### **DATA SHEET**



Three Phase Induction Motor - Squirrel Cage Customer Product line : W21 Explosion Proof NEMA Product code: 14323484 Premium Efficiency Three-Phase : 182/4TC Frame Locked rotor time : 50s (cold) 28s (hot) Output : 3 HP (2.2 kW) Temperature rise : 80 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. : 3.17 A Protection degree : IP55 Rated current L. R. Amperes : 25.3 A Cooling method : IC411 - TEFC **LRC** : 8.0x(Code K) Mounting : F-1 No load current : 1.68 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 1760 rpm Noise level<sup>2</sup> : 56.0 dB(A) Slip : 2.22 % Starting method : Direct On Line Rated torque : 1.24 kgfm Approx. weight<sup>3</sup> : 55.2 kg Locked rotor torque : 250 % Breakdown torque : 320 % : F Insulation class Service factor : 1.15 Moment of inertia (J) : 0.0117 kgm<sup>2</sup> Design : B 75% Output 50% 100% Foundation loads : 54 kgf Efficiency (%) 87.5 88.5 89.5 Max. traction : 111 kgf Power Factor 0.59 0.71 0.78 Max. compression Losses at normative operating points (speed;torque), in percentage of rated output power P2 (0,5;1,0) P4 (0,9;0,5) P1 (0,9;1,0) P3 (0,25;1,0) P5 (0,5;0,5) P6 (0,5;0,25) P7 (0,25;0,25) 11.0 8.6 8.3 6.3 4.1 3.0 2.2 Drive end Non drive end 6307 2RS Bearing type 6206 2RS Oil Seal Sealing Lip Seal Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM Notes This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal must be eliminated. power supply, subject to the tolerances stipulated in NEMA (1) Looking the motor from the shaft end. MG-1. (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.

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# DATA SHEET

### Three Phase Induction Motor - Squirrel Cage



Customer	
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

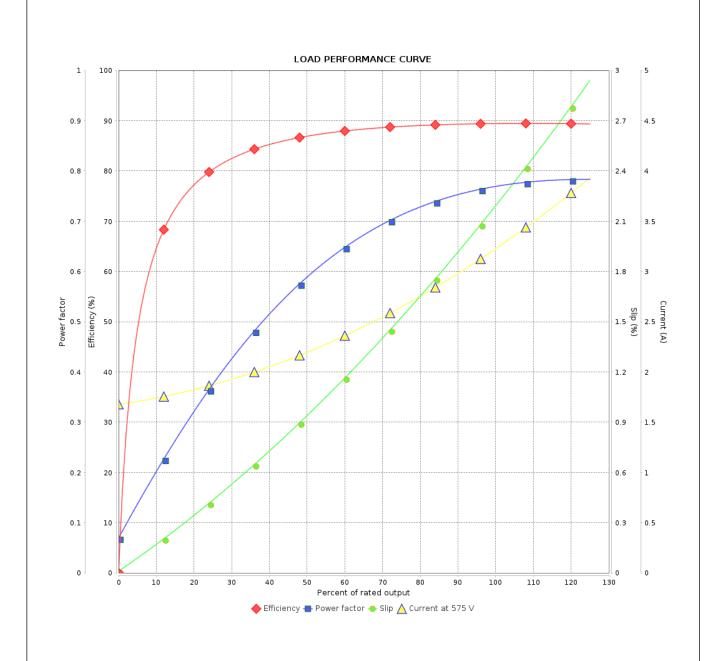


Customer :

Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

Product code: 14323484



Performance	: 5	575 V 60 Hz 4P					
Rated current		17 A Moment of inertia (J)		: 0.0117 kgm²			
LRC : 8		3.0	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque		1.24 kgfm	Insulation	Insulation class		:F	
Locked rotor torqu	ie : 2	250 %	Service fa	Service factor			
Breakdown torque	: : 3	320 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 1	1760 rpm	Design		: B		
Rev.		Changes Summa	ry	Performed	Checked	Date	
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