DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : ODP NEMA Premium Efficiency Three-Product code: 14200587 : 444/5T Locked rotor time Frame : 32s (cold) 18s (hot) Output : 100 HP (75 kW) Temperature rise : 105 K Poles Duty cycle : Cont.(S1) Frequency : 60 Hz Ambient temperature : -20°C to +40°C : 575 V Rated voltage Altitude : 1000 m.a.s.l. Protection degree Rated current : 100 A : IP23 Cooling method : IC01 - ODP L. R. Amperes : 570 A **LRC** : 5.7x(Code G) Mounting : F-1 : Both (CW and CCW) No load current : 44.8 A Rotation¹ Rated speed : 1190 rpm Noise level² : 77.0 dB(A) Slip : 0.83 % Starting method : Direct On Line Rated torque : 61.0 kgfm Approx. weight³ : 609 kg Locked rotor torque : 210 % Breakdown torque : 240 % : F Insulation class Service factor : 1.15 Moment of inertia (J) : 1.85 kgm² Design : B 50% 75% Output 100% Foundation loads Efficiency (%) 94.5 95.0 95.0 Max. traction : 976 kgf Power Factor : 1584 kgf 0.62 0.74 0.79 Max. compression Non drive end Drive end Bearing type 6319 C3 6316 C3 Without Bearing Seal Without Bearing Seal Sealing Lubrication interval 20000 h 20000 h

Mobil Polyrex EM

45 g

Notes:

Lubricant amount

Lubricant type

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

34 g

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	05/02/2024			1/2	

MG-1.

LOAD PERFORMANCE CURVE

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Customer :

Product line : ODP NEMA Premium Efficiency Three-

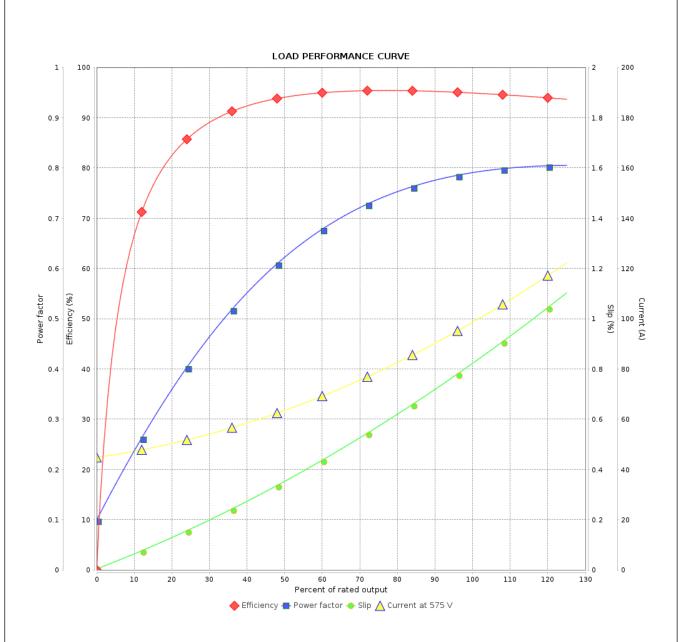
Product code:

14200587



05/02/2024

Date



Performance	: 575 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 100 A : 5.7 : 61.0 kgfm : 210 % : 240 % : 1190 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.85 kgm² : Cont.(S1) : F : 1.15 : 105 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

2/2