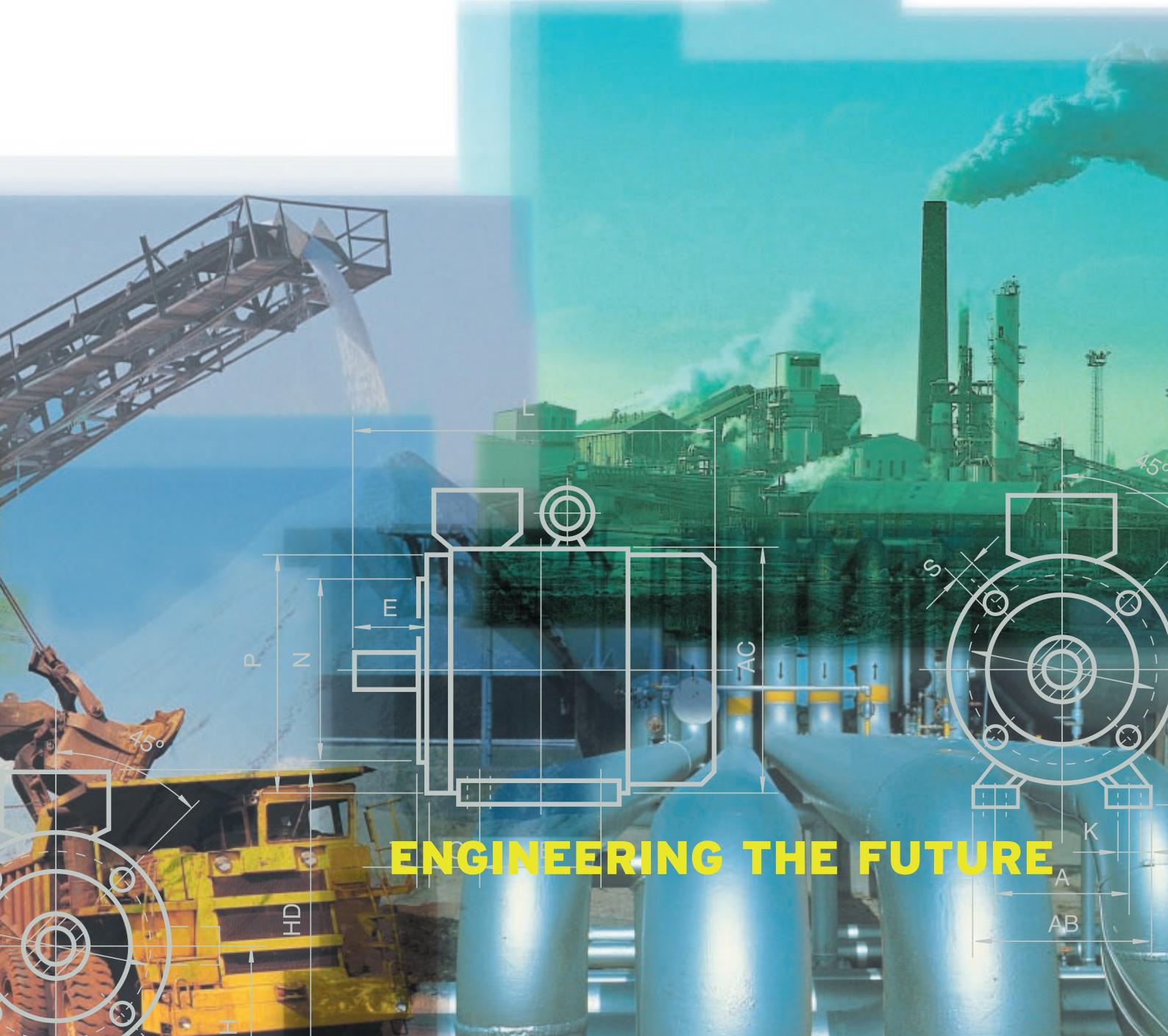




# Advantage IEC Advantage+

## CAST IRON

Standard efficiency and Premium efficiency totally enclosed fan cooled cage induction motors



**ENGINEERING THE FUTURE**



## 2

## TECO PRODUCTS

### MOTORS

- Low voltage induction motors - IEC and NEMA
- High voltage induction motors
- Drip proof motors
- DC motors
- Synchronous motors
- Vertical hollow shaft motors
- Hazardous area motors
- Smoke extraction motors
- High efficiency motors
- Brake motors

### INVERTER DRIVES

- Minicon and Minicon Plus (IP65)
- 7300CV (sensorless vector, PLC function)
- 7300EV and 7300EV IP65
- Speeon 7200MA (sensorless vector)
- Speeon 7200GS (sensorless vector)
- Speeon 7200PA (HVAC, pump, fan)

### SWITCH GEARS

- Molded case circuit breakers
- Electronic overload relays
- AC/DA motor contactors
- Miniature circuit breakers & leakage breakers

# Advantage

## CAST IRON

TECO offers a total performance package of cast iron motors, from normal standard efficiency up to high performance premium efficiency.

The TECO **Advantage IEC** standard cast iron range provides EFF2 efficiency and complies with CEMEP/EC.

The TECO **Advantage+** premium range offers EFF1 efficient cast iron motors that are eligible for the UK Governments' **Enhance Capital Allowance** scheme (**ECA**).

The **TEFC** (Totally Enclosed Fan Cooled) cage induction motors from TECO are designed, manufactured and tested to meet the latest international standards.

All TECO Cast Iron Motors are manufactured to high quality standards. The rugged construction provides the ideal product for all industrial applications, with the peace of mind that **One Year Warranty** provides.

### STANDARDS

All TECO motors comply with the relevant parts of EN60034 and IEC60072.

### ELECTRICAL SUPPLY & RATINGS

All motors work with either Delta or Star configurations.

| kW         | Volts   | Connection | Hz |
|------------|---------|------------|----|
| $\leq 2.2$ | 220/240 | $\Delta$   | 50 |
|            | 250/280 | $\Delta$   | 60 |
|            | 380/415 | Y          | 50 |
|            | 440/480 | Y          | 60 |
|            | 380/415 | $\Delta$   | 50 |
| $\geq 3$   | 440/480 | $\Delta$   | 60 |
|            | 660/690 | Y          | 50 |

### ENCLOSURE

All Cast Iron Motors provide:

- TEFC (Totally Enclosed Fan Cooled)
- IP55 (Weather Protected)



#### MOUNTING

Cast Iron motor range is available with various mounting options:

Foot Mounted without flange = B3 - IM 1001

Flange mounted = B5 - IM 3001 or V1 - IM 3011

Foot Mounted with D Flange = B35 - IM 2001

Foot mounted motors with 'C' face = B34 - IM 2101  
(up to 160 frame)

'C' face mounted motors = B14 - IM 3601  
(up to 160 frame)

Pad Mount (IM9201)

#### INSULATION

TECO cast iron motors have Class F insulation. The normal temperature rise is Class B, 80°C above an ambient temperature of up to 40°C and at an altitude of less than 1000m above sea level.

#### CONSTRUCTION

Frames, endshields and terminal box assemblies are manufactured from high-grade cast iron.

The Fan is propylene and suitable for bi-directional rotation. The Fan Cover is made from heavy gauge steel. The Rotor is manufactured from pressure die cast aluminium or brazed copper bar.

#### BEARINGS

Motors up to and including 180L frame sizes are fitted with double shielded bearings greased for life. Larger frame sizes are fitted with pressure grease relief systems on the bearings.

#### OVERLOAD PROTECTION

All motors of frame size D132 and above are fitted with 3 x thermistors (1 per phase rated 160°C).

#### PAINT

Normal paint finish is a High Build primer and topcoat of 50 microns dry film thickness in Grey to Munsell 7.5BG4/2 for EFF2 and in black to RAL 9011 for EFF1 motors.

#### NAMEPLATE

All nameplates are stainless steel.

#### OPTIONS

TECO offer the following optional extras, details of which are available upon request:

- IP56 and IP65 enclosures
- Anti-condensation heaters
- Tropic proofing
- Special paint finishes
- Pad mounting
- Mechanical brakes
- Smoke extraction motors - high temperature
- Special shaft extensions
- Class 'H' Insulation
- Dual speed
- Stainless steel hardware
- Encoder/Tacho kits
- Force Ventilation kits
- Oversize terminal box

# Performance Data

4

## 0.55kW-18.5kW TEFC, CLASS F INSULATION, S1 (MCR) DUTY

| kW   | Full Speed (RPM) | Frame No. | Rated Torque (Nm) | Current (amp) at volts |      |      | Efficiency (%) at load |      |      | Power Factor at load |      |      | D.O.L. Starting current (%FLC) | D.O.L. Starting Torque (%FLT) | Break down Torque (%FLT) | Rotor inertia mr <sup>2</sup> (kg.m <sup>2</sup> ) | Weight B3 Kg |     |
|------|------------------|-----------|-------------------|------------------------|------|------|------------------------|------|------|----------------------|------|------|--------------------------------|-------------------------------|--------------------------|----------------------------------------------------|--------------|-----|
|      |                  |           |                   | 380                    | 400  | 415  | 100%                   | 75%  | 50%  | 100%                 | 75%  | 50%  |                                |                               |                          |                                                    |              |     |
| 0.55 | 1390             | D80       | 3.78              | 1.57                   | 1.49 | 1.44 | 70.0                   | 71.0 | 62.0 | 0.76                 | 0.66 | 0.54 | 510                            | 270                           | 295                      | 0.0013                                             | 0.033        | 15  |
| 0.55 | 893              | D80       | 5.88              | 1.63                   | 1.55 | 1.50 | 70.2                   | 70.3 | 60.0 | 0.73                 | 0.63 | 0.48 | 370                            | 230                           | 240                      | 0.0020                                             | 0.060        | 16  |
| 0.55 | 688              | D90L      | 7.63              | 1.65                   | 1.56 | 1.51 | 72.6                   | 72.8 | 65.0 | 0.70                 | 0.61 | 0.46 | 370                            | 183                           | 205                      | 0.0040                                             | 0.140        | 26  |
| 0.75 | 2825             | D80       | 2.53              | 1.71                   | 1.63 | 1.57 | 78.3                   | 76   | 68.0 | 0.85                 | 0.78 | 0.55 | 770                            | 320                           | 340                      | 0.0008                                             | 0.012        | 15  |
| 0.75 | 1385             | D80       | 5.17              | 2.03                   | 1.93 | 1.86 | 73.0                   | 71.0 | 65.0 | 0.77                 | 0.67 | 0.54 | 481                            | 280                           | 288                      | 0.0015                                             | 0.038        | 16  |
| 0.75 | 942              | D90S      | 7.60              | 2.07                   | 1.97 | 1.90 | 77.1                   | 76.1 | 62.0 | 0.71                 | 0.62 | 0.48 | 457                            | 206                           | 250                      | 0.0030                                             | 0.090        | 23  |
| 0.75 | 700              | D100L     | 10.20             | 2.41                   | 2.29 | 2.21 | 72.5                   | 71.4 | 69.0 | 0.65                 | 0.57 | 0.46 | 386                            | 187                           | 225                      | 0.0063                                             | 0.221        | 33  |
| 1.1  | 2880             | D80       | 3.65              | 2.50                   | 2.38 | 2.29 | 79.6                   | 78.7 | 74.9 | 0.84                 | 0.76 | 0.63 | 720                            | 310                           | 320                      | 0.0010                                             | 0.015        | 16  |
| 1.1  | 1385             | D90S      | 7.58              | 2.81                   | 2.67 | 2.57 | 76.2                   | 75.3 | 72.0 | 0.78                 | 0.70 | 0.57 | 492                            | 226                           | 253                      | 0.0020                                             | 0.050        | 22  |
| 1.1  | 937              | D90L      | 11.20             | 3.12                   | 2.97 | 2.86 | 77.8                   | 77.1 | 69.0 | 0.69                 | 0.60 | 0.48 | 462                            | 247                           | 285                      | 0.0040                                             | 0.120        | 25  |
| 1.1  | 694              | D100L     | 15.10             | 3.30                   | 3.14 | 3.03 | 76.3                   | 76.1 | 73.0 | 0.66                 | 0.58 | 0.48 | 404                            | 217                           | 235                      | 0.0097                                             | 0.340        | 34  |
| 1.5  | 2840             | D90S      | 5.04              | 3.50                   | 3.32 | 3.20 | 79.7                   | 79.5 | 76.6 | 0.82                 | 0.76 | 0.65 | 640                            | 310                           | 315                      | 0.0012                                             | 0.018        | 22  |
| 1.5  | 1410             | D90L      | 10.20             | 3.79                   | 3.60 | 3.47 | 78.7                   | 78.7 | 75.5 | 0.77                 | 0.69 | 0.55 | 600                            | 235                           | 300                      | 0.0030                                             | 0.075        | 27  |
| 1.5  | 918              | D100L     | 15.60             | 3.96                   | 3.76 | 3.63 | 75.6                   | 76.7 | 71.5 | 0.76                 | 0.69 | 0.50 | 450                            | 212                           | 233                      | 0.0069                                             | 0.207        | 33  |
| 1.5  | 703              | D112M     | 20.40             | 4.56                   | 4.33 | 4.18 | 74.7                   | 73.8 | 73.0 | 0.67                 | 0.58 | 0.48 | 413                            | 178                           | 236                      | 0.0120                                             | 0.420        | 39  |
| 2.2  | 2840             | D90L      | 7.40              | 4.78                   | 4.54 | 4.38 | 81.1                   | 81.7 | 79.9 | 0.86                 | 0.82 | 0.73 | 620                            | 310                           | 314                      | 0.0014                                             | 0.014        | 25  |
| 2.2  | 1420             | D100L     | 14.80             | 5.12                   | 4.86 | 4.69 | 81.0                   | 79.9 | 77.0 | 0.81                 | 0.74 | 0.61 | 638                            | 290                           | 310                      | 0.0054                                             | 0.081        | 34  |
| 2.2  | 944              | D112M     | 22.30             | 5.33                   | 5.06 | 4.88 | 81.8                   | 81.8 | 73.0 | 0.77                 | 0.69 | 0.51 | 547                            | 216                           | 271                      | 0.0071                                             | 0.178        | 39  |
| 2.2  | 698              | D132S     | 30.10             | 5.35                   | 5.08 | 4.90 | 82.2                   | 83.1 | 76.0 | 0.76                 | 0.68 | 0.50 | 448                            | 215                           | 255                      | 0.0290                                             | 0.870        | 62  |
| 3    | 2850             | D100L     | 10.10             | 6.30                   | 5.99 | 5.77 | 83.2                   | 83.5 | 81.8 | 0.87                 | 0.83 | 0.74 | 760                            | 290                           | 354                      | 0.0029                                             | 0.029        | 33  |
| 3    | 1420             | D100L     | 20.2              | 6.68                   | 6.35 | 6.12 | 82.6                   | 81.9 | 79.4 | 0.84                 | 0.75 | 0.62 | 670                            | 280                           | 365                      | 0.0067                                             | 0.101        | 35  |
| 3    | 970              | D132S     | 29.5              | 7.40                   | 7.03 | 6.78 | 81.0                   | 79.6 | 75.2 | 0.76                 | 0.66 | 0.52 | 640                            | 210                           | 245                      | 0.0274                                             | 0.685        | 56  |
| 3    | 710              | D132M     | 40.3              | 7.70                   | 7.31 | 7.05 | 80.8                   | 81.1 | 78.7 | 0.73                 | 0.64 | 0.50 | 520                            | 200                           | 325                      | 0.0380                                             | 1.140        | 66  |
| 4    | 2880             | D112M     | 13.3              | 7.66                   | 7.28 | 7.01 | 85.7                   | 86.8 | 86.1 | 0.93                 | 0.90 | 0.83 | 750                            | 210                           | 339                      | 0.0050                                             | 0.050        | 40  |
| 4    | 1430             | D112M     | 26.7              | 8.73                   | 8.29 | 7.99 | 84.7                   | 85.0 | 84.4 | 0.83                 | 0.76 | 0.64 | 700                            | 230                           | 342                      | 0.0091                                             | 0.137        | 44  |
| 4    | 960              | D132M     | 39.8              | 9.70                   | 9.22 | 8.89 | 83.5                   | 82.6 | 79.2 | 0.75                 | 0.67 | 0.54 | 700                            | 210                           | 250                      | 0.0343                                             | 0.858        | 71  |
| 4    | 720              | D160M     | 53.0              | 9.82                   | 9.33 | 8.99 | 82.3                   | 82.7 | 80.6 | 0.75                 | 0.68 | 0.55 | 530                            | 180                           | 283                      | 0.0649                                             | 1.947        | 94  |
| 5.5  | 2910             | D132S     | 18.1              | 10.9                   | 10.4 | 10.0 | 86.7                   | 86.1 | 83.9 | 0.89                 | 0.86 | 0.77 | 880                            | 230                           | 377                      | 0.0104                                             | 0.104        | 59  |
| 5.5  | 1445             | D132S     | 36.3              | 11.7                   | 11.1 | 10.7 | 85.7                   | 85.4 | 82.7 | 0.83                 | 0.78 | 0.63 | 750                            | 210                           | 320                      | 0.0205                                             | 0.308        | 61  |
| 5.5  | 960              | D132M     | 54.7              | 12.7                   | 12.0 | 11.6 | 85.5                   | 85.2 | 82.8 | 0.77                 | 0.68 | 0.55 | 750                            | 200                           | 413                      | 0.0431                                             | 1.078        | 75  |
| 5.5  | 720              | D160M     | 72.9              | 13.1                   | 12.4 | 12.0 | 84.5                   | 84.9 | 82.8 | 0.76                 | 0.68 | 0.55 | 600                            | 210                           | 331                      | 0.0821                                             | 2.463        | 106 |
| 7.5  | 2880             | D132S     | 24.9              | 14.5                   | 13.8 | 13.3 | 87.3                   | 87.7 | 87.3 | 0.90                 | 0.87 | 0.80 | 680                            | 200                           | 355                      | 0.0121                                             | 0.121        | 62  |
| 7.5  | 1452             | D132M     | 49.3              | 15.2                   | 14.5 | 13.9 | 87.0                   | 87.3 | 86.2 | 0.86                 | 0.81 | 0.73 | 750                            | 200                           | 349                      | 0.0296                                             | 0.444        | 73  |
| 7.5  | 970              | D160M     | 73.8              | 16.8                   | 15.9 | 15.3 | 85.3                   | 85.1 | 82.6 | 0.80                 | 0.74 | 0.63 | 650                            | 187                           | 349                      | 0.0800                                             | 2.000        | 108 |
| 7.5  | 720              | D160L     | 99.5              | 17.1                   | 16.3 | 15.7 | 86.1                   | 86.9 | 85.8 | 0.77                 | 0.70 | 0.57 | 600                            | 210                           | 340                      | 0.1141                                             | 3.423        | 128 |
| 11   | 2935             | D160M     | 35.8              | 21.0                   | 19.9 | 19.2 | 88.8                   | 88.5 | 86.1 | 0.90                 | 0.87 | 0.81 | 740                            | 240                           | 326                      | 0.0370                                             | 0.370        | 107 |
| 11   | 1460             | D160M     | 71.9              | 22.2                   | 21.1 | 20.3 | 88.4                   | 88.5 | 88.0 | 0.85                 | 0.81 | 0.72 | 710                            | 210                           | 285                      | 0.0724                                             | 1.086        | 113 |
| 11   | 970              | D160L     | 108.0             | 23.4                   | 22.2 | 21.4 | 87.8                   | 88.0 | 86.4 | 0.81                 | 0.75 | 0.66 | 690                            | 195                           | 333                      | 0.1080                                             | 2.700        | 131 |
| 11   | 720              | D180L     | 146.0             | 24.7                   | 23.4 | 22.6 | 87.5                   | 87.8 | 86.4 | 0.77                 | 0.70 | 0.57 | 670                            | 150                           | 297                      | 0.1870                                             | 5.610        | 170 |
| 15   | 2935             | D160M     | 48.8              | 28.2                   | 26.8 | 25.8 | 89.8                   | 89.6 | 87.7 | 0.90                 | 0.89 | 0.81 | 790                            | 240                           | 327                      | 0.0432                                             | 0.432        | 117 |
| 15   | 1460             | D160L     | 98.1              | 28.8                   | 27.3 | 26.4 | 90.3                   | 90.9 | 89.0 | 0.88                 | 0.84 | 0.77 | 730                            | 210                           | 333                      | 0.0929                                             | 1.394        | 133 |
| 15   | 970              | D180L     | 148.0             | 30.8                   | 29.3 | 28.2 | 89.5                   | 89.8 | 88.5 | 0.83                 | 0.78 | 0.67 | 660                            | 213                           | 303                      | 0.1670                                             | 4.175        | 171 |
| 15   | 730              | D200L     | 196.0             | 32.9                   | 31.2 | 30.1 | 89.1                   | 89.2 | 87.5 | 0.78                 | 0.71 | 0.59 | 650                            | 180                           | 298                      | 0.3250                                             | 9.750        | 220 |
| 18.5 | 2935             | D160L     | 60.2              | 33.9                   | 32.2 | 31.0 | 91.1                   | 91.2 | 89.3 | 0.91                 | 0.89 | 0.83 | 800                            | 260                           | 336                      | 0.0525                                             | 0.368        | 134 |
| 18.5 | 1467             | D180M     | 120.0             | 35.8                   | 34.0 | 32.8 | 90.3                   | 90.4 | 89.1 | 0.87                 | 0.83 | 0.74 | 700                            | 220                           | 315                      | 0.1350                                             | 1.350        | 167 |
| 18.5 | 975              | D200L     | 181.0             | 37.2                   | 35.4 | 34.1 | 89.9                   | 90.1 | 88.9 | 0.84                 | 0.79 | 0.68 | 670                            | 213                           | 329                      | 0.3020                                             | 3.624        | 216 |
| 18.5 | 730              | D225S     | 242.0             | 40.5                   | 38.5 | 37.1 | 90.1                   | 90.2 | 88.5 | 0.77                 | 0.71 | 0.60 | 800                            | 200                           | 300                      | 0.4810                                             | 7.215        | 270 |

### NOTES

1. Data is based on tests to EN60034.
2. Tolerance: EN60034.
3. All data is subject to change without prior notification.  
Not to be used for installation purposes without referring to TECO Electric Europe Limited.

# Performance Data

5

## 22kW-315kW TEFC, CLASS F INSULATION, S1 (MCR) DUTY

| kW  | Full Speed (RPM) | Frame No. | Rated Torque (Nm) | Current (amp) at volts |      |      | Efficiency (%) at load |      |      | Power Factor at load |      |      | D.O.L. Starting current (%FLC) | D.O.L. Starting Torque (%FLT) | Break down Torque (%FLT) | Rotor inertia m <sup>2</sup> (kg.m <sup>2</sup> ) | Max load inertia m <sup>2</sup> (kg.m <sup>2</sup> ) | Weight B3 Kg |
|-----|------------------|-----------|-------------------|------------------------|------|------|------------------------|------|------|----------------------|------|------|--------------------------------|-------------------------------|--------------------------|---------------------------------------------------|------------------------------------------------------|--------------|
|     |                  |           |                   | 380                    | 400  | 415  | 100%                   | 75%  | 50%  | 100%                 | 75%  | 50%  |                                |                               |                          |                                                   |                                                      |              |
| 22  | 2945             | D180M     | 71.3              | 40.3                   | 38.3 | 36.9 | 90.6                   | 90.4 | 88.9 | 0.92                 | 0.90 | 0.84 | 770                            | 250                           | 344                      | 0.0710                                            | 0.497                                                | 169          |
| 22  | 1465             | D180L     | 143.0             | 41.6                   | 39.5 | 38.1 | 91.3                   | 91.6 | 91.0 | 0.89                 | 0.84 | 0.76 | 690                            | 220                           | 309                      | 0.1360                                            | 1.360                                                | 181          |
| 22  | 975              | D200L     | 215.0             | 43.9                   | 41.7 | 40.2 | 89.9                   | 90.3 | 89.1 | 0.85                 | 0.81 | 0.72 | 670                            | 217                           | 316                      | 0.3420                                            | 4.104                                                | 225          |
| 22  | 730              | D225M     | 288.0             | 47.9                   | 45.5 | 43.9 | 90.6                   | 90.7 | 89.4 | 0.77                 | 0.72 | 0.62 | 770                            | 210                           | 301                      | 0.5310                                            | 7.965                                                | 295          |
| 30  | 2950             | D200L     | 97.1              | 54.9                   | 52.2 | 50.3 | 91.4                   | 91.3 | 89.6 | 0.91                 | 0.89 | 0.82 | 750                            | 260                           | 346                      | 0.1190                                            | 0.833                                                | 220          |
| 30  | 1465             | D200L     | 196.0             | 55.8                   | 53.1 | 51.1 | 91.8                   | 92   | 91.4 | 0.89                 | 0.85 | 0.74 | 700                            | 230                           | 300                      | 0.2450                                            | 2.450                                                | 232          |
| 30  | 980              | D225M     | 292.0             | 58.3                   | 55.4 | 53.4 | 91.8                   | 92.0 | 90.6 | 0.85                 | 0.82 | 0.75 | 620                            | 235                           | 284                      | 0.5250                                            | 6.300                                                | 286          |
| 30  | 730              | D250M     | 392.0             | 61.0                   | 57.9 | 55.9 | 90.8                   | 90.8 | 89.2 | 0.82                 | 0.77 | 0.65 | 582                            | 198                           | 298                      | 0.8090                                            | 12.135                                               | 370          |
| 37  | 2950             | D200L     | 120.0             | 66.9                   | 63.6 | 61.3 | 92.1                   | 92.0 | 91.0 | 0.91                 | 0.89 | 0.87 | 750                            | 220                           | 298                      | 0.1330                                            | 0.931                                                | 239          |
| 37  | 1475             | D225S     | 240.0             | 69.8                   | 66.3 | 63.9 | 92.1                   | 92.7 | 91.2 | 0.88                 | 0.86 | 0.78 | 660                            | 220                           | 306                      | 0.3900                                            | 3.900                                                | 287          |
| 37  | 980              | D250M     | 360.0             | 70.8                   | 67.2 | 64.8 | 91.5                   | 91.4 | 89.9 | 0.87                 | 0.83 | 0.75 | 690                            | 212                           | 323                      | 0.8070                                            | 9.684                                                | 380          |
| 37  | 735              | D280S     | 481.0             | 77.8                   | 73.9 | 71.2 | 91.5                   | 91.5 | 89.5 | 0.79                 | 0.71 | 0.65 | 660                            | 200                           | 240                      | 1.3810                                            | 20.715                                               | 475          |
| 45  | 2960             | D225M     | 145.0             | 81.8                   | 77.7 | 74.9 | 92.5                   | 92.1 | 91.0 | 0.90                 | 0.88 | 0.82 | 790                            | 270                           | 369                      | 0.2210                                            | 1.547                                                | 297          |
| 45  | 1475             | D225M     | 291.0             | 84.1                   | 79.9 | 77.0 | 92.5                   | 92.3 | 91.5 | 0.88                 | 0.85 | 0.77 | 740                            | 200                           | 314                      | 0.4500                                            | 4.500                                                | 322          |
| 45  | 980              | D280S     | 438.0             | 85.9                   | 81.7 | 78.7 | 92.5                   | 92.3 | 90.0 | 0.86                 | 0.83 | 0.75 | 700                            | 230                           | 270                      | 1.3340                                            | 16.008                                               | 465          |
| 45  | 735              | D280M     | 585.0             | 94.1                   | 89.4 | 86.1 | 92.0                   | 91.8 | 89.5 | 0.79                 | 0.71 | 0.65 | 660                            | 200                           | 240                      | 1.7210                                            | 25.815                                               | 555          |
| 55  | 2965             | D250M     | 177.0             | 101                    | 95.7 | 92.2 | 93.0                   | 92.1 | 90.3 | 0.89                 | 0.86 | 0.80 | 770                            | 190                           | 368                      | 0.3050                                            | 2.135                                                | 380          |
| 55  | 1475             | D250M     | 356.0             | 101                    | 96.0 | 92.6 | 93.0                   | 92.8 | 91.3 | 0.90                 | 0.86 | 0.79 | 700                            | 215                           | 310                      | 0.6400                                            | 6.400                                                | 385          |
| 55  | 980              | D280M     | 536.0             | 105                    | 99.5 | 95.9 | 92.8                   | 92.5 | 90.5 | 0.86                 | 0.83 | 0.75 | 700                            | 230                           | 270                      | 1.5980                                            | 19.176                                               | 540          |
| 55  | 735              | D315S     | 714.0             | 111                    | 106  | 102  | 92.8                   | 92.7 | 90.0 | 0.81                 | 0.71 | 0.65 | 660                            | 180                           | 220                      | 4.5900                                            | 68.850                                               | 905          |
| 75  | 2971             | D280S     | 241.0             | 134                    | 128  | 123  | 93.3                   | 92.9 | 91.2 | 0.91                 | 0.89 | 0.86 | 640                            | 220                           | 310                      | 0.5840                                            | 2.920                                                | 510          |
| 75  | 1485             | D280S     | 482.0             | 137                    | 130  | 126  | 94.2                   | 94.2 | 93.2 | 0.88                 | 0.86 | 0.79 | 730                            | 250                           | 350                      | 1.0450                                            | 7.315                                                | 510          |
| 75  | 985              | D315S     | 766.0             | 142                    | 135  | 130  | 93.5                   | 93.2 | 91.0 | 0.86                 | 0.83 | 0.75 | 700                            | 200                           | 240                      | 3.9400                                            | 39.400                                               | 861          |
| 75  | 740              | D315M     | 974.0             | 151                    | 144  | 139  | 93.0                   | 92.8 | 90.2 | 0.81                 | 0.72 | 0.65 | 660                            | 180                           | 220                      | 5.3600                                            | 64.320                                               | 981          |
| 90  | 2965             | D280M     | 290.0             | 159                    | 152  | 146  | 93.7                   | 93.5 | 92.7 | 0.92                 | 0.90 | 0.86 | 700                            | 230                           | 330                      | 0.6650                                            | 3.325                                                | 540          |
| 90  | 1484             | D280M     | 579.0             | 162                    | 154  | 148  | 94.4                   | 94.2 | 93.0 | 0.89                 | 0.88 | 0.81 | 700                            | 240                           | 330                      | 1.3960                                            | 9.772                                                | 600          |
| 90  | 985              | D315M     | 919.0             | 170                    | 161  | 155  | 93.8                   | 93.5 | 91.2 | 0.86                 | 0.83 | 0.76 | 700                            | 200                           | 240                      | 4.5800                                            | 45.800                                               | 940          |
| 90  | 740              | D315L     | 1169.0            | 178                    | 169  | 163  | 93.8                   | 93.5 | 90.3 | 0.82                 | 0.72 | 0.65 | 660                            | 180                           | 230                      | 6.1100                                            | 73.320                                               | 1070         |
| 110 | 2975             | D315S     | 353.0             | 195                    | 186  | 179  | 94.0                   | 93.5 | 91.9 | 0.91                 | 0.89 | 0.86 | 640                            | 180                           | 290                      | 1.1300                                            | 5.650                                                | 920          |
| 110 | 1485             | D315S     | 707.0             | 201                    | 191  | 184  | 94.5                   | 94.2 | 93.0 | 0.88                 | 0.85 | 0.80 | 590                            | 190                           | 290                      | 2.9800                                            | 20.860                                               | 930          |
| 110 | 985              | D315L     | 1123.0            | 207                    | 196  | 189  | 94.0                   | 93.7 | 91.4 | 0.86                 | 0.83 | 0.76 | 700                            | 210                           | 240                      | 5.2300                                            | 52.300                                               | 1110         |
| 110 | 740              | D315L     | 1429.0            | 217                    | 206  | 199  | 94.0                   | 93.8 | 90.4 | 0.82                 | 0.72 | 0.66 | 660                            | 190                           | 230                      | 6.5500                                            | 78.600                                               | 1160         |
| 132 | 2975             | D315M     | 424.0             | 233                    | 222  | 214  | 94.5                   | 94.5 | 93.4 | 0.91                 | 0.89 | 0.87 | 590                            | 170                           | 280                      | 1.7500                                            | 8.750                                                | 970          |
| 132 | 1485             | D315M     | 849.0             | 240                    | 228  | 220  | 94.8                   | 94.5 | 93.1 | 0.88                 | 0.86 | 0.81 | 560                            | 185                           | 285                      | 3.4800                                            | 24.360                                               | 1010         |
| 132 | 985              | D315L     | 1348.0            | 245                    | 232  | 224  | 94.2                   | 93.9 | 91.5 | 0.87                 | 0.83 | 0.76 | 700                            | 210                           | 230                      | 5.5400                                            | 55.400                                               | 1175         |
| 132 | 745              | D355M     | 1692.0            | 262                    | 249  | 240  | 93.5                   | 93.2 | 90.4 | 0.82                 | 0.73 | 0.66 | 650                            | 190                           | 200                      | 10.4000                                           | 124.800                                              | 1700         |
| 160 | 2975             | D315L     | 514.0             | 279                    | 265  | 256  | 95.2                   | 94.9 | 93.7 | 0.92                 | 0.89 | 0.86 | 700                            | 220                           | 330                      | 2.0100                                            | 10.050                                               | 1080         |
| 160 | 1485             | D315L     | 1029.0            | 288                    | 273  | 264  | 94.9                   | 94.6 | 93.6 | 0.89                 | 0.86 | 0.82 | 530                            | 175                           | 260                      | 3.9600                                            | 27.720                                               | 1080         |
| 160 | 990              | D355M     | 1543.0            | 291                    | 277  | 267  | 94.8                   | 94.5 | 91.7 | 0.88                 | 0.84 | 0.76 | 700                            | 170                           | 200                      | 8.8100                                            | 88.100                                               | 1620         |
| 160 | 745              | D355M     | 2051.0            | 313                    | 298  | 287  | 93.5                   | 93.2 | 90.4 | 0.83                 | 0.73 | 0.66 | 650                            | 190                           | 200                      | 11.7000                                           | 140.400                                              | 1730         |
| 200 | 2975             | D315L     | 642.0             | 348                    | 331  | 319  | 95.0                   | 94.9 | 93.8 | 0.92                 | 0.89 | 0.87 | 590                            | 170                           | 290                      | 2.2700                                            | 11.350                                               | 1170         |
| 200 | 1485             | D315L     | 1286.0            | 359                    | 341  | 329  | 95.2                   | 95.2 | 94.5 | 0.89                 | 0.86 | 0.81 | 600                            | 220                           | 290                      | 4.4700                                            | 31.290                                               | 1170         |
| 200 | 990              | D355M     | 1929.0            | 363                    | 345  | 333  | 95.0                   | 94.5 | 91.8 | 0.88                 | 0.84 | 0.76 | 700                            | 170                           | 220                      | 9.6300                                            | 96.300                                               | 1730         |
| 200 | 745              | D355L     | 2563.0            | 386                    | 367  | 354  | 94.8                   | 94.5 | 91.0 | 0.83                 | 0.74 | 0.67 | 650                            | 190                           | 220                      | 12.8000                                           | 153.600                                              | 1970         |
| 250 | 2970             | D355M     | 804.0             | 432                    | 411  | 396  | 95.5                   | 95.0 | 94.5 | 0.92                 | 0.90 | 0.86 | 730                            | 190                           | 300                      | 2.9700                                            | 14.850                                               | 1690         |
| 250 | 1490             | D355M     | 1602.0            | 437                    | 415  | 400  | 95.5                   | 95.2 | 91.8 | 0.91                 | 0.87 | 0.77 | 680                            | 230                           | 260                      | 5.7500                                            | 40.250                                               | 1720         |
| 250 | 990              | D355L     | 2411.0            | 449                    | 427  | 411  | 95.0                   | 94.5 | 91.0 | 0.89                 | 0.84 | 0.67 | 700                            | 190                           | 230                      | 10.5400                                           | 105.400                                              | 1820         |
| 315 | 2970             | D355L     | 1013.0            | 543                    | 516  | 497  | 95.8                   | 95.3 | 94.8 | 0.92                 | 0.90 | 0.86 | 730                            | 160                           | 270                      | 4.1700                                            | 20.850                                               | 1860         |
| 315 | 1490             | D355L     | 2019.0            | 549                    | 522  | 503  | 95.8                   | 95.5 | 92.0 | 0.91                 | 0.88 | 0.77 | 680                            | 230                           | 260                      | 6.7900                                            | 47.530                                               | 1870         |

### NOTES

1. Data is based on tests to EN60034.
2. Tolerance: EN60034.
3. All data is subject to change without prior notification. Not to be used for installation purposes without referring to TECO Electric Europe Limited.

## 1.1kW-110kW TEFC, CLASS F INSULATION, S1 (MCR) DUTY

| kW   | Full Speed (RPM) | Frame No. | Rated Torque (Nm) | Current (amp) at volts |       |       | Efficiency (%) at load |      |      | Power Factor at load |      |      | D.O.L. Starting current (%FLC) | D.O.L. Starting Torque (%FLT) | Break down Torque (%FLT) | Rotor inertia mr <sup>2</sup> (kg.m <sup>2</sup> ) | Max load inertia mr <sup>2</sup> (kg.m <sup>2</sup> ) | Weight B3 (dB(A)) Kg |
|------|------------------|-----------|-------------------|------------------------|-------|-------|------------------------|------|------|----------------------|------|------|--------------------------------|-------------------------------|--------------------------|----------------------------------------------------|-------------------------------------------------------|----------------------|
|      |                  |           |                   | 380                    | 400   | 415   | 100%                   | 75%  | 50%  | 100%                 | 75%  | 50%  |                                |                               |                          |                                                    |                                                       |                      |
| 1.1  | 2865             | D80       | 3.67              | 2.42                   | 2.30  | 2.22  | 84.1                   | 84.9 | 83.5 | 0.82                 | 0.76 | 0.64 | 740                            | 305                           | 315                      | 0.0010                                             | 0.015                                                 | 16                   |
| 1.1  | 1420             | D90S      | 7.40              | 2.69                   | 2.55  | 2.46  | 84.0                   | 84.8 | 83.3 | 0.74                 | 0.65 | 0.50 | 660                            | 330                           | 345                      | 0.0020                                             | 0.050                                                 | 22                   |
| 1.1  | 940              | D90L      | 11.17             | 2.92                   | 2.77  | 2.67  | 83.0                   | 80.0 | 77.0 | 0.69                 | 0.60 | 0.48 | 582                            | 240                           | 290                      | 0.0040                                             | 0.120                                                 | 25                   |
| 1.5  | 2875             | D90S      | 4.98              | 3.38                   | 3.21  | 3.10  | 85.3                   | 85.9 | 84.8 | 0.79                 | 0.71 | 0.57 | 775                            | 310                           | 340                      | 0.0012                                             | 0.018                                                 | 22                   |
| 1.5  | 1420             | D90L      | 10.09             | 3.48                   | 3.31  | 3.19  | 85.1                   | 86.1 | 85.5 | 0.77                 | 0.68 | 0.55 | 680                            | 320                           | 330                      | 0.0030                                             | 0.075                                                 | 27                   |
| 1.5  | 930              | D100L     | 15.40             | 3.54                   | 3.37  | 3.25  | 83.5                   | 83.0 | 81.5 | 0.77                 | 0.72 | 0.60 | 623                            | 240                           | 250                      | 0.0069                                             | 0.207                                                 | 33                   |
| 2.2  | 2865             | D90L      | 7.33              | 4.65                   | 4.42  | 4.26  | 85.6                   | 86.5 | 85.5 | 0.84                 | 0.77 | 0.65 | 810                            | 330                           | 340                      | 0.0014                                             | 0.014                                                 | 25                   |
| 2.2  | 1440             | D100L     | 14.59             | 4.88                   | 4.63  | 4.46  | 86.5                   | 86.7 | 85.6 | 0.79                 | 0.72 | 0.58 | 793                            | 299                           | 353                      | 0.0054                                             | 0.081                                                 | 34                   |
| 2.2  | 955              | D112M     | 22.00             | 5.35                   | 5.08  | 4.89  | 84.5                   | 84.0 | 82.0 | 0.74                 | 0.67 | 0.55 | 606                            | 210                           | 260                      | 0.0071                                             | 0.178                                                 | 39                   |
| 3    | 2860             | D100L     | 10.02             | 5.91                   | 5.61  | 5.41  | 86.7                   | 88.5 | 89.1 | 0.89                 | 0.86 | 0.78 | 800                            | 300                           | 350                      | 0.0029                                             | 0.029                                                 | 33                   |
| 3    | 1460             | D100L     | 19.62             | 6.60                   | 6.27  | 6.04  | 87.4                   | 87.6 | 86.0 | 0.79                 | 0.68 | 0.55 | 800                            | 300                           | 360                      | 0.0067                                             | 0.101                                                 | 35                   |
| 3    | 965              | D132S     | 29.69             | 6.73                   | 6.39  | 6.16  | 88.0                   | 87.6 | 83.0 | 0.77                 | 0.75 | 0.63 | 741                            | 200                           | 300                      | 0.0274                                             | 0.685                                                 | 56                   |
| 4    | 2880             | D112M     | 13.3              | 7.48                   | 7.11  | 6.85  | 88.0                   | 89.2 | 88.9 | 0.92                 | 0.90 | 0.85 | 720                            | 210                           | 330                      | 0.0050                                             | 0.050                                                 | 40                   |
| 4    | 1445             | D112M     | 26.4              | 8.58                   | 8.15  | 7.86  | 88.5                   | 88.7 | 87.3 | 0.80                 | 0.74 | 0.61 | 650                            | 240                           | 340                      | 0.0091                                             | 0.137                                                 | 44                   |
| 4    | 970              | D132M     | 39.4              | 8.95                   | 8.50  | 8.19  | 86.0                   | 85.0 | 83.2 | 0.79                 | 0.73 | 0.60 | 743                            | 210                           | 310                      | 0.0343                                             | 0.858                                                 | 71                   |
| 5.5  | 2925             | D132S     | 18.0              | 10.5                   | 10.0  | 9.6   | 89.0                   | 89.9 | 87.1 | 0.89                 | 0.87 | 0.79 | 780                            | 215                           | 355                      | 0.0104                                             | 0.104                                                 | 59                   |
| 5.5  | 1455             | D132S     | 36.1              | 11.6                   | 11.0  | 10.6  | 89.4                   | 89.9 | 89.3 | 0.81                 | 0.75 | 0.64 | 740                            | 240                           | 330                      | 0.0205                                             | 0.308                                                 | 61                   |
| 5.5  | 960              | D132M     | 54.7              | 12.2                   | 11.6  | 11.1  | 87.0                   | 86.0 | 84.0 | 0.79                 | 0.77 | 0.66 | 654                            | 190                           | 270                      | 0.0431                                             | 1.078                                                 | 75                   |
| 7.5  | 2925             | D132S     | 24.5              | 14.5                   | 13.7  | 13.2  | 90.0                   | 90.0 | 88.5 | 0.88                 | 0.84 | 0.74 | 795                            | 205                           | 390                      | 0.0121                                             | 0.121                                                 | 62                   |
| 7.5  | 1460             | D132M     | 49.1              | 15.3                   | 14.5  | 14.0  | 90.3                   | 90.9 | 90.3 | 0.83                 | 0.77 | 0.65 | 781                            | 250                           | 380                      | 0.0296                                             | 0.444                                                 | 73                   |
| 7.5  | 970              | D160M     | 73.8              | 16.2                   | 15.4  | 14.8  | 89.0                   | 89.0 | 87.0 | 0.79                 | 0.75 | 0.64 | 674                            | 240                           | 260                      | 0.0800                                             | 2.000                                                 | 108                  |
| 11   | 2945             | D160M     | 35.7              | 20.4                   | 19.4  | 18.7  | 91.0                   | 90.8 | 89.2 | 0.90                 | 0.88 | 0.82 | 750                            | 218                           | 349                      | 0.0370                                             | 0.370                                                 | 107                  |
| 11   | 1465             | D160M     | 71.7              | 21.8                   | 20.7  | 20.0  | 90.9                   | 91.6 | 91.0 | 0.84                 | 0.82 | 0.75 | 695                            | 208                           | 281                      | 0.0724                                             | 1.086                                                 | 113                  |
| 11   | 975              | D160L     | 107.7             | 23.8                   | 22.6  | 21.8  | 89.0                   | 90.5 | 89.0 | 0.79                 | 0.73 | 0.63 | 737                            | 280                           | 280                      | 0.1080                                             | 2.700                                                 | 131                  |
| 15   | 2940             | D160M     | 48.7              | 27.6                   | 26.2  | 25.3  | 91.5                   | 92.0 | 91.1 | 0.90                 | 0.89 | 0.84 | 739                            | 208                           | 340                      | 0.0432                                             | 0.432                                                 | 117                  |
| 15   | 1470             | D160L     | 97.4              | 28.9                   | 27.4  | 26.4  | 91.9                   | 92.4 | 91.7 | 0.86                 | 0.82 | 0.72 | 760                            | 226                           | 309                      | 0.0929                                             | 1.394                                                 | 133                  |
| 15   | 970              | D180L     | 147.7             | 31.6                   | 30.0  | 28.9  | 90.2                   | 90.7 | 89.5 | 0.80                 | 0.76 | 0.72 | 650                            | 230                           | 250                      | 0.1670                                             | 4.175                                                 | 171                  |
| 18.5 | 2935             | D160L     | 60.2              | 34.1                   | 32.4  | 31.2  | 91.6                   | 91.9 | 91.0 | 0.90                 | 0.88 | 0.82 | 710                            | 215                           | 327                      | 0.0525                                             | 0.368                                                 | 134                  |
| 18.5 | 1470             | D180M     | 120.2             | 35.2                   | 33.4  | 32.2  | 92.4                   | 92.6 | 91.7 | 0.87                 | 0.83 | 0.73 | 734                            | 224                           | 348                      | 0.1350                                             | 1.350                                                 | 167                  |
| 18.5 | 975              | D200L     | 181.2             | 38.1                   | 36.2  | 34.9  | 90.0                   | 90.1 | 89.5 | 0.82                 | 0.78 | 0.69 | 650                            | 230                           | 250                      | 0.3020                                             | 3.624                                                 | 216                  |
| 22   | 2950             | D180M     | 71.2              | 39.8                   | 37.8  | 36.5  | 92.3                   | 92.1 | 90.5 | 0.91                 | 0.89 | 0.82 | 775                            | 260                           | 373                      | 0.0710                                             | 0.497                                                 | 169                  |
| 22   | 1470             | D180L     | 142.9             | 42.0                   | 39.9  | 38.5  | 92.7                   | 93.1 | 92.5 | 0.86                 | 0.82 | 0.72 | 707                            | 214                           | 325                      | 0.1360                                             | 1.360                                                 | 181                  |
| 22   | 975              | D200L     | 215.4             | 43.9                   | 41.7  | 40.2  | 91.7                   | 90.9 | 90.0 | 0.83                 | 0.80 | 0.71 | 619                            | 220                           | 250                      | 0.3420                                             | 4.104                                                 | 225                  |
| 30   | 2950             | D200L     | 97.1              | 53.4                   | 50.7  | 48.9  | 93.1                   | 93.1 | 92.0 | 0.92                 | 0.92 | 0.88 | 750                            | 226                           | 331                      | 0.1190                                             | 0.833                                                 | 220                  |
| 30   | 1470             | D200L     | 194.9             | 53.6                   | 50.9  | 49.1  | 93.2                   | 93.5 | 92.9 | 0.91                 | 0.90 | 0.85 | 646                            | 229                           | 281                      | 0.2450                                             | 2.450                                                 | 232                  |
| 30   | 980              | D225M     | 292.3             | 59.0                   | 56.0  | 54.0  | 92.0                   | 91.5 | 90.1 | 0.84                 | 0.82 | 0.75 | 590                            | 230                           | 230                      | 0.5250                                             | 6.300                                                 | 286                  |
| 37   | 2950             | D200L     | 119.8             | 65.6                   | 62.4  | 60.1  | 93.3                   | 93.0 | 92.0 | 0.92                 | 0.91 | 0.88 | 755                            | 224                           | 330                      | 0.1330                                             | 0.931                                                 | 239                  |
| 37   | 1475             | D225S     | 239.5             | 69.4                   | 65.9  | 63.6  | 93.6                   | 93.8 | 93.2 | 0.87                 | 0.85 | 0.78 | 639                            | 210                           | 289                      | 0.3900                                             | 3.900                                                 | 287                  |
| 37   | 985              | D250M     | 358.7             | 69.5                   | 66.0  | 63.6  | 93.0                   | 93.1 | 90.2 | 0.87                 | 0.85 | 0.75 | 705                            | 230                           | 250                      | 0.8070                                             | 9.684                                                 | 380                  |
| 45   | 2965             | D225M     | 144.9             | 79.9                   | 75.9  | 73.1  | 93.8                   | 93.6 | 92.5 | 0.91                 | 0.90 | 0.86 | 735                            | 335                           | 342                      | 0.2210                                             | 1.547                                                 | 297                  |
| 45   | 1475             | D225M     | 291.3             | 83.7                   | 79.5  | 76.6  | 93.9                   | 94.2 | 93.7 | 0.87                 | 0.86 | 0.80 | 662                            | 201                           | 299                      | 0.4500                                             | 4.500                                                 | 322                  |
| 45   | 985              | D280S     | 436.3             | 86.1                   | 81.8  | 78.9  | 93.4                   | 93.0 | 91.0 | 0.85                 | 0.85 | 0.76 | 705                            | 230                           | 250                      | 1.3340                                             | 16.008                                                | 465                  |
| 55   | 2970             | D250M     | 176.8             | 96.9                   | 92.0  | 88.7  | 94.6                   | 94.5 | 93.5 | 0.91                 | 0.89 | 0.84 | 799                            | 205                           | 362                      | 0.3050                                             | 2.135                                                 | 380                  |
| 55   | 1480             | D250M     | 354.9             | 100.4                  | 95.4  | 92.0  | 94.4                   | 94.6 | 94.0 | 0.88                 | 0.86 | 0.81 | 710                            | 225                           | 328                      | 0.6400                                             | 6.400                                                 | 385                  |
| 55   | 984              | D280M     | 533.8             | 104.6                  | 99.4  | 95.8  | 94.0                   | 94.0 | 91.5 | 0.85                 | 0.83 | 0.75 | 678                            | 140                           | 230                      | 1.5980                                             | 19.176                                                | 540                  |
| 75   | 2975             | D280S     | 240.7             | 133.3                  | 126.6 | 122.1 | 94.6                   | 94.5 | 93.5 | 0.90                 | 0.90 | 0.86 | 633                            | 211                           | 319                      | 0.5840                                             | 2.920                                                 | 510                  |
| 75   | 1485             | D280S     | 482.3             | 134.8                  | 128.0 | 123.4 | 95.0                   | 95.1 | 94.4 | 0.89                 | 0.88 | 0.83 | 675                            | 205                           | 335                      | 1.0450                                             | 7.315                                                 | 510                  |
| 75   | 984              | D315S     | 727.8             | 141.9                  | 134.8 | 129.9 | 94.5                   | 94.8 | 92.0 | 0.85                 | 0.83 | 0.76 | 688                            | 140                           | 230                      | 3.9400                                             | 39.400                                                | 861                  |
| 90   | 2980             | D280M     | 288.4             | 160.3                  | 152.3 | 146.8 | 95.1                   | 95.0 | 93.9 | 0.90                 | 0.88 | 0.82 | 799                            | 270                           | 350                      | 0.6650                                             | 3.325                                                 | 540                  |
| 90   | 1485             | D280M     | 578.7             | 161.5                  | 153.4 | 147.9 | 95.2                   | 95.3 | 94.8 | 0.89                 | 0.89 | 0.83 | 688                            | 208                           | 337                      | 1.3960                                             | 9.772                                                 | 600                  |
| 90   | 985              | D315M     | 872.5             | 168.3                  | 159.8 | 154.1 | 94.5                   | 94.9 | 92.1 | 0.86                 | 0.83 | 0.76 | 689                            | 155                           | 230                      | 4.5800                                             | 45.800                                                | 940                  |
| 110  | 2975             | D315S     | 353.1             | 194.4                  | 184.7 | 178.0 | 95.1                   | 94.8 | 93.7 | 0.90                 | 0.90 | 0.87 | 630                            | 197                           | 315                      | 1.1300                                             | 5.650                                                 | 920                  |
| 110  | 1485             | D315S     | 707.4             | 199.3                  | 189.3 | 182.5 | 95.2                   | 95.1 | 94.1 | 0.88                 | 0.87 | 0.80 | 620                            | 221                           | 316                      | 2.9800                                             | 20.860                                                | 930                  |
| 110  | 985              | D315L     | 1066.4            | 204.6                  | 194.3 | 187.3 | 95.0                   | 95.3 | 92.5 | 0.86                 | 0.84 | 0.77 | 689                            | 140                           | 220                      | 5.2300                                             | 52.300                                                | 1110                 |
| 110  | 740              | D315L     | 1419.5            | 217.7                  | 206.8 | 199.3 | 94.8                   | 94.5 | 93.0 | 0.81                 | 0.76 | 0.65 | 643                            | 120                           | 220                      | 6.5500                                             | 78.600                                                | 1160                 |

# Performance Data Standard Bearings

7

## 132kW-315kW TEFC, CLASS F INSULATION, S1 (MCR) DUTY

| kW  | Full Speed (RPM) | Frame No. | Rated Torque (Nm) | Current (amp) at volts |       |       | Efficiency (%) at load |      |      | Power Factor at load |      |      | D.O.L. Starting current (%FLC) | D.O.L. Starting Torque (%FLT) | Break down Torque (%FLT) | Rotor inertia mr <sup>2</sup> (kg.m <sup>2</sup> ) | Max load inertia mr <sup>2</sup> (kg.m <sup>2</sup> ) | Weight B3 Kg |
|-----|------------------|-----------|-------------------|------------------------|-------|-------|------------------------|------|------|----------------------|------|------|--------------------------------|-------------------------------|--------------------------|----------------------------------------------------|-------------------------------------------------------|--------------|
|     |                  |           |                   | 380                    | 400   | 415   | 100%                   | 75%  | 50%  | 100%                 | 75%  | 50%  |                                |                               |                          |                                                    |                                                       |              |
| 132 | 2975             | D315M     | 423.7             | 233.4                  | 221.8 | 213.8 | 95.3                   | 95.1 | 93.9 | 0.90                 | 0.90 | 0.87 | 590                            | 173                           | 277                      | 1.7500                                             | 8.750                                                 | 970          |
| 132 | 1485             | D315M     | 848.8             | 240.5                  | 228.5 | 220.2 | 95.2                   | 95.2 | 94.0 | 0.88                 | 0.87 | 0.81 | 580                            | 216                           | 305                      | 3.4800                                             | 24.360                                                | 1010         |
| 132 | 985              | D315L     | 1279.7            | 245.5                  | 233.2 | 224.8 | 95.0                   | 95.4 | 93.6 | 0.86                 | 0.85 | 0.78 | 694                            | 150                           | 220                      | 5.5400                                             | 55.400                                                | 1175         |
| 132 | 740              | D355M     | 1703.4            | 257.5                  | 244.6 | 235.7 | 95.0                   | 94.5 | 93.1 | 0.82                 | 0.77 | 0.66 | 638                            | 110                           | 220                      | 10.4000                                            | 124.800                                               | 1700         |
| 160 | 2975             | D315L     | 513.6             | 282.0                  | 267.9 | 258.2 | 95.8                   | 95.4 | 94.2 | 0.90                 | 0.89 | 0.84 | 724                            | 195                           | 260                      | 2.0100                                             | 10.050                                                | 1080         |
| 160 | 1485             | D315L     | 1028.9            | 288.7                  | 274.2 | 264.3 | 95.7                   | 95.6 | 94.2 | 0.88                 | 0.85 | 0.80 | 660                            | 220                           | 300                      | 3.9600                                             | 27.720                                                | 1080         |
| 160 | 985              | D355M     | 1551.2            | 292.6                  | 278.0 | 267.9 | 95.5                   | 94.8 | 93.5 | 0.87                 | 0.85 | 0.78 | 697                            | 110                           | 220                      | 8.8100                                             | 88.100                                                | 1620         |
| 160 | 740              | D355M     | 2064.7            | 310.4                  | 294.9 | 284.3 | 95.5                   | 94.8 | 93.2 | 0.82                 | 0.78 | 0.69 | 655                            | 100                           | 220                      | 11.7000                                            | 140.400                                               | 1730         |
| 200 | 2975             | D315L     | 642.0             | 347.8                  | 330.5 | 318.5 | 96.0                   | 94.7 | 94.0 | 0.91                 | 0.89 | 0.86 | 677                            | 150                           | 260                      | 2.2700                                             | 11.350                                                | 1170         |
| 200 | 1485             | D315L     | 1286.1            | 360.1                  | 342.1 | 329.7 | 95.9                   | 95.8 | 95.0 | 0.88                 | 0.85 | 0.80 | 660                            | 210                           | 310                      | 4.4700                                             | 31.290                                                | 1170         |
| 200 | 990              | D355M     | 1929.2            | 365.7                  | 347.5 | 334.9 | 95.5                   | 95   | 93.5 | 0.87                 | 0.85 | 0.79 | 673                            | 120                           | 220                      | 9.6300                                             | 96.300                                                | 1730         |
| 200 | 745              | D355L     | 2563.6            | 388.0                  | 368.6 | 355.3 | 95.5                   | 94.8 | 93.3 | 0.82                 | 0.79 | 0.69 | 634                            | 110                           | 220                      | 12.8000                                            | 153.600                                               | 1970         |
| 250 | 2975             | D355M     | 802.5             | 434.8                  | 413.1 | 398.1 | 96.0                   | 96   | 94.1 | 0.91                 | 0.90 | 0.86 | 722                            | 190                           | 240                      | 2.9700                                             | 14.850                                                | 1690         |
| 250 | 1487             | D355M     | 1605.5            | 444.6                  | 422.3 | 407.1 | 96.0                   | 95.2 | 94.0 | 0.89                 | 0.87 | 0.84 | 770                            | 210                           | 330                      | 5.7500                                             | 40.250                                                | 1720         |
| 250 | 990              | D355L     | 2411.4            | 450.1                  | 427.6 | 412.1 | 95.9                   | 95.4 | 93.4 | 0.88                 | 0.87 | 0.80 | 699                            | 160                           | 230                      | 10.5400                                            | 105.400                                               | 1820         |
| 315 | 2975             | D355L     | 1011.1            | 546.7                  | 519.4 | 500.6 | 96.2                   | 95.8 | 94.0 | 0.91                 | 0.90 | 0.87 | 735                            | 150                           | 240                      | 4.1700                                             | 20.850                                                | 1860         |
| 315 | 1490             | D355L     | 2018.8            | 552.8                  | 525.2 | 506.2 | 96.2                   | 95.8 | 95.0 | 0.90                 | 0.89 | 0.85 | 700                            | 200                           | 300                      | 6.7900                                             | 47.530                                                | 1870         |

## NOTES

1. Data is based on tests to EN60034.
2. Tolerance: EN60034.
3. All data is subject to change without prior notification. Not to be used for installation purposes without referring to TECO Electric Europe Limited.

## STANDARD BEARINGS

IE2

IEI

| Frame Size | Drive End |          | Non Drive End |          |
|------------|-----------|----------|---------------|----------|
|            | 2P        | 4/6/8P   | 2P            | 4/6/8P   |
| D80        | 6204ZZC3  | 6204ZZC3 | 6204ZZC3      | 6204ZZC3 |
| D90S       | 6205ZZC3  | 6205ZZC3 | 6205ZZC3      | 6205ZZC3 |
| D90L       | 6205ZZC3  | 6205ZZC3 | 6205ZZC3      | 6205ZZC3 |
| D100L      | 6206ZZC3  | 6206ZZC3 | 6206ZZC3      | 6206ZZC3 |
| D112M      | 6306ZZC3  | 6206ZZC3 | 6306ZZC3      | 6206ZZC3 |
| D132S      | 6308ZZC3  | 6308ZZC3 | 6308ZZC3      | 6308ZZC3 |
| D132M      | 6308ZZC3  | 6308ZZC3 | 6308ZZC3      | 6308ZZC3 |
| D160M      | 6309ZZC3  | 6309ZZC3 | 6309ZZC3      | 6309ZZC3 |
| D160L      | 6309ZZC3  | 6309ZZC3 | 6309ZZC3      | 6309ZZC3 |
| D180M      | 6311ZZC3  | 6311ZZC3 | 6311ZZC3      | 6311ZZC3 |
| D180L      | 6311ZZC3  | 6311ZZC3 | 6311ZZC3      | 6311ZZC3 |

| Frame Size | Drive End |        | Non Drive End |        |
|------------|-----------|--------|---------------|--------|
|            | 2P        | 4/6/8P | 2P            | 4/6/8P |
| D200L      | 6312C3    | 6312C3 | 6312C3        | 6312C3 |
| D225S      | 6313C3    | 6313C3 | 6313C3        | 6313C3 |
| D225M      | 6313C3    | 6313C3 | 6313C3        | 6313C3 |
| D250M      | 6314C3    | 6314C3 | 6314C3        | 6314C3 |
| D280S      | 6314C3    | 6317C3 | 6314C3        | 6317C3 |
| D280M      | 6314C3    | 6317C3 | 6314C3        | 6317C3 |
| D315S      | 6317C3    | 6319C3 | 6317C3        | 6319C3 |
| D315M      | 6317C3    | 6319C3 | 6317C3        | 6319C3 |
| D315L      | 6317C3    | 6319C3 | 6317C3        | 6319C3 |
| D355M      | 6317C3    | 6322C3 | 6317C3        | 6320C3 |
| D355L      | 6317C3    | 6322C3 | 6317C3        | 6320C3 |

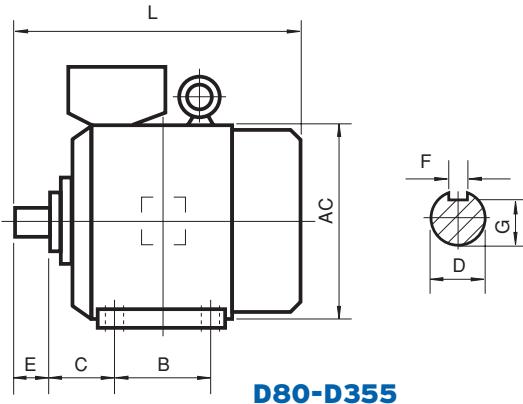
## NOTES

1. Bearing clearance where indicated is C3, otherwise CN.
2. ZZ suffix indicates the bearings are double-shielded and pre-lubricated for life.

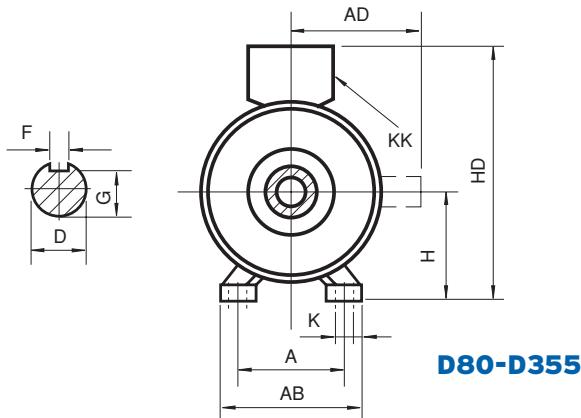
# B3 Foot Mounted Dimensions

8

## FRAMES 80-355L



D80-D355



D80-D355

| 2P       | 4P        | 6P      | 8P       | Frame No. | Mounting Dimensions |     |     |     |     |     |     |    |      |     | Overall Dimensions |     |       | KK   |           |
|----------|-----------|---------|----------|-----------|---------------------|-----|-----|-----|-----|-----|-----|----|------|-----|--------------------|-----|-------|------|-----------|
|          |           |         |          |           | A                   | AB  | AC  | B   | C   | D   | E   | F  | G    | H   | K                  | AD  | HD    | L    |           |
| 0.75/1.1 | 0.55/0.75 | 0.55    | -        | D80       | 125                 | 165 | 175 | 100 | 50  | 19  | 40  | 6  | 15.5 | 80  | 10                 | 145 | 224   | 295  | 1-M20x1.5 |
| 1.5      | 1.1       | 0.75    | -        | D90S      | 140                 | 180 | 195 | 100 | 56  | 24  | 50  | 8  | 20   | 90  | 10                 | 155 | 248.5 | 315  | 1-M20x1.5 |
| 2.2      | 1.5       | 1.1     | 0.55     | D90L      | 140                 | 180 | 195 | 125 | 56  | 24  | 50  | 8  | 20   | 90  | 10                 | 155 | 248.5 | 340  | 1-M20x1.5 |
| 3        | 2.2/3     | 1.5     | 0.75/1.1 | D100L     | 160                 | 205 | 215 | 140 | 63  | 28  | 60  | 8  | 24   | 100 | 12                 | 180 | 277   | 385  | 1-M20x1.5 |
| 4        | 4         | 2.2     | 1.5      | D112M     | 190                 | 230 | 240 | 140 | 70  | 28  | 60  | 8  | 24   | 112 | 12                 | 190 | 301   | 400  | 1-M25x1.5 |
| 5.5/7.5  | 5.5       | 3       | 2.2      | D132S     | 216                 | 270 | 275 | 140 | 89  | 38  | 80  | 10 | 33   | 132 | 12                 | 210 | 346   | 470  | 1-M25x1.5 |
| -        | 7.5       | 4/5.5   | 3        | D132M     | 216                 | 270 | 275 | 178 | 89  | 38  | 80  | 10 | 33   | 132 | 12                 | 210 | 346   | 510  | 1-M25x1.5 |
| 11/15    | 11        | 7.5     | 4/5.5    | D160M     | 254                 | 320 | 330 | 210 | 108 | 42  | 110 | 12 | 37   | 160 | 15                 | 225 | 430   | 610  | 2-M32x1.5 |
| 18.5     | 15        | 11      | 7.5      | D160L     | 254                 | 320 | 330 | 254 | 108 | 42  | 110 | 12 | 37   | 160 | 15                 | 255 | 430   | 654  | 2-M32x1.5 |
| 22       | 18.5      | -       | -        | D180M     | 279                 | 355 | 380 | 241 | 121 | 48  | 110 | 14 | 42.5 | 180 | 15                 | 280 | 465   | 700  | 2-M32x1.5 |
| -        | 22        | 15      | 11       | D180L     | 279                 | 355 | 380 | 279 | 121 | 48  | 110 | 14 | 42.5 | 180 | 15                 | 280 | 465   | 740  | 2-M32x1.5 |
| 30/37    | 30        | 18.5/22 | 15       | D200L     | 318                 | 395 | 420 | 305 | 133 | 55  | 110 | 16 | 49   | 200 | 19                 | 305 | 505   | 770  | 2-M50x1.5 |
| -        | 37        | -       | 18.5     | D225S     | 356                 | 435 | 470 | 286 | 149 | 60  | 140 | 18 | 53   | 225 | 19                 | 335 | 565   | 815  | 2-M50x1.5 |
| 45       | -         | -       | -        | D225M     | 356                 | 435 | 470 | 311 | 149 | 55  | 110 | 16 | 49   | 225 | 19                 | 335 | 565   | 820  | 2-M50x1.5 |
| -        | 45        | 30      | 22       | D225M     | 356                 | 435 | 470 | 311 | 149 | 60  | 140 | 18 | 53   | 225 | 19                 | 335 | 565   | 845  | 2-M50x1.5 |
| 55       | -         | -       | -        | D250M     | 406                 | 490 | 510 | 349 | 168 | 60  | 140 | 18 | 53   | 250 | 24                 | 370 | 620   | 915  | 2-M63x1.5 |
| -        | 55        | 37      | 30       | D250M     | 406                 | 490 | 510 | 349 | 168 | 65  | 140 | 18 | 58   | 250 | 24                 | 370 | 620   | 915  | 2-M63x1.5 |
| 75       | -         | -       | -        | D280S     | 457                 | 550 | 580 | 368 | 190 | 65  | 140 | 18 | 58   | 280 | 24                 | 410 | 700   | 1002 | 2-M63x1.5 |
| -        | 75        | 45      | 37       | D280S     | 457                 | 550 | 580 | 368 | 190 | 75  | 140 | 20 | 67.5 | 280 | 24                 | 410 | 700   | 1002 | 2-M63x1.5 |
| 90       | -         | -       | -        | D280M     | 457                 | 550 | 580 | 419 | 190 | 65  | 140 | 18 | 58   | 280 | 24                 | 410 | 700   | 1052 | 2-M63x1.5 |
| -        | 90        | 55      | 45       | D280M     | 457                 | 550 | 580 | 419 | 190 | 75  | 140 | 20 | 67.5 | 280 | 24                 | 410 | 700   | 1060 | 2-M63x1.5 |
| 110      | -         | -       | -        | D315S     | 508                 | 635 | 645 | 406 | 216 | 65  | 140 | 18 | 58   | 315 | 28                 | 530 | 850   | 1190 | 2-M63x1.5 |
| -        | 110       | 75      | 55       | D315S     | 508                 | 635 | 645 | 406 | 216 | 80  | 170 | 22 | 71   | 315 | 28                 | 530 | 850   | 1215 | 2-M63x1.5 |
| 132      | -         | -       | -        | D315M     | 508                 | 635 | 645 | 457 | 216 | 65  | 140 | 18 | 58   | 315 | 28                 | 530 | 850   | 1300 | 2-M63x1.5 |
| -        | 132       | 90      | 75       | D315M     | 508                 | 635 | 645 | 457 | 216 | 80  | 170 | 22 | 71   | 315 | 28                 | 530 | 850   | 1325 | 2-M63x1.5 |
| 160/200  | -         | -       | -        | D315L     | 508                 | 635 | 645 | 508 | 216 | 65  | 140 | 18 | 58   | 315 | 28                 | 530 | 850   | 1300 | 2-M63x1.5 |
| -        | 160/200   | 110/132 | 90/110   | D315L     | 508                 | 635 | 645 | 508 | 216 | 80  | 170 | 22 | 71   | 315 | 28                 | 530 | 850   | 1325 | 2-M63x1.5 |
| 250      | -         | -       | -        | D355M     | 610                 | 730 | 710 | 560 | 254 | 80  | 170 | 22 | 71   | 355 | 28                 | 655 | 965   | 1525 | 2-M75x1.5 |
| -        | 250       | 160/200 | 132/160  | D355M     | 610                 | 730 | 710 | 560 | 254 | 100 | 210 | 28 | 90   | 355 | 28                 | 655 | 965   | 1565 | 2-M75x1.5 |
| 315      | -         | -       | -        | D355L     | 610                 | 730 | 710 | 630 | 254 | 80  | 170 | 22 | 71   | 355 | 28                 | 655 | 965   | 1525 | 2-M75x1.5 |
| -        | 315       | 250     | 200      | D355L     | 610                 | 730 | 710 | 630 | 254 | 100 | 210 | 28 | 90   | 355 | 28                 | 655 | 965   | 1565 | 2-M75x1.5 |

### NOTES

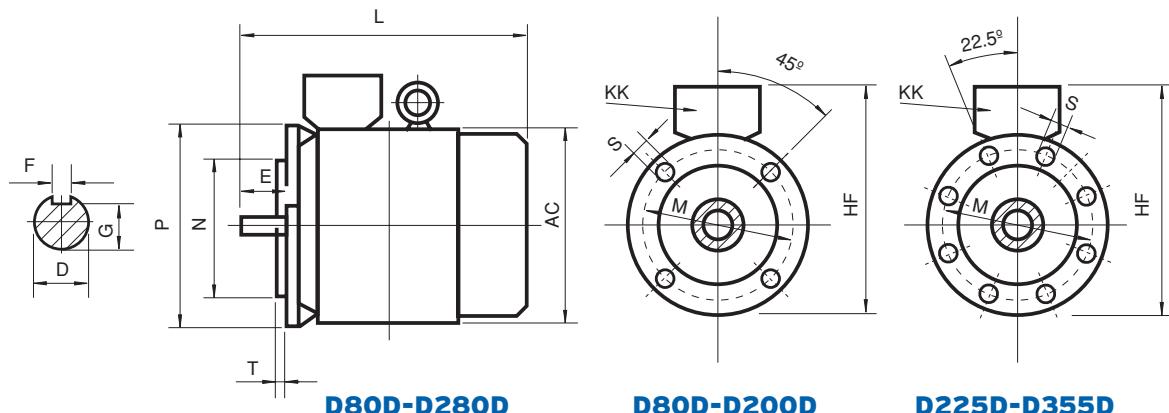
- Tolerance of Shaft End Diameter D: Ø38 to Ø48: k6, Ø55 and above: m6.
- Tolerance of Shaft Centre Height H: 250 and below: +0, -0.5; 280 and above: +0, -1.
- 2 pole 45kw and above, and 4 pole 160kw and above: for direct coupling only.
- All data is subject to change without prior notification. Not to be used for installation purposes without referring to TECO Electric Europe Limited.

### Dimensions in mm

# B5 Flange Mounted Dimensions

9

## FRAMES 80D-355LD



| Output (kW) |       |         |          | Frame  | Mounting Dimensions |     |    |      |     |     |     |    |     | Overall Dimensions |     |      | KK        |
|-------------|-------|---------|----------|--------|---------------------|-----|----|------|-----|-----|-----|----|-----|--------------------|-----|------|-----------|
| 2P          | 4P    | 6P      | 8P       |        | D                   | E   | F  | G    | M   | N   | P   | S  | T   | AC                 | HF  | L    |           |
| 0.75/1.1    | 0.75  | 0.55    | -        | D80D   | 19                  | 40  | 6  | 15.5 | 165 | 130 | 200 | 12 | 3.5 | 175                | 235 | 295  | 1-M20x1.5 |
| 1.5         | 1.1   | 0.75    | -        | D90S   | 24                  | 50  | 8  | 20   | 165 | 130 | 200 | 12 | 3.5 | 195                | 250 | 315  | 1-M20x1.5 |
| 2.2         | 1.5   | 1.1     | 0.55     | D90LD  | 24                  | 50  | 8  | 20   | 165 | 130 | 200 | 12 | 3.5 | 195                | 270 | 340  | 1-M20x1.5 |
| 3           | 2.2/3 | 1.5     | 0.75/1.1 | D100LD | 28                  | 60  | 8  | 24   | 215 | 180 | 250 | 15 | 4   | 215                | 280 | 385  | 1-M20x1.5 |
| 4           | 4     | 2.2     | 1.5      | D112MD | 28                  | 60  | 8  | 24   | 215 | 180 | 250 | 15 | 4   | 240                | 360 | 400  | 1-M25x1.5 |
| 5.5/7.5     | 5.5   | 3       | 2.2      | D132SD | 38                  | 80  | 10 | 33   | 265 | 230 | 300 | 15 | 4   | 275                | 360 | 470  | 1-M25x1.5 |
| -           | 7.5   | 4/5.5   | 3        | D132MD | 38                  | 80  | 10 | 33   | 265 | 230 | 300 | 15 | 4   | 275                | 360 | 510  | 1-M25x1.5 |
| 11/15       | 11    | 7.5     | 4/5.5    | D160MD | 42                  | 110 | 12 | 37   | 300 | 250 | 350 | 19 | 5   | 330                | 430 | 610  | 2-M32x1.5 |
| 18.5        | 15    | 11      | 7.5      | D160LD | 42                  | 110 | 12 | 37   | 300 | 250 | 350 | 19 | 5   | 330                | 430 | 654  | 2-M32x1.5 |
| 22          | 18.5  | -       | -        | D180MD | 48                  | 110 | 14 | 42.5 | 300 | 250 | 350 | 19 | 5   | 380                | 430 | 700  | 2-M32x1.5 |
| -           | 22    | 15      | 11       | D180LD | 48                  | 110 | 14 | 42.5 | 300 | 250 | 350 | 19 | 5   | 380                | 450 | 740  | 2-M32x1.5 |
| 30/37       | 30    | 18.5/22 | 15       | D200LD | 55                  | 110 | 16 | 49   | 350 | 300 | 400 | 19 | 5   | 420                | 545 | 770  | 2-M50x1.5 |
| -           | 37    | -       | 18.5     | D225SD | 60                  | 140 | 18 | 53   | 400 | 350 | 450 | 19 | 5   | 470                | 555 | 815  | 2-M50x1.5 |
| 45          | -     | -       | -        | D225MD | 55                  | 110 | 16 | 49   | 400 | 350 | 450 | 19 | 5   | 470                | 555 | 820  | 2-M50x1.5 |
| -           | 45    | 30      | 22       | D225MD | 60                  | 140 | 18 | 53   | 400 | 350 | 450 | 19 | 5   | 470                | 555 | 845  | 2-M50x1.5 |
| 55          | -     | -       | -        | D250MD | 60                  | 140 | 18 | 53   | 500 | 450 | 550 | 19 | 5   | 510                | 640 | 915  | 2-M63x1.5 |
| -           | 55    | 37      | 30       | D250MD | 65                  | 140 | 18 | 58   | 500 | 450 | 550 | 19 | 5   | 510                | 640 | 915  | 2-M63x1.5 |
| 75          | -     | -       | -        | D280SD | 65                  | 140 | 18 | 58   | 500 | 450 | 550 | 19 | 5   | 580                | 675 | 1002 | 2-M63x1.5 |
| -           | 75    | 45      | 37       | D280SD | 75                  | 140 | 20 | 67.5 | 500 | 450 | 550 | 19 | 5   | 580                | 675 | 1010 | 2-M63x1.5 |
| 90          | -     | -       | -        | D280MD | 65                  | 140 | 18 | 58   | 500 | 450 | 550 | 19 | 5   | 580                | 675 | 1052 | 2-M63x1.5 |
| -           | 90    | 55      | 45       | D280MD | 75                  | 140 | 20 | 67.5 | 500 | 450 | 550 | 19 | 5   | 580                | 675 | 1060 | 2-M63x1.5 |

## NOTES

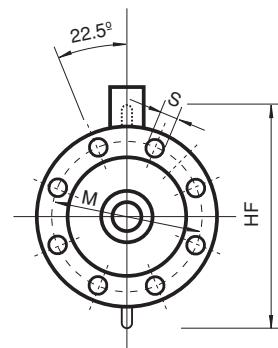
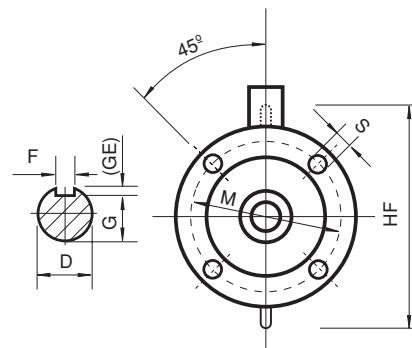
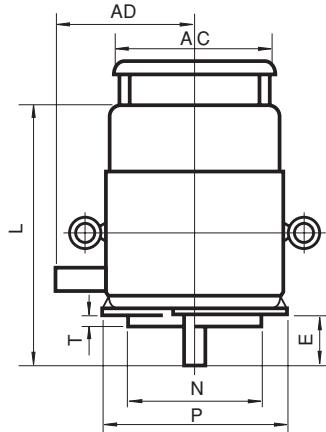
## Dimensions in mm

1. Tolerance of Shaft End Diameter D: Ø38 to Ø48: k6, Ø55 and above: m6
2. Tolerance of N: h7
3. 2 pole 45kw & above, 4 pole 160kw & above: for direct coupling only.
4. All data is subject to change without prior notification.  
Not to be used for installation purposes without referring to Teco Electric Europe Limited.

# V1 Flange Mounted Dimensions

10

## FRAMES 180D-355LD



D180D-D200D

D225D-D355D

| Output (kW) |         |         |         | Frame  | Mounting Dimensions |     |      |      |     |     |     |    |     | Overall Dimensions |      |           | KK        |
|-------------|---------|---------|---------|--------|---------------------|-----|------|------|-----|-----|-----|----|-----|--------------------|------|-----------|-----------|
| 2P          | 4P      | 6P      | 8P      |        | D                   | E   | F    | G    | M   | N   | P   | S  | T   | AC                 | HF   | L         |           |
| 22          | 18.5    | -       | -       | D180MD | 48                  | 110 | 14   | 42.5 | 300 | 250 | 350 | 19 | 5   | 380                | 500  | 700       | 2-M32x1.5 |
| -           | 22      | 15      | 11      | D180LD | 48                  | 110 | 14   | 42.5 | 300 | 250 | 350 | 19 | 5   | 380                | 500  | 740       | 2-M32x1.5 |
| 30/37       | 30      | 18.5/22 | 15      | D200LD | 55                  | 110 | 16   | 49   | 350 | 300 | 400 | 19 | 5   | 420                | 550  | 770       | 2-M50x1.5 |
| -           | 37      | -       | 18.5    | D225SD | 60                  | 140 | 18   | 53   | 400 | 350 | 450 | 19 | 5   | 470                | 610  | 815       | 2-M50x1.5 |
| 45          | -       | -       | -       | D225MD | 55                  | 110 | 16   | 49   | 400 | 350 | 450 | 19 | 5   | 470                | 610  | 820       | 2-M50x1.5 |
| 45          | 30      | 22      | D225MD  | 60     | 140                 | 18  | 53   | 400  | 350 | 450 | 19  | 5  | 470 | 610                | 845  | 2-M50x1.5 |           |
| 55          | -       | -       | -       | D250MD | 60                  | 140 | 18   | 53   | 500 | 450 | 550 | 19 | 5   | 510                | 650  | 910       | 2-M63x1.5 |
| 55          | 37      | 30      | D250MD  | 65     | 140                 | 18  | 58   | 500  | 450 | 550 | 19  | 5  | 510 | 650                | 910  | 2-M63x1.5 |           |
| 75          | -       | -       | -       | D280SD | 65                  | 140 | 18   | 58   | 500 | 450 | 550 | 19 | 5   | 580                | 720  | 985       | 2-M63x1.5 |
| 75          | 45      | 37      | D280SD  | 75     | 140                 | 20  | 67.5 | 500  | 450 | 550 | 19  | 5  | 580 | 720                | 985  | 2-M63x1.5 |           |
| 90          | -       | -       | -       | D280MD | 65                  | 140 | 18   | 58   | 500 | 450 | 550 | 19 | 5   | 580                | 720  | 1060      | 2-M63x1.5 |
| -           | 90      | 55      | 45      | D280MD | 75                  | 140 | 20   | 67.5 | 500 | 450 | 550 | 19 | 5   | 580                | 720  | 1060      | 2-M63x1.5 |
| 110         | -       | -       | -       | D315SD | 65                  | 140 | 18   | 58   | 600 | 550 | 660 | 24 | 6   | 645                | 900  | 1190      | 2-M63x1.5 |
| -           | 110     | 75      | 55      | D315SD | 80                  | 170 | 22   | 71   | 600 | 550 | 660 | 24 | 6   | 645                | 900  | 1215      | 2-M63x1.5 |
| 132         | -       | -       | -       | D315MD | 65                  | 140 | 18   | 58   | 600 | 550 | 660 | 24 | 6   | 645                | 900  | 1300      | 2-M63x1.5 |
| -           | 132     | 90      | 75      | D315MD | 80                  | 170 | 22   | 71   | 600 | 550 | 660 | 24 | 6   | 645                | 900  | 1325      | 2-M63x1.5 |
| 160/200     | -       | -       | -       | D315LD | 65                  | 140 | 18   | 58   | 600 | 550 | 660 | 24 | 6   | 645                | 900  | 1300      | 2-M63x1.5 |
| -           | 160/200 | 110/132 | 90/110  | D315LD | 80                  | 170 | 22   | 71   | 600 | 550 | 660 | 24 | 6   | 645                | 900  | 1325      | 2-M63x1.5 |
| 250         | -       | -       | -       | D355MD | 75                  | 140 | 20   | 67.5 | 740 | 680 | 800 | 24 | 6   | 710                | 1010 | 1525      | 2-M75x1.5 |
| -           | 250     | 160/200 | 132/160 | D355MD | 95                  | 170 | 25   | 86   | 740 | 680 | 800 | 24 | 6   | 710                | 1010 | 1565      | 2-M75x1.5 |
| 315         | -       | -       | -       | D355LD | 75                  | 140 | 20   | 67.5 | 740 | 680 | 800 | 24 | 6   | 710                | 1010 | 1525      | 2-M75x1.5 |
| -           | 315     | 250     | 200     | D355LD | 95                  | 170 | 25   | 86   | 740 | 680 | 800 | 24 | 6   | 710                | 1010 | 1565      | 2-M75x1.5 |

### NOTES

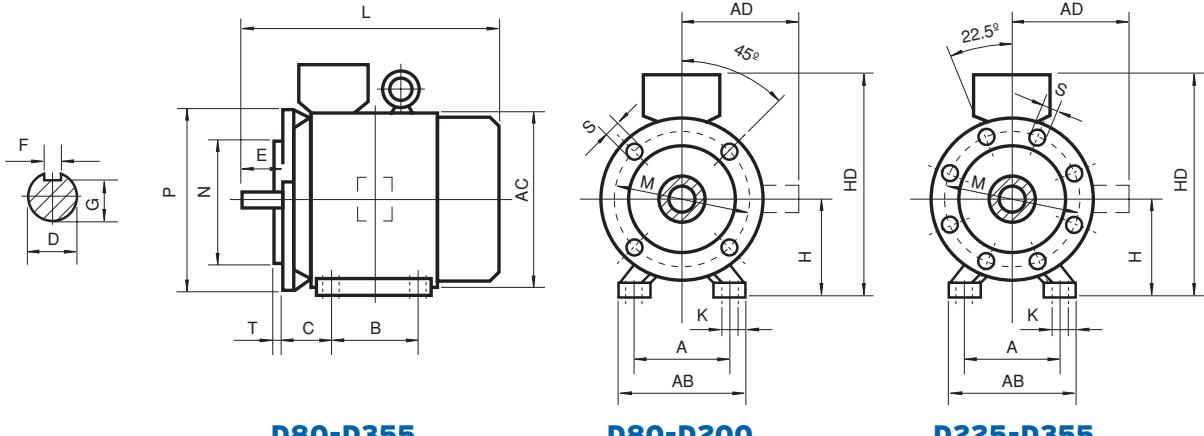
1. Tolerance of Shaft End Diameter D: Ø48: k6, Ø55 and above: m6
2. Tolerance of N: h7
3. 2 pole 45kw & above, 4 pole 160kw & above: for direct coupling only.
4. All data is subject to change without prior notification.  
Not to be used for installation purposes without referring to Teco Electric Europe Limited.

### Dimensions in mm

# B3/B5 Foot and Flange Mounted Dimensions

11

## FRAMES 80D-355LD



| Output (kW) |         |         |          | Frame | Mounting Dimensions |     |     |     |     |     |    |      |     |    |     |     |     | Overall Dimensions |     |     |     |       |      |
|-------------|---------|---------|----------|-------|---------------------|-----|-----|-----|-----|-----|----|------|-----|----|-----|-----|-----|--------------------|-----|-----|-----|-------|------|
| 2P          | 4P      | 6P      | 8P       |       | A                   | AB  | B   | C   | D   | E   | F  | G    | H   | K  | M   | N   | P   | S                  | T   | AC  | AD  | HD    | L    |
| 0.75/1.1    | 0.55    | 0.55    | -        | D80   | 125                 | 165 | 100 | 50  | 19  | 40  | 6  | 15.5 | 80  | 10 | 165 | 130 | 200 | 12                 | 3.5 | 175 | 145 | 230   | 295  |
| 1.5         | 1.1     | 0.75    | -        | D90S  | 140                 | 180 | 100 | 56  | 24  | 50  | 8  | 20   | 90  | 10 | 165 | 130 | 200 | 12                 | 3.5 | 195 | 155 | 248.5 | 315  |
| 2.2         | 1.5     | 1.1     | 0.55     | D90L  | 140                 | 180 | 125 | 56  | 24  | 50  | 8  | 20   | 90  | 10 | 165 | 130 | 200 | 12                 | 3.5 | 195 | 155 | 248.5 | 340  |
| 3           | 2.2/3   | 1.5     | 0.75/1.1 | D100L | 160                 | 205 | 140 | 63  | 28  | 60  | 8  | 24   | 100 | 12 | 215 | 180 | 250 | 15                 | 4   | 215 | 180 | 277   | 385  |
| 4           | 4       | 2.2     | 1.5      | D112M | 190                 | 230 | 140 | 70  | 28  | 60  | 8  | 24   | 112 | 12 | 215 | 180 | 250 | 15                 | 4   | 240 | 190 | 301   | 400  |
| 5.5/7.5     | 5.5     | 3       | 2.2      | D132S | 216                 | 270 | 140 | 89  | 38  | 80  | 10 | 33   | 132 | 12 | 265 | 230 | 300 | 15                 | 4   | 275 | 210 | 346   | 470  |
| -           | 7.5     | 4/5.5   | 3        | D132M | 216                 | 270 | 178 | 89  | 38  | 80  | 10 | 33   | 132 | 12 | 265 | 230 | 300 | 15                 | 4   | 275 | 210 | 346   | 510  |
| 11/15       | 11      | 7.5     | 4/5.5    | D160M | 254                 | 320 | 210 | 108 | 42  | 110 | 12 | 37   | 160 | 15 | 300 | 250 | 350 | 19                 | 5   | 330 | 255 | 430   | 610  |
| 18.5        | 15      | 11      | 7.5      | D160L | 254                 | 320 | 254 | 108 | 42  | 110 | 12 | 37   | 160 | 15 | 300 | 250 | 350 | 19                 | 5   | 330 | 255 | 430   | 654  |
| 22          | 18.5    | -       | -        | D180M | 279                 | 355 | 241 | 121 | 48  | 110 | 14 | 42.5 | 180 | 15 | 300 | 250 | 350 | 19                 | 5   | 380 | 280 | 465   | 702  |
| -           | 22      | 15      | 11       | D180L | 279                 | 355 | 279 | 121 | 48  | 110 | 14 | 42.5 | 180 | 15 | 300 | 250 | 350 | 19                 | 5   | 380 | 280 | 465   | 740  |
| 30/37       | 30      | 18.5/22 | 15       | D200L | 318                 | 395 | 305 | 133 | 55  | 110 | 16 | 49   | 200 | 19 | 350 | 300 | 400 | 19                 | 5   | 420 | 305 | 505   | 770  |
| -           | 37      | -       | 18.5     | D225S | 356                 | 435 | 286 | 149 | 60  | 140 | 18 | 53   | 225 | 19 | 400 | 350 | 450 | 19                 | 5   | 470 | 335 | 565   | 815  |
| 45          | -       | -       | -        | D225M | 356                 | 435 | 311 | 149 | 55  | 110 | 16 | 49   | 225 | 19 | 400 | 350 | 450 | 19                 | 5   | 470 | 335 | 565   | 820  |
|             | 45      | 30      | 22       | D225M | 356                 | 435 | 311 | 149 | 60  | 140 | 18 | 53   | 225 | 19 | 400 | 350 | 450 | 19                 | 5   | 470 | 335 | 565   | 845  |
| 55          | -       | -       | -        | D250M | 406                 | 490 | 349 | 168 | 60  | 140 | 18 | 53   | 250 | 24 | 500 | 450 | 550 | 19                 | 5   | 510 | 370 | 625   | 915  |
| -           | 55      | 37      | 30       | D250M | 406                 | 490 | 349 | 168 | 65  | 140 | 18 | 58   | 250 | 24 | 500 | 450 | 550 | 19                 | 5   | 510 | 370 | 625   | 915  |
| 75          | -       | -       | -        | D280S | 457                 | 550 | 368 | 190 | 65  | 140 | 18 | 58   | 280 | 24 | 500 | 450 | 550 | 19                 | 5   | 580 | 410 | 700   | 1002 |
| -           | 75      | 45      | 37       | D280S | 457                 | 550 | 368 | 190 | 75  | 140 | 20 | 67.5 | 280 | 24 | 500 | 450 | 550 | 19                 | 5   | 580 | 410 | 700   | 1010 |
| 90          | -       | -       | -        | D280M | 457                 | 550 | 419 | 190 | 65  | 140 | 18 | 58   | 280 | 24 | 500 | 450 | 550 | 19                 | 5   | 580 | 410 | 700   | 1052 |
| -           | 90      | 55      | 45       | D280M | 457                 | 550 | 419 | 190 | 75  | 140 | 20 | 67.5 | 280 | 24 | 500 | 450 | 550 | 19                 | 5   | 580 | 410 | 700   | 1060 |
| 110         | -       | -       | -        | D315S | 508                 | 635 | 406 | 216 | 65  | 140 | 18 | 58   | 315 | 28 | 600 | 550 | 660 | 24                 | 6   | 645 | 530 | 850   | 1190 |
| -           | 110     | 75      | 55       | D315S | 508                 | 635 | 406 | 216 | 80  | 170 | 22 | 71   | 315 | 28 | 600 | 550 | 660 | 24                 | 6   | 645 | 530 | 850   | 1215 |
| 132         | -       | -       | -        | D315M | 508                 | 635 | 457 | 216 | 65  | 140 | 18 | 58   | 315 | 28 | 600 | 550 | 660 | 24                 | 6   | 645 | 530 | 850   | 1300 |
| -           | 132     | 90      | 75       | D315M | 508                 | 635 | 457 | 216 | 80  | 170 | 22 | 71   | 315 | 28 | 600 | 550 | 660 | 24                 | 6   | 645 | 530 | 850   | 1325 |
| 160/200     | -       | -       | -        | D315L | 508                 | 635 | 508 | 216 | 65  | 140 | 18 | 58   | 315 | 28 | 600 | 550 | 660 | 24                 | 6   | 645 | 530 | 850   | 1300 |
| -           | 160/200 | 110/132 | 90/110   | D315L | 508                 | 635 | 508 | 216 | 80  | 170 | 22 | 71   | 315 | 28 | 600 | 550 | 660 | 24                 | 6   | 645 | 530 | 850   | 1325 |
| 250         | -       | -       | -        | D355M | 610                 | 730 | 560 | 254 | 80  | 170 | 22 | 71   | 355 | 28 | 740 | 680 | 800 | 24                 | 6   | 710 | 655 | 965   | 1525 |
| -           | 250     | 160/200 | 132/160  | D355M | 610                 | 730 | 560 | 254 | 100 | 210 | 28 | 90   | 355 | 28 | 740 | 680 | 800 | 24                 | 6   | 710 | 655 | 965   | 1565 |
| 315         | -       | -       | -        | D355L | 610                 | 730 | 630 | 254 | 80  | 170 | 22 | 71   | 355 | 28 | 740 | 680 | 800 | 24                 | 6   | 710 | 655 | 965   | 1525 |
| -           | 315     | 250     | 200      | D355L | 610                 | 730 | 630 | 254 | 100 | 210 | 28 | 90   | 355 | 28 | 740 | 680 | 800 | 24                 | 6   | 710 | 655 | 965   | 1565 |

### NOTES

- Tolerance of Shaft End Diameter D: Under Ø28: j6, Ø38 to Ø48: k6, Ø55 to Ø70: m6.
- Tolerance of Shaft Centre Height H: +0, -0.5 (frame 280SA and above: +0, -1).
- Tolerance of N: h7.
- 2 pole 45kw & above, 4 pole 160kw & above: for direct coupling only.
- All data is subject to change without prior notification. Not to be used for installation purposes without referring to TECO Electric Europe Limited.

Dimensions for larger frames available on request.

Dimensions in mm

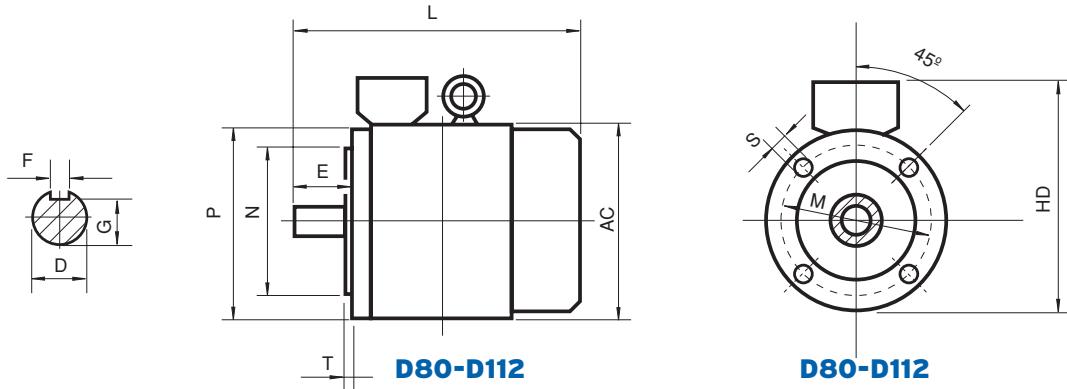
Dimensions in mm



# B14/B34 Foot & C-Face Mounted Dimensions

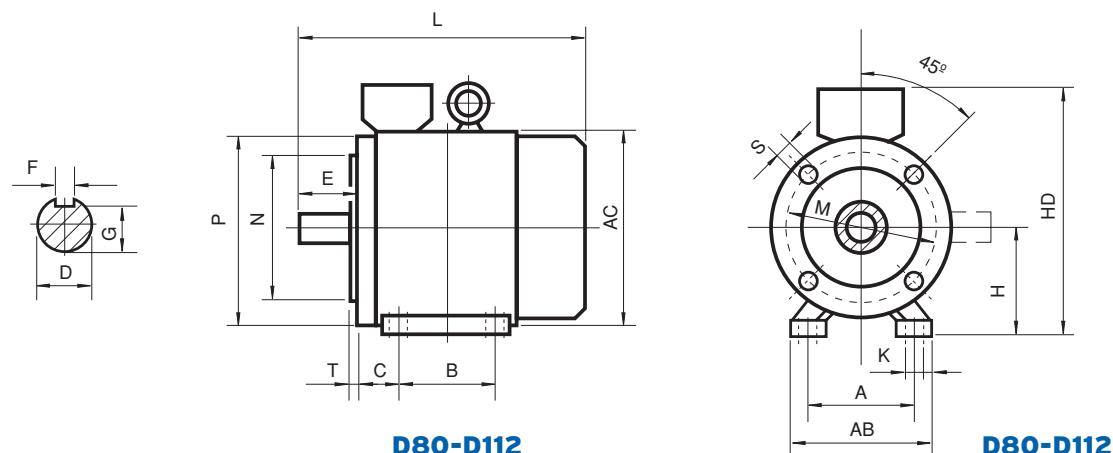
12

## B14 C-FACE MOUNTED FRAMES 80-112M



| Output (kW) |           |      |          | Frame | Mounting Dimensions |    |   |      |     |     |     |      |     | Overall Dimensions |     |     |
|-------------|-----------|------|----------|-------|---------------------|----|---|------|-----|-----|-----|------|-----|--------------------|-----|-----|
| 2P          | 4P        | 6P   | 8P       |       | D                   | E  | F | G    | M   | N   | P   | S    | T   | AC                 | HD  | L   |
| 0.75/1.1    | 0.55/0.75 | 0.55 | -        | D80   | 19                  | 40 | 6 | 15.5 | 100 | 80  | 120 | 4-M6 | 3   | 175                | 235 | 295 |
| 1.5         | 1.1       | 0.75 | -        | D90S  | 24                  | 50 | 8 | 20   | 115 | 95  | 140 | 4-M8 | 3   | 195                | 250 | 315 |
| 2.2         | 1.5       | 1.1  | 0.55     | D90L  | 24                  | 50 | 8 | 20   | 115 | 95  | 140 | 4-M8 | 3   | 195                | 270 | 340 |
| 3           | 2.2/3     | 1.5  | 0.75/1.1 | D100L | 28                  | 60 | 8 | 24   | 130 | 110 | 160 | 4-M8 | 3.5 | 215                | 280 | 385 |
| 4           | 4         | 2.2  | 1.5      | D112M | 28                  | 60 | 8 | 24   | 130 | 110 | 160 | 4-M8 | 3.5 | 240                | 360 | 400 |

## B34 FOOT AND C-FACE MOUNTED FRAMES 80-112M



| Output (kW) |           |      |          | Frame | Mounting Dimensions |     |     |    |    |    |   |      |     |    |     |     | Overall Dimensions |      |     |     |     |     |
|-------------|-----------|------|----------|-------|---------------------|-----|-----|----|----|----|---|------|-----|----|-----|-----|--------------------|------|-----|-----|-----|-----|
| 2P          | 4P        | 6P   | 8P       |       | A                   | AB  | B   | C  | D  | E  | F | G    | H   | K  | M   | N   | P                  | S    | T   | AC  | HD  | L   |
| 0.75/1.1    | 0.55/0.75 | 0.55 | -        | D80   | 125                 | 165 | 100 | 50 | 19 | 40 | 6 | 15.5 | 80  | 10 | 100 | 80  | 120                | 4-M6 | 3   | 175 | 214 | 295 |
| 1.5         | 1.1       | 0.75 | -        | D90S  | 140                 | 180 | 100 | 56 | 24 | 50 | 8 | 20   | 90  | 10 | 115 | 95  | 140                | 4-M8 | 3   | 195 | 250 | 315 |
| 2.2         | 1.5       | 1.1  | 0.55     | D90L  | 140                 | 180 | 125 | 56 | 24 | 50 | 8 | 20   | 90  | 10 | 115 | 95  | 140                | 4-M8 | 3   | 195 | 250 | 340 |
| 3           | 2.2/3     | 1.5  | 0.75/1.1 | D100L | 160                 | 205 | 140 | 63 | 28 | 60 | 8 | 24   | 100 | 12 | 130 | 110 | 160                | 4-M8 | 3.5 | 215 | 270 | 385 |
| 4           | 4         | 2.2  | 1.5      | D112M | 190                 | 230 | 140 | 70 | 28 | 60 | 8 | 24   | 112 | 12 | 130 | 110 | 160                | 4-M8 | 3.5 | 240 | 300 | 400 |

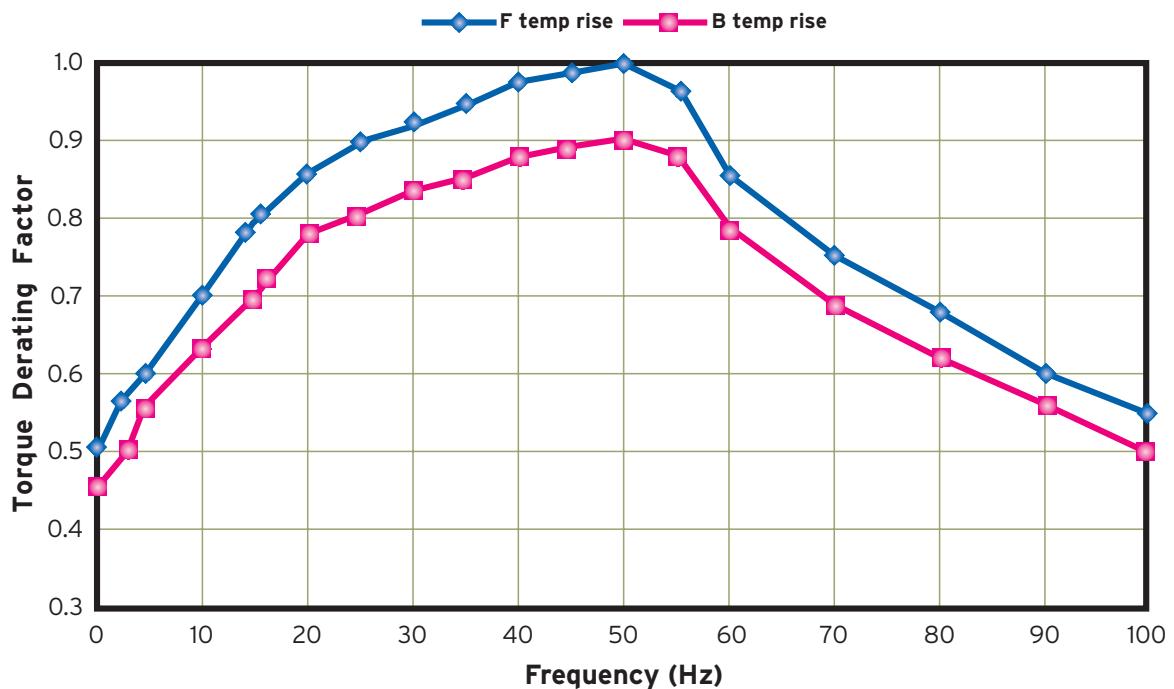
### NOTES

1. 132 and 160 frame details on application. Please consult Teco Electric Europe Limited
2. Tolerance of N: h7.
3. Tolerance of Shaft End Diameter D: Ø38 to Ø48:k6, Ø55 and above: m6
4. Tolerance of Shaft Centre Height H: 250 and below: +0, -0.5; 280 and above: +0, -1.
5. All data is subject to change without prior notification. Not to be used for installation purposes without referring to Teco Electric Europe Limited.

Dimensions in mm

# Motors Used With VFD Controls

## TORQUE DERATING UNDER VFD CONTROL



13

## MAXIMUM SAFE SPEED FOR MOTORS USED WITH VFD

| kW   | Synchronous Speed at 50Hz            |      |      | kW  | Synchronous Speed at 50Hz            |      |      |
|------|--------------------------------------|------|------|-----|--------------------------------------|------|------|
|      | 3000                                 | 1500 | 1000 |     | 3000                                 | 1500 | 1000 |
|      | maximum safe operating speed (r/min) |      |      |     | maximum safe operating speed (r/min) |      |      |
| 0.18 | 7200                                 | 3600 | 2400 | 22  | 5400                                 | 2700 | 2400 |
| 0.37 | 7200                                 | 3600 | 2400 | 30  | 4500                                 | 2700 | 2400 |
| 0.55 | 7200                                 | 3600 | 2400 | 37  | 4500                                 | 2700 | 2400 |
| 0.75 | 7200                                 | 3600 | 2400 | 45  | 3600                                 | 2700 | 2400 |
| 1.1  | 7200                                 | 3600 | 2400 | 55  | 3600                                 | 2700 | 2400 |
| 1.5  | 7200                                 | 3600 | 2400 | 75  | 3600                                 | 2700 | 1800 |
| 2.2  | 7200                                 | 3600 | 2400 | 90  | 3600                                 | 2700 | 1800 |
| 3    | 7200                                 | 3600 | 2400 | 110 | 3600                                 | 2700 | 1800 |
| 4    | 7200                                 | 3600 | 2400 | 132 | 3600                                 | 2250 | 1800 |
| 5.5  | 5400                                 | 3600 | 2400 | 160 | 3600                                 | 2250 | 1800 |
| 7.5  | 5400                                 | 3600 | 2400 | 200 | 3600                                 | 2250 | 1800 |
| 11   | 5400                                 | 3600 | 2400 | 250 | 3600                                 | 1800 | 1800 |
| 15   | 5400                                 | 3600 | 2400 | 315 | 3600                                 | 1800 | 1800 |
| 18.5 | 5400                                 | 2700 | 2400 |     |                                      |      |      |

### NOTES:

- This data is for direct coupled drive arrangement, and assumes constant power above 50Hz
- Noise and vibration limits applicable to 50Hz supply do not apply
- Bearing life will be affected by the operation time at various speeds

#### **HEAD OFFICE**

Teco Electric & Machinery Co., Ltd  
10F No.3-1, Yuan Cyu St.  
Nan-Kang Taipei 115  
Taiwan ROC  
Tel: +886 2 6615 9111  
[www.teco.com.tw](http://www.teco.com.tw)

#### **UNITED STATES**

Teco-Westinghouse Motor Company  
PO Box 227 (78680-0277)  
5100 N.IH35  
Round Rock Texas 78681 USA  
Tel: +1 512 255 4141  
+1 800 873 8326  
[www.tecowestinghouse.com](http://www.tecowestinghouse.com)

#### **CANADA**

Teco-Westinghouse  
Motors Inc. (Canada)  
18060-109th Ave  
Edmonton, Alberta T5S 2K2 Canada  
Tel: +1 780 444 8933  
Fax: (780) 486-4575  
24 HR Emergency Pager:  
(780) 419 7734  
Toll Free: 800-661-4023  
Fax Toll Free: 888-USE-TWMI  
[www.twmi.com](http://www.twmi.com)

#### **UNITED KINGDOM**

Teco Electric Europe Ltd.  
7 Dakota Avenue, Salford.  
M50 2PU  
Tel: +44 161 877 8025  
Fax: +44 161 877 8030  
[www.teco.co.uk](http://www.teco.co.uk)

#### **MEXICO**

Teco Westinghouse Motor Company  
S.A. de C.V.  
Circuito Mexiamora Poniente No. 321  
Col. Puerto Interior,  
Parque Santa Fe CP 36275  
Silao, Guanajuato, México  
Tel: +52 (472) 748 9016 al 20

#### **NETHERLANDS**

Teco Electric & Machinery B.V.  
Teco's European Head Office  
Rivium 3e Straat 27  
2909 LH Capelle a/d IJssel  
The Netherlands  
Tel: +31 10 266 6633  
Fax: +31 10 202 6415

#### **GERMANY**

Teco Electric & Machinery B.V.  
Niederlassung Deutschland,  
Marktstrasse 10  
69 37441 Bad Sachsa  
Germany  
Tel: +49 5523 95340  
Fax: +49 5523 953424  
[www.teco-westinghouse.de](http://www.teco-westinghouse.de)

#### **SPAIN**

Teco Electric & Machinery B.V.  
Spain Office  
C/Apostol Santiago, 38, 1-1  
28017 Madrid, Spain  
Tel/Fax: 34-91-326-30-91  
E-mail: [info@tecowestinghouse.es](mailto:info@tecowestinghouse.es)

#### **TURKEY**

OPTIMER Elektrik Makina Ltd.  
Inonu cad. Sumko Sitesi M4-A blok  
No: 2-kozyatagi-Istanbul 34742  
Tel: +90-216-464 54 13Pbx.  
Fax: +90-216-464 54 47

#### **MIDDLE EAST**

Teco Middle East Electric & Machinery  
Co., Ltd.  
Kingdom of Saudi Arabia Dammam City  
P.O. Box 708 - Dammam 31421 KSA  
Tel: +966 3 812 4823  
Fax: +966 3 834 1678  
[www.teco-me.com](http://www.teco-me.com)

#### **SAUDI ARABIA**

Al Quraishi Electrical Services of S.A.  
Al Quraishi Center, King Khalid Street,  
P.O.Box 7386, Dammam-31462  
Tel: +966 3 857-2537  
Fax: +966 3 857-2541  
[www.aqesa.com](http://www.aqesa.com)

#### **IRAN, AZERBAIJAN & ARMENIA**

ATLAS DIBA Engineering & Trade Co.  
No.3, Fakouri St., South Kadji Ave.  
Golha Sq., Fatemi, Tehran, Iran  
Tel: +98 21 88 33 03 81-3  
Fax: +98 21 88 33 03 84  
[www.atlasdibaco.com](http://www.atlasdibaco.com)

#### **EGYPT**

Amsol & Co.  
38 Mossadak Street Dokki, Giza, Egypt  
Tel: +202 333 79 774  
Fax: +202 376 20 307

#### **SOUTH AFRICA**

ArmCoil Afrika (Pty) Ltd.  
Unit 3 Prestige Park 127 Main Reef Road  
Technikon Roodepoort  
PO Box 500 Maraisburg 1700  
Gauteng South Africa  
Tel: +2711 763 2351  
Fax: 0866 318 588  
[www.armcoil.co.za](http://www.armcoil.co.za)

#### **AUSTRALIA**

Teco Australia Pty Ltd.  
335-337 Woodpark Road  
Smithfield NSW 2164 Australia  
Tel: +61 2 9765 8118  
[www.teco.com.au](http://www.teco.com.au)

#### **NEW ZEALAND**

Teco New Zealand Pty Ltd.  
Unit 3, 477 Great South Road  
Penrose Auckland New Zealand  
Tel: +64 9 526 8480

#### **JAPAN**

Sankyo Co., Ltd.  
26th fl. World Trading Center Bldg.  
2-4-1 Hamamatsucho Minato-ku  
Tokyo Japan 105-6126  
Tel: +81 3 3435 9729  
Fax: +81 3 3578 8381

#### **SINGAPORE**

Teco Electric & Machinery (PTE) Ltd.  
18 chin Bee Drive  
Singapore 619865  
Tel: +65 6 265 4622  
[www.teco.com.sg](http://www.teco.com.sg)

#### **INDONESIA**

P.T. Teco Multiguna Elektro  
JL Bandengan Utara No. 83/1-2-3  
Jakarta Utara-14440 Indonesia  
Tel: +62 21 662 2201

#### **CHINA**

Shanghai Office  
Rm 321 Building No.6  
Lane 1279 Zhongshan W. Rd.  
Shanghai, PRC  
Tel: +86 21 5116 8255  
Fax: +86 21 6278 8761

Wuxi Teco Electric & Machinery Co., Ltd  
No. 9 South of Changjiang Road,  
New Zone, Wuxi,  
Jiangsu Province, PRC  
Tel: +86 510 8534 2005  
Fax: +86 510 8534 2001  
[www.wuxiteco.com](http://www.wuxiteco.com)

Jiangxi Teco Electric & Machinery Co., Ltd  
189 Dongyuan Rd. Hi-Tech Zone, Nanchang  
Jiangxi Province, PRC  
Tel: +86 791 819 5999  
Fax: +86 791 816 7730

Suzhou Teco Electric & Machinery Co., Ltd  
No. 1 Changjiang W.Rd. Liuhe  
Taicang City, Suzhou,  
Jiangsu Province, PRC  
Tel: +86 512 5361 9901  
Fax: +86 512 5396 1058

Fujian Teco Precision Co., Ltd.  
Xiayang, Jiazhao, Zhanggang Village, Saiqi  
Development  
Zone, Fuan, Fujian, China  
Tel: +86 593 633 0300  
Fax: +86 593 633 0303

#### **HONG KONG**

Tecoson Industrial Development  
(HK) Co., Ltd.  
Rm 3712 Hong Kong Plaza  
186-191 Connaught Rd. West  
Hong Kong  
Tel: +852 2858 3220

#### **MALAYSIA**

Plo 52, Jalan Firma 2/1,  
Kawasan Perindustrian Tebrau 1,  
81100 Johor Bahru, Johor, Malaysia  
Tel: (60) 7-3518862 / (60) 7-3548008  
Fax: (60) 7-3546107

#### **THAILAND**

Teco Electric & Machinery  
(Thai) Co., Ltd.  
128/1 Soi Watsrivareenoi  
Moo 7 Bangna-Trad Road Km 18  
Bangchalong Bangplee  
Samutprakarn 10540 Thailand  
Tel: +662 3371311-20

#### **VIETNAM**

Teco(Vietnam) Electric & Machinery Co., Ltd  
KCN LONG Thanh, Huyen Long Thanh,  
Tinh Dong Nai, Vietnam  
Tel: +84 61 3514151  
Fax: +84 61 3514110

#### **PHILIPPINES**

Trade One  
No. 56 Aragon Street San Francisco  
Del Monte 1100 Quezon City Metro Manila,  
Philippines  
Tel: (632) 371-3032  
Fax: (632) 371-1175  
[www.tradeoneinc.com](http://www.tradeoneinc.com)