DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 14188920 Locked rotor time Frame : 254/6TD : 54s (cold) 30s (hot) Output : 20 HP (15 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 Rated current : 19.3 A Protection degree : IP55 : IC411 - TEFC L. R. Amperes : 133 A Cooling method **LRC** : 6.9x(Code H) Mounting : F-1 : Both (CW and CCW) No load current : 7.68 A Rotation¹ Rated speed : 1770 rpm Noise level² : 64.0 dB(A) Slip : 1.67 % Starting method : Direct On Line Rated torque : 8.20 kgfm Approx. weight³ : 158 kg Locked rotor torque : 240 % Breakdown torque : 260 % : F Insulation class Service factor : 1.25 Moment of inertia (J) : 0.1305 kgm² Design : B 50% 75% Output 100% Foundation loads Efficiency (%) 91.7 92.4 93.0 Max. traction : 256 kgf : 414 kgf Power Factor 0.68 0.79 0.84 Max. compression Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) P2 (0,5;1,0) P3 (0,25;1,0) P4 (0,9;0,5) P5 (0,5;0,5) P6 (0,5;0,25) P7 (0,25;0,25) 7.5 6.4 3.6 2.5 1.6 1.1 Drive end Non drive end 6309 C3 Bearing type 6209 C3 Sealing V'Ring V'Ring 20000 h 20000 h Lubrication interval Lubricant amount 13 g 9 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

(4) At 100 /0 01 10	ili load.					
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LOAD PERFORMANCE CURVE

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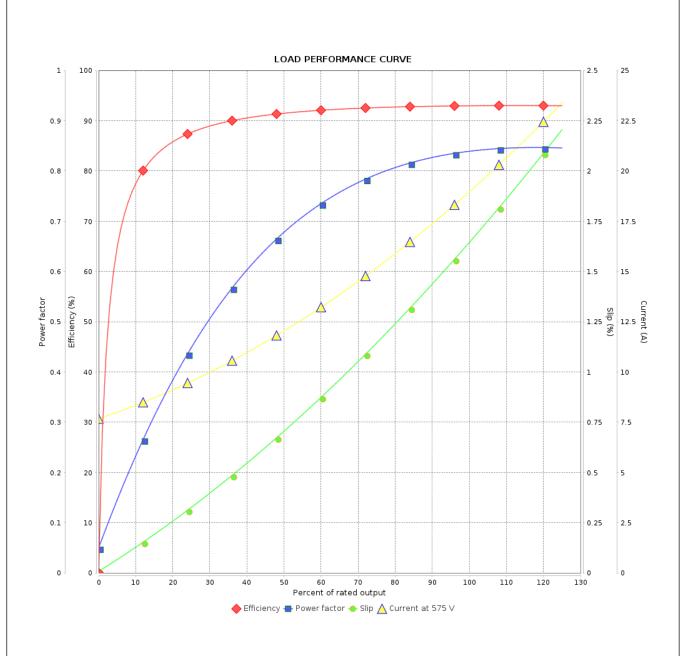
Customer :

Product line : W22 NEMA Premium Efficiency Three-

Product code:

14188920

Phase



Performance	: 5	75 V 60 Hz 4P					
Rated current	: 1	9.3 A	Moment of	Moment of inertia (J)		: 0.1305 kgm²	
LRC	: 6	.9 Duty cycle		: Cont.(S1)			
Rated torque	: 8	.20 kgfm Insulation class		:F			
Locked rotor torg	jue : 24	40 %	Service factor		: 1.25		
Breakdown torqu	ie : 2	60 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 1	: 1770 rpm D			: B		
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