DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11944712 Efficiency Three-Phase : 444/5TC Locked rotor time Frame : 27s (cold) 15s (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 : 1000 m.a.s.l. Rated voltage : 575 V Altitude Rated current : 102 A Protection degree : IP55 : IC411 - TEFC L. R. Amperes : 610 A Cooling method LRC : F-1 : 6.0x(Code G) Mounting No load current : 44.8 A Rotation¹ : Both (CW and CCW) Rated speed : 890 rpm Noise level² : 63.0 dB(A) Slip : 1.11 % Starting method : Direct On Line Rated torque : 81.5 kgfm Approx. weight³ : 0.0 kg Locked rotor torque : 190 % Breakdown torque : 220 % : F Insulation class Service factor : 1.25 Moment of inertia (J) : 3.68 kgm² Design : B 50% 75% Output 100% Foundation loads Efficiency (%) 93.6 94.1 94.1 Max. traction : 1569 kgf Power Factor 0.63 0.74 0.79 Max. compression : 1569 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) 6.1 4.9 4.4 3.0 2.0 1.4 0.9 Drive end Non drive end Bearing type 6319 C3 6316 C3 Taconite Labyrinth Taconite Labyrinth Sealing 17000 h Lubrication interval 20000 h Lubricant amount 45 a 34 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 Checked by Page Revision

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23/10/2024

Date

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

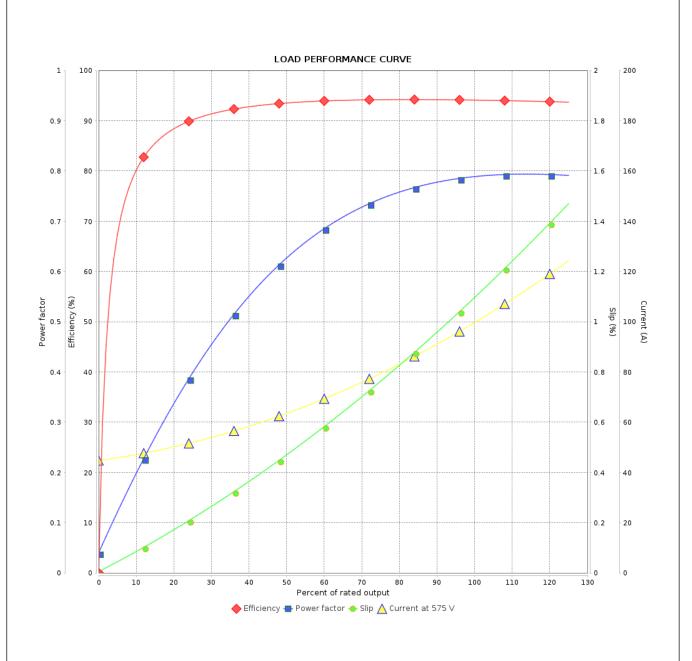


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11944712



Performance	: 575 V 60 Hz 8P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 102 A : 6.0 : 81.5 kgfm : 190 % : 220 % : 890 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 3.68 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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Checked by				Page	Revision

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Date