DATA SHEET

Checked by

Date

13/01/2024

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 11457867 Locked rotor time Frame : 324/6T : 27s (cold) 15s (hot) Output : 50 HP (37 kW) Temperature rise : 80 K Poles 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 : 47.4 A Protection degree : IP55 : IC411 - TEFC L. R. Amperes : 294 A Cooling method LRC Mounting : 6.2x(Code G) : F-1 : Both (CW and CCW) No load current : 18.8 A Rotation¹ Rated speed : 1775 rpm Noise level² : 70.0 dB(A) Slip : 1.39 % Starting method : Direct On Line Rated torque : 20.4 kgfm Approx. weight³ : 269 kg Locked rotor torque : 229 % Breakdown torque : 270 % : F Insulation class Service factor : 1.25 Moment of inertia (J) : 0.3861 kgm² Design : B 25% 100% Output 50% 75% Foundation loads Efficiency (%) 92.5 93.0 94.1 94.5 Max. traction : 560 kgf Power Factor 0.42 0.66 0.77 0.83 Max. compression : 830 kgf Losses at normative operating points (speed;torque), in percentage of rated output power P2 (0,5;1,0) P3 (0,25;1,0) P4 (0,9;0,5) P1 (0,9;1,0) P5 (0,5;0,5) P6 (0,5;0,25) P7 (0,25;0,25) 5.7 4.9 4.7 2.7 1.9 1.2 0.9 Drive end Non drive end Bearing type 6312 C3 6212 C3 Sealing V'Ring V'Ring 20000 h Lubrication interval 20000 h Lubricant amount 21 g 13 g Lubricant type Mobil Polyrex EM Notes: This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal must be eliminated. power supply, subject to the tolerances stipulated in NEMA (1) Looking the motor from the shaft end. MG-1. (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. Performed Checked Rev. **Changes Summary** Date Performed by

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Revision

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



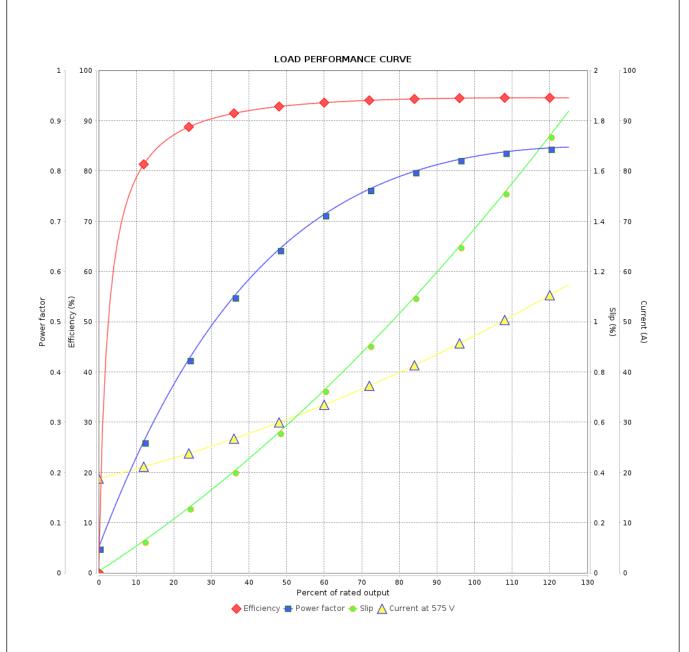
Customer :

Product line : W22 NEMA Premium Efficiency Three-

Product code:

11457867





Performance		: 575 V 60 Hz 4P					
Rated current	: 4	: 47.4 A		Moment of inertia (J)		: 0.3861 kgm²	
LRC	: 6.	: 6.2 Du		;	: Cont.(S1)		
Rated torque	: 20	20.4 kgfm Insulation class		: F			
Locked rotor torq	ue : 2:	29 %	Service factor		: 1.25		
Breakdown torqu	e : 2°	270 % Temperature rise		ıre rise	: 80 K		
Rated speed	: 1	: 1775 rpm		Design			
Rev.	Changes Summary			Performed	Checked	Date	
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Checked by					Page	Revision	
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