

STANDARD THREE-PHASE MOTORS

| Motor Frame | Motor Shaft Dia. | App. wt. kg** | 2 Pole* 48 rev/sec | | | | 4 Pole* 24 rev/sec | | | | 6 Pole* 16 rev/sec | | | | 8 Pole* 12 rev/sec | | | |
|------------------|------------------|---------------|-----------------------|------|-----|-------|-----------------------|------|-----|-------|-----------------------|------|-----|-------|-----------------------|------|------|-------|
| | | | kW# | FLA | LRC | Eff%† | kW# | FLA | LRC | Eff%† | kW# | FLA | LRC | Eff%† | kW# | FLA | LRC | Eff%† |
| D71 _B | 14 | 11 | 0.37 | 0.9 | 6.1 | 67.7 | 0.37 | 1.0 | 4.1 | 69.3 | - | - | - | - | - | - | - | - |
| D71 | 14 | 16 | 0.55 | 1.3 | 6.1 | 76.0 | - | - | - | - | - | - | - | - | - | - | - | - |
| D80 _A | 19 | 18 | 0.75 | 1.5 | 7.0 | 83.4 | 0.55 | 1.4 | 4.8 | 72.8 | 0.37 | 1.1 | 2.8 | 66.5 | - | - | - | - |
| D80 _B | 19 | 22 | 1.1 | 2.2 | 7.3 | 84.4 | 0.75 | 1.9 | 7.5 | 82.2 | 0.55 | 1.7 | 3.1 | 68.2 | - | - | - | - |
| D90S | 24 | 25 | 1.5 | 2.9 | 8.4 | 86.4 | 1.1 | 2.6 | 6.2 | 84.0 | 0.75 | 2.0 | 5.5 | 77.7 | - | - | - | - |
| D90L | 24 | 30 | 2.2 | 4.3 | 8.7 | 86.5 | 1.5 | 3.4 | 7.0 | 86.2 | 1.1 | 2.8 | 6.2 | 79.9 | 0.55 | 2.0 | 3.26 | 65.5 |
| D100L | 28 | 38 | 3.0 | 5.7 | 9.0 | 86.7 | 2.2 | 4.7 | 8.3 | 86.5 | 1.5 | 3.6 | 6.0 | 81.9 | 0.75 | 2.1 | 5.7 | 77.2 |
| D100L | 28 | 44 | - | - | - | - | 3.0 | 6.2 | 8.0 | 87.4 | - | - | - | - | 1.1 | 2.9 | 5.6 | 78.6 |
| D112M | 28 | 52 | 4.0 | 7.1 | 9.2 | 89.6 | 4.0 | 8.2 | 7.3 | 88.9 | 2.2 | 5.2 | 5.7 | 84.9 | 1.5 | 4.2 | 4.7 | 80.8 |
| D132S | 38 | 70 | 5.5 | 9.9 | 8.0 | 90.2 | 5.5 | 10.6 | 7.1 | 90.2 | 3.0 | 6.6 | 5.9 | 86.3 | 2.2 | 5.1 | 5.6 | 84.9 |
| D132S | 38 | 73 | 7.5 | 13.3 | 7.9 | 90.6 | - | - | - | - | - | - | - | - | - | - | - | - |
| D132M | 38 | 85 | - | - | - | - | 7.5 | 14.3 | 7.4 | 90.5 | 4.0 | 8.8 | 6.4 | 87.2 | 3.0 | 7.0 | 5.8 | 85.6 |
| D132M | 38 | 87 | - | - | - | - | - | - | - | - | 5.5 | 11.8 | 6.6 | 87.9 | - | - | - | - |
| D160M | 42 | 130 | 11.0 | 19.5 | 8.0 | 92.0 | 11 | 20.7 | 7.4 | 91.0 | 7.5 | 15.4 | 6.4 | 89.2 | 4.0 | 9.4 | 5.7 | 86.0 |
| D160M | 42 | 130 | 15.0 | 26.4 | 7.8 | 92.4 | - | - | - | - | - | - | - | - | 5.5 | 12.8 | 6.0 | 86.6 |
| D160L | 42 | 150 | 18.5 | 32.5 | 7.6 | 92.2 | 15 | 27.6 | 7.5 | 91.8 | - | 22.7 | 6.9 | 89.9 | 7.5 | 16.4 | 6.3 | 87.6 |
| D180M | 48 | 185 | 22 | 38.6 | 7.9 | 93.0 | 18.5 | 32.8 | 7.9 | 92.3 | - | - | - | - | - | - | - | - |
| D180L | 48 | 200 | - | - | - | - | 22 | 38 | 7.9 | 92.8 | 15 | 29.8 | 6.5 | 90.8 | 11 | 24.5 | 5.8 | 88.7 |
| D200L | 55 | 260 | 30 | 53 | 9.0 | 94.1 | 30 | 53 | 8.8 | 93.6 | 18.5 | 35 | 8.4 | 92.3 | 15 | 32.8 | 6.6 | 90.8 |
| D200L | 55 | 265 | 37 | 65 | 6.5 | 93.3 | - | - | - | - | 22 | 42.5 | 8.8 | 92.5 | - | - | - | - |
| D225S | 55/60 | 310 | - | - | - | - | 37 | 64 | 7.6 | 94.1 | - | - | - | - | 18.5 | 38.5 | 5.6 | 91.4 |
| D225M | 55/60 | 330 | 45 | 79 | 9.0 | 93.7 | 45 | 79 | 9.0 | 94.3 | 30 | 54 | 7.4 | 92.6 | 22 | 44 | 5.2 | 92.0 |
| D250M | 60/65 | 430 | 55 | 93 | 8.9 | 94.6 | 55 | 95 | 9.1 | 94.4 | 37 | 65 | 8.0 | 93.2 | 30 | 59 | 6.0 | 92.4 |
| D280S | 65/70 | 660 | 75 | 126 | 9.2 | 94.9 | 75 | 126 | 7.4 | 95.2 | 45 | 78 | 7.8 | 93.5 | 37 | 73 | 6.8 | 93.0 |
| D280M | 65/80 | 700 | 90 | 147 | 7.1 | 95.4 | 90 | 151 | 6.6 | 95.9 | 55 | 96 | 9.0 | 94.2 | 45 | 86 | 6.7 | 93.4 |
| D315S | 80 | 1000 | 110 | 181 | 6.2 | 95.5 | 110 | 185 | 7.2 | 95.8 | 75 | 131 | 7.0 | 94.4 | 55 | 101 | 7.1 | 93.7 |
| D315M | 80/85 | 1100 | 132 | 222 | 6.0 | 95.5 | 132 | 221 | 7.0 | 95.5 | 90 | 155 | 7.1 | 95.0 | 75 | 139 | 7.3 | 94.5 |
| D315L | 80/85 | 1180 | 160 | 263 | 5.4 | 95.5 | 160 | 261 | 7.2 | 95.7 | 110 | 189 | 7.0 | 95.4 | 90 | 168 | 6.5 | 94.8 |
| D315L | 80/85 | 1320 | - | - | - | - | - | - | - | - | 132 | 229 | 7.8 | 95.6 | 110 | 205 | 6.5 | 95.3 |

* The figures in this table are to be used as a guide only.

For direct drive axial flow fan applications in normal ambient temperatures, airstream cooling enables the power available from the motors to be increased without detriment to the motor. Fantech will utilise this facility whenever possible.

** Motor weight will vary depending on the manufacturer. Our data is based upon a commonly used brand of motor.

† Efficiency is at 100% of full load and will vary depending on the manufacturer. Our data is based upon a commonly used brand of motor.

Starting Amps

Direct-on-line (D.O.L.) = Full Load Amps \square Locked Rotor Current Multiplier
 = FLA \square LRC
 Star/delta starting = $\frac{\text{FLA} \square \text{LRC}}{3}$

Where:

DOL = Direct-on-line
 FLA = Full Load Amps
 LRC = Locked Rotor Current Multiplier
 The data on this page does not apply to external rotor motors.