DATA SHEET

Checked by

Date

22/10/2024

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 12811040 Efficiency Three-Phase : 324/6T Locked rotor time Frame : 48s (cold) 27s (hot) Output : 20 HP (15 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) Frequency : 60 Hz Ambient temperature : -20°C to +40°C : 1000 m.a.s.l. Rated voltage : 575 V Altitude Rated current : 22.6 A Protection degree : IP55 : IC411 - TEFC L. R. Amperes : 113 A Cooling method LRC : 5.0x(Code G) Mounting : F-1 No load current : 12.8 A Rotation¹ : Both (CW and CCW) Rated speed : 880 rpm Noise level² : 56.0 dB(A) Slip : 2.22 % Starting method : Direct On Line Rated torque : 16.5 kgfm Approx. weight³ : 231 kg Locked rotor torque : 190 % Breakdown torque : 220 % : F Insulation class Service factor : 1.25 Moment of inertia (J) : 0.3946 kgm² Design : B 75% Output 50% 100% Foundation loads Efficiency (%) 89.5 91.0 91.0 Max. traction : 341 kgf Power Factor 0.54 0.66 0.73 Max. compression : 572 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) 9.5 8.0 7.7 5.2 3.7 2.8 2.0 Drive end Non drive end Bearing type 6312 C3 6212 C3 Taconite Labyrinth Taconite Labyrinth Sealing 20000 h Lubrication interval 20000 h Lubricant amount 21 g 13 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



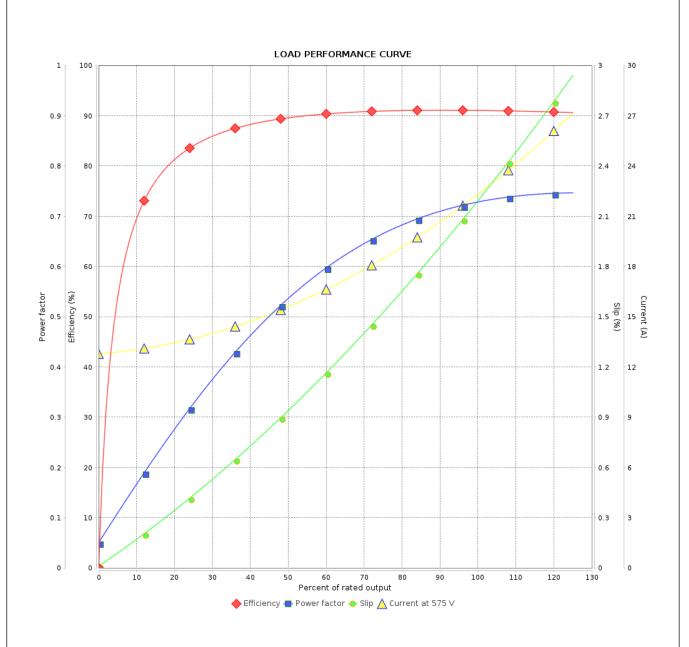
Customer :

Checked by

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 12811040



Performance	:	575 V 60 Hz 8P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		22.6 A 5.0 16.5 kgfm 190 % 220 % 880 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		
Rev.	Changes Summary			Performed	Checked	Date
Performed by						

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Revision