#### **DATA SHEET**

Checked by

Date

28/10/2024

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W21 Explosion Proof NEMA Product code: 14380395 Premium Efficiency Three-Phase : 213/5TC Locked rotor time Frame : 52s (cold) 29s (hot) Output : 10 HP (7.5 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : 2 Frequency : 60 Hz Ambient temperature : -20°C to +40°C : 1000 m.a.s.l. Rated voltage : 575 V Altitude Rated current : 9.38 A Protection degree : IP55 : IC411 - TEFC L. R. Amperes : 64.7 A Cooling method LRC : 6.9x(Code H) Mounting : F-1 No load current : 2.88 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 3525 rpm Noise level<sup>2</sup> : 72.0 dB(A) Slip : 2.08 % Starting method : Direct On Line Rated torque : 2.06 kgfm Approx. weight<sup>3</sup> : 93.4 kg Locked rotor torque : 210 % Breakdown torque : 280 % : F Insulation class Service factor : 1.15 Moment of inertia (J) : 0.0232 kgm<sup>2</sup> Design : B 25% 50% 100% Output 75% Foundation loads Efficiency (%) 88.2 88.5 90.2 90.2 Max. traction : 59 kgf : 153 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) P1 (0,9;1,0) P5 (0,5;0,5) 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 Oil Seal Sealing 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

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Revision

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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

## Three Phase Induction Motor - Squirrel Cage

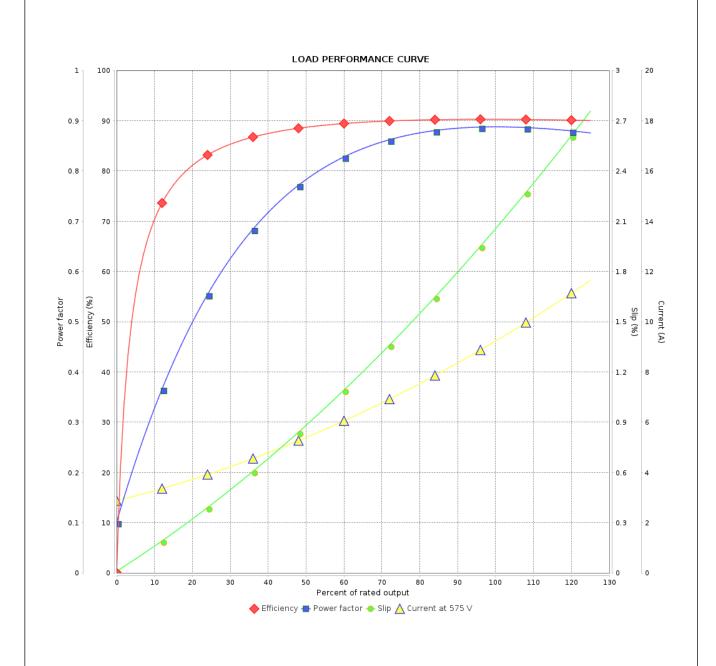


Customer :

Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

Product code: 14380395



Performance : 575 V 60 Hz 2P			
Rated current : 9.38 A	n class actor	: 0.0232 kgm : Cont.(S1) : F : 1.15 : 80 K : B	2
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