DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W21 Explosion Proof NEMA Product code: 14407389 Premium Efficiency Three-Phase : 286T Locked rotor time Frame : 39s (cold) 22s (hot) Output : 20 HP (15 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : 6 : -20°C to +40°C Frequency : 60 Hz Ambient temperature : 230/460 V : 1000 m.a.s.l. Rated voltage Altitude Rated current : 48.4/24.2 A Protection degree : IP55 : 348/174 A : IC411 - TEFC L. R. Amperes Cooling method **LRC** : 7.2x(Code H) Mounting : F-1 : Both (CW and CCW) No load current : 18.0/9.00 A Rotation¹ Rated speed : 1175 rpm Noise level² : 59.0 dB(A) Slip : 2.08 % Starting method : Direct On Line Rated torque : 12.4 kgfm Approx. weight³ : 225 kg Locked rotor torque : 250 % Breakdown torque : 260 % : F Insulation class Service factor : 1.15 Moment of inertia (J) : 0.3381 kgm² Design : B 25% 50% 75% 100% Output Foundation loads Efficiency (%) 91.5 91.7 91.7 91.7 Max. traction : 420 kgf : 645 kgf Power Factor 0.45 0.70 0.80 0.85 Max. compression Drive end Non drive end Bearing type 6311 C3 6211 C3 Oil Seal Lip Seal Sealing 20000 h Lubrication interval 20000 h Lubricant amount 18 g 11 g Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 53.5A SF 1.15 SFA 61.5A

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	

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

Three Phase Induction Motor - Squirrel Cage

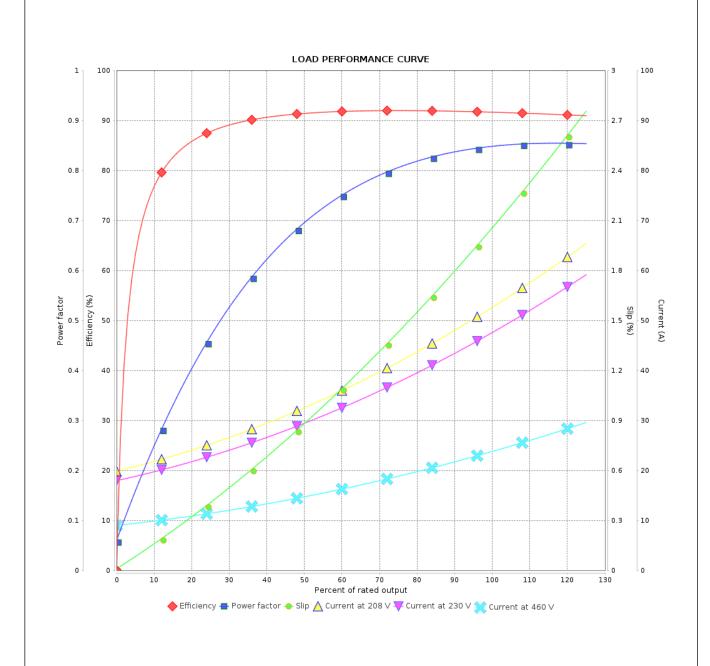


Customer :

Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

Product code: 14407389



Performance	: 230/460 V 60 Hz 6P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 48.4/24.2 A : 7.2 : 12.4 kgfm : 250 % : 260 % : 1175 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.3381 kgm² : Cont.(S1) : F : 1.15 : 80 K : B		
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Date