## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer	:				
Product line		: W21 Explosion Proof NEMA Premium Efficiency Three-Ph			16123612
Frame 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) Design		: 284TC : 10 HP (7.5 kW) : 8 : 60 Hz : 575 V : 10.7 A : 64.3 A : 6.0x(Code H) : 4.80 A : 884 rpm : 1.78 % : 8.21 kgfm : 250 % : 240 % : F : 1.15 : 0.3034 kgm² : B		Locked rotor time Temperature rise Duty cycle Ambient temperature Altitude Protection degree Cooling method Mounting Rotation¹ Noise level² Starting method Approx. weight³	: 54s (cold) 30s (hot) : 80 K : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : IC411 - TEFC : F-1 : Both (CW and CCW) : 54.0 dB(A) : Direct On Line : 212 kg
Output 50 Efficiency (%) 91 Power Factor 0.6	1.0	75% 91.7 0.72	91.0 0.77	Foundation loads  Max. traction  Max. compression	: 176 kgf : 388 kgf
Bearing type : Sealing : Lubrication interval : Lubricant amount : Lubricant type :  Notes		<u> </u>  -  -  -  -	Drive end 6311 C3 Oil Seal 20000 h 18 g	Non drive end 6211 C3 Lip Seal 20000 h 11 g bil Polyrex EM	-

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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#### 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

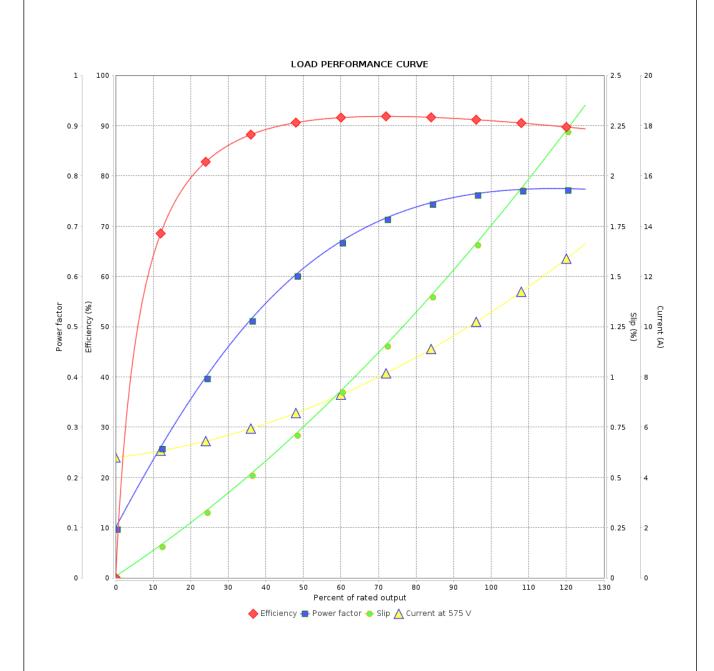


Customer :

Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

Product code: 16123612



Performance	: 575 V	60 Hz 8P				
Rated current	: 10.7 A	1	Moment of	of inertia (J)	: 0.3034 kgm²	
LRC	: 6.0		Duty cycle	e	: Cont.(S1)	
Rated torque	: 8.21 k	gfm	Insulation class		: F	
Locked rotor tord	jue : 250 %	1	Service factor		: 1.15	
Breakdown torqu	ie : 240 %	1	Temperature rise		: 80 K	
Rated speed	: 884 rp	m	Design		: B	
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