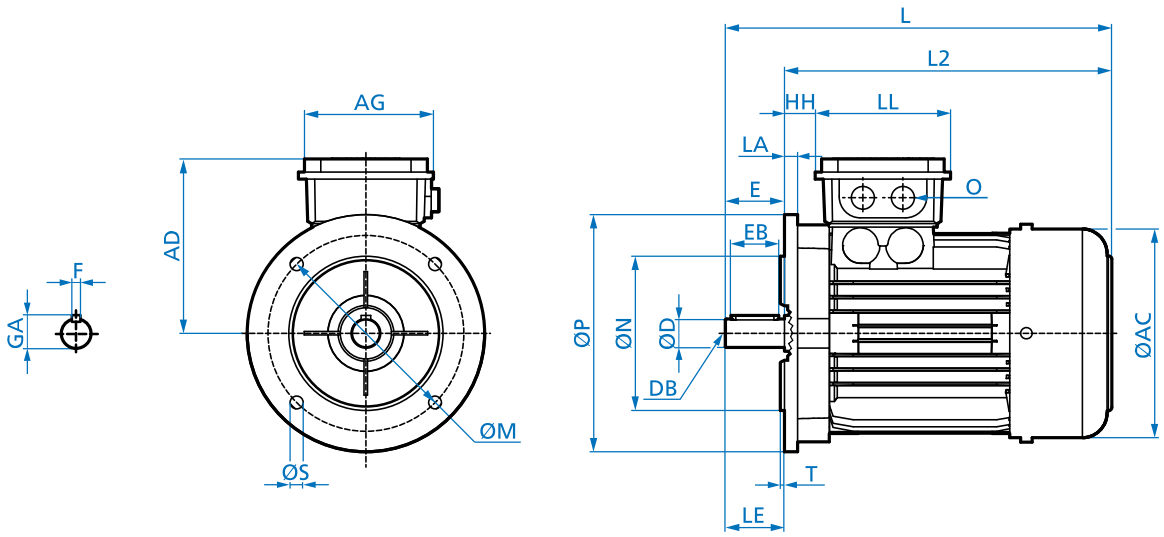
# Continuous Duty
# 230/460V - 60Hz

**Inverter duty • Induction motor • TEFC**
**Synchronous speed 1800rpm @ 60Hz • 4-pole • Three-phase**
**Voltages: 230/460V – 60Hz • 1.15 Service Factor**
**Continuous Duty • 40°C Ambient • up to 3300ft Elevation**
**Class B temperature rise • Class F insulation**

| Motor Type | $P_n$ Full Load Power | | Eff. Class | $n_N$ Full-Load Speed | $I_n$ Full-Load Current | | $I_a/I_n$ Locked Rotor Current Ratio | NEMA Code Letter | $T_n$ Full-Load Torque | $T_a/T_n$ Locked Rotor Torque Ratio | $T_k/T_n$ Break Down Torque Ratio | pf Power Factor | η Full Load Efficiency | $J_m$ Rotor Inertia | Wt. Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 230V | 460V | | | | | | | | | |
| | [hp] | [kW] | | [rpm] | [A] | [A] | [%] | | [lb-in] | | | | [%] | [lb-ft²] | [lb] |
| **63 S/4** | 0.16 | 0.12 | - | 1700 | 0.88 | 0.44 | 250% | F | 5.93 | 2.7 | 3.5 | 0.66 | 52.0% | 0.0050 | 7.9 |
| **63 L/4** | 0.25 | 0.18 | - | 1680 | 1.12 | 0.56 | 270% | E | 9.38 | 2.3 | 2.5 | 0.71 | 57.0% | 0.0066 | 9.3 |
| **71 S/4** | 0.33 | 0.25 | - | 1710 | 1.56 | 0.78 | 310% | G | 12.2 | 2.4 | 2.7 | 0.64 | 63.0% | 0.017 | 12 |
| **71 L/4** | 0.5 | 0.37 | - | 1720 | 1.90 | 0.95 | 350% | F | 18.3 | 2.3 | 2.7 | 0.69 | 71.0% | 0.020 | 14 |
| **80 S/4** | 0.75 | 0.55 | - | 1710 | 2.70 | 1.35 | 350% | F | 27.6 | 2.2 | 2.3 | 0.71 | 72.0% | 0.026 | 18 |
| **80 LP/4** | 1 | 0.75 | pe | 1730 | 3.14 | 1.57 | 650 | K | 36.4 | 3.5 | 3.8 | 0.70 | 86.1 | 0.045 | 22 |
| **90 SP/4** | 1.5 | 1.1 | pe | 1740 | 4.20 | 2.10 | 840 | L | 54.3 | 4.2 | 4.9 | 0.76 | 86.9 | 0.081 | 33 |
| **90 LP/4** | 2 | 1.5 | pe | 1730 | 5.60 | 2.80 | 760 | K | 72.9 | 3.9 | 4.3 | 0.78 | 87.0 | 0.093 | 37 |
| **100 LP/4** | 3 | 2.2 | pe | 1770 | 7.68 | 3.84 | 920 | L | 107 | 3.0 | 4.5 | 0.79 | 90.0 | 0.192 | 62 |
| **112 MP/4** | 5 | 3.7 | pe | 1755 | 13.0 | 6.50 | 950 | L | 180 | 4.1 | 4.6 | 0.80 | 90.3 | 0.332 | 78 |
| **132 SP/4** | 7.5 | 5.5 | pe | 1770 | 19.5 | 9.75 | 1020 | M | 267 | 4.7 | 5.0 | 0.77 | 91.7 | 0.759 | 121 |
| **132 MP/4** | 10 | 7.5 | pe | 1765 | 26.7 | 13.4 | 960 | M | 357 | 4.7 | 5.0 | 0.77 | 91.7 | 0.831 | 137 |
| **160 MP/4** | 15 | 11 | pe | 1770 | 35.6 | 17.8 | 880 | K | 534 | 3.2 | 3.8 | 0.84 | 92.5 | 1.59 | 205 |
| **160 LP/4** | 20 | 15 | pe | 1775 | 47.6 | 23.8 | 1080 | M | 710 | 4.3 | 4.7 | 0.85 | 93.0 | 2.18 | 269 |
| **180 MP/4** | 25 | 18.5 | pe | 1780 | 60.6 | 30.3 | 1010 | L | 885 | 3.9 | 4.0 | 0.82 | 93.6 | 3.80 | 342 |
| **180 LP/4** | 30 | 22 | pe | 1780 | 69.6 | 34.8 | 880 | K | 1062 | 3.3 | 3.4 | 0.85 | 93.6 | 3.80 | 342 |
| **225 RP/4** | 40 | 30 | pe | 1785 | - | 49.5 | 890 | K | 1412 | 3.4 | 3.8 | 0.81 | 94.5 | 11.6 | 694 |
| **225 SP/4** | 50 | 37 | pe | 1785 | - | 59.7 | 880 | K | 1765 | 3.0 | 3.7 | 0.82 | 94.6 | 12.8 | 728 |
| **225 MP/4** | 60 | 45 | pe | 1785 | - | 72.0 | 910 | K | 2118 | 3.3 | 3.6 | 0.83 | 95.2 | 15.9 | 805 |
| **250 WP/4** | 75 | 55 | pe | 1785 | - | 84.4 | 920 | J | 2648 | 2.9 | 3.2 | 0.86 | 95.4 | 19.5 | 882 |

# IEC B5 Flanged Motors

**Standard Motor**




| Motor Frame | Efficiency | | Flange | Overall | | | Mounting Flange | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | IE1 | IE3 | Size | L | L2 | ØAC | M | N | P | LA | T | S |
| 132 | S/M/MA | SP/MP | A300 | 491 | 411 | 266 | 265 | 230 $^{+0.016}_{-0.013}$ | 300 | 20 | 4.0 | 13.0 |
| 160 | M/L | SP/MP | A350 | 602 | 492 | 319 | 300 | 250 $^{+0.016}_{-0.013}$ | 350 | 20 | 5.0 | 17.5 |
| 160 | | LP | A350 | 646 | 536 | | | | | | | |
| 180 | MX | | A350 | 602 | 492 | 319 | 300 | 250 $^{+0.016}_{-0.013}$ | 350 | 20 | 5.0 | 17.5 |
| 180 | LX | | A350 | 646 | 536 | | | | | | | |
| 180 | | MP/LP | A350 | 724 | 614 | 362 | 300 | 250 $^{+0.016}_{-0.013}$ | 350 | 14 | 5.0 | 17.5 |
| 200 | LX | - | A400 | 724 | 614 | 362 | 350 | 300 $^{+0.000}_{-0.032}$ | 400 | 14 | 5.0 | 17.5 |
| 225 | - | SP | A450 | 882 | 742 | 443 | 400 | 350 $^{+0.000}_{-0.036}$ | 450 | 20 | 5.0 | 17.5 |
| 225 | - | MP | A450 | 882 | 742 | 443 | 400 | 350 $^{+0.000}_{-0.036}$ | 450 | 20 | 5.0 | 17.5 |

| Motor Frame | Efficiency | | Flange | Shaft | | | | | | Terminal Box | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | IE1 | IE3 | Size | ØD | DB | E | LE | EB | GA | F | AD | HH | LL | AG | O |
| 132 | S/M/MA | SP/MP | A300 | 38 $^{+0.018}_{+0.002}$ | M12 | 80 | 80 | 70 | 41.0 | 10 | 204 | 47 | 122 | 122 | M32 x 1.5 |
| 160 | M/L | SP/MP | A350 | 42 $^{+0.018}_{+0.002}$ | M16 | 110 | 110 | 90 | 45.0 | 12 | 242 | 52 | 186 | 186 | M40 x 1.5 |
| 160 | | LP | A350 | | | | | | | | | | | | |
| 180 | MX | | A350 | 48 $^{+0.018}_{+0.002}$ | M16 | 110 | 110 | 100 | 51.5 | 12 | 242 | 52 | 186 | 186 | M40 x 1.5 |
| 180 | LX | | A350 | | | | | | | | | | | | |
| 180 | | MP/LP | A350 | 48 $^{+0.018}_{+0.002}$ | M16 | 110 | 110 | 100 | 51.5 | 14 | 259 | 54 | 186 | 186 | M40 x 1.5 |
| 200 | LX | - | A400 | 55 $^{+0.021}_{+0.002}$ | M16 | 110 | 110 | 100 | 59.0 | 14 | 259 | 54 | 186 | 186 | M40 x 1.5 |
| 225 | - | SP | A450 | 60 $^{+0.030}_{+0.011}$ | M20 | 140 | 140 | 125 | 64.0 | 18 | 347 | 94 | 245 | 245 | M50 X 1.5 |
| 225 | - | MP | A450 | 60 $^{+0.030}_{+0.011}$ | M20 | 140 | 140 | 125 | 64.0 | 18 | 347 | 94 | 245 | 245 | M50 X 1.5 |