DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W21 Explosion Proof NEMA Premium Product code: 12903851 Efficiency Three-Phase : 364/5T Locked rotor time Frame : 25s (cold) 14s (hot) Output : 30 HP (22 kW) Temperature rise : 80 K Poles : 8 Duty cycle : Cont.(S1) Frequency : 60 Hz Ambient temperature : -20°C to +40°C : 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 Mounting **LRC** : 5.7x(Code G) : F-1 : Both (CW and CCW) No load current : 14.0 A Rotation¹ Rated speed : 885 rpm Noise level² : 62.0 dB(A) Slip : 1.67 % Starting method : Direct On Line Rated torque : 24.6 kgfm Approx. weight³ : 419 kg Locked rotor torque : 210 % Breakdown torque : 220 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.9884 kgm² Design : B 75% Output 50% 100% Foundation loads Efficiency (%) 92.4 93.0 93.0 Max. traction : 399 kgf Power Factor 0.64 0.73 0.77 Max. compression : 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) P4 (0,9;0,5) P3 (0,25;1,0) 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. Performed Checked Rev. **Changes Summary** Date Performed by Checked by Page Revision

1/3

22/10/2023

Date

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Customer	
Customer	

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

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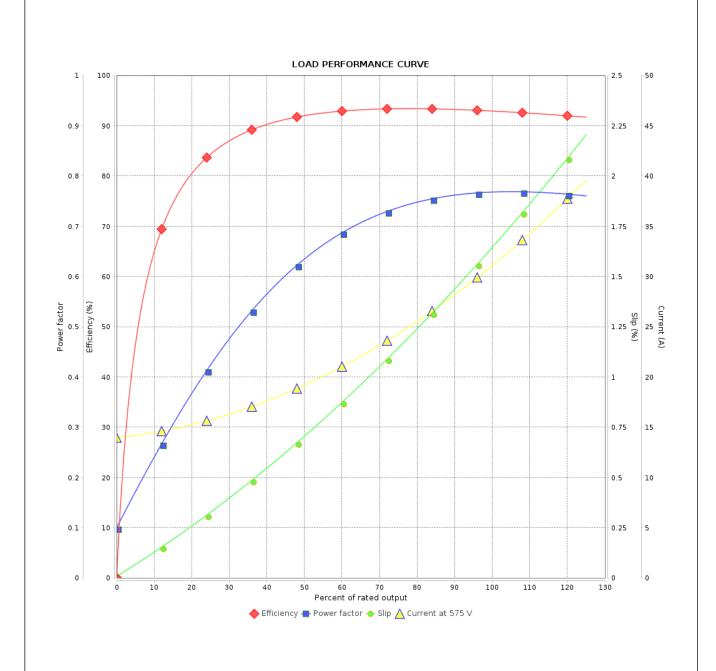


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 12903851



Performance		: 575 V 60 Hz 8P					
Rated current LRC Rated torque Locked rotor torque		: 30.8 A : 5.7 : 24.6 kgfm : 210 %	Duty cycle Insulation	Moment of inertia (J) Duty cycle Insulation class Service factor		: 0.9884 kgm² : Cont.(S1) : F : 1.15	
Breakdown torque Rated speed		: 220 % : 885 rpm		Temperature rise			
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Rev.		Changes Summary	Pe	erformed	Checked	Date
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