DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W21 Explosion Proof NEMA Premium Product code: 14371273 Efficiency Three-Phase : 182/4T Locked rotor time Frame : 50s (cold) 28s (hot) Output : 3 HP (2.2 kW) Temperature rise : 80 K Poles : 4 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 : 3.21 A Protection degree : IP55 : IC411 - TEFC L. R. Amperes : 25.7 A Cooling method **LRC** : 8.0x(Code K) Mounting : F-1 : Both (CW and CCW) No load current : 1.68 A Rotation¹ Rated speed : 1760 rpm Noise level² : 56.0 dB(A) Slip : 2.22 % Starting method : Direct On Line Rated torque : 1.24 kgfm Approx. weight³ : 53.8 kg Locked rotor torque : 250 % Breakdown torque : 320 % : F Insulation class Service factor : 1.15 Moment of inertia (J) : 0.0117 kgm² Design : B 25% 100% Output 50% 75% Foundation loads Efficiency (%) 86.2 87.3 88.5 89.5 Max. traction : 56 kgf : 110 kgf Power Factor 0.35 0.59 0.71 0.77 Max. compression 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) 11.0 8.7 8.3 6.4 4.2 3.2 2.3 Drive end Non drive end 6307 2RS Bearing type 6206 2RS Sealing Oil Seal Lip Seal Lubrication interval Lubricant amount 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. Checked Rev. **Changes Summary** Performed Date Performed by Checked by Page Revision

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15/01/2024

Date

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Customer	
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Thermal protection

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

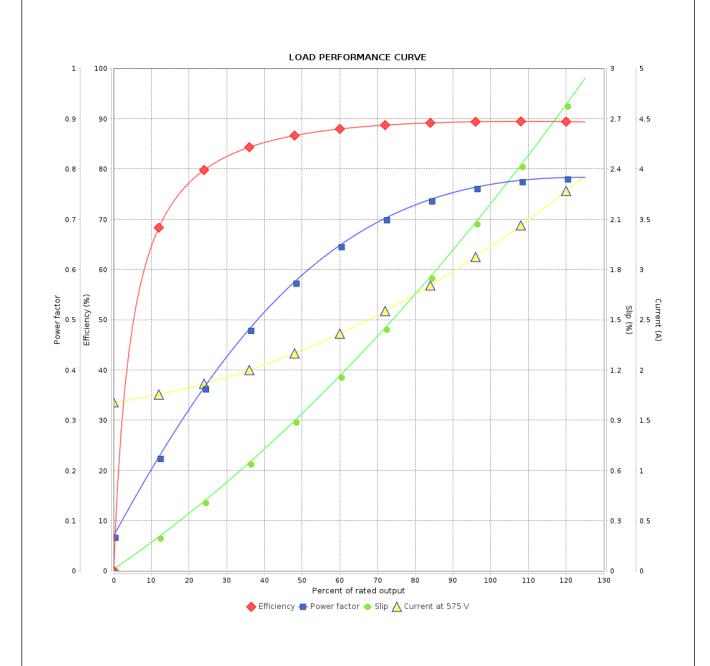


Customer

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14371273



Performance	: 5	75 V 60 Hz 4P					
Rated current	: 3	21 A Moment of inertia (J)		: 0.0117 kgm²			
LRC :		5.0	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque		.24 kgfm	Insulation class		: F		
Locked rotor torq	jue : 2	50 %	Service fa	Service factor		: 1.15	
Breakdown torqu	ie : 3	20 %	% Temperature rise		: 80 K		
Rated speed	: 1	: 1760 rpm		Design			
Rev.		Changes Summa	ry	Performed	Checked	Date	
Performed by							
Checked by					Page	Revision	
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