DATA SHEET

Checked by

Date

13/01/2024

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 12931516 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 Rated voltage : 575 V Altitude : 1000 m.a.s.l. Rated current : 47.4 A Protection degree : IP55 : IC411 - TEFC L. R. Amperes : 294 A Cooling method Mounting **LRC** : 6.2x(Code G) : 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 : 278 kg Locked rotor torque : 229 % Breakdown torque : 270 % : F Insulation class Service factor : 1.25 Moment of inertia (J) : 0.3861 kgm² Design : B 75% Output 50% 100% Foundation loads Efficiency (%) 93.0 94.1 94.5 Max. traction : 556 kgf Power Factor 0.66 0.77 0.83 Max. compression : 834 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) 5.7 4.9 4.7 2.7 1.9 1.2 0.9 Drive end Non drive end Bearing type 6312 C3 6212 C3 Sealing Taconite Labyrinth Taconite Labyrinth 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. Performed Checked Rev. **Changes Summary** Date Performed by

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Revision

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

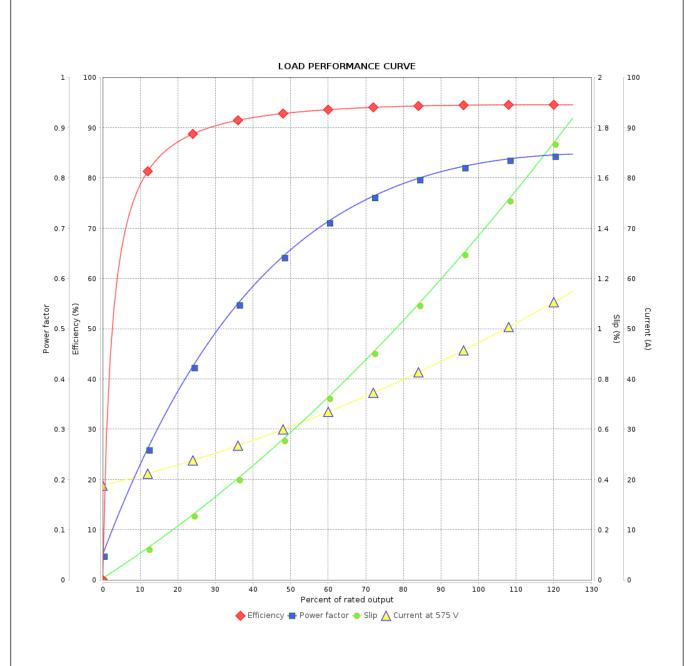
Product line : W22 IEEE 841 NEMA Premium Efficiency

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Product code:

12931516

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Performance	: 575 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 47.4 A : 6.2 : 20.4 kgfm : 229 % : 270 % : 1775 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	lass tor	: 0.3861 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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