | 315 | - M - - - | .55 | A | 80 | 10.4 | | |
| 3.8 | 376.44 | 1327 | 1.73 | 28500 | PL0530 | 360 | - M - - - | .55 | A | 80 | 10.4 | | |
| 3.5 | 413.19 | 1442 | 3.63 | 28500 | PL0540 | 400 | - M - - - | .55 | A | 80 | 8.4 | | |
| 2.9 | 500.89 | 1748 | 2.99 | 28500 | PL0540 | 500 | - M - - - | .55 | A | 80 | 8.4 | | |
| 2.6 | 544.57 | 1900 | 2.75 | 28500 | PL0540 | 560 | - M - - - | .55 | A | 80 | 8.4 | | |
| 2.4 | 607.20 | 2119 | 2.47 | 28500 | PL0540 | 630 | - M - - - | .55 | A | 80 | 8.4 | | |
| 2.2 | 658.75 | 2299 | 2.28 | 28500 | PL0540 | 710 | - M - - - | .55 | A | 80 | 8.3 | | |
| 1.8 | 796.88 | 2781 | 1.88 | 28500 | PL0540 | 800 | - M - - - | .55 | A | 80 | 8.2 | | |
| 1.6 | 868.19 | 3029 | 1.73 | 28500 | PL0540 | 900 | - M - - - | .55 | A | 80 | 8.2 | | |
| 1.5 | 966.01 | 3371 | 1.55 | 28500 | PL0540 | 10C | - M - - - | .55 | A | 80 | 8.0 | | |
| 1.4 | 1050.24 | 3665 | 1.43 | 28500 | PL0540 | 11C | - M - - - | .55 | A | 80 | 8.0 | | |

SERIES P

MOTORISED RATINGS

| | n2 | Ratio i | M2 (Nm) | fm | Fr2 (N) | Unit Designation | | | | | Motor Frame | Pt (kW) | |
|----------------|----------------|------------|------------|-------|---------|------------------|-----------|-----------|-----------|-----|----------------|------------|-----|
| 0.55 kW | 1.1 | 1270.45 | 4433 | 1.18 | 28500 | PL0540 | 12C | - M - - - | .55 | A | 80 | 7.9 | |
| | 0.93 | 1536.83 | 5363 | 0.98 | 28500 | PL0540 | 14C | - M - - - | .55 | A | 80 | 7.9 | |
| 4-pole | 4.3 | 335.90 | 1184 | 3.85 | 41000 | PL0830 | 360 | - M - - - | .55 | A | 80 | 16.9 | |
| | 1.9 | 746.46 | 2605 | 3.50 | 41000 | PL0840 | 710 | - M - - - | .55 | A | 80 | 13.8 | |
| | 1.8 | 787.68 | 2749 | 3.32 | 41000 | PL0840 | 800 | - M - - - | .55 | A | 80 | 13.8 | |
| | 1.6 | 894.16 | 3120 | 2.92 | 41000 | PL0840 | 900 | - M - - - | .55 | A | 80 | 13.6 | |
| | 1.5 | 952.83 | 3325 | 2.74 | 41000 | PL0840 | 10C | - M - - - | .55 | A | 80 | 13.6 | |
| | 1.2 | 1152.62 | 4022 | 2.27 | 41000 | PL0840 | 11C | - M - - - | .55 | A | 80 | 13.4 | |
| | 1.0 | 1371.33 | 4785 | 1.90 | 41000 | PL0840 | 12C | - M - - - | .55 | A | 80 | 13.4 | |
| | 0.97 | 1471.29 | 5134 | 1.05 | 41000 | PL0840 | 14C | - M - - - | .55 | A | 80 | 13.4 | |
| | 1.8 | 787.68 | 2749 | 4.10 | 41000 | PL1240 | 800 | - M - - - | .55 | A | 80 | 15.0 | |
| | 1.6 | 894.16 | 3120 | 3.61 | 41000 | PL1240 | 900 | - M - - - | .55 | A | 80 | 14.8 | |
| | 1.5 | 952.83 | 3325 | 3.39 | 41000 | PL1240 | 10C | - M - - - | .55 | A | 80 | 14.8 | |
| | 1.2 | 1152.62 | 4022 | 2.80 | 41000 | PL1240 | 11C | - M - - - | .55 | A | 80 | 14.6 | |
| | 1.0 | 1371.33 | 4785 | 2.36 | 41000 | PL1240 | 12C | - M - - - | .55 | A | 80 | 14.6 | |
| | 0.97 | 1471.29 | 5134 | 1.40 | 41000 | PL1240 | 14C | - M - - - | .55 | A | 80 | 14.6 | |
| | 0.87 | 1642.66 | 5732 | 1.74 | 41000 | PL1240 | 16C | - M - - - | .55 | A | 80 | 14.6 | |
| | 0.80 | 1779.79 | 6210 | 1.16 | 41000 | PL1240 | 18C | - M - - - | .55 | A | 80 | 14.6 | |
| | 0.68 | 2117.49 | 7389 | 0.97 | 41000 | PL1240 | 20C | - M - - - | .55 | A | 80 | 14.6 | |
| | 0.75 kW | 20.3 | 71.30 | 338 | 3.28 | 13000 | PL0130 | 71. | - M - - - | .75 | A | 80 | 6.2 |
| | | 16.8 | 86.43 | 410 | 2.71 | 13000 | PL0130 | 80. | - M - - - | .75 | A | 80 | 6.2 |
| | 4-pole | 15.5 | 93.77 | 445 | 2.50 | 13000 | PL0130 | 90. | - M - - - | .75 | A | 80 | 6.1 |
| 13.8 | | 104.77 | 497 | 1.81 | 13000 | PL0130 | 100 | - M - - - | .75 | A | 80 | 6.1 | |
| 12.8 | | 113.43 | 538 | 2.06 | 13000 | PL0130 | 112 | - M - - - | .75 | A | 80 | 6.0 | |
| 10.5 | | 137.50 | 652 | 1.70 | 13000 | PL0130 | 125 | - M - - - | .75 | A | 80 | 6.0 | |
| 9.7 | | 149.49 | 709 | 1.57 | 13000 | PL0130 | 140 | - M - - - | .75 | A | 80 | 6.0 | |
| 8.7 | | 166.68 | 790 | 1.14 | 13000 | PL0130 | 160 | - M - - - | .75 | A | 80 | 5.8 | |
| 8.0 | | 180.83 | 858 | 1.29 | 13000 | PL0130 | 180 | - M - - - | .75 | A | 80 | 5.8 | |
| 6.6 | | 218.75 | 1037 | 1.07 | 13000 | PL0130 | 225 | - M - - - | .75 | A | 80 | 5.7 | |
| 13.8 | | 104.77 | 497 | 3.34 | 13000 | PL0230 | 100 | - M - - - | .75 | A | 80 | 6.3 | |
| 12.8 | | 113.43 | 538 | 3.81 | 13000 | PL0230 | 112 | - M - - - | .75 | A | 80 | 6.2 | |
| 9.7 | | 149.49 | 709 | 2.89 | 13000 | PL0230 | 125 | - M - - - | .75 | A | 80 | 6.2 | |
| 8.7 | | 166.68 | 790 | 2.59 | 13000 | PL0230 | 140 | - M - - - | .75 | A | 80 | 6.2 | |
| 8.0 | | 180.83 | 858 | 1.94 | 13000 | PL0230 | 160 | - M - - - | .75 | A | 80 | 6.0 | |
| 6.6 | | 218.75 | 1037 | 1.98 | 13000 | PL0230 | 180 | - M - - - | .75 | A | 80 | 6.0 | |
| 5.5 | | 265.18 | 1257 | 1.63 | 13000 | PL0230 | 225 | - M - - - | .75 | A | 80 | 5.9 | |
| 5.0 | | 288.30 | 1367 | 1.21 | 13000 | PL0230 | 250 | - M - - - | .75 | A | 80 | 5.9 | |
| 7.0 | | 204.91 | 985 | 3.45 | 28500 | PL0330 | 200 | - M - - - | .75 | A | 80 | 10.2 | |
| 5.8 | | 245.45 | 1180 | 2.45 | 28500 | PL0330 | 250 | - M - - - | .75 | A | 80 | 10.2 | |
| 5.5 | | 261.56 | 1258 | 1.60 | 28500 | PL0330 | 280 | - M - - - | .75 | A | 80 | 10.0 | |
| 4.5 | | 316.41 | 1521 | 1.32 | 28500 | PL0330 | 315 | - M - - - | .75 | A | 80 | 10.0 | |
| 3.8 | 376.44 | 1810 | 0.83 | 28500 | PL0330 | 360 | - M - - - | .75 | A | 80 | 10.0 | | |
| 3.5 | 413.19 | 1966 | 1.73 | 28500 | PL0340 | 400 | - M - - - | .75 | A | 80 | 8.1 | | |
| 2.9 | 500.89 | 2383 | 1.43 | 28500 | PL0340 | 500 | - M - - - | .75 | A | 80 | 8.1 | | |
| 2.6 | 544.57 | 2591 | 1.31 | 28500 | PL0340 | 560 | - M - - - | .75 | A | 80 | 8.1 | | |
| 2.4 | 607.20 | 2889 | 1.18 | 28500 | PL0340 | 630 | - M - - - | .75 | A | 80 | 8.1 | | |
| 2.2 | 658.75 | 3135 | 1.08 | 28500 | PL0340 | 710 | - M - - - | .75 | A | 80 | 8.0 | | |
| 5.8 | 245.45 | 1180 | 3.76 | 28500 | PL0530 | 250 | - M - - - | .75 | A | 80 | 10.6 | | |
| 5.5 | 261.56 | 1258 | 2.46 | 28500 | PL0530 | 280 | - M - - - | .75 | A | 80 | 10.4 | | |
| 4.5 | 316.41 | 1521 | 2.03 | 28500 | PL0530 | 315 | - M - - - | .75 | A | 80 | 10.4 | | |
| 3.8 | 376.44 | 1810 | 1.27 | 28500 | PL0530 | 360 | - M - - - | .75 | A | 80 | 10.4 | | |
| 3.5 | 413.19 | 1966 | 2.66 | 28500 | PL0540 | 400 | - M - - - | .75 | A | 80 | 8.4 | | |
| 2.9 | 500.89 | 2383 | 2.19 | 28500 | PL0540 | 500 | - M - - - | .75 | A | 80 | 8.4 | | |
| 2.6 | 544.57 | 2591 | 2.02 | 28500 | PL0540 | 560 | - M - - - | .75 | A | 80 | 8.4 | | |
| 2.4 | 607.20 | 2889 | 1.81 | 28500 | PL0540 | 630 | - M - - - | .75 | A | 80 | 8.4 | | |
| 2.2 | 658.75 | 3135 | 1.67 | 28500 | PL0540 | 710 | - M - - - | .75 | A | 80 | 8.3 | | |
| 1.8 | 796.88 | 3792 | 1.38 | 28500 | PL0540 | 800 | - M - - - | .75 | A | 80 | 8.2 | | |
| 1.6 | 868.19 | 4131 | 1.27 | 28500 | PL0540 | 900 | - M - - - | .75 | A | 80 | 8.2 | | |
| 1.5 | 966.01 | 4597 | 1.14 | 28500 | PL0540 | 10C | - M - - - | .75 | A | 80 | 8.0 | | |
| 1.4 | 1050.24 | 4997 | 1.05 | 28500 | PL0540 | 11C | - M - - - | .75 | A | 80 | 8.0 | | |
| 1.1 | 1270.45 | 6045 | 0.87 | 28500 | PL0540 | 12C | - M - - - | .75 | A | 80 | 7.9 | | |

SERIES P

MOTORISED RATINGS

| | n2 | Ratio i | M2 (Nm) | fm | Fr2 (N) | Unit Designation | | | | | Motor Frame | Pt (kW) |
|----------------|---------|------------|------------|-------|---------|------------------|---------|---------|-----|----|----------------|------------|
| 0.75 kW | 5.1 | 282.33 | 1358 | 3.97 | 41000 | PL0830 | 280 | - M --- | .75 | A | 80 | 16.9 |
| | 4.3 | 335.90 | 1615 | 2.83 | 41000 | PL0830 | 360 | - M --- | .75 | A | 80 | 16.9 |
| 4-pole | 3.7 | 387.05 | 1842 | 4.95 | 41000 | PL0840 | 400 | - M --- | .75 | A | 80 | 14.2 |
| | 3.0 | 469.20 | 2233 | 4.08 | 41000 | PL0840 | 450 | - M --- | .75 | A | 80 | 14.2 |
| | 2.8 | 510.11 | 2427 | 3.75 | 41000 | PL0840 | 500 | - M --- | .75 | A | 80 | 14.2 |
| | 2.5 | 562.04 | 2674 | 3.41 | 41000 | PL0840 | 560 | - M --- | .75 | A | 80 | 14.2 |
| | 2.3 | 617.07 | 2936 | 3.10 | 41000 | PL0840 | 630 | - M --- | .75 | A | 80 | 14.0 |
| | 1.9 | 746.46 | 3552 | 2.57 | 41000 | PL0840 | 710 | - M --- | .75 | A | 80 | 13.8 |
| | 1.8 | 787.68 | 3748 | 2.43 | 41000 | PL0840 | 800 | - M --- | .75 | A | 80 | 13.8 |
| | 1.6 | 894.16 | 4255 | 2.14 | 41000 | PL0840 | 900 | - M --- | .75 | A | 80 | 13.6 |
| | 1.5 | 952.83 | 4534 | 2.01 | 41000 | PL0840 | 10C | - M --- | .75 | A | 80 | 13.6 |
| | 1.2 | 1152.62 | 5485 | 1.66 | 41000 | PL0840 | 11C | - M --- | .75 | A | 80 | 13.4 |
| | 1.0 | 1371.33 | 6525 | 1.40 | 41000 | PL0840 | 12C | - M --- | .75 | A | 80 | 13.4 |
| | 0.97 | 1471.29 | 7001 | 0.77 | 41000 | PL0840 | 14C | - M --- | .75 | A | 80 | 13.4 |
| | 0.87 | 1642.66 | 7816 | 0.96 | 41000 | PL0840 | 16C | - M --- | .75 | A | 80 | 13.4 |
| | 2.3 | 617.07 | 2936 | 3.84 | 41000 | PL1240 | 630 | - M --- | .75 | A | 80 | 15.3 |
| | 1.9 | 746.46 | 3552 | 3.17 | 41000 | PL1240 | 710 | - M --- | .75 | A | 80 | 15.0 |
| | 1.8 | 787.68 | 3748 | 3.01 | 41000 | PL1240 | 800 | - M --- | .75 | A | 80 | 15.0 |
| | 1.6 | 894.16 | 4255 | 2.65 | 41000 | PL1240 | 900 | - M --- | .75 | A | 80 | 14.8 |
| | 1.5 | 952.83 | 4534 | 2.49 | 41000 | PL1240 | 10C | - M --- | .75 | A | 80 | 14.8 |
| | 1.2 | 1152.62 | 5485 | 2.06 | 41000 | PL1240 | 11C | - M --- | .75 | A | 80 | 14.6 |
| | 1.0 | 1371.33 | 6525 | 1.73 | 41000 | PL1240 | 12C | - M --- | .75 | A | 80 | 14.6 |
| 0.97 | 1471.29 | 7001 | 1.03 | 41000 | PL1240 | 14C | - M --- | .75 | A | 80 | 14.6 | |
| 0.87 | 1642.66 | 7816 | 1.28 | 41000 | PL1240 | 16C | - M --- | .75 | A | 80 | 14.6 | |
| 0.80 | 1779.79 | 8469 | 0.85 | 41000 | PL1240 | 18C | - M --- | .75 | A | 80 | 14.6 | |
| 1.1 kW | 37.7 | 38.44 | 270 | 2.33 | 13000 | PL0120 | 40. | - M --- | 1.1 | A | 90 | 8.5 |
| | 31.2 | 46.50 | 327 | 1.92 | 13000 | PL0120 | 45. | - M --- | 1.1 | A | 90 | 7.8 |
| 4-pole | 25.8 | 56.25 | 395 | 1.17 | 13000 | PL0120 | 56. | - M --- | 1.1 | A | 90 | 7.2 |
| | 24.7 | 58.81 | 409 | 2.71 | 13000 | PL0130 | 63. | - M --- | 1.1 | A | 90 | 6.2 |
| | 20.3 | 71.30 | 496 | 2.24 | 13000 | PL0130 | 71. | - M --- | 1.1 | A | 90 | 6.2 |
| | 16.8 | 86.43 | 601 | 1.85 | 13000 | PL0130 | 80. | - M --- | 1.1 | A | 90 | 6.2 |
| | 15.5 | 93.77 | 652 | 1.70 | 13000 | PL0130 | 90. | - M --- | 1.1 | A | 90 | 6.1 |
| | 13.8 | 104.77 | 729 | 1.24 | 13000 | PL0130 | 100 | - M --- | 1.1 | A | 90 | 6.1 |
| | 12.8 | 113.43 | 789 | 1.41 | 13000 | PL0130 | 112 | - M --- | 1.1 | A | 90 | 6.0 |
| | 10.5 | 137.50 | 956 | 1.16 | 13000 | PL0130 | 125 | - M --- | 1.1 | A | 90 | 6.0 |
| | 9.7 | 149.49 | 1040 | 1.07 | 13000 | PL0130 | 140 | - M --- | 1.1 | A | 90 | 6.0 |
| | 8.7 | 166.68 | 1159 | 0.78 | 13000 | PL0130 | 160 | - M --- | 1.1 | A | 90 | 5.8 |
| | 8.0 | 180.83 | 1258 | 0.88 | 13000 | PL0130 | 180 | - M --- | 1.1 | A | 90 | 5.8 |
| | 31.2 | 46.50 | 327 | 3.56 | 13000 | PL0220 | 45. | - M --- | 1.1 | A | 90 | 8.1 |
| | 25.8 | 56.25 | 395 | 2.17 | 13000 | PL0220 | 56. | - M --- | 1.1 | A | 90 | 7.4 |
| | 20.3 | 71.30 | 496 | 4.13 | 13000 | PL0230 | 71. | - M --- | 1.1 | A | 90 | 6.5 |
| | 16.8 | 86.43 | 601 | 3.41 | 13000 | PL0230 | 80. | - M --- | 1.1 | A | 90 | 6.5 |
| | 15.5 | 93.77 | 652 | 3.14 | 13000 | PL0230 | 90. | - M --- | 1.1 | A | 90 | 6.3 |
| | 13.8 | 104.77 | 729 | 2.28 | 13000 | PL0230 | 100 | - M --- | 1.1 | A | 90 | 6.3 |
| | 12.8 | 113.43 | 789 | 2.60 | 13000 | PL0230 | 112 | - M --- | 1.1 | A | 90 | 6.2 |
| | 9.7 | 149.49 | 1040 | 1.97 | 13000 | PL0230 | 140 | - M --- | 1.1 | A | 90 | 6.2 |
| | 8.7 | 166.68 | 1159 | 1.77 | 13000 | PL0230 | 160 | - M --- | 1.1 | A | 90 | 6.2 |
| 8.0 | 180.83 | 1258 | 1.32 | 13000 | PL0230 | 180 | - M --- | 1.1 | A | 90 | 6.0 | |
| 6.6 | 218.75 | 1521 | 1.35 | 13000 | PL0230 | 225 | - M --- | 1.1 | A | 90 | 6.0 | |
| 5.5 | 265.18 | 1844 | 1.11 | 13000 | PL0230 | 250 | - M --- | 1.1 | A | 90 | 5.9 | |
| 11.1 | 128.80 | 908 | 3.74 | 28500 | PL0330 | 125 | - M --- | 1.1 | A | 90 | 10.6 | |
| 10.2 | 140.03 | 988 | 3.44 | 28500 | PL0330 | 140 | - M --- | 1.1 | A | 90 | 10.6 | |
| 9.3 | 154.29 | 1088 | 2.65 | 28500 | PL0330 | 160 | - M --- | 1.1 | A | 90 | 10.4 | |
| 8.4 | 169.39 | 1195 | 2.85 | 28500 | PL0330 | 180 | - M --- | 1.1 | A | 90 | 10.4 | |
| 7.0 | 204.91 | 1445 | 2.35 | 28500 | PL0330 | 200 | - M --- | 1.1 | A | 90 | 10.2 | |
| 5.8 | 245.45 | 1731 | 1.67 | 28500 | PL0330 | 250 | - M --- | 1.1 | A | 90 | 10.2 | |
| 5.5 | 261.56 | 1845 | 1.09 | 28500 | PL0330 | 280 | - M --- | 1.1 | A | 90 | 10.0 | |
| 4.5 | 316.41 | 2231 | 0.90 | 28500 | PL0330 | 315 | - M --- | 1.1 | A | 90 | 10.0 | |
| 7.0 | 204.91 | 1445 | 3.62 | 28500 | PL0530 | 200 | - M --- | 1.1 | A | 90 | 10.6 | |
| 5.8 | 245.45 | 1731 | 2.57 | 28500 | PL0530 | 250 | - M --- | 1.1 | A | 90 | 10.6 | |
| 5.5 | 261.56 | 1845 | 1.67 | 28500 | PL0530 | 280 | - M --- | 1.1 | A | 90 | 10.4 | |
| 4.5 | 316.41 | 2231 | 1.38 | 28500 | PL0530 | 315 | - M --- | 1.1 | A | 90 | 10.4 | |
| 3.8 | 376.44 | 2655 | 0.87 | 28500 | PL0530 | 360 | - M --- | 1.1 | A | 90 | 10.4 | |

SERIES P

MOTORISED RATINGS

| | n2 | Ratio i | M2 (Nm) | fm | Fr2 (N) | Unit Designation | | | | | Motor Frame | Pt (kW) |
|---------------|------|------------|------------|------|---------|------------------|-----|-----------|-----|---|----------------|------------|
| 1.1 kW | 3.5 | 413.19 | 2884 | 1.81 | 28500 | PL0540 | 400 | - M - - - | 1.1 | A | 90 | 8.4 |
| | 2.9 | 500.89 | 3496 | 1.50 | 28500 | PL0540 | 500 | - M - - - | 1.1 | A | 90 | 8.4 |
| 4-pole | 2.6 | 544.57 | 3800 | 1.38 | 28500 | PL0540 | 560 | - M - - - | 1.1 | A | 90 | 8.4 |
| | 2.4 | 607.20 | 4238 | 1.23 | 28500 | PL0540 | 630 | - M - - - | 1.1 | A | 90 | 8.4 |
| | 2.2 | 658.75 | 4597 | 1.14 | 28500 | PL0540 | 710 | - M - - - | 1.1 | A | 90 | 8.3 |
| | 1.8 | 796.88 | 5561 | 0.94 | 28500 | PL0540 | 800 | - M - - - | 1.1 | A | 90 | 8.2 |
| | 1.6 | 868.19 | 6059 | 0.86 | 28500 | PL0540 | 900 | - M - - - | 1.1 | A | 90 | 8.2 |
| | 6.0 | 237.30 | 1674 | 3.22 | 41000 | PL0830 | 250 | - M - - - | 1.1 | A | 90 | 16.9 |
| | 5.1 | 282.33 | 1991 | 2.71 | 41000 | PL0830 | 280 | - M - - - | 1.1 | A | 90 | 16.9 |
| | 4.3 | 335.90 | 2369 | 1.93 | 41000 | PL0830 | 360 | - M - - - | 1.1 | A | 90 | 16.9 |
| | 3.7 | 387.05 | 2701 | 3.37 | 41000 | PL0840 | 400 | - M - - - | 1.1 | A | 90 | 14.2 |
| | 3.0 | 469.20 | 3275 | 2.78 | 41000 | PL0840 | 450 | - M - - - | 1.1 | A | 90 | 14.2 |
| | 2.8 | 510.11 | 3560 | 2.56 | 41000 | PL0840 | 500 | - M - - - | 1.1 | A | 90 | 14.2 |
| | 2.5 | 562.04 | 3922 | 2.32 | 41000 | PL0840 | 560 | - M - - - | 1.1 | A | 90 | 14.2 |
| | 2.3 | 617.07 | 4306 | 2.12 | 41000 | PL0840 | 630 | - M - - - | 1.1 | A | 90 | 14.0 |
| | 1.9 | 746.46 | 5209 | 1.75 | 41000 | PL0840 | 710 | - M - - - | 1.1 | A | 90 | 13.8 |
| | 1.8 | 787.68 | 5497 | 1.66 | 41000 | PL0840 | 800 | - M - - - | 1.1 | A | 90 | 13.8 |
| | 1.6 | 894.16 | 6240 | 1.46 | 41000 | PL0840 | 900 | - M - - - | 1.1 | A | 90 | 13.6 |
| | 1.5 | 952.83 | 6650 | 1.37 | 41000 | PL0840 | 10C | - M - - - | 1.1 | A | 90 | 13.6 |
| | 1.2 | 1152.62 | 8044 | 1.13 | 41000 | PL0840 | 11C | - M - - - | 1.1 | A | 90 | 13.4 |
| | 1.0 | 1371.33 | 9570 | 0.95 | 41000 | PL0840 | 12C | - M - - - | 1.1 | A | 90 | 13.4 |
| | 4.3 | 335.90 | 2369 | 2.57 | 41000 | PL1230 | 360 | - M - - - | 1.1 | A | 90 | 18.4 |
| | 3.7 | 387.05 | 2701 | 4.17 | 41000 | PL1240 | 400 | - M - - - | 1.1 | A | 90 | 15.5 |
| | 3.0 | 469.20 | 3275 | 3.44 | 41000 | PL1240 | 450 | - M - - - | 1.1 | A | 90 | 15.5 |
| | 2.8 | 510.11 | 3560 | 3.17 | 41000 | PL1240 | 500 | - M - - - | 1.1 | A | 90 | 15.5 |
| | 2.5 | 562.04 | 3922 | 2.87 | 41000 | PL1240 | 560 | - M - - - | 1.1 | A | 90 | 15.5 |
| | 2.3 | 617.07 | 4306 | 2.62 | 41000 | PL1240 | 630 | - M - - - | 1.1 | A | 90 | 15.3 |
| | 1.9 | 746.46 | 5209 | 2.16 | 41000 | PL1240 | 710 | - M - - - | 1.1 | A | 90 | 15.0 |
| | 1.8 | 787.68 | 5497 | 2.05 | 41000 | PL1240 | 800 | - M - - - | 1.1 | A | 90 | 15.0 |
| | 1.6 | 894.16 | 6240 | 1.81 | 41000 | PL1240 | 900 | - M - - - | 1.1 | A | 90 | 14.8 |
| | 1.5 | 952.83 | 6650 | 1.70 | 41000 | PL1240 | 10C | - M - - - | 1.1 | A | 90 | 14.8 |
| | 1.2 | 1152.62 | 8044 | 1.40 | 41000 | PL1240 | 11C | - M - - - | 1.1 | A | 90 | 14.6 |
| | 1.0 | 1371.33 | 9570 | 1.18 | 41000 | PL1240 | 12C | - M - - - | 1.1 | A | 90 | 14.6 |
| | 0.97 | 1471.29 | 10268 | 0.70 | 41000 | PL1240 | 14C | - M - - - | 1.1 | A | 90 | 14.6 |
| 1.5 kW | 41.0 | 35.36 | 339 | 2.66 | 13000 | PL0120 | 36. | - M - - - | 1.5 | A | 90 | 8.0 |
| | 37.7 | 38.44 | 368 | 1.71 | 13000 | PL0120 | 40. | - M - - - | 1.5 | A | 90 | 8.5 |
| 4-pole | 31.2 | 46.50 | 446 | 1.41 | 13000 | PL0120 | 45. | - M - - - | 1.5 | A | 90 | 7.8 |
| | 25.8 | 56.25 | 539 | 0.86 | 13000 | PL0120 | 56. | - M - - - | 1.5 | A | 90 | 7.2 |
| | 24.7 | 58.81 | 558 | 1.99 | 13000 | PL0130 | 63. | - M - - - | 1.5 | A | 90 | 6.2 |
| | 20.3 | 71.30 | 676 | 1.64 | 13000 | PL0130 | 71. | - M - - - | 1.5 | A | 90 | 6.2 |
| | 16.8 | 86.43 | 820 | 1.35 | 13000 | PL0130 | 80. | - M - - - | 1.5 | A | 90 | 6.2 |
| | 15.5 | 93.77 | 889 | 1.25 | 13000 | PL0130 | 90. | - M - - - | 1.5 | A | 90 | 6.1 |
| | 13.8 | 104.77 | 994 | 0.91 | 13000 | PL0130 | 100 | - M - - - | 1.5 | A | 90 | 6.1 |
| | 12.8 | 113.43 | 1076 | 1.03 | 13000 | PL0130 | 112 | - M - - - | 1.5 | A | 90 | 6.0 |
| | 10.5 | 137.50 | 1304 | 0.85 | 13000 | PL0130 | 125 | - M - - - | 1.5 | A | 90 | 6.0 |
| | 37.7 | 38.44 | 368 | 3.15 | 13000 | PL0220 | 40. | - M - - - | 1.5 | A | 90 | 8.8 |
| | 31.2 | 46.50 | 446 | 2.61 | 13000 | PL0220 | 45. | - M - - - | 1.5 | A | 90 | 8.1 |
| | 25.8 | 56.25 | 539 | 1.59 | 13000 | PL0220 | 56. | - M - - - | 1.5 | A | 90 | 7.4 |
| | 24.7 | 58.81 | 558 | 3.68 | 13000 | PL0230 | 63. | - M - - - | 1.5 | A | 90 | 6.5 |
| | 20.3 | 71.30 | 676 | 3.03 | 13000 | PL0230 | 71. | - M - - - | 1.5 | A | 90 | 6.5 |
| | 16.8 | 86.43 | 820 | 2.50 | 13000 | PL0230 | 80. | - M - - - | 1.5 | A | 90 | 6.5 |
| | 15.5 | 93.77 | 889 | 2.31 | 13000 | PL0230 | 90. | - M - - - | 1.5 | A | 90 | 6.5 |
| | 13.8 | 104.77 | 994 | 1.67 | 13000 | PL0230 | 100 | - M - - - | 1.5 | A | 90 | 6.5 |
| | 12.8 | 113.43 | 1076 | 1.91 | 13000 | PL0230 | 112 | - M - - - | 1.5 | A | 90 | 6.5 |
| | 9.7 | 149.49 | 1418 | 1.45 | 13000 | PL0230 | 140 | - M - - - | 1.5 | A | 90 | 6.5 |
| | 8.7 | 166.68 | 1581 | 1.30 | 13000 | PL0230 | 160 | - M - - - | 1.5 | A | 90 | 6.5 |
| | 8.0 | 180.83 | 1715 | 0.97 | 13000 | PL0230 | 180 | - M - - - | 1.5 | A | 90 | 6.5 |
| | 6.6 | 218.75 | 2075 | 0.99 | 13000 | PL0230 | 225 | - M - - - | 1.5 | A | 90 | 6.5 |
| | 16.3 | 87.83 | 845 | 4.03 | 28500 | PL0330 | 90. | - M - - - | 1.5 | A | 90 | 10.9 |
| | 14.7 | 96.98 | 933 | 3.10 | 28500 | PL0330 | 100 | - M - - - | 1.5 | A | 90 | 10.9 |
| | 13.4 | 106.48 | 1024 | 3.32 | 28500 | PL0330 | 112 | - M - - - | 1.5 | A | 90 | 10.6 |
| | 11.1 | 128.80 | 1239 | 2.74 | 28500 | PL0330 | 125 | - M - - - | 1.5 | A | 90 | 10.6 |
| | 10.2 | 140.03 | 1347 | 2.52 | 28500 | PL0330 | 140 | - M - - - | 1.5 | A | 90 | 10.6 |

SERIES P

MOTORISED RATINGS

| | n2 | Ratio i | M2 (Nm) | fm | Fr2 (N) | Unit Designation | | | | | Motor Frame | Pt (kW) |
|---------------|------|------------|------------|------|---------|------------------|-----|-----------|-----|---|----------------|------------|
| 1.5 kW | 9.3 | 154.29 | 1484 | 1.95 | 28500 | PL0330 | 160 | - M - - - | 1.5 | A | 90 | 10.4 |
| | 8.4 | 169.39 | 1629 | 2.09 | 28500 | PL0330 | 180 | - M - - - | 1.5 | A | 90 | 10.4 |
| 4-pole | 7.0 | 204.91 | 1971 | 1.73 | 28500 | PL0330 | 200 | - M - - - | 1.5 | A | 90 | 10.2 |
| | 5.8 | 245.45 | 2360 | 1.22 | 28500 | PL0330 | 250 | - M - - - | 1.5 | A | 90 | 10.2 |
| | 5.5 | 261.56 | 2515 | 0.80 | 28500 | PL0330 | 280 | - M - - - | 1.5 | A | 90 | 10.0 |
| | 9.3 | 154.29 | 1484 | 2.99 | 28500 | PL0530 | 160 | - M - - - | 1.5 | A | 90 | 10.8 |
| | 8.4 | 169.39 | 1629 | 3.21 | 28500 | PL0530 | 180 | - M - - - | 1.5 | A | 90 | 10.8 |
| | 7.0 | 204.91 | 1971 | 2.65 | 28500 | PL0530 | 200 | - M - - - | 1.5 | A | 90 | 10.6 |
| | 5.8 | 245.45 | 2360 | 1.88 | 28500 | PL0530 | 250 | - M - - - | 1.5 | A | 90 | 10.6 |
| | 5.5 | 261.56 | 2515 | 1.23 | 28500 | PL0530 | 280 | - M - - - | 1.5 | A | 90 | 10.4 |
| | 4.5 | 316.41 | 3043 | 1.02 | 28500 | PL0530 | 315 | - M - - - | 1.5 | A | 90 | 10.4 |
| | 3.5 | 413.19 | 3932 | 1.33 | 28500 | PL0540 | 400 | - M - - - | 1.5 | A | 90 | 8.4 |
| | 2.9 | 500.89 | 4767 | 1.10 | 28500 | PL0540 | 500 | - M - - - | 1.5 | A | 90 | 8.4 |
| | 2.6 | 544.57 | 5182 | 1.01 | 28500 | PL0540 | 560 | - M - - - | 1.5 | A | 90 | 8.4 |
| | 2.4 | 607.20 | 5779 | 0.91 | 28500 | PL0540 | 630 | - M - - - | 1.5 | A | 90 | 8.4 |
| | 2.2 | 658.75 | 6269 | 0.83 | 28500 | PL0540 | 710 | - M - - - | 1.5 | A | 90 | 8.3 |
| | 6.53 | 219.02 | 2106 | 3.56 | 41000 | PL0830 | 225 | - M - - - | 1.5 | A | 90 | 17.3 |
| | 6.03 | 237.30 | 2282 | 2.36 | 41000 | PL0830 | 250 | - M - - - | 1.5 | A | 90 | 16.9 |
| | 5.06 | 282.33 | 2715 | 1.99 | 41000 | PL0830 | 280 | - M - - - | 1.5 | A | 90 | 16.9 |
| | 4.26 | 335.90 | 3230 | 1.41 | 41000 | PL0830 | 360 | - M - - - | 1.5 | A | 90 | 16.9 |
| | 3.69 | 387.05 | 3683 | 2.47 | 41000 | PL0840 | 400 | - M - - - | 1.5 | A | 90 | 14.2 |
| | 3.05 | 469.20 | 4465 | 2.04 | 41000 | PL0840 | 450 | - M - - - | 1.5 | A | 90 | 14.2 |
| | 2.80 | 510.11 | 4855 | 1.88 | 41000 | PL0840 | 500 | - M - - - | 1.5 | A | 90 | 14.2 |
| | 2.54 | 562.04 | 5349 | 1.70 | 41000 | PL0840 | 560 | - M - - - | 1.5 | A | 90 | 14.2 |
| | 2.32 | 617.07 | 5872 | 1.55 | 41000 | PL0840 | 630 | - M - - - | 1.5 | A | 90 | 14.0 |
| | 1.92 | 746.46 | 7104 | 1.28 | 41000 | PL0840 | 710 | - M - - - | 1.5 | A | 90 | 13.8 |
| | 1.82 | 787.68 | 7496 | 1.22 | 41000 | PL0840 | 800 | - M - - - | 1.5 | A | 90 | 13.8 |
| | 1.60 | 894.16 | 8509 | 1.07 | 41000 | PL0840 | 900 | - M - - - | 1.5 | A | 90 | 13.6 |
| | 1.50 | 952.83 | 9068 | 1.00 | 41000 | PL0840 | 10C | - M - - - | 1.5 | A | 90 | 13.6 |
| | 5.06 | 282.33 | 2715 | 2.65 | 41000 | PL1230 | 280 | - M - - - | 1.5 | A | 90 | 18.4 |
| | 4.26 | 335.90 | 3230 | 1.88 | 41000 | PL1230 | 360 | - M - - - | 1.5 | A | 90 | 18.4 |
| | 3.69 | 387.05 | 3683 | 3.06 | 41000 | PL1240 | 400 | - M - - - | 1.5 | A | 90 | 15.5 |
| | 3.05 | 469.20 | 4465 | 2.53 | 41000 | PL1240 | 450 | - M - - - | 1.5 | A | 90 | 15.5 |
| | 2.80 | 510.11 | 4855 | 2.32 | 41000 | PL1240 | 500 | - M - - - | 1.5 | A | 90 | 15.5 |
| | 2.54 | 562.04 | 5349 | 2.11 | 41000 | PL1240 | 560 | - M - - - | 1.5 | A | 90 | 15.5 |
| | 2.32 | 617.07 | 5872 | 1.92 | 41000 | PL1240 | 630 | - M - - - | 1.5 | A | 90 | 15.3 |
| | 1.92 | 746.46 | 7104 | 1.59 | 41000 | PL1240 | 710 | - M - - - | 1.5 | A | 90 | 15.0 |
| | 1.82 | 787.68 | 7496 | 1.50 | 41000 | PL1240 | 800 | - M - - - | 1.5 | A | 90 | 15.0 |
| | 1.60 | 894.16 | 8509 | 1.33 | 41000 | PL1240 | 900 | - M - - - | 1.5 | A | 90 | 14.8 |
| | 1.50 | 952.83 | 9068 | 1.24 | 41000 | PL1240 | 10C | - M - - - | 1.5 | A | 90 | 14.8 |
| | 1.24 | 1152.62 | 10969 | 1.03 | 41000 | PL1240 | 11C | - M - - - | 1.5 | A | 90 | 14.6 |
| | 1.04 | 1371.33 | 13050 | 0.86 | 41000 | PL1240 | 12C | - M - - - | 1.5 | A | 90 | 14.6 |
| 2.2 kW | 65.2 | 22.22 | 312 | 2.88 | 11765 | PL0120 | 22. | - M - - - | 2.2 | A | 100 | 8.9 |
| | 60.1 | 24.11 | 339 | 3.28 | 12763 | PL0120 | 25. | - M - - - | 2.2 | A | 100 | 8.7 |
| 4-pole | 49.7 | 29.17 | 410 | 2.71 | 13000 | PL0120 | 28. | - M - - - | 2.2 | A | 100 | 8.0 |
| | 41.0 | 35.36 | 497 | 1.81 | 13000 | PL0120 | 36. | - M - - - | 2.2 | A | 100 | 8.0 |
| | 37.7 | 38.44 | 540 | 1.16 | 13000 | PL0120 | 40. | - M - - - | 2.2 | A | 100 | 8.5 |
| | 31.2 | 46.50 | 654 | 0.96 | 13000 | PL0120 | 45. | - M - - - | 2.2 | A | 100 | 7.8 |
| | 24.7 | 58.81 | 818 | 1.36 | 13000 | PL0130 | 63. | - M - - - | 2.2 | A | 100 | 6.2 |
| | 20.3 | 71.30 | 992 | 1.12 | 13000 | PL0130 | 71. | - M - - - | 2.2 | A | 100 | 6.2 |
| | 16.8 | 86.43 | 1202 | 0.92 | 13000 | PL0130 | 80. | - M - - - | 2.2 | A | 100 | 6.2 |
| | 41.0 | 35.36 | 497 | 3.34 | 13000 | PL0220 | 36. | - M - - - | 2.2 | A | 100 | 8.2 |
| | 37.7 | 38.44 | 540 | 2.15 | 13000 | PL0220 | 40. | - M - - - | 2.2 | A | 100 | 8.8 |
| | 31.2 | 46.50 | 654 | 1.78 | 13000 | PL0220 | 45. | - M - - - | 2.2 | A | 100 | 8.1 |
| | 25.8 | 56.25 | 791 | 1.08 | 13000 | PL0220 | 56. | - M - - - | 2.2 | A | 100 | 7.4 |
| | 24.7 | 58.81 | 818 | 2.51 | 13000 | PL0230 | 63. | - M - - - | 2.2 | A | 100 | 6.5 |
| | 20.3 | 71.30 | 992 | 2.07 | 13000 | PL0230 | 71. | - M - - - | 2.2 | A | 100 | 6.5 |
| | 16.8 | 86.43 | 1202 | 1.71 | 13000 | PL0230 | 80. | - M - - - | 2.2 | A | 100 | 6.5 |
| | 15.5 | 93.77 | 1304 | 1.57 | 13000 | PL0230 | 90. | - M - - - | 2.2 | A | 100 | 6.3 |
| | 13.8 | 104.77 | 1457 | 1.14 | 13000 | PL0230 | 100 | - M - - - | 2.2 | A | 100 | 6.3 |
| | 12.8 | 113.43 | 1578 | 1.30 | 13000 | PL0230 | 112 | - M - - - | 2.2 | A | 100 | 6.2 |
| | 9.7 | 149.49 | 2079 | 0.99 | 13000 | PL0230 | 140 | - M - - - | 2.2 | A | 100 | 6.2 |

SERIES P

MOTORISED RATINGS

| | n2 | Ratio i | M2 (Nm) | fm | Fr2 (N) | Unit Designation | | | | | Motor Frame | Pt (kW) |
|---------------|------|------------|------------|------|---------|------------------|-----|-----------|-----|---|----------------|------------|
| 2.2 kW | 8.7 | 166.68 | 2319 | 0.88 | 13000 | PL0230 | 160 | - M - - - | 2.2 | A | 100 | 6.2 |
| 4-pole | 34.4 | 42.19 | 593 | 3.39 | 28500 | PL0320 | 45. | - M - - - | 2.2 | A | 100 | 13.8 |
| | 28.9 | 50.19 | 705 | 2.12 | 28500 | PL0320 | 50. | - M - - - | 2.2 | A | 100 | 12.7 |
| | 26.3 | 55.09 | 766 | 4.44 | 28500 | PL0330 | 56. | - M - - - | 2.2 | A | 100 | 11.1 |
| | 21.7 | 66.79 | 929 | 3.66 | 28500 | PL0330 | 71. | - M - - - | 2.2 | A | 100 | 11.1 |
| | 17.9 | 80.96 | 1126 | 3.02 | 28500 | PL0330 | 80. | - M - - - | 2.2 | A | 100 | 11.1 |
| | 16.5 | 87.83 | 1222 | 2.78 | 28500 | PL0330 | 90. | - M - - - | 2.2 | A | 100 | 10.9 |
| | 15.0 | 96.98 | 1349 | 2.14 | 28500 | PL0330 | 100 | - M - - - | 2.2 | A | 100 | 10.9 |
| | 13.6 | 106.48 | 1481 | 2.30 | 28500 | PL0330 | 112 | - M - - - | 2.2 | A | 100 | 10.6 |
| | 11.3 | 128.80 | 1792 | 1.90 | 28500 | PL0330 | 125 | - M - - - | 2.2 | A | 100 | 10.6 |
| | 10.4 | 140.03 | 1948 | 1.75 | 28500 | PL0330 | 140 | - M - - - | 2.2 | A | 100 | 10.6 |
| | 9.4 | 154.29 | 2146 | 1.35 | 28500 | PL0330 | 160 | - M - - - | 2.2 | A | 100 | 10.4 |
| | 8.6 | 169.39 | 2356 | 1.44 | 28500 | PL0330 | 180 | - M - - - | 2.2 | A | 100 | 10.4 |
| | 7.1 | 204.91 | 2850 | 1.19 | 28500 | PL0330 | 200 | - M - - - | 2.2 | A | 100 | 10.2 |
| | 5.9 | 245.45 | 3414 | 0.85 | 28500 | PL0330 | 250 | - M - - - | 2.2 | A | 100 | 10.2 |
| | 13.6 | 106.48 | 1481 | 3.53 | 28500 | PL0530 | 112 | - M - - - | 2.2 | A | 100 | 11.1 |
| | 11.3 | 128.80 | 1792 | 2.92 | 28500 | PL0530 | 125 | - M - - - | 2.2 | A | 100 | 11.1 |
| | 10.4 | 140.03 | 1948 | 2.69 | 28500 | PL0530 | 140 | - M - - - | 2.2 | A | 100 | 11.1 |
| | 9.4 | 154.29 | 2146 | 2.07 | 28500 | PL0530 | 160 | - M - - - | 2.2 | A | 100 | 10.8 |
| | 8.6 | 169.39 | 2356 | 2.22 | 28500 | PL0530 | 180 | - M - - - | 2.2 | A | 100 | 10.8 |
| | 7.1 | 204.91 | 2850 | 1.84 | 28500 | PL0530 | 200 | - M - - - | 2.2 | A | 100 | 10.6 |
| | 5.9 | 245.45 | 3414 | 1.30 | 28500 | PL0530 | 250 | - M - - - | 2.2 | A | 100 | 10.6 |
| | 5.5 | 261.56 | 3638 | 0.85 | 28500 | PL0530 | 280 | - M - - - | 2.2 | A | 100 | 10.4 |
| | 10.2 | 142.81 | 1986 | 3.77 | 41000 | PL0830 | 140 | - M - - - | 2.2 | A | 100 | 17.6 |
| | 9.4 | 153.68 | 2138 | 4.26 | 41000 | PL0830 | 160 | - M - - - | 2.2 | A | 100 | 17.6 |
| | 7.9 | 182.84 | 2543 | 3.58 | 41000 | PL0830 | 180 | - M - - - | 2.2 | A | 100 | 17.3 |
| | 6.6 | 219.02 | 3047 | 2.46 | 41000 | PL0830 | 225 | - M - - - | 2.2 | A | 100 | 17.3 |
| | 6.1 | 237.30 | 3301 | 1.63 | 41000 | PL0830 | 250 | - M - - - | 2.2 | A | 100 | 16.9 |
| | 5.1 | 282.33 | 3927 | 1.37 | 41000 | PL0830 | 280 | - M - - - | 2.2 | A | 100 | 16.9 |
| | 3.7 | 387.05 | 5328 | 1.71 | 41000 | PL0840 | 400 | - M - - - | 2.2 | A | 100 | 14.2 |
| | 3.1 | 469.20 | 6459 | 1.41 | 41000 | PL0840 | 450 | - M - - - | 2.2 | A | 100 | 14.2 |
| | 2.8 | 510.11 | 7022 | 1.30 | 41000 | PL0840 | 500 | - M - - - | 2.2 | A | 100 | 14.2 |
| | 2.6 | 562.04 | 7737 | 1.18 | 41000 | PL0840 | 560 | - M - - - | 2.2 | A | 100 | 14.2 |
| | 2.3 | 617.07 | 8494 | 1.07 | 41000 | PL0840 | 630 | - M - - - | 2.2 | A | 100 | 14.0 |
| | 1.9 | 746.46 | 10275 | 0.89 | 41000 | PL0840 | 710 | - M - - - | 2.2 | A | 100 | 13.8 |
| | 6.6 | 219.02 | 3047 | 3.28 | 41000 | PL1230 | 225 | - M - - - | 2.2 | A | 100 | 18.8 |
| | 6.1 | 237.30 | 3301 | 2.18 | 41000 | PL1230 | 250 | - M - - - | 2.2 | A | 100 | 18.4 |
| | 5.1 | 282.33 | 3927 | 1.83 | 41000 | PL1230 | 280 | - M - - - | 2.2 | A | 100 | 18.4 |
| | 4.3 | 335.90 | 4672 | 1.30 | 41000 | PL1230 | 360 | - M - - - | 2.2 | A | 100 | 18.4 |
| | 3.7 | 387.05 | 5328 | 2.12 | 41000 | PL1240 | 400 | - M - - - | 2.2 | A | 100 | 15.5 |
| | 3.1 | 469.20 | 6459 | 1.75 | 41000 | PL1240 | 450 | - M - - - | 2.2 | A | 100 | 15.5 |
| | 2.8 | 510.11 | 7022 | 1.61 | 41000 | PL1240 | 500 | - M - - - | 2.2 | A | 100 | 15.5 |
| | 2.6 | 562.04 | 7737 | 1.46 | 41000 | PL1240 | 560 | - M - - - | 2.2 | A | 100 | 15.5 |
| | 2.3 | 617.07 | 8494 | 1.33 | 41000 | PL1240 | 630 | - M - - - | 2.2 | A | 100 | 15.3 |
| | 1.9 | 746.46 | 10275 | 1.10 | 41000 | PL1240 | 710 | - M - - - | 2.2 | A | 100 | 15.0 |
| | 1.8 | 787.68 | 10843 | 1.04 | 41000 | PL1240 | 800 | - M - - - | 2.2 | A | 100 | 15.0 |
| | 1.6 | 894.16 | 12308 | 0.92 | 41000 | PL1240 | 900 | - M - - - | 2.2 | A | 100 | 14.8 |
| | 1.5 | 952.83 | 13116 | 0.86 | 41000 | PL1240 | 10C | - M - - - | 2.2 | A | 100 | 14.8 |
| 3.0 kW | 79.1 | 18.33 | 351 | 3.16 | 9705 | PL0120 | 18. | - M - - - | 3.0 | A | 100 | 8.9 |
| 4-pole | 65.2 | 22.22 | 426 | 2.11 | 11765 | PL0120 | 22. | - M - - - | 3.0 | A | 100 | 8.9 |
| | 60.1 | 24.11 | 462 | 2.40 | 12763 | PL0120 | 25. | - M - - - | 3.0 | A | 100 | 8.7 |
| | 49.7 | 29.17 | 559 | 1.99 | 13000 | PL0120 | 28. | - M - - - | 3.0 | A | 100 | 8.0 |
| | 41.0 | 35.36 | 678 | 1.33 | 13000 | PL0120 | 36. | - M - - - | 3.0 | A | 100 | 8.0 |
| | 37.7 | 38.44 | 737 | 0.85 | 13000 | PL0120 | 40. | - M - - - | 3.0 | A | 100 | 8.5 |
| | 49.7 | 29.17 | 559 | 3.67 | 13000 | PL0220 | 28. | - M - - - | 3.0 | A | 100 | 9.0 |
| | 41.0 | 35.36 | 678 | 2.45 | 13000 | PL0220 | 36. | - M - - - | 3.0 | A | 100 | 8.2 |
| | 37.7 | 38.44 | 737 | 1.58 | 13000 | PL0220 | 40. | - M - - - | 3.0 | A | 100 | 8.2 |
| | 31.2 | 46.50 | 891 | 1.30 | 13000 | PL0220 | 45. | - M - - - | 3.0 | A | 100 | 8.8 |
| | 25.8 | 56.25 | 1078 | 0.79 | 13000 | PL0220 | 56. | - M - - - | 3.0 | A | 100 | 8.1 |
| | 24.7 | 58.81 | 1116 | 1.84 | 13000 | PL0230 | 63. | - M - - - | 3.0 | A | 100 | 6.5 |
| | 20.3 | 71.30 | 1352 | 1.52 | 13000 | PL0230 | 71. | - M - - - | 3.0 | A | 100 | 6.5 |
| | 16.8 | 86.43 | 1639 | 1.25 | 13000 | PL0230 | 80. | - M - - - | 3.0 | A | 100 | 6.5 |

SERIES P

MOTORISED RATINGS

| | n2 | Ratio i | M2 (Nm) | fm | Fr2 (N) | Unit Designation | | | | | Motor Frame | Pt (kW) |
|---------------|-------|---------|---------|-------|---------|------------------|-----------|-----------|-----|-----|-------------|---------|
| 3.0 kW | 15.5 | 93.77 | 1779 | 1.15 | 13000 | PL0230 | 90. | - M - - - | 3.0 | A | 100 | 6.5 |
| | 13.8 | 104.77 | 1987 | 0.84 | 13000 | PL0230 | 100 | - M - - - | 3.0 | A | 100 | 6.5 |
| 4-pole | 12.8 | 113.43 | 2151 | 0.95 | 13000 | PL0230 | 112 | - M - - - | 3.0 | A | 100 | 6.5 |
| | 41.6 | 34.88 | 668 | 3.00 | 28500 | PL0320 | 36. | - M - - - | 3.0 | A | 100 | 15.1 |
| | 34.4 | 42.19 | 809 | 2.48 | 28500 | PL0320 | 45. | - M - - - | 3.0 | A | 100 | 13.8 |
| | 28.9 | 50.19 | 962 | 1.55 | 28500 | PL0320 | 50. | - M - - - | 3.0 | A | 100 | 12.7 |
| | 26.3 | 55.09 | 1045 | 3.25 | 28500 | PL0330 | 56. | - M - - - | 3.0 | A | 100 | 11.1 |
| | 21.7 | 66.79 | 1267 | 2.68 | 28500 | PL0330 | 71. | - M - - - | 3.0 | A | 100 | 11.1 |
| | 17.9 | 80.96 | 1536 | 2.21 | 28500 | PL0330 | 80. | - M - - - | 3.0 | A | 100 | 11.1 |
| | 16.5 | 87.83 | 1666 | 2.04 | 28500 | PL0330 | 90. | - M - - - | 3.0 | A | 100 | 10.9 |
| | 15.0 | 96.98 | 1840 | 1.57 | 28500 | PL0330 | 100 | - M - - - | 3.0 | A | 100 | 10.9 |
| | 13.6 | 106.48 | 2020 | 1.68 | 28500 | PL0330 | 112 | - M - - - | 3.0 | A | 100 | 10.6 |
| | 11.3 | 128.80 | 2443 | 1.39 | 28500 | PL0330 | 125 | - M - - - | 3.0 | A | 100 | 10.6 |
| | 10.4 | 140.03 | 2656 | 1.28 | 28500 | PL0330 | 140 | - M - - - | 3.0 | A | 100 | 10.6 |
| | 9.4 | 154.29 | 2927 | 0.99 | 28500 | PL0330 | 160 | - M - - - | 3.0 | A | 100 | 10.4 |
| | 8.6 | 169.39 | 3213 | 1.06 | 28500 | PL0330 | 180 | - M - - - | 3.0 | A | 100 | 10.4 |
| | 7.1 | 204.91 | 3887 | 0.87 | 28500 | PL0330 | 200 | - M - - - | 3.0 | A | 100 | 10.2 |
| | 17.9 | 80.96 | 1536 | 3.41 | 28500 | PL0530 | 80. | - M - - - | 3.0 | A | 100 | 11.6 |
| | 16.5 | 87.83 | 1666 | 3.14 | 28500 | PL0530 | 90. | - M - - - | 3.0 | A | 100 | 11.4 |
| | 15.0 | 96.98 | 1840 | 2.41 | 28500 | PL0530 | 100 | - M - - - | 3.0 | A | 100 | 11.3 |
| | 13.6 | 106.48 | 2020 | 2.59 | 28500 | PL0530 | 112 | - M - - - | 3.0 | A | 100 | 11.1 |
| | 11.3 | 128.80 | 2443 | 2.14 | 28500 | PL0530 | 125 | - M - - - | 3.0 | A | 100 | 11.1 |
| | 10.4 | 140.03 | 2656 | 1.97 | 28500 | PL0530 | 140 | - M - - - | 3.0 | A | 100 | 11.1 |
| | 9.4 | 154.29 | 2927 | 1.52 | 28500 | PL0530 | 160 | - M - - - | 3.0 | A | 100 | 10.8 |
| | 8.6 | 169.39 | 3213 | 1.63 | 28500 | PL0530 | 180 | - M - - - | 3.0 | A | 100 | 10.8 |
| | 7.1 | 204.91 | 3887 | 1.35 | 28500 | PL0530 | 200 | - M - - - | 3.0 | A | 100 | 10.6 |
| | 5.9 | 245.45 | 4656 | 0.95 | 28500 | PL0530 | 250 | - M - - - | 3.0 | A | 100 | 10.6 |
| | 12.2 | 119.22 | 2261 | 4.03 | 41000 | PL0830 | 112 | - M - - - | 3.0 | A | 100 | 18.0 |
| | 11.4 | 127.04 | 2410 | 3.78 | 41000 | PL0830 | 125 | - M - - - | 3.0 | A | 100 | 18.0 |
| | 10.2 | 142.81 | 2709 | 2.77 | 41000 | PL0830 | 140 | - M - - - | 3.0 | A | 100 | 17.6 |
| | 9.4 | 153.68 | 2915 | 3.13 | 41000 | PL0830 | 160 | - M - - - | 3.0 | A | 100 | 17.6 |
| | 7.9 | 182.84 | 3468 | 2.63 | 41000 | PL0830 | 180 | - M - - - | 3.0 | A | 100 | 17.3 |
| | 6.6 | 219.02 | 4154 | 1.80 | 41000 | PL0830 | 225 | - M - - - | 3.0 | A | 100 | 17.3 |
| | 6.1 | 237.30 | 4501 | 1.20 | 41000 | PL0830 | 250 | - M - - - | 3.0 | A | 100 | 16.9 |
| | 5.1 | 282.33 | 5355 | 1.01 | 41000 | PL0830 | 280 | - M - - - | 3.0 | A | 100 | 16.9 |
| | 9.4 | 153.68 | 2915 | 3.87 | 41000 | PL1230 | 160 | - M - - - | 3.0 | A | 100 | 19.2 |
| | 7.9 | 182.84 | 3468 | 3.25 | 41000 | PL1230 | 180 | - M - - - | 3.0 | A | 100 | 18.8 |
| | 6.6 | 219.02 | 4154 | 2.41 | 41000 | PL1230 | 225 | - M - - - | 3.0 | A | 100 | 18.8 |
| | 6.1 | 237.30 | 4501 | 1.60 | 41000 | PL1230 | 250 | - M - - - | 3.0 | A | 100 | 18.4 |
| | 5.1 | 282.33 | 5355 | 1.34 | 41000 | PL1230 | 280 | - M - - - | 3.0 | A | 100 | 18.4 |
| | 4.3 | 335.90 | 6371 | 0.95 | 41000 | PL1230 | 360 | - M - - - | 3.0 | A | 100 | 18.4 |
| | 3.7 | 387.05 | 7265 | 1.55 | 41000 | PL1240 | 400 | - M - - - | 3.0 | A | 100 | 15.5 |
| | 3.1 | 469.20 | 8807 | 1.28 | 41000 | PL1240 | 450 | - M - - - | 3.0 | A | 100 | 15.5 |
| | 2.8 | 510.11 | 9575 | 1.18 | 41000 | PL1240 | 500 | - M - - - | 3.0 | A | 100 | 15.5 |
| | 2.6 | 562.04 | 10550 | 1.07 | 41000 | PL1240 | 560 | - M - - - | 3.0 | A | 100 | 15.5 |
| | 2.3 | 617.07 | 11583 | 0.97 | 41000 | PL1240 | 630 | - M - - - | 3.0 | A | 100 | 15.3 |
| | 1.9 | 746.46 | 14012 | 0.80 | 41000 | PL1240 | 710 | - M - - - | 3.0 | A | 100 | 15.0 |
| 4.0 kW | 95.9 | 15.12 | 386 | 2.48 | 8006 | PL0120 | 16. | - M - - - | 4.0 | A | 112 | 8.9 |
| | 79.1 | 18.33 | 468 | 2.17 | 9705 | PL0120 | 18. | - M - - - | 4.0 | A | 112 | 8.9 |
| 4-pole | 65.2 | 22.22 | 568 | 1.48 | 11765 | PL0120 | 22. | - M - - - | 4.0 | A | 112 | 8.9 |
| | 60.1 | 24.11 | 616 | 1.69 | 12763 | PL0120 | 25. | - M - - - | 4.0 | A | 112 | 8.9 |
| | 49.7 | 29.17 | 745 | 1.41 | 13000 | PL0120 | 28. | - M - - - | 4.0 | A | 112 | 8.9 |
| | 41.0 | 35.36 | 904 | 1.00 | 13000 | PL0120 | 36. | - M - - - | 4.0 | A | 112 | 8.7 |
| | 79.1 | 18.33 | 468 | 3.71 | 9705 | PL0220 | 18. | - M - - - | 4.0 | A | 112 | 9.3 |
| | 65.2 | 22.22 | 568 | 2.73 | 11765 | PL0220 | 22. | - M - - - | 4.0 | A | 112 | 9.3 |
| | 60.1 | 24.11 | 616 | 3.07 | 12763 | PL0220 | 25. | - M - - - | 4.0 | A | 112 | 9.0 |
| | 49.7 | 29.17 | 745 | 2.61 | 13000 | PL0220 | 28. | - M - - - | 4.0 | A | 112 | 8.2 |
| 41.0 | 35.36 | 904 | 1.84 | 13000 | PL0220 | 36. | - M - - - | 4.0 | A | 112 | 8.2 | |
| 37.7 | 38.44 | 982 | 1.18 | 13000 | PL0220 | 40. | - M - - - | 4.0 | A | 112 | 8.8 | |
| 31.2 | 46.50 | 1188 | 0.98 | 13000 | PL0220 | 45. | - M - - - | 4.0 | A | 112 | 8.1 | |
| 24.7 | 58.81 | 1487 | 1.38 | 13000 | PL0230 | 63. | - M - - - | 4.0 | A | 112 | 6.5 | |
| 20.3 | 71.30 | 1803 | 1.14 | 13000 | PL0230 | 71. | - M - - - | 4.0 | A | 112 | 6.5 | |
| 16.8 | 86.43 | 2186 | 0.94 | 13000 | PL0230 | 80. | - M - - - | 4.0 | A | 112 | 6.5 | |

SERIES P

MOTORISED RATINGS

| | n2 | Ratio i | M2 (Nm) | fm | Fr2 (N) | Unit Designation | | | | | Motor Frame | Pt (kW) |
|---------------|-------|------------|------------|-------|---------|------------------|-----------|-----------|-----|-----|----------------|------------|
| 4.0 kW | 15.5 | 93.77 | 2371 | 0.86 | 13000 | PL0230 | 90. | - M - - - | 4.0 | A | 112 | 6.3 |
| 4-pole | 44.3 | 32.73 | 836 | 3.45 | 28500 | PL0320 | 32. | - M - - - | 4.0 | A | 112 | 14.1 |
| | 41.6 | 34.88 | 891 | 2.25 | 28500 | PL0320 | 36. | - M - - - | 4.0 | A | 112 | 15.1 |
| | 34.4 | 42.19 | 1078 | 1.86 | 28500 | PL0320 | 45. | - M - - - | 4.0 | A | 112 | 13.8 |
| | 28.9 | 50.19 | 1283 | 1.16 | 28500 | PL0320 | 50. | - M - - - | 4.0 | A | 112 | 12.7 |
| | 26.3 | 55.09 | 1393 | 2.44 | 28500 | PL0330 | 56. | - M - - - | 4.0 | A | 112 | 11.1 |
| | 21.7 | 66.79 | 1689 | 2.01 | 28500 | PL0330 | 71. | - M - - - | 4.0 | A | 112 | 11.1 |
| | 17.9 | 80.96 | 2048 | 1.66 | 28500 | PL0330 | 80. | - M - - - | 4.0 | A | 112 | 11.1 |
| | 16.5 | 87.83 | 2221 | 1.53 | 28500 | PL0330 | 90. | - M - - - | 4.0 | A | 112 | 10.9 |
| | 15.0 | 96.98 | 2453 | 1.18 | 28500 | PL0330 | 100 | - M - - - | 4.0 | A | 112 | 10.9 |
| | 13.6 | 106.48 | 2693 | 1.26 | 28500 | PL0330 | 112 | - M - - - | 4.0 | A | 112 | 10.6 |
| | 11.3 | 128.80 | 3258 | 1.04 | 28500 | PL0330 | 125 | - M - - - | 4.0 | A | 112 | 10.6 |
| | 10.4 | 140.03 | 3542 | 0.96 | 28500 | PL0330 | 140 | - M - - - | 4.0 | A | 112 | 10.6 |
| | 26.3 | 55.09 | 1393 | 3.75 | 28500 | PL0530 | 56. | - M - - - | 4.0 | A | 112 | 11.6 |
| | 21.7 | 66.79 | 1689 | 3.10 | 28500 | PL0530 | 71. | - M - - - | 4.0 | A | 112 | 11.6 |
| | 17.9 | 80.96 | 2048 | 2.55 | 28500 | PL0530 | 80. | - M - - - | 4.0 | A | 112 | 11.6 |
| | 16.5 | 87.83 | 2221 | 2.35 | 28500 | PL0530 | 90. | - M - - - | 4.0 | A | 112 | 11.6 |
| | 15.0 | 96.98 | 2453 | 1.81 | 28500 | PL0530 | 100 | - M - - - | 4.0 | A | 112 | 11.6 |
| | 13.6 | 106.48 | 2693 | 1.94 | 28500 | PL0530 | 112 | - M - - - | 4.0 | A | 112 | 11.6 |
| | 11.3 | 128.80 | 3258 | 1.61 | 28500 | PL0530 | 125 | - M - - - | 4.0 | A | 112 | 11.6 |
| | 10.4 | 140.03 | 3542 | 1.48 | 28500 | PL0530 | 140 | - M - - - | 4.0 | A | 112 | 11.6 |
| | 9.4 | 154.29 | 3902 | 1.14 | 28500 | PL0530 | 160 | - M - - - | 4.0 | A | 112 | 11.6 |
| | 8.6 | 169.39 | 4284 | 1.22 | 28500 | PL0530 | 180 | - M - - - | 4.0 | A | 112 | 11.6 |
| | 7.1 | 204.91 | 5182 | 1.01 | 28500 | PL0530 | 200 | - M - - - | 4.0 | A | 112 | 11.6 |
| | 16.2 | 89.77 | 2270 | 3.30 | 41000 | PL0830 | 90. | - M - - - | 4.0 | A | 112 | 18.4 |
| | 14.7 | 98.56 | 2493 | 3.66 | 41000 | PL0830 | 100 | - M - - - | 4.0 | A | 112 | 18.0 |
| | 12.2 | 119.22 | 3015 | 3.02 | 41000 | PL0830 | 112 | - M - - - | 4.0 | A | 112 | 18.0 |
| | 11.4 | 127.04 | 3213 | 2.84 | 41000 | PL0830 | 125 | - M - - - | 4.0 | A | 112 | 18.0 |
| | 10.2 | 142.81 | 3612 | 2.07 | 41000 | PL0830 | 140 | - M - - - | 4.0 | A | 112 | 17.6 |
| | 9.4 | 153.68 | 3887 | 2.34 | 41000 | PL0830 | 160 | - M - - - | 4.0 | A | 112 | 17.6 |
| | 7.9 | 182.84 | 4624 | 1.97 | 41000 | PL0830 | 180 | - M - - - | 4.0 | A | 112 | 17.3 |
| | 6.6 | 219.02 | 5539 | 1.35 | 41000 | PL0830 | 225 | - M - - - | 4.0 | A | 112 | 17.3 |
| | 6.1 | 237.30 | 6002 | 0.90 | 41000 | PL0830 | 250 | - M - - - | 4.0 | A | 112 | 16.9 |
| | 12.2 | 119.22 | 3015 | 3.74 | 41000 | PL1230 | 112 | - M - - - | 4.0 | A | 112 | 19.6 |
| | 11.4 | 127.04 | 3213 | 3.51 | 41000 | PL1230 | 125 | - M - - - | 4.0 | A | 112 | 19.6 |
| | 10.2 | 142.81 | 3612 | 2.77 | 41000 | PL1230 | 140 | - M - - - | 4.0 | A | 112 | 19.2 |
| | 9.4 | 153.68 | 3887 | 2.90 | 41000 | PL1230 | 160 | - M - - - | 4.0 | A | 112 | 19.2 |
| | 7.9 | 182.84 | 4624 | 2.44 | 41000 | PL1230 | 180 | - M - - - | 4.0 | A | 112 | 18.8 |
| | 6.6 | 219.02 | 5539 | 1.80 | 41000 | PL1230 | 225 | - M - - - | 4.0 | A | 112 | 18.8 |
| | 6.1 | 237.30 | 6002 | 1.20 | 41000 | PL1230 | 250 | - M - - - | 4.0 | A | 112 | 18.4 |
| | 5.1 | 282.33 | 7140 | 1.01 | 41000 | PL1230 | 280 | - M - - - | 4.0 | A | 112 | 18.4 |
| | 3.7 | 387.05 | 9687 | 1.16 | 41000 | PL1240 | 400 | - M - - - | 4.0 | A | 112 | 15.5 |
| | 3.1 | 469.20 | 11743 | 0.96 | 41000 | PL1240 | 450 | - M - - - | 4.0 | A | 112 | 15.5 |
| | 2.8 | 510.11 | 12767 | 0.88 | 41000 | PL1240 | 500 | - M - - - | 4.0 | A | 112 | 15.5 |
| 5.5 kW | 233.9 | 6.20 | 218 | 2.48 | 3282 | PL0110 | 6.3 | - M - - - | 5.5 | A | 132 | 14.7 |
| | 193.3 | 7.50 | 264 | 1.53 | 3970 | PL0110 | 7.1 | - M - - - | 5.5 | A | 132 | 12.5 |
| 4-pole | 95.9 | 15.12 | 531 | 1.80 | 8006 | PL0120 | 16. | - M - - - | 5.5 | A | 132 | 8.9 |
| | 79.1 | 18.33 | 644 | 1.58 | 9705 | PL0120 | 18. | - M - - - | 5.5 | A | 132 | 8.9 |
| | 65.2 | 22.22 | 781 | 1.07 | 11765 | PL0120 | 22. | - M - - - | 5.5 | A | 132 | 8.9 |
| | 60.1 | 24.11 | 847 | 1.23 | 12763 | PL0120 | 25. | - M - - - | 5.5 | A | 132 | 8.7 |
| | 49.7 | 29.17 | 1025 | 1.03 | 13000 | PL0120 | 28. | - M - - - | 5.5 | A | 132 | 8.0 |
| | 41.0 | 35.36 | 1242 | 0.70 | 13000 | PL0120 | 36. | - M - - - | 5.5 | A | 132 | 8.0 |
| | 95.9 | 15.12 | 531 | 3.09 | 8006 | PL0220 | 16. | - M - - - | 5.5 | A | 132 | 9.3 |
| | 79.1 | 18.33 | 644 | 2.70 | 9705 | PL0220 | 18. | - M - - - | 5.5 | A | 132 | 9.3 |
| | 65.2 | 22.22 | 781 | 1.98 | 11765 | PL0220 | 22. | - M - - - | 5.5 | A | 132 | 9.3 |
| | 60.1 | 24.11 | 847 | 2.23 | 12763 | PL0220 | 25. | - M - - - | 5.5 | A | 132 | 9.0 |
| | 49.7 | 29.17 | 1025 | 1.90 | 13000 | PL0220 | 28. | - M - - - | 5.5 | A | 132 | 8.2 |
| | 41.0 | 35.36 | 1242 | 1.28 | 13000 | PL0220 | 36. | - M - - - | 5.5 | A | 132 | 8.2 |
| | 37.7 | 38.44 | 1351 | 0.83 | 13000 | PL0220 | 40. | - M - - - | 5.5 | A | 132 | 8.8 |
| 70.5 | 20.57 | 723 | 3.71 | 28500 | PL0320 | 20. | - M - - - | 5.5 | A | 132 | 15.9 | |
| 64.2 | 22.59 | 794 | 3.65 | 28500 | PL0320 | 22. | - M - - - | 5.5 | A | 132 | 15.5 | |
| 53.1 | 27.32 | 960 | 3.19 | 28500 | PL0320 | 25. | - M - - - | 5.5 | A | 132 | 14.1 | |

SERIES P

MOTORISED RATINGS

| | n2 | Ratio i | M2 (Nm) | fm | Fr2 (N) | Unit Designation | | | | | Motor Frame | Pt (kW) |
|---------------|-------|------------|------------|------|---------|------------------|------|-----------|-----|---|----------------|------------|
| 5.5 kW | 44.3 | 32.73 | 1150 | 2.40 | 28500 | PL0320 | 32. | - M - - - | 5.5 | A | 132 | 14.1 |
| | 41.6 | 34.88 | 1225 | 1.57 | 28500 | PL0320 | 36. | - M - - - | 5.5 | A | 132 | 15.1 |
| 4-pole | 34.4 | 42.19 | 1482 | 1.32 | 28500 | PL0320 | 45. | - M - - - | 5.5 | A | 132 | 13.8 |
| | 28.9 | 50.19 | 1764 | 0.83 | 28500 | PL0320 | 50. | - M - - - | 5.5 | A | 132 | 12.7 |
| | 26.3 | 55.09 | 1916 | 1.75 | 28500 | PL0330 | 56. | - M - - - | 5.5 | A | 132 | 11.1 |
| | 21.7 | 66.79 | 2322 | 1.46 | 28500 | PL0330 | 71. | - M - - - | 5.5 | A | 132 | 11.1 |
| | 17.9 | 80.96 | 2815 | 1.22 | 28500 | PL0330 | 80. | - M - - - | 5.5 | A | 132 | 11.1 |
| | 16.5 | 87.83 | 3054 | 1.13 | 28500 | PL0330 | 90. | - M - - - | 5.5 | A | 132 | 10.9 |
| | 44.3 | 32.73 | 1150 | 3.69 | 28500 | PL0520 | 32. | - M - - - | 5.5 | A | 132 | 14.7 |
| | 41.6 | 34.88 | 1225 | 2.42 | 28500 | PL0520 | 36. | - M - - - | 5.5 | A | 132 | 15.7 |
| | 34.4 | 42.19 | 1482 | 2.02 | 28500 | PL0520 | 45. | - M - - - | 5.5 | A | 132 | 14.4 |
| | 28.9 | 50.19 | 1764 | 1.28 | 28500 | PL0520 | 50. | - M - - - | 5.5 | A | 132 | 13.3 |
| | 26.3 | 55.09 | 1916 | 2.70 | 28500 | PL0530 | 56. | - M - - - | 5.5 | A | 132 | 11.6 |
| | 21.7 | 66.79 | 2322 | 2.25 | 28500 | PL0530 | 71. | - M - - - | 5.5 | A | 132 | 11.6 |
| | 17.9 | 80.96 | 2815 | 1.88 | 28500 | PL0530 | 80. | - M - - - | 5.5 | A | 132 | 11.6 |
| | 16.5 | 87.83 | 3054 | 1.74 | 28500 | PL0530 | 90. | - M - - - | 5.5 | A | 132 | 11.4 |
| | 15.0 | 96.98 | 3372 | 1.35 | 28500 | PL0530 | 100. | - M - - - | 5.5 | A | 132 | 11.3 |
| | 13.6 | 106.48 | 3703 | 1.45 | 28500 | PL0530 | 112. | - M - - - | 5.5 | A | 132 | 11.1 |
| | 11.3 | 128.80 | 4479 | 1.22 | 28500 | PL0530 | 125. | - M - - - | 5.5 | A | 132 | 11.1 |
| | 10.4 | 140.03 | 4870 | 1.12 | 28500 | PL0530 | 140. | - M - - - | 5.5 | A | 132 | 11.1 |
| | 9.4 | 154.29 | 5365 | 0.87 | 28500 | PL0530 | 160. | - M - - - | 5.5 | A | 132 | 10.8 |
| | 8.6 | 169.39 | 5891 | 0.94 | 28500 | PL0530 | 180. | - M - - - | 5.5 | A | 132 | 10.8 |
| | 38.5 | 37.64 | 1323 | 3.93 | 41000 | PL0820 | 36. | - M - - - | 5.5 | A | 132 | 24.0 |
| | 32.4 | 44.79 | 1574 | 2.83 | 41000 | PL0820 | 45. | - M - - - | 5.5 | A | 132 | 22.1 |
| | 23.2 | 62.56 | 2176 | 4.01 | 41000 | PL0830 | 63. | - M - - - | 5.5 | A | 132 | 18.8 |
| | 19.3 | 74.94 | 2606 | 3.46 | 41000 | PL0830 | 71. | - M - - - | 5.5 | A | 132 | 18.8 |
| | 17.6 | 82.28 | 2861 | 3.22 | 41000 | PL0830 | 80. | - M - - - | 5.5 | A | 132 | 18.5 |
| | 16.2 | 89.77 | 3122 | 2.44 | 41000 | PL0830 | 90. | - M - - - | 5.5 | A | 132 | 18.4 |
| | 14.7 | 98.56 | 3427 | 2.72 | 41000 | PL0830 | 100. | - M - - - | 5.5 | A | 132 | 18.0 |
| | 12.2 | 119.22 | 4146 | 2.28 | 41000 | PL0830 | 112. | - M - - - | 5.5 | A | 132 | 18.0 |
| | 11.4 | 127.04 | 4418 | 2.15 | 41000 | PL0830 | 125. | - M - - - | 5.5 | A | 132 | 18.0 |
| | 10.2 | 142.81 | 4966 | 1.58 | 41000 | PL0830 | 140. | - M - - - | 5.5 | A | 132 | 17.6 |
| | 9.4 | 153.68 | 5344 | 1.80 | 41000 | PL0830 | 160. | - M - - - | 5.5 | A | 132 | 17.6 |
| | 7.9 | 182.84 | 6358 | 1.53 | 41000 | PL0830 | 180. | - M - - - | 5.5 | A | 132 | 17.3 |
| | 6.6 | 219.02 | 7616 | 1.06 | 41000 | PL0830 | 225. | - M - - - | 5.5 | A | 132 | 17.3 |
| | 17.6 | 82.28 | 2861 | 3.99 | 41000 | PL1230 | 80. | - M - - - | 5.5 | A | 132 | 20.2 |
| | 16.2 | 89.77 | 3122 | 3.26 | 41000 | PL1230 | 90. | - M - - - | 5.5 | A | 132 | 20.0 |
| | 14.7 | 98.56 | 3427 | 3.37 | 41000 | PL1230 | 100. | - M - - - | 5.5 | A | 132 | 19.6 |
| | 12.2 | 119.22 | 4146 | 2.82 | 41000 | PL1230 | 112. | - M - - - | 5.5 | A | 132 | 19.6 |
| | 11.4 | 127.04 | 4418 | 2.66 | 41000 | PL1230 | 125. | - M - - - | 5.5 | A | 132 | 19.6 |
| | 10.2 | 142.81 | 4966 | 2.11 | 41000 | PL1230 | 140. | - M - - - | 5.5 | A | 132 | 19.2 |
| | 9.4 | 153.68 | 5344 | 2.22 | 41000 | PL1230 | 160. | - M - - - | 5.5 | A | 132 | 19.2 |
| | 7.9 | 182.84 | 6358 | 1.89 | 41000 | PL1230 | 180. | - M - - - | 5.5 | A | 132 | 18.8 |
| | 6.6 | 219.02 | 7616 | 1.41 | 41000 | PL1230 | 225. | - M - - - | 5.5 | A | 132 | 18.8 |
| | 6.1 | 237.30 | 8252 | 0.94 | 41000 | PL1230 | 250. | - M - - - | 5.5 | A | 132 | 18.4 |
| 7.5 kW | 372.9 | 3.89 | 188 | 3.39 | 2059 | PL0110 | 3.6 | - M - - - | 7.5 | A | 132 | 15.4 |
| | 307.6 | 4.71 | 228 | 2.89 | 2496 | PL0110 | 4.5 | - M - - - | 7.5 | A | 132 | 15.4 |
| 4-pole | 233.9 | 6.20 | 300 | 1.80 | 3282 | PL0110 | 6.3 | - M - - - | 7.5 | A | 132 | 14.7 |
| | 193.3 | 7.50 | 363 | 1.11 | 3970 | PL0110 | 7.1 | - M - - - | 7.5 | A | 132 | 12.5 |
| | 95.9 | 15.12 | 725 | 1.32 | 8006 | PL0120 | 16. | - M - - - | 7.5 | A | 132 | 8.9 |
| | 79.1 | 18.33 | 878 | 1.16 | 9705 | PL0120 | 18. | - M - - - | 7.5 | A | 132 | 8.9 |
| | 65.2 | 22.22 | 1065 | 0.79 | 11765 | PL0120 | 22. | - M - - - | 7.5 | A | 132 | 8.9 |
| | 60.1 | 24.11 | 1155 | 0.90 | 12763 | PL0120 | 25. | - M - - - | 7.5 | A | 132 | 8.7 |
| | 49.7 | 29.17 | 1398 | 0.75 | 13000 | PL0120 | 28. | - M - - - | 7.5 | A | 132 | 8.0 |
| | 372.9 | 3.89 | 188 | 5.80 | 2059 | PL0210 | 3.6 | - M - - - | 7.5 | A | 132 | 16.0 |
| | 307.6 | 4.71 | 228 | 4.95 | 2496 | PL0210 | 4.5 | - M - - - | 7.5 | A | 132 | 16.0 |
| | 233.9 | 6.20 | 300 | 3.33 | 3282 | PL0210 | 6.3 | - M - - - | 7.5 | A | 132 | 15.3 |
| | 193.3 | 7.50 | 363 | 2.05 | 3970 | PL0210 | 7.1 | - M - - - | 7.5 | A | 132 | 13.0 |
| | 95.9 | 15.12 | 725 | 2.27 | 8006 | PL0220 | 16. | - M - - - | 7.5 | A | 132 | 9.3 |
| | 79.1 | 18.33 | 878 | 1.98 | 9705 | PL0220 | 18. | - M - - - | 7.5 | A | 132 | 9.3 |
| | 65.2 | 22.22 | 1065 | 1.45 | 11765 | PL0220 | 22. | - M - - - | 7.5 | A | 132 | 9.3 |
| | 60.1 | 24.11 | 1155 | 1.64 | 12763 | PL0220 | 25. | - M - - - | 7.5 | A | 132 | 9.0 |

SERIES P

MOTORISED RATINGS

| | n2 | Ratio i | M2 (Nm) | fm | Fr2 (N) | Unit Designation | | | | | Motor Frame | Pt (kW) |
|---------------|--------|------------|------------|-------|---------|------------------|-----------|-----------|-----|-----|----------------|------------|
| 7.5 kW | 49.7 | 29.17 | 1398 | 1.39 | 13000 | PL0220 | 28. | - M - - - | 7.5 | A | 132 | 8.2 |
| | 41.0 | 35.36 | 1694 | 0.94 | 13000 | PL0220 | 36. | - M - - - | 7.5 | A | 132 | 8.2 |
| 4-pole | 102.4 | 14.17 | 679 | 3.71 | 20930 | PL0320 | 14. | - M - - - | 7.5 | A | 132 | 15.9 |
| | 84.4 | 17.17 | 823 | 3.24 | 25373 | PL0320 | 16. | - M - - - | 7.5 | A | 132 | 15.9 |
| | 70.5 | 20.57 | 986 | 2.72 | 28500 | PL0320 | 20. | - M - - - | 7.5 | A | 132 | 15.9 |
| | 64.2 | 22.59 | 1082 | 2.68 | 28500 | PL0320 | 22. | - M - - - | 7.5 | A | 132 | 15.5 |
| | 53.1 | 27.32 | 1309 | 2.34 | 28500 | PL0320 | 25. | - M - - - | 7.5 | A | 132 | 14.1 |
| | 44.3 | 32.73 | 1568 | 1.76 | 28500 | PL0320 | 32. | - M - - - | 7.5 | A | 132 | 14.1 |
| | 41.6 | 34.88 | 1671 | 1.15 | 28500 | PL0320 | 36. | - M - - - | 7.5 | A | 132 | 15.1 |
| | 34.4 | 42.19 | 2021 | 0.96 | 28500 | PL0320 | 45. | - M - - - | 7.5 | A | 132 | 13.8 |
| | 70.5 | 20.57 | 986 | 3.94 | 28500 | PL0520 | 20. | - M - - - | 7.5 | A | 132 | 16.6 |
| | 64.2 | 22.59 | 1082 | 3.85 | 28500 | PL0520 | 22. | - M - - - | 7.5 | A | 132 | 16.1 |
| | 53.1 | 27.32 | 1309 | 3.37 | 28500 | PL0520 | 25. | - M - - - | 7.5 | A | 132 | 14.7 |
| | 44.3 | 32.73 | 1568 | 2.71 | 28500 | PL0520 | 32. | - M - - - | 7.5 | A | 132 | 14.7 |
| | 41.6 | 34.88 | 1671 | 1.77 | 28500 | PL0520 | 36. | - M - - - | 7.5 | A | 132 | 15.7 |
| | 34.4 | 42.19 | 2021 | 1.48 | 28500 | PL0520 | 45. | - M - - - | 7.5 | A | 132 | 14.4 |
| | 28.9 | 50.19 | 2405 | 0.94 | 28500 | PL0520 | 50. | - M - - - | 7.5 | A | 132 | 13.3 |
| | 26.3 | 55.09 | 2613 | 1.98 | 28500 | PL0530 | 56. | - M - - - | 7.5 | A | 132 | 11.6 |
| | 21.7 | 66.79 | 3167 | 1.65 | 28500 | PL0530 | 71. | - M - - - | 7.5 | A | 132 | 11.6 |
| | 17.9 | 80.96 | 3839 | 1.38 | 28500 | PL0530 | 80. | - M - - - | 7.5 | A | 132 | 11.6 |
| | 16.5 | 87.83 | 4165 | 1.28 | 28500 | PL0530 | 90. | - M - - - | 7.5 | A | 132 | 11.4 |
| | 15.0 | 96.98 | 4599 | 0.99 | 28500 | PL0530 | 100 | - M - - - | 7.5 | A | 132 | 11.3 |
| | 13.6 | 106.48 | 5049 | 1.07 | 28500 | PL0530 | 112 | - M - - - | 7.5 | A | 132 | 11.1 |
| | 11.3 | 128.80 | 6108 | 0.89 | 28500 | PL0530 | 125 | - M - - - | 7.5 | A | 132 | 11.1 |
| | 10.4 | 140.03 | 6640 | 0.82 | 28500 | PL0530 | 140 | - M - - - | 7.5 | A | 132 | 11.1 |
| | 45.8 | 31.64 | 1516 | 3.39 | 41000 | PL0820 | 32. | - M - - - | 7.5 | A | 132 | 26.2 |
| | 38.5 | 37.64 | 1804 | 2.88 | 41000 | PL0820 | 36. | - M - - - | 7.5 | A | 132 | 24.0 |
| | 32.4 | 44.79 | 2146 | 2.07 | 41000 | PL0820 | 45. | - M - - - | 7.5 | A | 132 | 22.1 |
| | 28.1 | 51.61 | 2447 | 3.36 | 41000 | PL0830 | 56. | - M - - - | 7.5 | A | 132 | 18.8 |
| | 23.2 | 62.56 | 2967 | 2.94 | 41000 | PL0830 | 63. | - M - - - | 7.5 | A | 132 | 18.8 |
| | 19.3 | 74.94 | 3554 | 2.53 | 41000 | PL0830 | 71. | - M - - - | 7.5 | A | 132 | 18.8 |
| | 17.6 | 82.28 | 3902 | 2.36 | 41000 | PL0830 | 80. | - M - - - | 7.5 | A | 132 | 18.5 |
| | 16.2 | 89.77 | 4257 | 1.79 | 41000 | PL0830 | 90. | - M - - - | 7.5 | A | 132 | 18.4 |
| | 14.7 | 98.56 | 4674 | 2.00 | 41000 | PL0830 | 100 | - M - - - | 7.5 | A | 132 | 18.0 |
| | 12.2 | 119.22 | 5654 | 1.67 | 41000 | PL0830 | 112 | - M - - - | 7.5 | A | 132 | 18.0 |
| | 11.4 | 127.04 | 6025 | 1.57 | 41000 | PL0830 | 125 | - M - - - | 7.5 | A | 132 | 18.0 |
| | 10.2 | 142.81 | 6772 | 1.16 | 41000 | PL0830 | 140 | - M - - - | 7.5 | A | 132 | 17.6 |
| | 9.4 | 153.68 | 7288 | 1.32 | 41000 | PL0830 | 160 | - M - - - | 7.5 | A | 132 | 17.6 |
| | 7.9 | 182.84 | 8671 | 1.12 | 41000 | PL0830 | 180 | - M - - - | 7.5 | A | 132 | 17.3 |
| | 32.4 | 44.79 | 2146 | 2.76 | 41000 | PL1220 | 45. | - M - - - | 7.5 | A | 132 | 23.4 |
| | 28.1 | 51.61 | 2447 | 4.16 | 41000 | PL1230 | 56. | - M - - - | 7.5 | A | 132 | 20.5 |
| | 23.2 | 62.56 | 2967 | 3.64 | 41000 | PL1230 | 63. | - M - - - | 7.5 | A | 132 | 20.5 |
| | 19.3 | 74.94 | 3554 | 3.19 | 41000 | PL1230 | 71. | - M - - - | 7.5 | A | 132 | 20.5 |
| | 17.6 | 82.28 | 3902 | 2.93 | 41000 | PL1230 | 80. | - M - - - | 7.5 | A | 132 | 20.2 |
| | 16.2 | 89.77 | 4257 | 2.39 | 41000 | PL1230 | 90. | - M - - - | 7.5 | A | 132 | 20.0 |
| | 14.7 | 98.56 | 4674 | 2.47 | 41000 | PL1230 | 100 | - M - - - | 7.5 | A | 132 | 19.6 |
| | 12.2 | 119.22 | 5654 | 2.07 | 41000 | PL1230 | 112 | - M - - - | 7.5 | A | 132 | 19.6 |
| | 11.4 | 127.04 | 6025 | 1.95 | 41000 | PL1230 | 125 | - M - - - | 7.5 | A | 132 | 19.6 |
| | 10.2 | 142.81 | 6772 | 1.55 | 41000 | PL1230 | 140 | - M - - - | 7.5 | A | 132 | 19.2 |
| 9.4 | 153.68 | 7288 | 1.63 | 41000 | PL1230 | 160 | - M - - - | 7.5 | A | 132 | 19.2 | |
| 7.9 | 182.84 | 8671 | 1.38 | 41000 | PL1230 | 180 | - M - - - | 7.5 | A | 132 | 18.8 | |
| 6.6 | 219.02 | 10386 | 1.04 | 41000 | PL1230 | 225 | - M - - - | 7.5 | A | 132 | 18.8 | |
| 11 kW | 398.0 | 3.64 | 259 | 6.48 | 5382 | PL0310 | 3.6 | - M - - - | 11. | A | 160 | 29.0 |
| | 332.3 | 4.36 | 310 | 5.61 | 6447 | PL0310 | 4.5 | - M - - - | 11. | A | 160 | 29.0 |
| 4-pole | 257.8 | 5.63 | 399 | 4.30 | 8311 | PL0310 | 5.6 | - M - - - | 11. | A | 160 | 27.6 |
| | 216.7 | 6.69 | 475 | 2.72 | 9887 | PL0310 | 7.1 | - M - - - | 11. | A | 160 | 23.5 |
| 398.0 | 3.64 | 259 | 9.32 | 5382 | PL0510 | 3.6 | - M - - - | 11. | A | 160 | 30.2 | |
| 332.3 | 4.36 | 310 | 7.87 | 6447 | PL0510 | 4.5 | - M - - - | 11. | A | 160 | 30.2 | |
| 257.8 | 5.63 | 399 | 6.35 | 8311 | PL0510 | 5.6 | - M - - - | 11. | A | 160 | 28.8 | |
| 216.7 | 6.69 | 475 | 4.18 | 9887 | PL0510 | 7.1 | - M - - - | 11. | A | 160 | 24.5 | |
| 398.0 | 3.64 | 259 | 6.48 | 5382 | PL0310 | 3.6 | - M - - - | 11. | A | 160 | 29.0 | |

SERIES P

MOTORISED RATINGS

| | n2 | Ratio i | M2 (Nm) | fm | Fr2 (N) | Unit Designation | | | | | Motor Frame | Pt (kW) |
|----------------|-------|------------|------------|------|---------|------------------|-----|-----------|-----|---|----------------|------------|
| 11 kW | 59.5 | 24.38 | 1713 | 3.84 | 41000 | PL0820 | 25. | - M - - - | 11. | A | 160 | 24.5 |
| | 49.7 | 29.20 | 2052 | 3.31 | 41000 | PL0820 | 28. | - M - - - | 11. | A | 160 | 24.5 |
| 4-pole | 45.8 | 31.64 | 2224 | 2.31 | 41000 | PL0820 | 32. | - M - - - | 11. | A | 160 | 26.2 |
| | 38.5 | 37.64 | 2645 | 1.97 | 41000 | PL0820 | 36 | - M - - - | 11. | A | 160 | 24.0 |
| | 32.4 | 44.79 | 3147 | 1.41 | 41000 | PL0820 | 45. | - M - - - | 11. | A | 160 | 22.1 |
| | 45.8 | 31.64 | 2224 | 3.09 | 41000 | PL1220 | 32. | - M - - - | 11. | A | 160 | 27.7 |
| | 38.5 | 37.64 | 2645 | 2.62 | 41000 | PL1220 | 36. | - M - - - | 11. | A | 160 | 25.3 |
| | 32.4 | 44.79 | 3147 | 1.88 | 41000 | PL1220 | 45. | - M - - - | 11. | A | 160 | 23.4 |
| 15 kW | 398.0 | 3.64 | 353 | 4.75 | 5382 | PL0310 | 3.6 | - M - - - | 15. | A | 160 | 29.0 |
| | 332.3 | 4.36 | 422 | 4.12 | 6447 | PL0310 | 4.5 | - M - - - | 15. | A | 160 | 29.0 |
| 4-pole | 257.8 | 5.63 | 545 | 3.15 | 8311 | PL0310 | 5.6 | - M - - - | 15. | A | 160 | 27.6 |
| | 216.7 | 6.69 | 648 | 1.99 | 9887 | PL0310 | 7.1 | - M - - - | 15. | A | 160 | 23.5 |
| | 398.0 | 3.64 | 353 | 6.84 | 5382 | PL0510 | 3.6 | - M - - - | 15. | A | 160 | 30.2 |
| | 332.3 | 4.36 | 422 | 5.77 | 6447 | PL0510 | 4.5 | - M - - - | 15. | A | 160 | 30.2 |
| | 257.8 | 5.63 | 545 | 4.66 | 8311 | PL0510 | 5.6 | - M - - - | 15. | A | 160 | 28.8 |
| | 216.7 | 6.69 | 648 | 3.07 | 9887 | PL0510 | 7.1 | - M - - - | 15. | A | 160 | 24.5 |
| | 109.3 | 13.27 | 1272 | 4.31 | 24832 | PL0820 | 14. | - M - - - | 15. | A | 160 | 27.6 |
| | 91.2 | 15.90 | 1523 | 3.79 | 29745 | PL0820 | 16. | - M - - - | 15. | A | 160 | 27.6 |
| | 76.2 | 19.04 | 1825 | 3.27 | 35630 | PL0820 | 20. | - M - - - | 15. | A | 160 | 27.6 |
| | 70.8 | 20.49 | 1964 | 3.18 | 38343 | PL0820 | 22. | - M - - - | 15. | A | 160 | 26.9 |
| | 59.5 | 24.38 | 2336 | 2.81 | 41000 | PL0820 | 25. | - M - - - | 15. | A | 160 | 24.5 |
| | 49.7 | 29.20 | 2798 | 2.43 | 41000 | PL0820 | 28. | - M - - - | 15. | A | 160 | 24.5 |
| | 45.8 | 31.64 | 3032 | 1.70 | 41000 | PL0820 | 32. | - M - - - | 15. | A | 160 | 26.2 |
| | 38.5 | 37.64 | 3607 | 1.44 | 41000 | PL0820 | 36 | - M - - - | 15. | A | 160 | 24.0 |
| | 32.4 | 44.79 | 4292 | 1.04 | 41000 | PL0820 | 45. | - M - - - | 15. | A | 160 | 22.1 |
| | 76.2 | 19.04 | 1825 | 4.05 | 35630 | PL1220 | 20. | - M - - - | 15. | A | 160 | 29.1 |
| | 70.8 | 20.49 | 1964 | 3.93 | 38343 | PL1220 | 22. | - M - - - | 15. | A | 160 | 28.4 |
| | 59.5 | 24.38 | 2336 | 3.48 | 41000 | PL1220 | 25. | - M - - - | 15. | A | 160 | 25.9 |
| | 49.7 | 29.20 | 2798 | 3.00 | 41000 | PL1220 | 28. | - M - - - | 15. | A | 160 | 25.9 |
| | 45.8 | 31.64 | 3032 | 2.26 | 41000 | PL1220 | 32. | - M - - - | 15. | A | 160 | 27.7 |
| | 38.5 | 37.64 | 3607 | 1.92 | 41000 | PL1220 | 36. | - M - - - | 15. | A | 160 | 25.3 |
| | 32.4 | 44.79 | 4292 | 1.38 | 41000 | PL1220 | 45. | - M - - - | 15. | A | 160 | 23.4 |
| 18.5 kW | 398.0 | 3.64 | 430 | 8.63 | 6817 | PL0810 | 3.6 | - M - - - | 18. | A | 180 | 44.4 |
| | 332.3 | 4.36 | 516 | 7.44 | 8165 | PL0810 | 4.5 | - M - - - | 18. | A | 180 | 44.4 |
| 4-pole | 257.8 | 5.63 | 665 | 6.05 | 10526 | PL0810 | 5.6 | - M - - - | 18. | A | 180 | 42.4 |
| | 216.7 | 6.69 | 791 | 4.99 | 12523 | PL0810 | 7.1 | - M - - - | 18. | A | 180 | 36.0 |
| | 109.3 | 13.27 | 1568 | 3.49 | 24832 | PL0820 | 14. | - M - - - | 18. | A | 180 | 27.6 |
| | 91.2 | 15.90 | 1878 | 3.08 | 29745 | PL0820 | 16. | - M - - - | 18. | A | 180 | 27.6 |
| | 76.2 | 19.04 | 2250 | 2.65 | 35630 | PL0820 | 20. | - M - - - | 18. | A | 180 | 27.6 |
| | 70.8 | 20.49 | 2421 | 2.58 | 38343 | PL0820 | 22. | - M - - - | 18. | A | 180 | 26.9 |
| | 59.5 | 24.38 | 2881 | 2.28 | 41000 | PL0820 | 25. | - M - - - | 18. | A | 180 | 24.5 |
| | 49.7 | 29.20 | 3451 | 1.97 | 41000 | PL0820 | 28. | - M - - - | 18. | A | 180 | 24.5 |
| | 45.8 | 31.64 | 3739 | 1.38 | 41000 | PL0820 | 32. | - M - - - | 18. | A | 180 | 26.2 |
| | 38.5 | 37.64 | 4448 | 1.17 | 41000 | PL0820 | 36 | - M - - - | 18. | A | 180 | 24.0 |
| | 32.4 | 44.79 | 5292 | 0.84 | 41000 | PL0820 | 45. | - M - - - | 18. | A | 180 | 22.1 |
| | 109.3 | 13.27 | 1568 | 4.32 | 24832 | PL1220 | 14. | - M - - - | 18. | A | 180 | 29.1 |
| | 91.2 | 15.90 | 1878 | 3.81 | 29745 | PL1220 | 16. | - M - - - | 18. | A | 180 | 29.1 |
| | 76.2 | 19.04 | 2250 | 3.28 | 35630 | PL1220 | 20. | - M - - - | 18. | A | 180 | 29.1 |
| | 70.8 | 20.49 | 2421 | 3.19 | 38343 | PL1220 | 22. | - M - - - | 18. | A | 180 | 28.4 |
| | 59.5 | 24.38 | 2881 | 2.82 | 41000 | PL1220 | 25. | - M - - - | 18. | A | 180 | 25.9 |
| | 49.7 | 29.20 | 3451 | 2.43 | 41000 | PL1220 | 28. | - M - - - | 18. | A | 180 | 25.9 |
| | 45.8 | 31.64 | 3739 | 1.84 | 41000 | PL1220 | 32. | - M - - - | 18. | A | 180 | 27.7 |
| | 38.5 | 37.64 | 4448 | 1.56 | 41000 | PL1220 | 36. | - M - - - | 18. | A | 180 | 25.3 |
| | 32.4 | 44.79 | 5292 | 1.12 | 41000 | PL1220 | 45. | - M - - - | 18. | A | 180 | 23.4 |

SERIES P

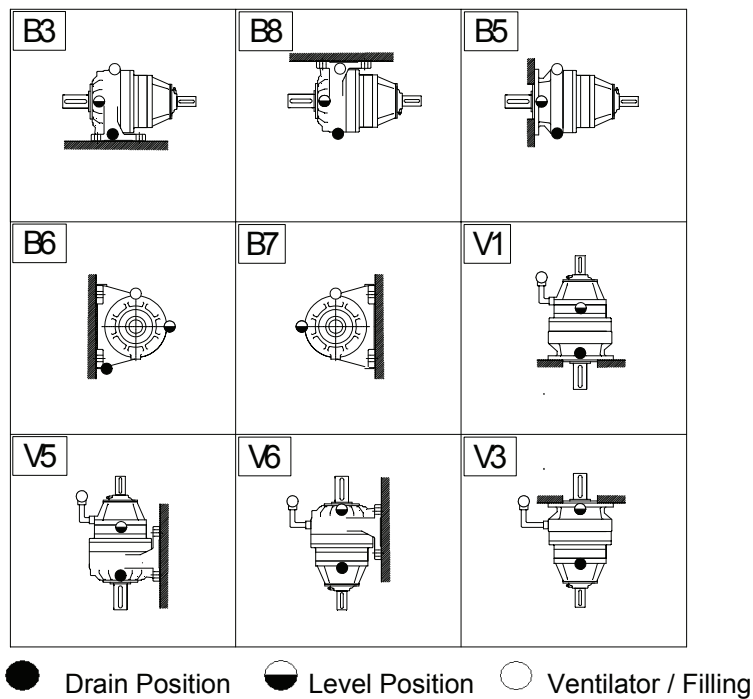
MOTORISED RATINGS

| | n2 | Ratio i | M2 (Nm) | fm | Fr2 (N) | Unit Designation | | | | | Motor Frame | Pt (kW) |
|---------------|-------|------------|------------|------|---------|------------------|-----|-----------|-----|---|----------------|------------|
| 22 kW | 398.0 | 3.64 | 517 | 7.18 | 6817 | PL0810 | 3.6 | - M - - - | 22. | A | 180 | 44.4 |
| | 332.3 | 4.36 | 620 | 6.19 | 8165 | PL0810 | 4.5 | - M - - - | 22. | A | 180 | 44.4 |
| 4-pole | 257.8 | 5.63 | 799 | 5.04 | 10526 | PL0810 | 5.6 | - M - - - | 22. | A | 180 | 42.4 |
| | 216.7 | 6.69 | 950 | 4.15 | 12523 | PL0810 | 7.1 | - M - - - | 22. | A | 180 | 36.0 |
| | 398.0 | 3.64 | 517 | 8.89 | 6817 | PL1210 | 3.6 | - M - - - | 22. | A | 180 | 46.3 |
| | 332.3 | 4.36 | 620 | 7.66 | 8165 | PL1210 | 4.5 | - M - - - | 22. | A | 180 | 46.3 |
| | 257.8 | 5.63 | 799 | 6.24 | 10526 | PL1210 | 5.6 | - M - - - | 22. | A | 180 | 44.1 |
| | 216.7 | 6.69 | 950 | 5.47 | 12523 | PL1210 | 7.1 | - M - - - | 22. | A | 180 | 37.5 |
| 30 kW | 398.0 | 3.64 | 705 | 5.27 | 6817 | PL0810 | 3.6 | - M - - - | 30. | A | 200 | 44.4 |
| | 332.3 | 4.36 | 845 | 4.54 | 8165 | PL0810 | 4.5 | - M - - - | 30. | A | 200 | 44.4 |
| 4-pole | 257.8 | 5.63 | 1089 | 3.69 | 10526 | PL0810 | 5.6 | - M - - - | 30. | A | 200 | 42.4 |
| | 216.7 | 6.69 | 1296 | 3.04 | 12523 | PL0810 | 7.1 | - M - - - | 30. | A | 200 | 36.0 |
| | 398.0 | 3.64 | 705 | 6.52 | 6817 | PL1210 | 3.6 | - M - - - | 30. | A | 200 | 46.3 |
| | 332.3 | 4.36 | 845 | 5.62 | 8165 | PL1210 | 4.5 | - M - - - | 30. | A | 200 | 46.3 |
| | 257.8 | 5.63 | 1089 | 4.57 | 10526 | PL1210 | 5.6 | - M - - - | 30. | A | 200 | 44.1 |
| | 216.7 | 6.69 | 1296 | 4.01 | 12523 | PL1210 | 7.1 | - M - - - | 30. | A | 200 | 37.5 |

Lubrication

1. Check that the ventilator is positioned correctly for the intended mounting position.
2. Gear units are supplied without lubricant and must be filled via the ventilator position with the appropriate lubricant until oil escapes through the level plug hole.
 - Please refer to the lubricant quantity table for approximate lubricant quantity
 - Refer to the unit nameplate for the type and grade of lubricant.
 - Refer the table of approved lubricants.
3. Maintenance: Oil levels should be checked and maintained by filling via the ventilator position until oil escapes through the level plug hole.

Mounting Positions and Lubrication Fill Levels



Lubricant Quantities (Litres)

| Position | PL0110 | PL0120 | PL0130 | PL0140 |
|-----------|--------|--------|--------|--------|
| B3 | 1.4 | 1.6 | 1.8 | 2.0 |
| B5 | 0.8 | 1.0 | 1.2 | 1.4 |
| B6 | 1.2 | 1.4 | 1.6 | 1.8 |
| B7 | 1.2 | 1.4 | 1.6 | 1.8 |
| B8 | 0.9 | 1.1 | 1.3 | 1.5 |
| V1 | 1.6 | 2.0 | 2.4 | 2.8 |
| V3 | 1.6 | 2.0 | 2.4 | 2.8 |
| V5 | 2.4 | 2.8 | 3.2 | 3.6 |
| V6 | 2.4 | 2.8 | 3.2 | 3.6 |

| PL0210 | PL0220 | PL0230 | PL0240 |
|--------|--------|--------|--------|
| 1.4 | 1.6 | 1.8 | 2.0 |
| 0.8 | 1.0 | 1.2 | 1.4 |
| 1.2 | 1.4 | 1.6 | 1.8 |
| 1.2 | 1.4 | 1.6 | 1.8 |
| 0.9 | 1.1 | 1.3 | 1.5 |
| 1.6 | 2.0 | 2.4 | 2.8 |
| 1.6 | 2.0 | 2.4 | 2.8 |
| 2.4 | 2.8 | 3.2 | 3.6 |
| 2.4 | 2.8 | 3.2 | 3.6 |

| PL0310 | PL0320 | PL0330 | PL0340 |
|--------|--------|--------|--------|
| 3.6 | 3.5 | 3.7 | 3.9 |
| 2.0 | 1.9 | 2.1 | 2.3 |
| 2.9 | 2.8 | 3.0 | 3.2 |
| 2.9 | 2.8 | 3.0 | 3.2 |
| 2.2 | 2.0 | 2.2 | 2.4 |
| 4.1 | 3.8 | 4.2 | 4.6 |
| 4.1 | 3.8 | 4.2 | 4.6 |
| 5.9 | 5.7 | 6.0 | 6.4 |
| 5.9 | 5.7 | 6.0 | 6.4 |

| Position | PL0510 | PL0520 | PL0530 | PL0540 |
|-----------|--------|--------|--------|--------|
| B3 | 3.6 | 3.5 | 3.7 | 3.9 |
| B5 | 2.0 | 1.9 | 2.1 | 2.3 |
| B6 | 2.9 | 2.8 | 3.0 | 3.2 |
| B7 | 2.9 | 2.8 | 3.0 | 3.2 |
| B8 | 2.1 | 2.0 | 2.2 | 2.4 |
| V1 | 4.0 | 3.8 | 4.2 | 4.6 |
| V3 | 4.0 | 3.8 | 4.2 | 4.6 |
| V5 | 5.9 | 5.6 | 6.0 | 6.4 |
| V6 | 5.9 | 5.6 | 6.0 | 6.4 |

| PL0810 | PL0820 | PL0830 | PL0840 |
|--------|--------|--------|--------|
| 6.7 | 6.9 | 6.8 | 7.0 |
| 3.3 | 3.6 | 3.5 | 3.7 |
| 5.3 | 5.6 | 5.5 | 5.7 |
| 5.3 | 5.6 | 5.5 | 5.7 |
| 3.7 | 3.9 | 3.8 | 4.0 |
| 6.6 | 7.2 | 7.0 | 7.4 |
| 6.6 | 7.2 | 7.0 | 7.4 |
| 10.7 | 11.2 | 11.0 | 11.4 |
| 10.7 | 11.2 | 11.0 | 11.4 |

| PL1210 | PL1220 | PL1230 | PL1240 |
|--------|--------|--------|--------|
| 6.7 | 7.0 | 6.9 | 7.1 |
| 3.4 | 3.6 | 3.5 | 3.7 |
| 5.4 | 5.6 | 5.5 | 5.7 |
| 5.4 | 5.6 | 5.5 | 5.7 |
| 3.7 | 4.0 | 3.9 | 4.1 |
| 6.7 | 7.2 | 7.0 | 7.4 |
| 6.7 | 7.2 | 7.0 | 7.4 |
| 10.8 | 11.3 | 11.1 | 11.5 |
| 10.8 | 11.3 | 11.1 | 11.5 |

Approved Lubricants

Type E CLP (CC)

Mineral Oil Containing Industrial Anti-Wear or EP Additives

| SUPPLIER | LUBRICANT TYPE | 5E | 6E | 7E |
|--------------------------------|--------------------------|-----------|-----------|-----------|
| BP Oil International Limited | Energol GR-XF | 220 (-16) | 320 (-13) | 460 (-1) |
| | Energol GR-XP | 220 (-15) | 320 (-10) | 460 (-7) |
| Caltex | Meropa | 220 (-4) | 320 (-4) | 460 (-4) |
| Castrol International | Alpha SP | 220 (-16) | 320 (-16) | 460 (-1) |
| Esso/Exxon | Spartan EP | 220 (-12) | 320 (-12) | 460 (-4) |
| Fuchs Lubricants | Renolin CLP | 220 (-16) | 320 (-14) | 460 (-12) |
| Klüber Lubrication | Klüberoil GEM1 | 220 (-5) | 320 (-5) | 460 (-5) |
| Kuwait Petroleum International | Q8 Goya | 220 (-16) | 320 (-13) | 460 (-10) |
| Mobil Oil Company Limited | Mobil gear 600-XP series | 630 (-13) | 632 (-13) | 634 (-1) |
| | Mobil gear XMP | 220 (-19) | 320 (-13) | 460 (-7) |
| Optimal Ölwerke GmbH | Optigear BM | 220 (-11) | 320 (-10) | 460 (-7) |
| Petro-Canada | Ultima EP | 220 (-22) | 320 (-16) | 460 (-10) |
| Rocol | Sapphire Hi-Torque | 220 (-13) | 320 (-13) | 460 (-13) |
| Shell Oils | Omala | 220 (-4) | 320 (-4) | 460 (-4) |
| | Omala F | 220 (-13) | 320 (-10) | 460 (-4) |
| Texaco Limited | Meropa | 220 (-16) | 320 (-16) | 460 (-10) |
| | Meropa WM | 220 (-19) | 320 (-16) | 460 (-11) |
| Total | Carter EP | 220 (-7) | 320 (-7) | 460 (-4) |
| Tribol GmbH | Tribol 1100 | 220 (-20) | 320 (-18) | 460 (-16) |

Type H CLP (HC)

Polyalphaolefin Synthetic Lubricants with Anti-Wear or EP additives

| SUPPLIER | LUBRICANT TYPE | 5H | 6H |
|--------------------------------|----------------------|-----------|-----------|
| BP Oil International Limited | Enersyn EPX | - | 320 (-28) |
| Caltex | Pinnacle EP | 220 (-43) | 320 (-43) |
| Castrol International | Alphasyn EP | 220 (-37) | 320 (-31) |
| | Alphasyn T | 220 (-31) | 320 (-28) |
| Esso/Exxon | Spartan Synthetic EP | 220 (-46) | 320 (-43) |
| Fuchs Lubricants | Renolin Unisyn CLP | 220 (-37) | 320 (-34) |
| Klüber Lubrication | Klübersynth GEM4 | 220 (-30) | 320 (-25) |
| Kuwait Petroleum International | Q8 El Greco | 220 (-22) | 320 (-19) |
| Mobil Oil Company Limited | Mobilgear SHC | 220 (-40) | 320 (-37) |
| Optimal Ölwerke GmbH | Optigear Synthetic A | 220 (-31) | 320 (-31) |
| Petro-Canada | Super Gear Fluid | 220 (-43) | 320 (-37) |
| Shell Oils | Omala HD | 220 (-43) | 320 (-40) |
| Texaco Limited | Pinnacle EP | 220 (-43) | 320 (-43) |
| Total | Carter SH | 220 (-34) | 320 (-31) |
| Tribol GmbH | Tribol 1510 | 220 (-36) | 320 (-33) |

Numbers in brackets indicate the minimum pour point temperature of the specified oil (°C)

THE GEAR UNIT MUST NOT BE RUN BELOW THIS TEMPERATURE

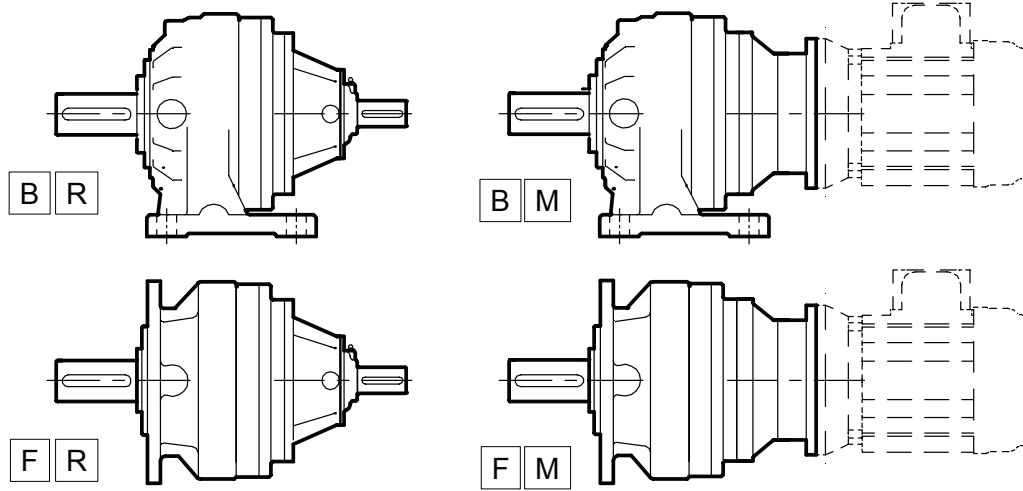
Approved Greases

NLGI grade 2 grease Suitable for operation in ambient temperatures of -20°C to 50°C
(For use outside of this range please contact our Application Engineers)

| SUPPLIER | GREASE TYPE |
|------------------------------|--------------------|
| BP Oil International Limited | Energrease LS-EP |
| Caltex | Mulfak EP |
| Castrol International | LMX Grease |
| Fuchs Lubricants | Renolit EP |
| Klüber Lubrication | Klüberlub BE41-542 |
| Mobil Oil Company Limited | Mobilgrease XHP |
| Omega | Omega 85 |
| Optimol | Longtime PD |
| Shell Oils | Albida RL |
| | Alvania EP B |
| Texaco Limited | Mulfak EP |

SERIES P

SHIPPING SPECIFICATION



| | | | 63 | | 71 | | 80 | | 90 | | 100 | | 112 | | 132 | | 160 | | 180 | | 200 | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | BR | FR | BM | FM | BM | FM | BM | FM | BM | FM | BM | FM | BM | FM | BM | FM | BM | FM | BM | FM | BM | FM |
| PL0110 | 30 | 27 | 28 | 25 | 28 | 25 | 30 | 27 | 30 | 27 | 31 | 27 | 31 | 27 | 32 | 29 | - | - | - | - | - | - |
| PL0120 | 36 | 33 | 34 | 31 | 35 | 31 | 36 | 33 | 36 | 33 | 37 | 34 | 37 | 34 | 38 | 35 | - | - | - | - | - | - |
| PL0130 | 42 | 39 | 40 | 37 | 41 | 38 | 42 | 39 | 42 | 39 | 43 | 40 | 43 | 40 | 44 | 41 | - | - | - | - | - | - |
| PL0140 | 48 | 45 | 46 | 43 | 47 | 44 | 48 | 45 | 48 | 45 | 49 | 46 | 49 | 46 | 51 | 48 | - | - | - | - | - | - |
| PL0210 | 32 | 29 | 30 | 27 | 31 | 28 | 32 | 29 | 32 | 29 | 33 | 30 | 33 | 30 | 34 | 31 | - | - | - | - | - | - |
| PL0220 | 38 | 35 | 36 | 33 | 37 | 34 | 38 | 35 | 38 | 35 | 39 | 36 | 39 | 36 | 41 | 37 | - | - | - | - | - | - |
| PL0230 | 45 | 42 | 43 | 40 | 43 | 40 | 45 | 42 | 45 | 42 | 46 | 42 | 46 | 42 | 47 | 44 | - | - | - | - | - | - |
| PL0240 | 51 | 48 | 49 | 46 | 50 | 46 | 51 | 48 | 51 | 48 | 52 | 49 | 52 | 49 | 53 | 50 | - | - | - | - | - | - |
| PL0310 | 65 | 58 | - | - | - | - | - | - | - | - | - | - | - | - | 64 | 57 | 67 | 61 | 67 | 61 | - | - |
| PL0320 | 65 | 59 | 64 | 57 | 64 | 58 | 65 | 59 | 65 | 59 | 66 | 60 | 66 | 60 | 68 | 61 | - | - | - | - | - | - |
| PL0330 | 72 | 66 | 70 | 64 | 70 | 64 | 72 | 66 | 72 | 66 | 73 | 66 | 73 | 66 | 74 | 68 | - | - | - | - | - | - |
| PL0340 | 78 | 72 | 76 | 70 | 77 | 70 | 78 | 72 | 78 | 72 | 79 | 73 | 79 | 73 | 80 | 74 | - | - | - | - | - | - |
| PL0510 | 69 | 63 | - | - | - | - | - | - | - | - | - | - | - | - | 68 | 62 | 72 | 66 | 71 | 65 | - | - |
| PL0520 | 74 | 68 | 72 | 66 | 73 | 66 | 74 | 68 | 74 | 68 | 75 | 69 | 75 | 69 | 76 | 70 | - | - | - | - | - | - |
| PL0530 | 80 | 74 | 78 | 72 | 79 | 73 | 80 | 74 | 80 | 74 | 81 | 75 | 81 | 75 | 82 | 76 | - | - | - | - | - | - |
| PL0540 | 86 | 80 | 84 | 78 | 85 | 79 | 86 | 80 | 86 | 80 | 87 | 81 | 87 | 81 | 89 | 82 | - | - | - | - | - | - |
| PL0810 | 111 | 100 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 115 | 104 | 115 | 104 | 117 | 106 |
| PL0820 | 117 | 106 | - | - | - | - | - | - | - | - | - | - | - | - | 116 | 105 | 119 | 108 | 119 | 108 | - | - |
| PL0830 | 118 | 107 | 116 | 105 | 116 | 105 | 118 | 107 | 118 | 107 | 119 | 107 | 119 | 107 | 120 | 109 | - | - | - | - | - | - |
| PL0840 | 124 | 113 | 122 | 111 | 123 | 111 | 124 | 113 | 124 | 113 | 125 | 114 | 125 | 114 | 126 | 115 | - | - | - | - | - | - |
| PL1210 | 118 | 107 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 123 | 112 | 123 | 111 | 125 | 113 |
| PL1220 | 129 | 118 | - | - | - | - | - | - | - | - | - | - | - | - | 128 | 117 | 132 | 120 | 131 | 120 | - | - |
| PL1230 | 134 | 123 | 132 | 121 | 133 | 121 | 134 | 123 | 134 | 123 | 135 | 124 | 135 | 124 | 136 | 125 | - | - | - | - | - | - |
| PL1240 | 140 | 129 | 138 | 127 | 139 | 127 | 140 | 129 | 140 | 129 | 141 | 130 | 141 | 130 | 142 | 131 | - | - | - | - | - | - |

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 power transmission 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.

Our 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 oC), 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, we 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 our 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 our Application Engineers.



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The Quality Choice

Industrial Motors and Gears Limited is a limited company registered in England and Wales.

Registration Number 4293316.

VAT Registration Number 780154731.