

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

| | | | | |
|--|-------------------|------------------------------|--|------------------------|
| Customer : | | | | |
| Product line : Rolled Steel NEMA Premium Efficiency Three-Phase | | Product code : 12751143 | | |
| | | Catalog # : 00318OT3E182T-SG | | |
| Frame | : 182/4T | | Locked rotor time | : 27s (cold) 15s (hot) |
| Output | : 3 HP (2.2 kW) | | Temperature rise | : 80 K |
| Poles | : 4 | | Duty cycle | : Cont.(S1) |
| Frequency | : 60 Hz | | Ambient temperature | : -20°C to +40°C |
| Rated voltage | : 230/460 V | | Altitude | : 1000 m.a.s.l. |
| Rated current | : 7.72/3.86 A | | Cooling method | : IC01 - ODP |
| L. R. Amperes | : 64.8/32.4 A | | Mounting | : F-1 |
| LRC | : 8.4x(Code K) | | Rotation ¹ | : Both (CW and CCW) |
| No load current | : 4.14/2.07 A | | Noise level ² | : 55.0 dB(A) |
| Rated speed | : 1765 rpm | | Starting method | : Direct On Line |
| Slip | : 1.94 % | | Approx. weight ³ | : 66.4 lb |
| Rated torque | : 8.93 ft.lb | | | |
| Locked rotor torque | : 220 % | | | |
| Breakdown torque | : 330 % | | | |
| Insulation class | : F | | | |
| Service factor | : 1.15 | | | |
| Moment of inertia (J) | : 0.3092 sq.ft.lb | | | |
| Design | : B | | | |
| Output | 25% | 50% | 75% | 100% |
| Efficiency (%) | 86.4 | 85.6 | 87.5 | 86.0 |
| | 88.5 | 86.5 | 89.5 | 86.7 |
| | 87.1 | 86.8 | 87.8 | 87.2 |
| Power Factor | 0.35 | 0.42 | 0.60 | 0.68 |
| | 0.73 | 0.79 | 0.80 | 0.85 |
| | 0.35 | 0.60 | 0.73 | 0.81 |
| Foundation loads | | Max. traction : 172 lb | | |
| | | Max. compression : 238 lb | | |
| Bearing type | : | Drive end | Non drive end | |
| Sealing | : | 6206 ZZ | 6205 ZZ | |
| Lubrication interval | : | Without Bearing Seal | Without Bearing Seal | |
| 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 |
| Performed by | | | | |
| Checked by | | | Page | Revision |
| Date | 31/10/2023 | | 1 / 1 | |