DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 13942724 Three-Phase : 444/5TC Locked rotor time Frame : 36s (cold) 20s (hot) Output : 100 HP (75 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 1000 m.a.s.l. : 575 V Altitude Protection degree Rated current : 96.7 A : IP55 Cooling method : IC411 - TEFC L. R. Amperes : 599 A **LRC** : 6.2x(Code G) Mounting : F-1 Rotation¹ : Both (CW and CCW) No load current : 36.0 A Rated speed : 1189 rpm Noise level² : 69.0 dB(A) : Direct On Line Slip : 0.92 % Starting method Rated torque : 717 kg : 61.0 kgfm Approx. weight³ Locked rotor torque : 220 % Breakdown torque : 250 % : F Insulation class Service factor : 1.25 Moment of inertia (J) : 3.68 kgm² Design : B 50% 75% 100% Output Foundation loads Efficiency (%) 94.5 95.0 95.0 Max. traction : 976 kgf Power Factor 0.68 0.78 0.82 Max. compression : 1693 kgf Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) P2 (0,5;1,0) P3 (0,25;1,0) P4 (0,9;0,5) P5 (0,5;0,5) P6 (0,5;0,25) P7 (0,25;0,25) 5.2 4.2 2.8 1.8 1.3 0.9 Drive end Non drive end 6319 C3 Bearing type 6316 C3 Sealing WSeal WSeal 13000 h Lubrication interval 16000 h Lubricant amount 45 g 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				
Date	19/10/2024		1/2					
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer

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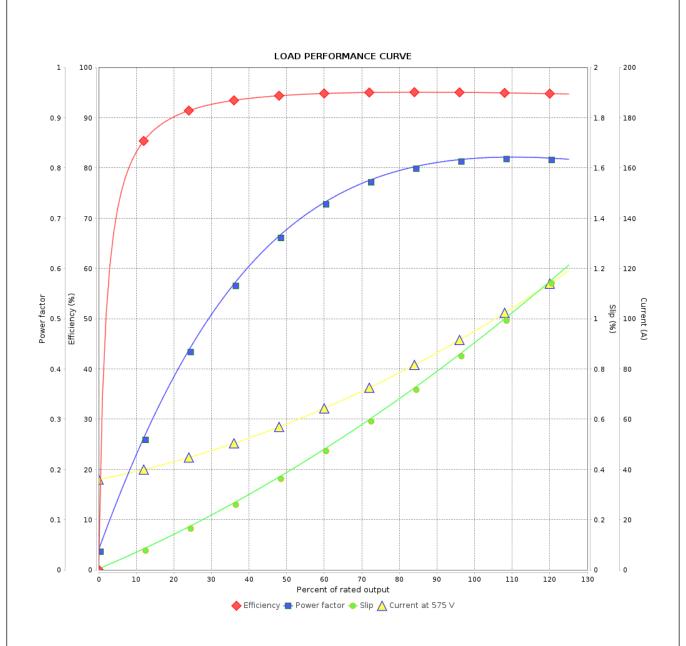
Date

19/10/2024

Product line : W22 NEMA Premium Efficiency

Product code: 13942724





Performance	: 5	575 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 6 : ue : 2	96.7 A 6.2 61.0 kgfm 220 % 250 % 1189 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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Revision

