

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : General NEMA Premium Efficiency Three-Phase

Product code : 10016390

Catalog # : 01018OT3E215TF2

Frame : 213/5T
Output : 10 HP (7.5 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 24.7/12.4 A
L. R. Amperes : 161/80.4 A
LRC : 6.5x(Code H)
No load current : 10.9/5.45 A
Rated speed : 1765 rpm
Slip : 1.94 %
Rated torque : 29.8 ft.lb
Locked rotor torque : 210 %
Breakdown torque : 290 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 1.20 sq.ft.lb
Design : B

Locked rotor time : 10s (cold) 6s (hot)
Temperature rise : 105 K
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP21
Cooling method : IC01 - ODP
Mounting : F-2
Rotation¹ : Both (CW and CCW)
Noise level² : 59.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 120 lb

| Output | 25% | | 50% | | 75% | | 100% | |
|----------------|------|------|------|------|------|------|------|------|
| Efficiency (%) | 89.4 | 83.1 | 90.2 | 85.1 | 91.0 | 87.5 | 91.7 | 89.6 |
| | 83.5 | 83.6 | 85.1 | 85.0 | 88.0 | 88.4 | 89.6 | 89.7 |
| | 87.3 | 87.2 | 87.5 | 87.7 | 87.5 | 88.5 | 87.5 | 88.7 |
| | 87.3 | | 88.2 | | 88.7 | | 89.5 | |
| Power Factor | 0.40 | 0.37 | 0.64 | 0.59 | 0.76 | 0.72 | 0.83 | 0.81 |
| | 0.33 | 0.30 | 0.55 | 0.51 | 0.69 | 0.65 | 0.78 | 0.75 |
| | 0.45 | 0.41 | 0.69 | 0.65 | 0.80 | 0.77 | 0.86 | 0.84 |
| | 0.38 | | 0.61 | | 0.75 | | 0.82 | |

Foundation loads
Max. traction : 447 lb
Max. compression : 567 lb

| | Drive end | Non drive end |
|------------------------|----------------------|----------------------|
| Bearing type : | 6208 ZZ | 6206 ZZ |
| Sealing : | Without Bearing Seal | Without Bearing Seal |
| Lubrication interval : | - | - |
| Lubricant amount : | - | - |
| Lubricant type : | Mobil Polyrex EM | |

Notes:

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

| Rev. | Changes Summary | Performed | Checked | Date |
|--------------|-----------------|---------------|---------|------|
| | | | | |
| Performed by | | Page 1 / 1 | | |
| Checked by | | | | |
| Date | 25/03/2024 | | | |
| | | Revision | | |