DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Three-Product code: 14497528 Locked rotor time Frame : 324/6TS : 27s (cold) 15s (hot) Output : 60 HP (45 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : 2 Frequency : 60 Hz Ambient temperature : -20°C to +40°C Rated voltage : 575 V Altitude : 1000 m.a.s.l. Rated current : 57.5 A Protection degree : IP23 : IC01 - ODP L. R. Amperes : 362 A Cooling method LRC : 6.3x(Code G) Mounting : F-1 : Both (CW and CCW) No load current : 16.0 A Rotation¹ Rated speed : 3555 rpm Noise level² : 75.0 dB(A) : Direct On Line Slip : 1.25 % Starting method Rated torque : 12.2 kgfm Approx. weight³ : 214 kg Locked rotor torque : 220 % Breakdown torque : 229 % : F Insulation class Service factor : 1.25 Moment of inertia (J) : 0.1610 kgm² Design : B 25% 50% Output 75% 100% Foundation loads

Efficiency (%) 91.7 92.4 93.0 93.6 Max. traction Power Factor 0.51 0.72 0.81 0.84 Max. compression Drive end Non drive end Bearing type 6312 Z C3 6211 Z C3 Without Bearing Seal Without Bearing Seal Sealing

Lubrication interval : 19658 h 20000 h Lubricant amount : 21 g 11 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
 Page
 Revision

 Date
 22/10/2023
 1 / 2

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

22/10/2023

Product line : W40 NEMA Premium Efficiency Three-

Product code:

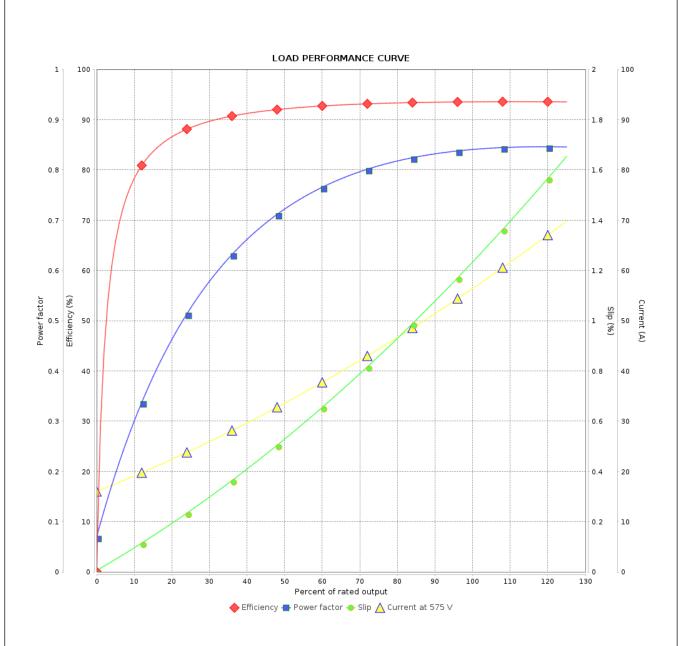
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Page

2/2

Revision





Performance	: 5	575 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 1 jue : 2	57.5 A 5.3 12.2 kgfm 220 % 229 % 8555 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 0.1610 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Changes Summary			Performed	Checked	Date
Performed by						