DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W21 Explosion Proof NEMA Premium Product code: 14309726 Efficiency Three-Phase : 213/5T Locked rotor time Frame : 102s (cold) 57s (hot) Output : 5 HP (3.7 kW) Temperature rise : 80 K Poles : 6 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 : 5.46 A Protection degree : IP55 : IC411 - TEFC L. R. Amperes : 37.2 A Cooling method **LRC** : 6.8x(Code J) Mounting : F-1 : Both (CW and CCW) No load current : 2.76 A Rotation¹ Rated speed : 1170 rpm Noise level² : 55.0 dB(A) Slip : 2.50 % Starting method : Direct On Line Rated torque : 3.10 kgfm Approx. weight³ : 93.4 kg Locked rotor torque : 170 % Breakdown torque : 260 % : F Insulation class Service factor : 1.15 Moment of inertia (J) : 0.0620 kgm² Design : B 25% 50% 100% Output 75% Foundation loads Efficiency (%) 88.2 88.5 89.5 89.5 Max. traction : 102 kgf Power Factor 0.34 0.58 0.70 0.76 Max. compression : 196 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) 11.1 9.1 8.8 5.8 4.0 2.9 2.1 Drive end Non drive end 6308 2RS Bearing type 6207 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

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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

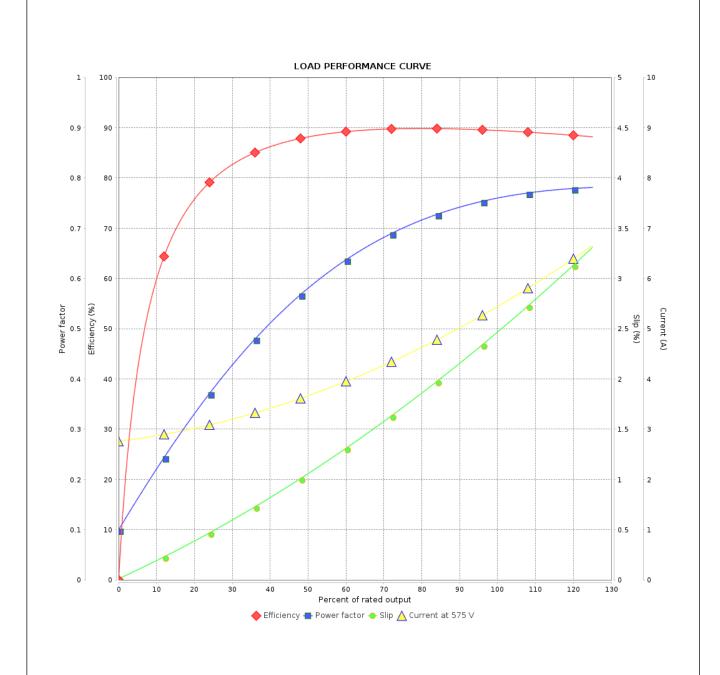


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14309726



Performance :		: 575 V 60 Hz 6P					
Rated current		6 A Moment of inertia (J)		: 0.0620 kgm²			
LRC : 6		.8	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque :		.10 kgfm	Insulation class		: F		
Locked rotor torque		70 %	Service fa	Service factor		: 1.15	
Breakdown torque	: 2	60 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 1	170 rpm	Design		: B		
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