DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11594952 Efficiency Three-Phase : 284/6TC Locked rotor time Frame : 28s (cold) 16s (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 : 19.4 A Protection degree : IP56 : IC411 - TEFC L. R. Amperes : 114 A Cooling method LRC : 5.9x(Code G) Mounting : F-1 No load current : 6.64 A Rotation¹ : Both (CW and CCW) Rated speed : 1175 rpm Noise level² : 59.0 dB(A) Slip : 2.08 % Starting method : Direct On Line Rated torque : 12.4 kgfm Approx. weight³ : 206 kg Locked rotor torque : 220 % Breakdown torque : 250 % : F Insulation class Service factor : 1.25 Moment of inertia (J) : 0.3861 kgm² Design : B 75% Output 50% 100% Foundation loads Efficiency (%) 91.0 91.7 91.7 Max. traction : 339 kgf Power Factor 0.70 0.80 0.85 Max. compression : 545 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) 9.9 8.5 7.9 5.2 3.7 2.6 1.8 Drive end Non drive end 6311 C3 Bearing type 6211 C3 Inpro/Seal Inpro/Seal Sealing 20000 h 20000 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. Checked Rev. **Changes Summary** Performed Date Performed by Checked by Page Revision

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22/10/2024

Date

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

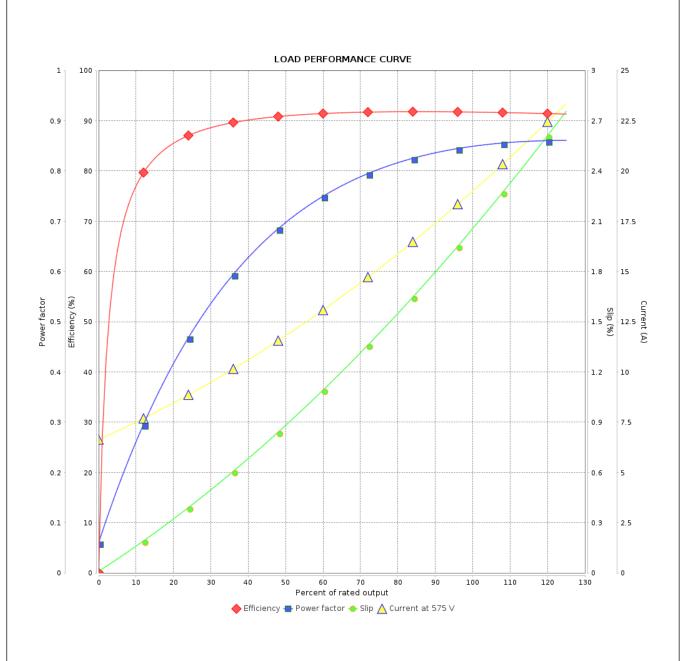


Customer :

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Efficiency Three-Phase

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Performance	: 575 V 60 Hz 6P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 19.4 A : 5.9 : 12.4 kgfm : 220 % : 250 % : 1175 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.3861 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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Checked by			Page	Revision

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22/10/2024

Date

