DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : ODP NEMA Premium Efficiency Three-Product code: 10851161 Locked rotor time Frame : 364/5TS : 25s (cold) 14s (hot) Output : 75 HP (55 kW) Temperature rise : 80 K Poles : 2 Duty cycle : Cont.(S1) Frequency : 60 Hz Ambient temperature : -20°C to +40°C Rated voltage : 575 V Altitude : 1000 m.a.s.l. Rated current : 66.7 A Protection degree : IP23 : IC01 - ODP L. R. Amperes : 427 A Cooling method **LRC** : 6.4x(Code G) Mounting : F-1 : Both (CW and CCW) No load current : 18.8 A Rotation¹ Rated speed : 3560 rpm Noise level² : 80.0 dB(A) Slip : 1.11 % Starting method : Direct On Line Rated torque : 15.3 kgfm Approx. weight³ : 333 kg Locked rotor torque : 180 % Breakdown torque : 280 % : F Insulation class Service factor : 1.15 Moment of inertia (J) : 0.2870 kgm² Design 25% 50% 100% Output 75% Foundation loads Efficiency (%) 93.5 93.6 94.1 94.1 Max. traction : 315 kgf Power Factor 0.54 0.78 0.85 0.88 Max. compression : 648 kgf Drive end Non drive end 6314 C3 Bearing type 6314 C3

Bearing type : 6314 C3 6314 C3
Sealing : Without Bearing Seal
Lubrication interval : 14418 h 14418 h

Lubricant amount : 27 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.

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

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-

Product code:

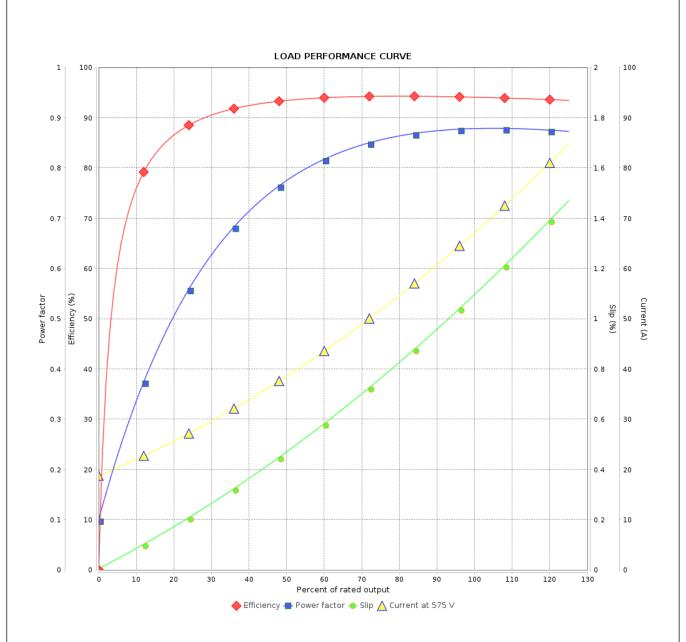
10851161

2/2



05/02/2024

Date



Performance	: 575 V 60 Hz 2P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 66.7 A : 6.4 : 15.3 kgfm : 180 % : 280 % : 3560 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.2870 kgm ² : Cont.(S1) : F : 1.15 : 80 K : B	2
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision