## **DATA SHEET**

Checked by

Date

22/10/2024

## Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 13985953 Efficiency Three-Phase : 284/6TSC Locked rotor time Frame : 27s (cold) 15s (hot) Output : 30 HP (22 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 : 27.7 A Protection degree : IP56 : IC411 - TEFC L. R. Amperes : 174 A Cooling method LRC : 6.3x(Code G) Mounting : F-1 No load current : 7.92 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 3549 rpm Noise level<sup>2</sup> : 72.0 dB(A) Slip : 1.42 % Starting method : Direct On Line Rated torque : 6.13 kgfm Approx. weight<sup>3</sup> : 185 kg Locked rotor torque : 240 % Breakdown torque : 250 % : F Insulation class Service factor : 1.25 Moment of inertia (J) : 0.1419 kgm<sup>2</sup> Design : B 75% Output 50% 100% Foundation loads Efficiency (%) 91.7 91.7 91.7 Max. traction : 126 kgf Power Factor 0.77 0.85 0.87 Max. compression : 312 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) 8.5 6.7 6.4 4.2 2.5 1.6 1.0 Drive end Non drive end Bearing type 6311 C3 6211 C3 Inpro/Seal Inpro/Seal Sealing 14000 h 17000 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. Performed Checked Rev. **Changes Summary** Date Performed by

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## LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

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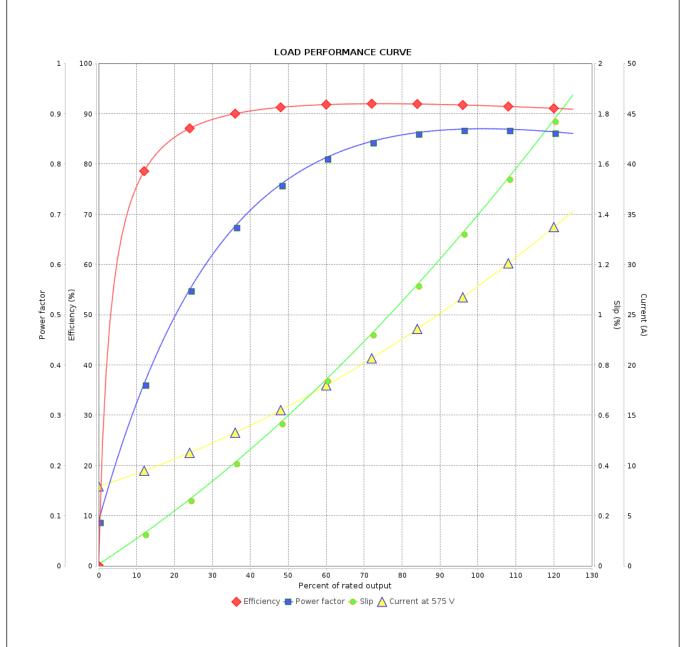
Date

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Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 13985953



Performance	: 5	75 V 60 Hz 2P					
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 6 : 6 : 1 : 2	7.7 A 5.3 5.13 kgfm 40 % 50 % 549 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1419 kgm <sup>2</sup> : Cont.(S1) : F : 1.25 : 80 K : B	: Cont.(S1) : F : 1.25 : 80 K	
Rev.	Changes Summary			Performed	Checked	Date	
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