

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

| | | | | | | | | | | |
|--|---------------------------|-------------------------|--|-----------------------------|------------------------|----------|------|------|------------------|----------|
| Customer : | | | | | | | | | | |
| Product line : Rolled Steel NEMA Premium Efficiency Three-Phase | | Product code : 14484731 | | | | | | | | |
| | | | Catalog # : 00136OT3E143T-S | | | | | | | |
| Frame | : 143/5T | | | Locked rotor time | : 39s (cold) 22s (hot) | | | | | |
| Output | : 1 HP (0.75 kW) | | | Temperature rise | : 80 K | | | | | |
| Poles | : 2 | | | 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 | : 2.76/1.38 A | | | Cooling method | : IC01 - ODP | | | | | |
| L. R. Amperes | : 22.9/11.5 A | | | Mounting | : F-1 | | | | | |
| LRC | : 8.3x(Code L) | | | Rotation ¹ | : Both (CW and CCW) | | | | | |
| No load current | : 1.28/0.640 A | | | Noise level ² | : 62.0 dB(A) | | | | | |
| Rated speed | : 3510 rpm | | | Starting method | : Direct On Line | | | | | |
| Slip | : 2.50 % | | | Approx. weight ³ | : 11.7 kg | | | | | |
| Rated torque | : 0.207 kgfm | | | | | | | | | |
| Locked rotor torque | : 210 % | | | | | | | | | |
| Breakdown torque | : 330 % | | | | | | | | | |
| Insulation class | : F | | | | | | | | | |
| Service factor | : 1.15 | | | | | | | | | |
| Moment of inertia (J) | : 0.0027 kgm ² | | | | | | | | | |
| Design | : B | | | | | | | | | |
| Output | 25% | 50% | 75% | 100% | Foundation loads | | | | | |
| Efficiency (%) | 72.4 | 79.0 | 74.0 | 79.1 | 78.5 | 81.1 | 80.0 | 80.7 | Max. traction | : 16 kgf |
| | 75.3 | 76.4 | 80.0 | 80.8 | | | | | | |
| Power Factor | 0.41 | 0.45 | 0.66 | 0.73 | 0.78 | 0.84 | 0.85 | 0.89 | Max. compression | : 27 kgf |
| | 0.37 | 0.64 | 0.77 | 0.84 | | | | | | |
| | | | | | | | | | | |
| Bearing type | : | <u>Drive end</u> | | <u>Non drive end</u> | | | | | | |
| Sealing | : | 6205 ZZ | | 6203 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 | Date | | | | |
| Performed by | | | | | | | | | | |
| Checked by | | | | | Page | Revision | | | | |
| Date | 31/07/2023 | | | | 1 / 1 | | | | | |