## **DATA SHEET**

Performed by

## Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 12717664 Locked rotor time Frame : 143/5T : 37s (cold) 21s (hot) Output : 1.5 HP (1.1 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 : 1.57 A Protection degree : IP55 : IC411 - TEFC Cooling method L. R. Amperes : 14.0 A **LRC** : 8.9x(Code L) Mounting : F-1 : Both (CW and CCW) No load current : 0.664 A Rotation<sup>1</sup> Rated speed : 3480 rpm Noise level<sup>2</sup> : 68.0 dB(A) Slip : 3.33 % Starting method : Direct On Line Rated torque : 0.313 kgfm Approx. weight<sup>3</sup> : 19.9 kg Locked rotor torque : 310 % Breakdown torque : 370 % : F Insulation class Service factor : 1.25 Moment of inertia (J) : 0.0020 kgm<sup>2</sup> Design : B 50% 75% 100% Output Foundation loads Efficiency (%) 81.5 84.0 84.0 Max. traction : 23 kgf Max. compression Power Factor 0.68 0.78 0.84 : 43 kgf Losses at normative operating points (speed;torque), in percentage of rated output power P2 (0,5;1,0) P3 (0,25;1,0) P4 (0,9;0,5) P1 (0,9;1,0) P5 (0,5;0,5) P6 (0,5;0,25) P7 (0,25;0,25) 17.7 13.3 12.1 9.8 5.6 3.8 2.4 Drive end Non drive end Bearing type 6205 ZZ 6204 ZZ Sealing V'Ring V'Ring 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. Checked Rev. **Changes Summary** Performed Date

Checked by			Page	Revision			
Date	31/01/2024		1/2				
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## LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-

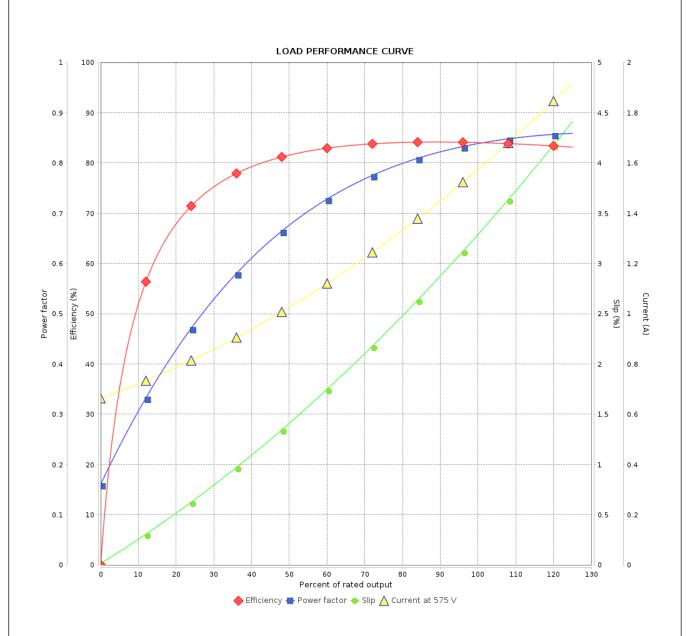
Product code:

12717664



31/01/2024

Date



Performance	: 575 V 60 Hz 2P						
Rated current	: 1.57 A	Moment of inertia (J)		: 0.0020 kgm²			
LRC	: 8.9	Duty cycle		: Cont.(S1)			
Rated torque	: 0.313 kgfm	Insulation class Service factor Temperature rise		: F : 1.25 : 80 K : B			
Locked rotor torque	: 310 %						
Breakdown torque	: 370 %						
Rated speed	: 3480 rpm Design						
Rev.	Changes Summary		Performed	Checked	Date		
Performed by							
Checked by				Page	Revision		

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