DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 IEEE 841 NEMA Premium Product code: 12739947 Efficiency Three-Phase : 143/5T Locked rotor time Frame : 30s (cold) 17s (hot) Output : 2 HP (1.5 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : 2 : -20°C to +40°C Frequency : 60 Hz Ambient temperature : 1000 m.a.s.l. Rated voltage : 575 V Altitude Rated current : 2.05 A Protection degree : IP55 : IC411 - TEFC L. R. Amperes : 18.2 A Cooling method **LRC** : 8.9x(Code L) Mounting : F-1 : Both (CW and CCW) No load current : 0.720 A Rotation¹ Rated speed : 3475 rpm Noise level² : 68.0 dB(A) Slip : 3.47 % Starting method : Direct On Line Rated torque : 0.418 kgfm Approx. weight³ : 23.9 kg Locked rotor torque : 350 % Breakdown torque : 380 % : F Insulation class Service factor : 1.25 Moment of inertia (J) : 0.0026 kgm² Design : B 50% 75% 100% Output Foundation loads Efficiency (%) 82.5 85.5 85.5 Max. traction : 33 kgf Power Factor 0.71 0.80 0.86 Max. compression : 57 kgf Losses at normative operating points (speed;torque), in percentage of rated output power P2 (0,5;1,0) P4 (0,9;0,5) P1 (0,9;1,0) P3 (0,25;1,0) P5 (0,5;0,5) P6 (0,5;0,25) P7 (0,25;0,25) 15.9 12.2 10.9 8.2 4.8 3.1 1.9 Drive end Non drive end Bearing type 6205 C3 6204 C3 Sealing Taconite Labyrinth Taconite Labyrinth 20000 h 20000 h Lubrication interval Lubricant amount 4 g 4 g 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 |
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

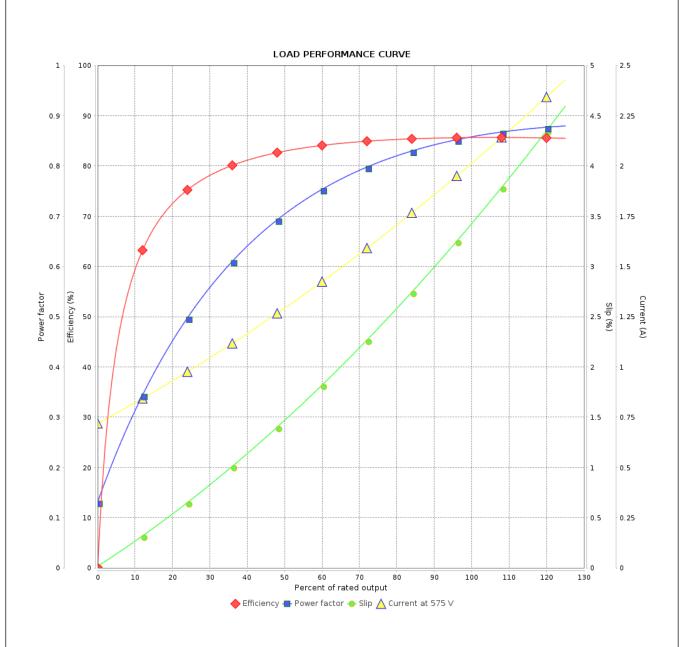


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 12739947



Performance : 575 V 60 Hz 2P : 2.05 A : 0.0026 kgm² Rated current Moment of inertia (J) **LRC** : 8.9 Duty cycle : Cont.(S1) : 0.418 kgfm Insulation class : F Rated torque Locked rotor torque : 350 % Service factor : 1.25 Breakdown torque : 380 % Temperature rise : 80 K Rated speed : 3475 rpm Design : B Rev. **Changes Summary** Performed Checked Date

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