DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W21 Explosion Proof NEMA Product code: 14345291 Premium Efficiency Three-Phase : 213/5T Locked rotor time Frame : 52s (cold) 29s (hot) Output : 10 HP (7.5 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : 2 : -20°C to +40°C Frequency : 60 Hz Ambient temperature : 1000 m.a.s.l. Rated voltage : 575 V Altitude Protection degree Rated current : 9.38 A : IP55 : IC411 - TEFC L. R. Amperes : 64.7 A Cooling method LRC : 6.9x(Code H) Mounting : F-1 : Both (CW and CCW) No load current : 2.88 A Rotation¹ Rated speed : 3525 rpm Noise level² : 72.0 dB(A) : Direct On Line Slip : 2.08 % Starting method Rated torque : 2.06 kgfm Approx. weight³ : 89.4 kg Locked rotor torque : 210 % Breakdown torque : 280 % : F Insulation class Service factor : 1.15 Moment of inertia (J) : 0.0232 kgm² Design : B 25% 50% 75% 100% Output Foundation loads Efficiency (%) 88.2 88.5 90.2 90.2 Max. traction : 61 kgf : 151 kgf Power Factor 0.54 0.79 0.86 0.89 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) P5 (0,5;0,5) P1 (0,9;1,0) P6 (0,5;0,25) P7 (0,25;0,25) 10.1 7.5 7.0 3.0 2.0 1.1 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. Changes Summary

Nev.		Changes Summary	Fellolliled	Checked	Date
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Checked by				Page	Revision
Date	28/10/2024			1/3	
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Customer	
Customer	

Thermal protection

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

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LOAD PERFORMANCE CURVE

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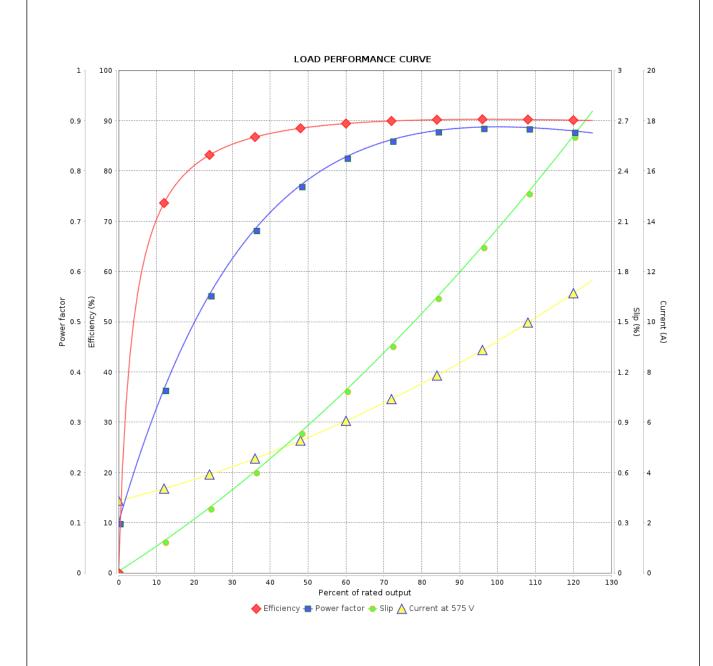


Customer :

Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

Product code: 14345291



Performance	: 575 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 9.38 A : 6.9 : 2.06 kgfm : 210 % : 280 % : 3525 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0232 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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28/10/2024

Date