DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W21 Explosion Proof NEMA Premium Product code: 14407462 Efficiency Three-Phase : 284T Locked rotor time Frame : 45s (cold) 25s (hot) Output : 15 HP (11 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) Frequency : 60 Hz Ambient temperature : -20°C to +40°C : 1000 m.a.s.l. Rated voltage : 575 V Altitude Rated current : 14.0 A Protection degree : IP55 : IC411 - TEFC L. R. Amperes : 101 A Cooling method Mounting **LRC** : 7.2x(Code H) : F-1 : Both (CW and CCW) No load current : 4.80 A Rotation¹ Rated speed : 1177 rpm Noise level² : 59.0 dB(A) Slip : 1.92 % Starting method : Direct On Line Rated torque : 9.25 kgfm Approx. weight³ : 210 kg Locked rotor torque : 250 % Breakdown torque : 260 % : F Insulation class Service factor : 1.15 Moment of inertia (J) : 0.2981 kgm² Design : B 25% 100% Output 50% 75% Foundation loads Efficiency (%) 90.8 91.0 91.7 91.7 Max. traction : 239 kgf Power Factor 0.49 0.74 0.82 0.86 Max. compression : 449 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) P5 (0,5;0,5) P1 (0,9;1,0) P6 (0,5;0,25) P7 (0,25;0,25) 8.8 7.2 4.2 2.7 1.7 1.1 Drive end Non drive end Bearing type 6311 C3 6211 C3 Sealing Oil Seal Lip Seal 20000 h 20000 h Lubrication interval Lubricant amount 18 g 11 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 Checked by Page Revision

1/3

15/01/2024

Date

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Customer	
Customer	

Thermal protection

ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	15/01/2024			2/3	

LOAD PERFORMANCE CURVE

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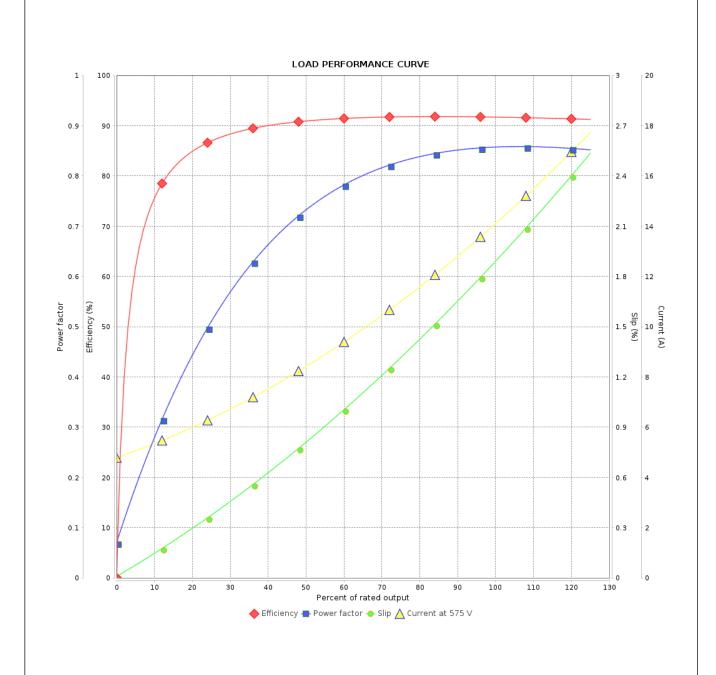


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14407462



Performance	: 575 V 60 Hz 6P	: 575 V 60 Hz 6P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.0 A : 7.2 : 9.25 kgfm : 250 % : 260 % : 1177 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2981 kgm² : Cont.(S1) : F : 1.15 : 80 K : B			
Rev.	Changes Summary		Performed	Checked	Date		
Performed by							
Checked by				Page	Revision		

3/3

15/01/2024

Date