DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 11556413 Three-Phase : 324/6TC Locked rotor time Frame : 27s (cold) 15s (hot) Output : 50 HP (37 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 : 47.4 A Protection degree : IP55 : IC411 - TEFC L. R. Amperes : 294 A Cooling method **LRC** : 6.2x(Code G) Mounting : F-1 : Both (CW and CCW) No load current : 18.8 A Rotation¹ Rated speed : 1775 rpm Noise level² : 70.0 dB(A) Slip : 1.39 % Starting method : Direct On Line Rated torque : 20.4 kgfm Approx. weight³ : 277 kg Locked rotor torque : 229 % Breakdown torque : 270 % : F Insulation class Service factor : 1.25 Moment of inertia (J) : 0.3861 kgm² Design : B 25% 50% 100% Output 75% Foundation loads Efficiency (%) 0.000 93.0 94.1 94.5 Max. traction : 557 kgf Power Factor 0.00 0.66 0.77 0.83 Max. compression : 833 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) 5.7 4.9 4.7 1.9 1.2 0.9 Drive end Non drive end 6212 C3 Bearing type 6312 C3 V'Ring V'Ring 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. Rev Changes Summary Performed Date

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

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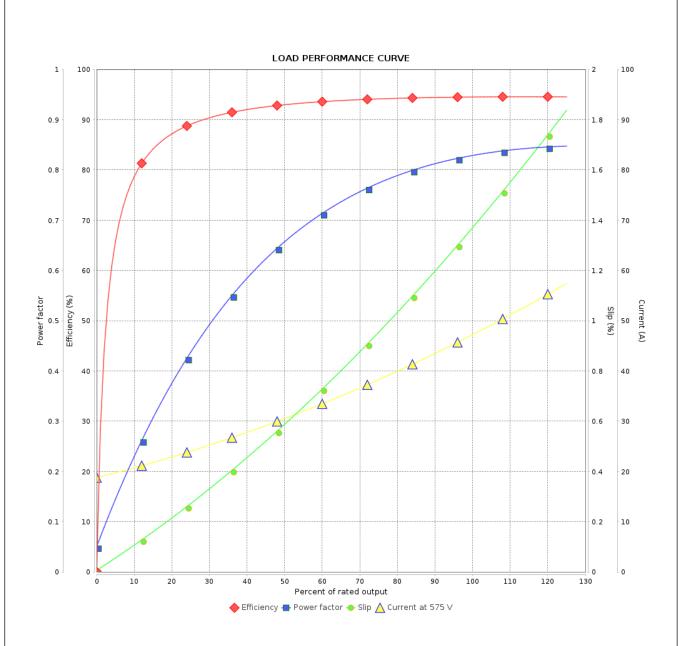
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Three-Phase

Product code: 11556413



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Performance		: 575 V 60 Hz 4P							
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : : : : : : : :	47.4 A Moment of inertia (J) 6.2 Duty cycle 20.4 kgfm Insulation class 229 % Service factor 270 % Temperature rise 1775 rpm Design		class ctor	: 0.3861 kgm² : Cont.(S1) : F : 1.25 : 80 K : B				
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Revision

