DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W21 Explosion Proof NEMA Premium Product code: 14407412 Efficiency Three-Phase : 324T Locked rotor time Frame : 34s (cold) 19s (hot) Output : 40 HP (30 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 Protection degree Rated current : 38.6 A : IP55 : 297 A Cooling method : IC411 - TEFC L. R. Amperes : 7.7x(Code J) **LRC** Mounting : F-1 : Both (CW and CCW) No load current : 18.4 A Rotation¹ Rated speed : 1780 rpm Noise level² : 71.0 dB(A) : Direct On Line Slip : 1.11 % Starting method Rated torque : 16.3 kgfm Approx. weight³ : 294 kg Locked rotor torque : 270 % Breakdown torque : 300 % : F Insulation class Service factor : 1.15 Moment of inertia (J) : 0.3441 kgm² Design : B 25% 50% 100% Output 75% Foundation loads Efficiency (%) 92.8 93.0 94.1 94.1 Max. traction : 469 kgf : 763 kgf Power Factor 0.39 0.66 0.77 0.83 Max. compression Drive end Non drive end Bearing type 6312 C3 6212 C3 Oil Seal Lip Seal Sealing Lubrication interval 20000 h 20000 h Lubricant amount 21 g 13 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	15/01/2024			1/3	

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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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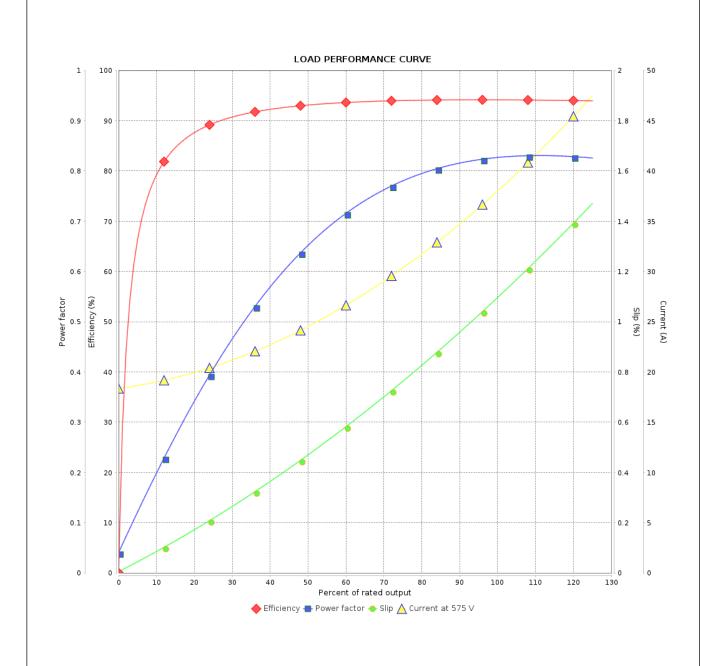


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14407412



Performance	: 57	75 V 60 Hz 4P					
Rated current :		8.6 A Moment of inertia (J)		: 0.3441 kgm²			
LRC : 7.		.7	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque : 16		6.3 kgfm	Insulation	Insulation class		: F	
Locked rotor torque : 2		70 %	Service fa	Service factor		: 1.15	
Breakdown torque		00 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 17	780 rpm	Design		: B		
Rev.		Changes Summary	/	Performed	Checked	Date	
Performed by							
Checked by					Page	Revision	
Date	15/01/2024	1			3/3		