

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency
Three-Phase

Product code : 12617113

Catalog # : 00112OT3E145T-S

Frame : 143/5T
Output : 1 HP (0.75 kW)
Poles : 6
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 3.30/1.65 A
L. R. Amperes : 20.1/10.1 A
LRC : 6.1x(Code K)
No load current : 2.26/1.13 A
Rated speed : 1150 rpm
Slip : 4.17 %
Rated torque : 4.57 ft.lb
Locked rotor torque : 250 %
Breakdown torque : 300 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 0.1419 sq.ft.lb
Design : B

Locked rotor time : 43s (cold) 24s (hot)
Temperature rise : 80 K
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Cooling method : IC01 - ODP
Mounting : F-1
Rotation¹ : Both (CW and CCW)
Noise level² : 50.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 34.9 lb

| Output | 25% | | 50% | | 75% | | 100% | |
|----------------|------|------|------|------|------|------|------|------|
| Efficiency (%) | 77.2 | 80.1 | 78.5 | 78.8 | 81.5 | 79.5 | 82.5 | 77.3 |
| | 76.5 | | 76.6 | | 79.1 | | 78.6 | |
| Power Factor | 0.26 | 0.31 | 0.47 | 0.55 | 0.60 | 0.69 | 0.69 | 0.77 |
| | 0.26 | | 0.48 | | 0.62 | | 0.72 | |

Foundation loads
Max. traction : 114 lb
Max. compression : 149 lb

| | Drive end | Non drive end |
|----------------------|------------------------|------------------------|
| Bearing type | : 6205 ZZ | : 6203 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 | 26/03/2024 | | | |
| | | | Revision | |