DATA SHEET

Checked by

Date

13/01/2024

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 11944241 Three-Phase : 404/5TS Locked rotor time Frame : 25s (cold) 14s (hot) Output : 100 HP (75 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) Frequency : 60 Hz Ambient temperature : -20°C to +40°C Rated voltage : 575 V Altitude : 1000 m.a.s.l. Rated current : 89.6 A Protection degree : IP55 L. R. Amperes : 582 A Cooling method : IC411 - TEFC LRC Mounting : 6.5x(Code G) : F-1 : Both (CW and CCW) No load current : 20.8 A Rotation¹ Rated speed : 3545 rpm Noise level² : 79.0 dB(A) Slip : 1.53 % Starting method : Direct On Line Rated torque : 20.5 kgfm Approx. weight³ : 484 kg Locked rotor torque : 240 % Breakdown torque : 260 % : F Insulation class Service factor : 1.25 Moment of inertia (J) : 0.5561 kgm² Design : B 25% 100% Output 50% 75% Foundation loads Efficiency (%) 0.000 93.0 94.1 94.1 Max. traction : 282 kgf Power Factor 0.00 0.83 0.88 0.89 Max. compression : 766 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) 5.9 4.6 4.4 2.8 1.6 0.9 0.5 Drive end Non drive end Bearing type 6314 C3 6314 C3 Sealing Taconite Labyrinth Taconite Labyrinth Lubrication interval 4000 h 4000 h Lubricant amount 27 g 27 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. Checked Rev. **Changes Summary** Performed Date Performed by

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Revision

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



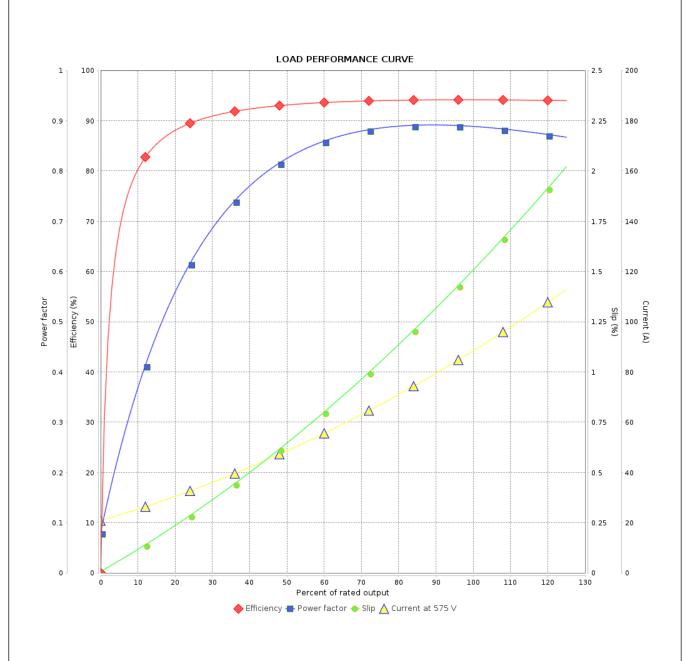
Customer

Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code:

11944241



Performance	: 5	75 V 60 Hz 2P					
Rated current	: 8	: 89.6 A		Moment of inertia (J)		: 0.5561 kgm²	
LRC	: 6	6.5 Duty cycle		е	: Cont.(S1)		
Rated torque	: 2	0.5 kgfm	Insulation class		: F		
Locked rotor torg	jue : 2	40 %	Service factor		: 1.25		
Breakdown torqu	ie : 2	60 %	Temperature rise		: 80 K		
Rated speed	: 3	: 3545 rpm		Design		: B	
Rev.	Rev. Changes Summar		y Performed		Checked	Date	
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