## **DATA SHEET**

## Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11942999 Efficiency Three-Phase : 284/6T Locked rotor time Frame : 36s (cold) 20s (hot) Output : 30 HP (22 kW) Temperature rise : 80 K Poles : 4 Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature : 1000 m.a.s.l. Rated voltage : 575 V Altitude Protection degree Rated current : 28.1 A : IP55 Cooling method : IC411 - TEFC L. R. Amperes : 171 A LRC : 6.1x(Code G) Mounting : F-1 : Both (CW and CCW) No load current : 9.84 A Rotation<sup>1</sup> Rated speed : 1770 rpm Noise level<sup>2</sup> : 63.0 dB(A) : Direct On Line Slip : 1.67 % Starting method Rated torque : 12.3 kgfm Approx. weight<sup>3</sup> : 206 kg Locked rotor torque : 240 % Breakdown torque : 240 % : F Insulation class Service factor : 1.25 Moment of inertia (J) : 0.2467 kgm<sup>2</sup> Design : B 50% 75% 100% Output Foundation loads Efficiency (%) 93.0 93.0 93.6 Max. traction : 319 kgf Power Factor 0.70 0.80 0.84 Max. compression : 525 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) 6.8 5.8 3.1 2.2 1.4 0.9 5.2 Drive end Non drive end Bearing type 6311 C3 6211 C3 Sealing Taconite Labyrinth Taconite Labyrinth 20000 h 20000 h Lubrication interval 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. Rev. **Changes Summary** Performed Checked Date Р

Performed by							
Checked by				Page	Revision		
Date	22/10/2024			1/2			
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## LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

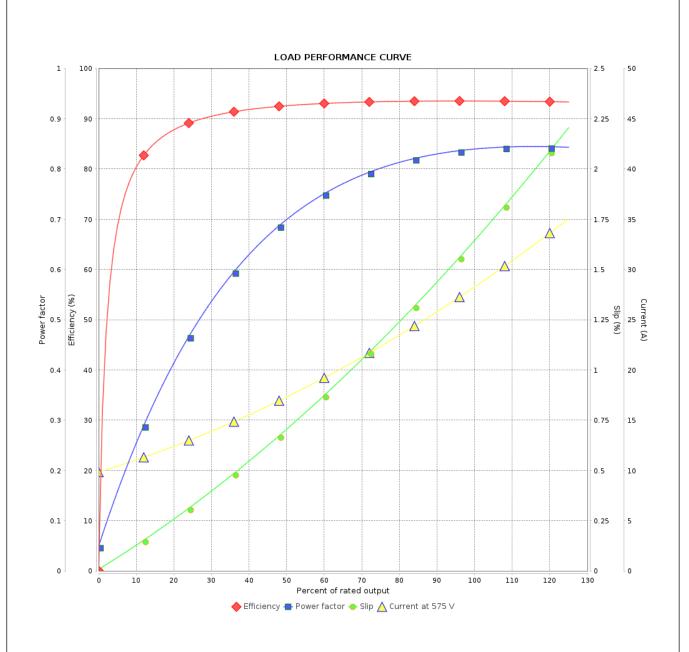


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11942999



Performance	: 575 V 60 Hz 4P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 28.1 A : 6.1 : 12.3 kgfm : 240 % : 240 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 0.2467 kgm² : Cont.(S1) : F : 1.25 : 80 K			
Rated speed  Rev.	: 1770 rpm  Changes Summary	Design	Performed	: B Checked	Date		
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