### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W21 Explosion Proof NEMA Product code: 12903851 Premium Efficiency Three-Phase : 364/5T Locked rotor time Frame : 25s (cold) 14s (hot) Output : 30 HP (22 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature : 1000 m.a.s.l. Rated voltage : 575 V Altitude Rated current : 30.8 A Protection degree : IP55 : IC411 - TEFC L. R. Amperes : 176 A Cooling method **LRC** : 5.7x(Code G) Mounting : F-1 : Both (CW and CCW) No load current : 14.0 A Rotation<sup>1</sup> Rated speed : 885 rpm Noise level<sup>2</sup> : 62.0 dB(A) Slip : 1.67 % Starting method : Direct On Line Rated torque : 24.6 kgfm Approx. weight<sup>3</sup> : 419 kg Locked rotor torque : 210 % Breakdown torque : 220 % : F Insulation class Service factor : 1.15 Moment of inertia (J) : 0.9884 kgm<sup>2</sup> Design : B 50% 75% Output 100% Foundation loads Efficiency (%) 92.4 93.0 93.0 Max. traction : 399 kgf Max. compression Power Factor 0.64 0.73 0.77 : 818 kgf Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) P2 (0,5;1,0) P3 (0,25;1,0) P4 (0,9;0,5) P5 (0,5;0,5) P6 (0,5;0,25) P7 (0,25;0,25) 7.2 5.8 5.5 3.7 2.5 1.8 1.2 Drive end Non drive end Bearing type 6314 C3 6314 C3 Sealing Oil Seal Lip Seal Lubrication interval 17353 h 17353 h Lubricant amount 27 g 27 g 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. Rev. **Changes Summary** Performed Checked Date

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Date	30/10/2024			1/3	
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#### 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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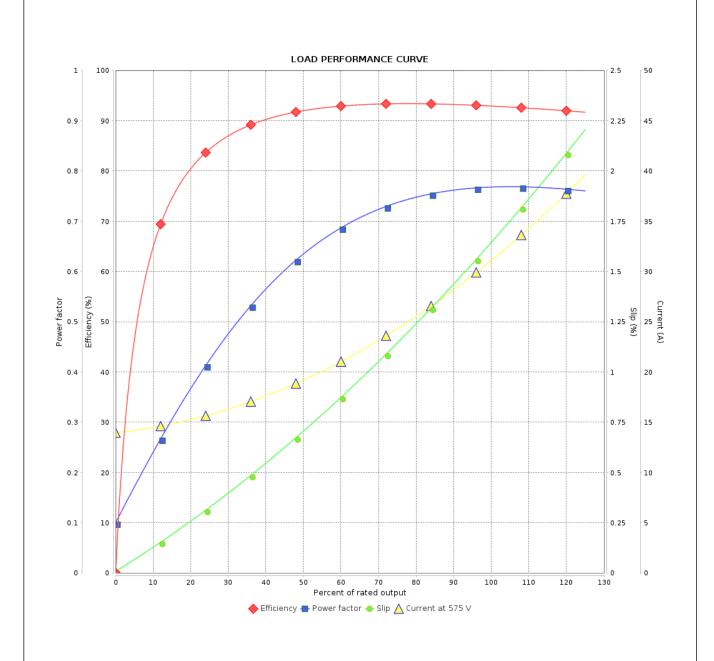


Customer :

Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

Product code: 12903851



Performance	:	575 V 60 Hz 8P					
Rated current	::	30.8 A	Moment o	f inertia (J)	: 0.9884 kgm <sup>2</sup>	2	
LRC :		5.7	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque		24.6 kgfm	Insulation	Insulation class		:F	
Locked rotor torq	tor torque : 210 % Service factor		ctor	: 1.15			
Breakdown torque	e : 2	220 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 8	385 rpm	Design		: B		
Rev.		Changes Summar	у	Performed	Checked	Date	
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