DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W21 Explosion Proof NEMA Premium Product code: 14407172 Efficiency Three-Phase : 286T Locked rotor time Frame : 30s (cold) 17s (hot) Output : 30 HP (22 kW) Temperature rise : 105 K Poles : 4 Duty cycle : Cont.(S1) Frequency : 60 Hz Ambient temperature : -20°C to +40°C Rated voltage : 575 V Altitude : 1000 m.a.s.l. Protection degree Rated current : 28.1 A : IP55 Cooling method : IC411 - TEFC L. R. Amperes : 171 A **LRC** : 6.1x(Code G) Mounting : F-1 : Both (CW and CCW) No load current : 9.84 A Rotation¹ Rated speed : 1770 rpm Noise level² : 68.0 dB(A) : Direct On Line Slip : 1.67 % Starting method Rated torque : 12.3 kgfm Approx. weight³ : 224 kg Locked rotor torque : 240 % Breakdown torque : 240 % : F Insulation class Service factor : 1.15 Moment of inertia (J) : 0.2175 kgm² Design 25% 50% 100% Output 75% Foundation loads : 310 kgf Efficiency (%) 92.3 93.0 93.0 93.6 Max. traction Power Factor : 534 kgf 0.46 0.70 0.80 0.84 Max. compression Drive end Non drive end Bearing type 6311 C3 6211 C3 Oil Seal Lip Seal Sealing Lubrication interval 20000 h 20000 h Lubricant amount 18 g 11 g Lubricant type Mobil Polyrex EM

Notes:

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (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.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

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Customer	
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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

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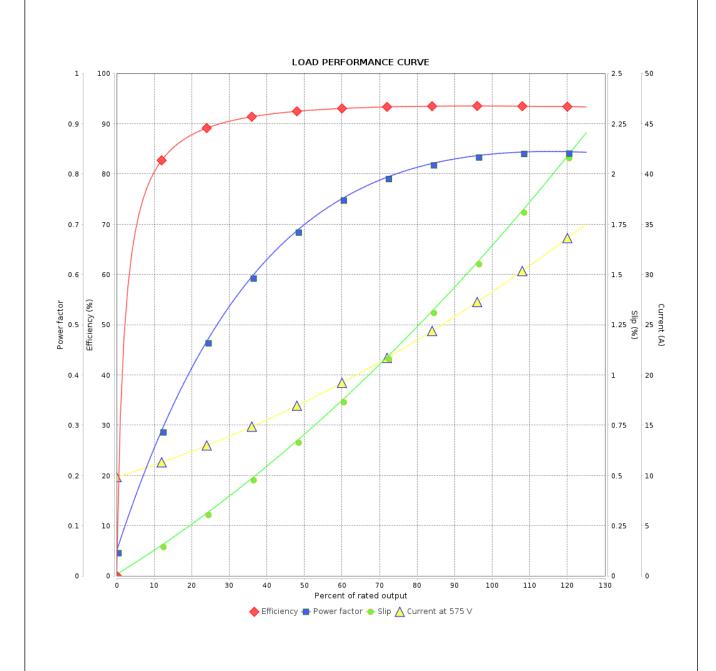


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14407172



Performance	: 575 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 28.1 A : 6.1 : 12.3 kgfm : 240 % : 240 % : 1770 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2175 kgm² : Cont.(S1) : F : 1.15 : 105 K : B	
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Date