## **DATA SHEET**

Checked by

## Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11432631 Efficiency Three-Phase Locked rotor time Frame : 182/4T : 45s (cold) 25s (hot) Output : 5 HP (3.7 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : 2 Frequency : 60 Hz Ambient temperature : -20°C to +40°C : 1000 m.a.s.l. Rated voltage : 575 V Altitude Rated current : 4.72 A Protection degree : IP56 : IC411 - TEFC L. R. Amperes : 35.9 A Cooling method LRC : F-1 : 7.6x(Code J) Mounting No load current : 1.60 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 3485 rpm Noise level<sup>2</sup> : 66.0 dB(A) Slip : 3.19 % Starting method : Direct On Line Rated torque : 1.04 kgfm Approx. weight<sup>3</sup> : 47.3 kg Locked rotor torque : 229 % Breakdown torque : 350 % : F Insulation class Service factor : 1.25 Moment of inertia (J) : 0.0094 kgm<sup>2</sup> Design : B 50% 75% 100% Output Foundation loads Efficiency (%) 86.5 88.5 88.5 Max. traction : 52 kgf Power Factor 0.76 0.85 0.89 Max. compression : 100 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) 12.4 9.9 8.9 6.2 3.7 2.3 1.4 Drive end Non drive end Bearing type 6207 C3 6206 C3 Inpro/Seal Inpro/Seal Sealing 20000 h 20000 h Lubrication interval Lubricant amount 7 g 5 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. Performed Checked Rev. **Changes Summary** Date Performed by

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## LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

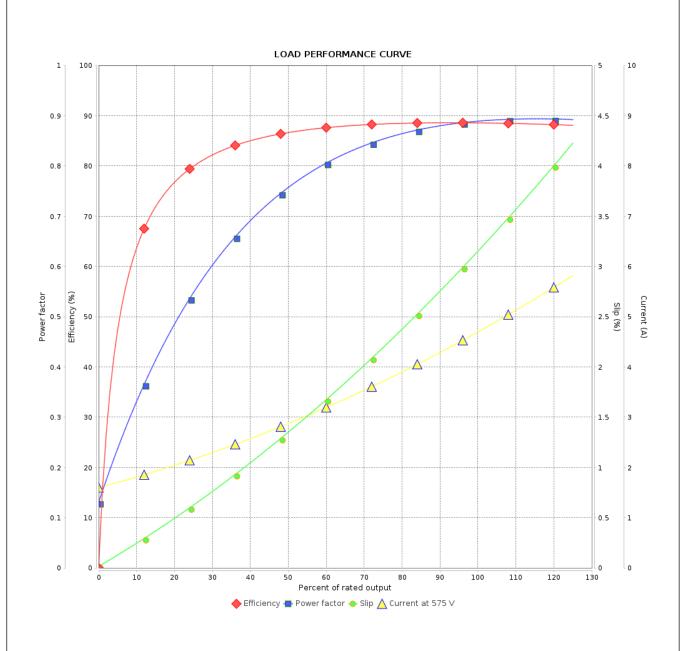


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11432631



Performance	: 5	: 575 V 60 Hz 2P					
Rated current LRC	•	: 4.72 A Moment of inertia (J) : 7.6 Duty cycle		` '	: 0.0094 kgm² : Cont.(S1)		
Rated torque Locked rotor toro Breakdown torqu	que : 2	1.04 kgfm 229 % 350 %	Service fa	Insulation class Service factor Temperature rise		: F : 1.25 : 80 K	
Rated speed		: 3485 rpm Design		: B			
Rev.	ev. Changes Summary		ary	Performed	Checked	Date	
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22/10/2024

Date

