

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



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|--|--|-----------|---------|----------|
| Customer : | | | | |
| Product line | : Rolled Steel NEMA Premium Efficiency Three-Phase | | | |
| Product code : | 12677336 | | | |
| Catalog # : | 00536ET3ER184TC-S | | | |
| Frame | : 182/4TC | | | |
| Insulation class | : F | | | |
| Duty cycle | : Cont.(S1) | | | |
| Ambient temperature | : -20°C to +40°C | | | |
| Altitude | : 1000 m.a.s.l. | | | |
| Protection degree | : IP55 | | | |
| Design | : B | | | |
| Cooling method | : IC411 - TEFC | | | |
| Mounting | : W-6 | | | |
| Rotation ¹ | : Both (CW and CCW) | | | |
| Starting method | : Direct On Line | | | |
| Approx. weight ² | : 90.1 lb | | | |
| Moment of inertia (J) | : 0.2079 sq.ft.lb | | | |
| Output [HP] | 5 | | | |
| Poles | 2 | | | |
| Frequency [Hz] | 60 | | | |
| Rated voltage [V] | 208-230/460 | | | |
| Rated current [A] | 13.1-11.8/5.90 | | | |
| L. R. Amperes [A] | 102-92.0/46.0 | | | |
| LRC [A] | 7.8x(Code J) | | | |
| No load current [A] | 3.80-4.40/2.20 | | | |
| Rated speed [RPM] | 3500 | | | |
| Slip [%] | 2.78 | | | |
| Rated torque [ft.lb] | 7.40 | | | |
| Locked rotor torque [%] | 220 | | | |
| Breakdown torque [%] | 300 | | | |
| Service factor | 1.15 | | | |
| Temperature rise | 80 K | | | |
| Locked rotor time | 30s (cold) 17s (hot) | | | |
| Noise level ² | 68.0 dB(A) | | | |
| Efficiency (%) | 25% | | | |
| | 50% | 87.5 | | |
| | 75% | 88.5 | | |
| | 100% | 88.5 | | |
| Power Factor | 25% | | | |
| | 50% | 0.76 | | |
| | 75% | 0.85 | | |
| | 100% | 0.89 | | |
| 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). (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 | 23/01/2018 | | 1 / | |