DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : ODP NEMA Premium Efficiency Three-Product code: 10780670 : 404/5T Locked rotor time Frame : 18s (cold) 10s (hot) Output : 100 HP (75 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature : 1000 m.a.s.l. Rated voltage : 575 V Altitude Protection degree Rated current : 90.4 A : IP23 Cooling method : IC01 - ODP L. R. Amperes : 606 A : 6.7x(Code G) **LRC** Mounting : F-1 : Both (CW and CCW) No load current : 33.6 A Rotation¹ Rated speed : 1780 rpm Noise level² : 69.0 dB(A) : Direct On Line Slip : 1.11 % Starting method Rated torque : 40.8 kgfm Approx. weight³ : 448 kg Locked rotor torque : 229 % Breakdown torque : 270 % : F Insulation class Service factor : 1.15 Moment of inertia (J) : 0.9623 kgm² Design : B 50% 75% Output 100% Foundation loads Efficiency (%) 95.0 95.4 95.4 Max. traction : 859 kgf Power Factor : 1307 kgf 0.77 0.84 0.87 Max. compression Drive end Non drive end Bearing type 6316 C3 6314 C3 Without Bearing Seal Without Bearing Seal Sealing 20000 h Lubrication interval 20000 h Lubricant amount 34 g 27 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.

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LOAD PERFORMANCE CURVE

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Customer :

Product line : ODP NEMA Premium Efficiency Three-

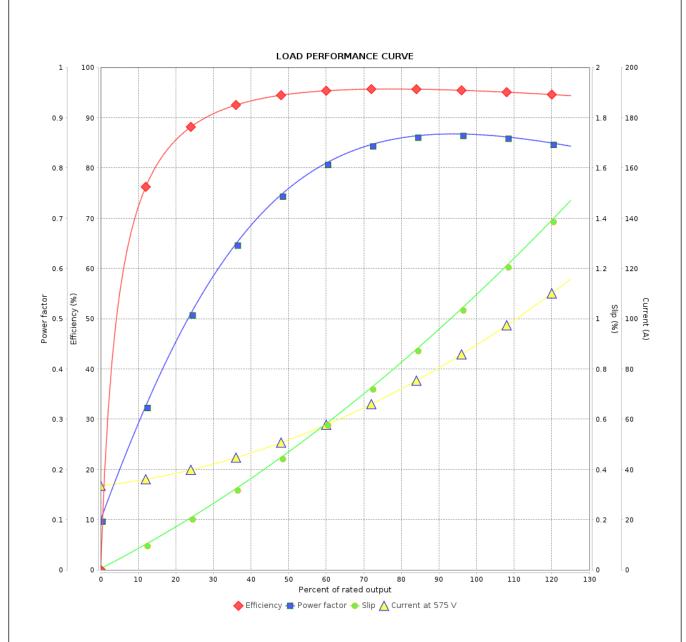
Product code:

10780670



05/02/2024

Date



Performance	: 575 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 90.4 A : 6.7 : 40.8 kgfm : 229 % : 270 % : 1780 rpm	Moment of Duty cycle Insulation Service fa Temperati Design	class ctor	: 0.9623 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	2
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