

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



| | | | | | | | | | |
|---|--|-----------------------------|------------------------|-----------------|--|--|--|--|--|
| Customer : | | | | | | | | | |
| Product line | : Rolled Steel NEMA Premium Efficiency Three-Phase | | Product code : | 14015789 | | | | | |
| | | | Catalog # : | 01518ET3J254T-S | | | | | |
| Frame | : 254/6T | Locked rotor time | : 34s (cold) 19s (hot) | | | | | | |
| Output | : 15 HP (11 kW) | Temperature rise | : 80 K | | | | | | |
| Poles | : 4 | Duty cycle | : Cont.(S1) | | | | | | |
| Frequency | : 60 Hz | Ambient temperature | : -20°C to +40°C | | | | | | |
| Rated voltage | : 380 V | Altitude | : 1000 m.a.s.l. | | | | | | |
| Rated current | : 22.0 A | Protection degree | : IP55 | | | | | | |
| L. R. Amperes | : 143 A | Cooling method | : IC411 - TEFC | | | | | | |
| LRC | : 6.5x(Code G) | Mounting | : F-1 | | | | | | |
| No load current | : 10.5 A | Rotation ¹ | : Both (CW and CCW) | | | | | | |
| Rated speed | : 1770 rpm | Noise level ² | : 68.0 dB(A) | | | | | | |
| Slip | : 1.67 % | Starting method | : Direct On Line | | | | | | |
| Rated torque | : 44.5 ft.lb | Approx. weight ³ | : 211 lb | | | | | | |
| Locked rotor torque | : 250 % | | | | | | | | |
| Breakdown torque | : 300 % | | | | | | | | |
| Insulation class | : F | | | | | | | | |
| Service factor | : 1.15 | | | | | | | | |
| Moment of inertia (J) | : 2.15 sq.ft.lb | | | | | | | | |
| Design | : B | | | | | | | | |
| Output | 25% | 50% | 75% | 100% | | | | | |
| Efficiency (%) | 90.8 | 91.0 | 92.4 | 92.4 | | | | | |
| Power Factor | 0.39 | 0.64 | 0.76 | 0.82 | | | | | |
| Foundation loads | | | | | | | | | |
| | Max. traction | | : 534 lb | | | | | | |
| | Max. compression | | : 746 lb | | | | | | |
| Drive end | | | | | | | | | |
| Bearing type | : 6309 Z C3 | Non drive end | | | | | | | |
| Sealing | : V'Ring | 6208 Z C3 | | | | | | | |
| Lubrication interval | : 20000 h | Without Bearing Seal | | | | | | | |
| Lubricant amount | : 13 g | 20000 h | | | | | | | |
| Lubricant type | : Mobil Polyrex EM | 8 g | | | | | | | |
| 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. | | | | | | | | | |
| Rev. | Changes Summary | | | Performed | | | | | |
| | | | | Checked | | | | | |
| Performed by | | | | | | | | | |
| Checked by | | | | | | | | | |
| Date | 26/03/2024 | | | Page 1 / 1 | | | | | |
| Revision | | | | | | | | | |