### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W21 Explosion Proof NEMA Premium Product code: 14454519 Efficiency Three-Phase : 284TS Locked rotor time Frame : 59s (cold) 33s (hot) Output : 25 HP (18.5 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : 2 Frequency : 60 Hz Ambient temperature : -20°C to +40°C Rated voltage : 575 V Altitude : 1000 m.a.s.l. Rated current : 22.8 A Protection degree : IP55 L. R. Amperes : 153 A Cooling method : IC411 - TEFC **LRC** : 6.7x(Code G) Mounting : F-1 : Both (CW and CCW) No load current : 5.04 A Rotation<sup>1</sup> Rated speed : 3545 rpm Noise level<sup>2</sup> : 75.0 dB(A) Slip : 1.53 % Starting method : Direct On Line Rated torque : 5.12 kgfm Approx. weight<sup>3</sup> : 212 kg Locked rotor torque : 240 % Breakdown torque : 240 % : F Insulation class Service factor : 1.15 Moment of inertia (J) : 0.1086 kgm<sup>2</sup> Design : B 75% Output 50% 100% Foundation loads Efficiency (%) 91.7 92.4 92.4 Max. traction : 70 kgf Power Factor 0.78 0.85 0.88 Max. compression : 281 kgf 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) 7.8 5.9 5.0 3.7 2.1 1.2 0.7 Drive end Non drive end Bearing type 6311 C3 6211 C3 Sealing Oil Seal Lip Seal Lubrication interval 11517 h 14226 h Lubricant amount 18 g 11 g 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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## Three Phase Induction Motor - Squirrel Cage



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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

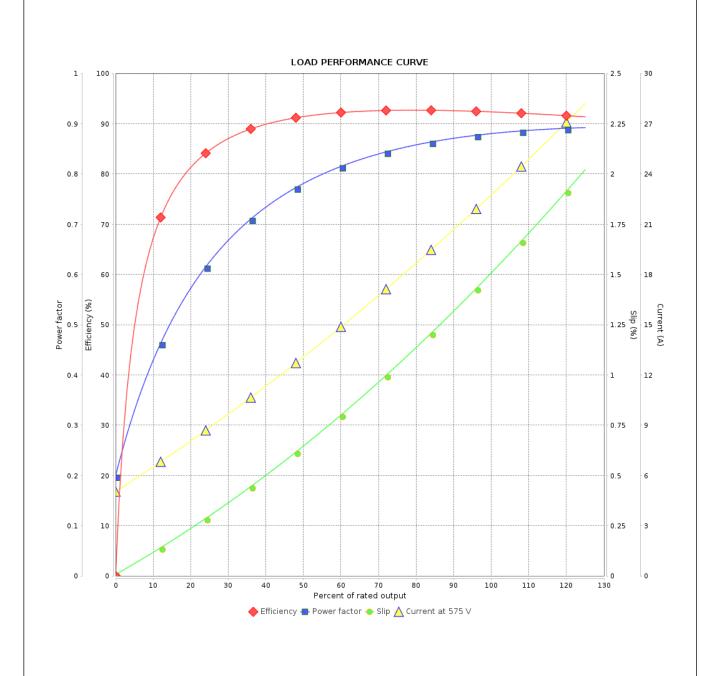


Customer

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14454519



Performance	:	575 V 60 Hz 2P					
Rated current		22.8 A	2.8 A Moment of inertia (J)		: 0.1086 kgm²		
LRC : 6		6.7	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque		5.12 kgfm	Insulation class		: F		
Locked rotor torque		240 %	Service fa	Service factor		: 1.15	
Breakdown torque	:	240 %	Temperati	Temperature rise		: 80 K	
Rated speed	:	3545 rpm	Design		: B		
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