

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Premium Efficiency Three-Phase

Product code : 12808936

Catalog # : .2536OT3E56C-S

| | | | |
|-----------------------|-----------------------|-----------------------------|------------------------|
| Frame | : 56C | Locked rotor time | : 77s (cold) 43s (hot) |
| Output | : 0.25 HP (0.18 kW) | Temperature rise | : 80 K |
| Poles | : 2 | Duty cycle | : Cont.(S1) |
| Frequency | : 60 Hz | Ambient temperature | : -20°C to +40°C |
| Rated voltage | : 208-230/460 V | Altitude | : 1000 m.a.s.l. |
| Rated current | : 1.01-0.918/0.459 A | Cooling method | : IC01 - ODP |
| L. R. Amperes | : 7.00-6.33/3.17 A | Mounting | : F-1 |
| LRC | : 6.9x(Code M) | Rotation ¹ | : Both (CW and CCW) |
| No load current | : 0.604-0.700/0.350 A | Noise level ² | : 62.0 dB(A) |
| Rated speed | : 3525 rpm | Starting method | : Direct On Line |
| Slip | : 2.08 % | Approx. weight ³ | : 16.5 lb |
| Rated torque | : 0.372 ft.lb | | |
| Locked rotor torque | : 240 % | | |
| Breakdown torque | : 330 % | | |
| Insulation class | : F | | |
| Service factor | : 1.35 | | |
| Moment of inertia (J) | : 0.0389 sq.ft.lb | | |

| Output | 25% | | 50% | | 75% | | 100% | |
|----------------|------|------|------|------|------|------|------|------|
| Efficiency (%) | 53.3 | 56.4 | 55.0 | 58.8 | 64.0 | 65.6 | 65.6 | 68.3 |
| | 52.1 | | 55.2 | | 63.1 | | 67.2 | |
| Power Factor | 0.31 | 0.36 | 0.56 | 0.62 | 0.66 | 0.73 | 0.75 | 0.81 |
| | 0.31 | | 0.55 | | 0.66 | | 0.75 | |

| | |
|------------------|---------|
| Foundation loads | |
| Max. traction | : 5 lb |
| Max. compression | : 22 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 | |