# **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :						
Product line				Proof NEMA		14407412
Output Poles Frequency Rated voltage Rated current L. R. Amperes LRC No load current Rated speed Slip Rated torque Locked rotor torque Breakdown torque Insulation class Service factor Moment of inertia (J)		: 40 H : 4 : 60 H : 575 : 38.6 : 297 : 7.7x : 18.4 : 1780 : 1.11 : 16.4 : 270 : 300 : F : 1.15	: 60 Hz : 575 V : 38.6 A : 297 A : 7.7x(Code J) : 18.4 A : 1780 rpm : 1.11 % : 16.4 kgfm : 270 % : 300 % : F : 1.15 : 0.3441 kgm²		Locked rotor time Temperature rise Duty cycle Ambient temperature Altitude Protection degree Cooling method Mounting Rotation¹ Noise level² Starting method Approx. weight³	: 34s (cold) 19s (hot) : 80 K : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : IC411 - TEFC : F-1 : Both (CW and CCW) : 71.0 dB(A) : Direct On Line : 293 kg
Output Efficiency (%)	25% 92.8	50% 93.0	75% 94.1	94.1	Foundation loads Max. traction	: 469 kgf
Power Factor	0.39	0.66	0.77	0.83	Max. compression  Non drive end	: 763 kgf
Bearing type Sealing Lubrication interval Lubricant amount Lubricant type		: : : :	Drive end 6312 C3 Oil Seal 20000 h 21 g Mob		6212 C3 Lip Seal 20000 h 13 g bil 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	

#### 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

#### Three Phase Induction Motor - Squirrel Cage

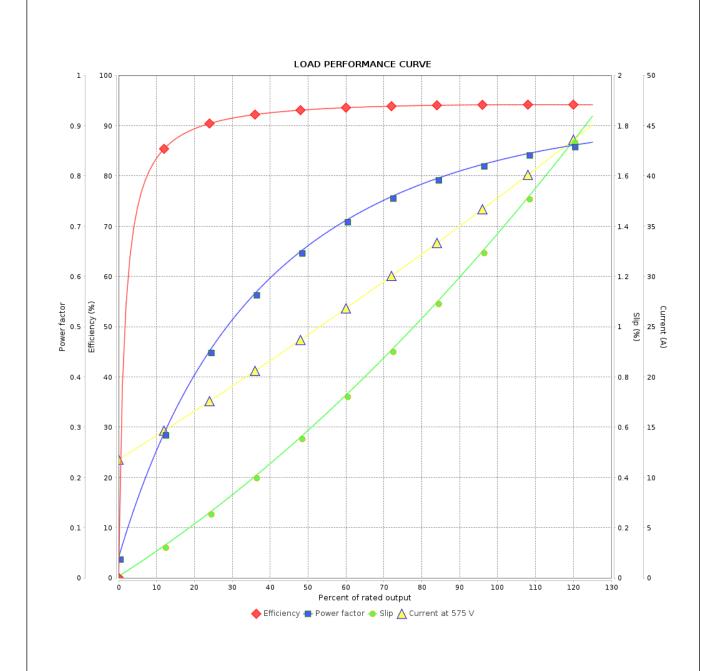


Customer :

Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

Product code: 14407412



Performance : 575 V 60 Hz 4P Rated current : 38.6 A Moment of inertia (J) : 0.3441 kgm<sup>2</sup> **LRC** : 7.7 Duty cycle : Cont.(S1) : F Rated torque : 16.4 kgfm Insulation class Locked rotor torque : 270 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B

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