### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W21 Explosion Proof NEMA Premium Product code: 14077145 Efficiency Three-Phase : 444/5TS Locked rotor time Frame : 55s (cold) 31s (hot) Output : 150 HP (110 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) Frequency : 60 Hz Ambient temperature : -20°C to +40°C : 1000 m.a.s.l. Rated voltage : 575 V Altitude Protection degree Rated current : 129 A : IP55 Cooling method : IC411 - TEFC L. R. Amperes : 903 A **LRC** : 7.0x(Code G) Mounting : F-1 Rotation<sup>1</sup> : Both (CW and CCW) No load current : 31.2 A Rated speed : 3570 rpm Noise level<sup>2</sup> : 86.0 dB(A) Slip : 0.83 % Starting method : Direct On Line Rated torque : 30.5 kgfm Approx. weight<sup>3</sup> : 989 kg Locked rotor torque : 200 % Breakdown torque : 250 % : F Insulation class Service factor : 1.15 Moment of inertia (J) : 1.65 kgm<sup>2</sup> Design : B 50% 75% Output 100% Foundation loads Efficiency (%) 93.6 95.0 95.4 Max. traction : 172 kgf : 1161 kgf Power Factor 0.85 0.89 0.90 Max. compression Drive end Non drive end Bearing type 6314 C3 6314 C3 Lip Seal Oil Seal Sealing Lubrication interval 3604 h 3604 h Lubricant amount 27 g 27 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	
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

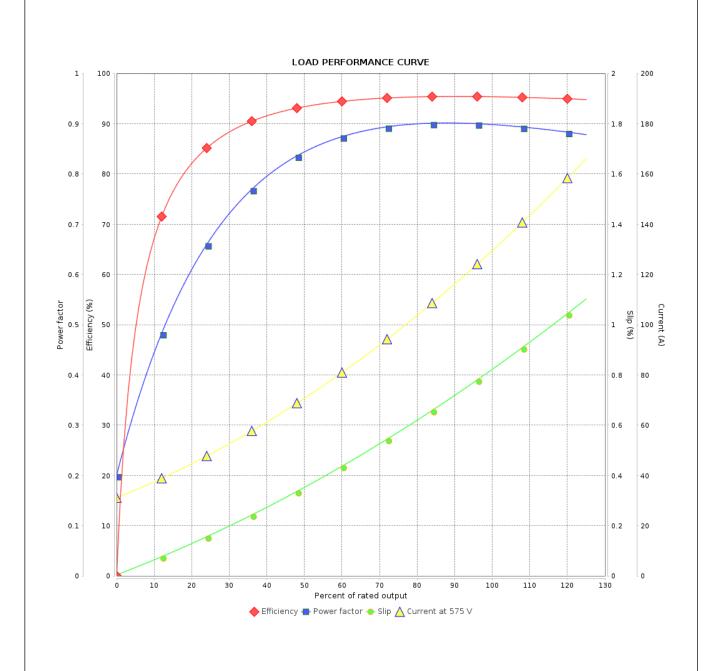


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14077145



Performance		: 575 V 60 Hz 2P				
Rated current		: 129 A	Moment of inertia (J)		: 1.65 kgm²	
LRC		: 7.0	Duty cycle		: Cont.(S1)	
Rated torque		: 30.5 kgfm	Insulation class		: F	
Locked rotor torque		: 200 %	Service factor		: 1.15	
Breakdown torque		: 250 %	Temperature rise		: 80 K	
Rated speed		: 3570 rpm	Design		: B	
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