DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 12148036 Efficiency Three-Phase : 284/6TC Locked rotor time Frame : 36s (cold) 20s (hot) Output : 30 HP (22 kW) Temperature rise : 80 K Poles : 4 Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature : 1000 m.a.s.l. Rated voltage : 575 V Altitude Rated current : 28.1 A Protection degree : IP56 : IC411 - TEFC L. R. Amperes : 171 A Cooling method LRC : 6.1x(Code G) Mounting : F-1 : Both (CW and CCW) No load current : 9.84 A Rotation¹ Rated speed : 1770 rpm Noise level² : 63.0 dB(A) : Direct On Line Slip : 1.67 % Starting method Rated torque : 12.3 kgfm Approx. weight³ : 205 kg Locked rotor torque : 240 % Breakdown torque : 240 % : F Insulation class Service factor : 1.25 Moment of inertia (J) : 0.2467 kgm² Design : B 50% 75% Output 100% Foundation loads Efficiency (%) 93.0 93.0 93.6 Max. traction : 319 kgf Power Factor 0.70 0.80 0.84 Max. compression : 525 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) P5 (0,5;0,5) P1 (0,9;1,0) P6 (0,5;0,25) P7 (0,25;0,25) 6.8 5.8 5.2 3.1 2.2 1.4 0.9 Drive end Non drive end 6311 C3 Bearing type 6211 C3 Sealing Inpro/Seal Inpro/Seal 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				
Date	22/10/2024		1/2					
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

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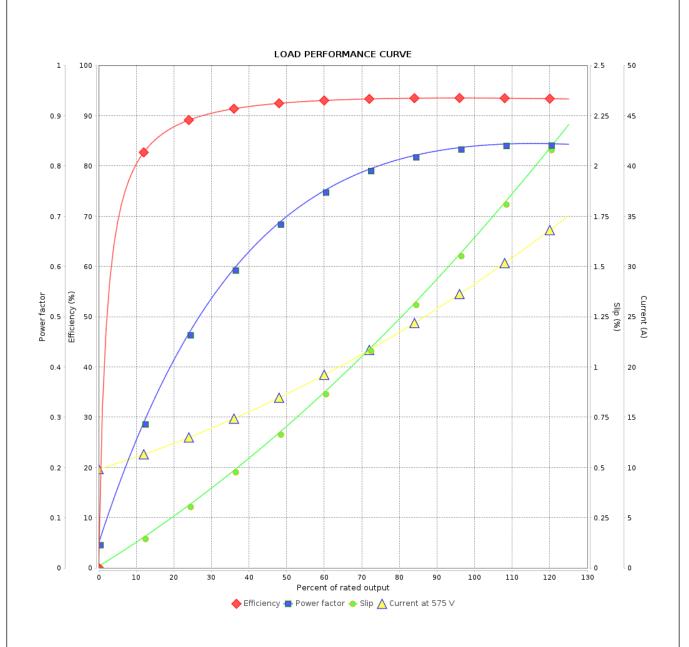
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22/10/2024

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 12148036



Performance	: 5	75 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 1 jue : 2	8.1 A 5.1 2.3 kgfm 40 % 40 % 770 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2467 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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Revision

