

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Premium Efficiency Three-Phase

Product code : 12809254

Catalog # : .7518OT3E56C-S

Frame : 56C
 Output : 0.75 HP (0.55 kW)
 Poles : 4
 Frequency : 60 Hz
 Rated voltage : 208-230/460 V
 Rated current : 2.54-2.30/1.15 A
 L. R. Amperes : 18.5-16.8/8.40 A
 LRC : 7.3x(Code K)
 No load current : 1.38-1.60/0.800 A
 Rated speed : 1760 rpm
 Slip : 2.22 %
 Rated torque : 2.24 ft.lb
 Locked rotor torque : 250 %
 Breakdown torque : 300 %
 Insulation class : F
 Service factor : 1.25
 Moment of inertia (J) : 0.0712 sq.ft.lb

Locked rotor time : 37s (cold) 21s (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 : 52.0 dB(A)
 Starting method : Direct On Line
 Approx. weight³ : 23.7 lb

| Output | 25% | | 50% | | 75% | | 100% | |
|----------------|------|------|------|------|------|------|------|------|
| Efficiency (%) | 71.6 | 76.5 | 74.0 | 76.6 | 78.5 | 79.2 | 81.1 | 78.8 |
| | 72.3 | | 73.6 | | 77.8 | | 78.9 | |
| Power Factor | 0.29 | 0.34 | 0.52 | 0.60 | 0.65 | 0.73 | 0.74 | 0.81 |
| | 0.29 | | 0.52 | | 0.65 | | 0.75 | |

Foundation loads
 Max. traction : 65 lb
 Max. compression : 89 lb

| | | | |
|----------------------|---|----------------------|----------------------|
| | | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type | : | 6203 ZZ | 6202 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 | 27/03/2024 | | | |
| | | | Revision | |