DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 NEMA Premium Efficiency Product code: 12751349 Three-Phase : 364/5TC Frame Locked rotor time : 32s (cold) 18s (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. : IP55 : 45.9 A Protection degree Rated current L. R. Amperes : 294 A Cooling method : IC411 - TEFC **LRC** : 6.4x(Code G) Mounting : F-1 No load current : 16.0 A Rotation¹ : Both (CW and CCW) Rated speed : 1183 rpm Noise level² : 66.0 dB(A) Slip : 1.42 % Starting method : Direct On Line Rated torque : 30.7 kgfm Approx. weight³ : 413 kg Locked rotor torque : 200 % Breakdown torque : 240 % : F Insulation class Service factor : 1.25 Moment of inertia (J) : 1.36 kgm² Design : B 50% 75% 100% Foundation loads Output Efficiency (%) 93.6 94.1 94.1 Max. traction : 620 kgf Power Factor 0.74 0.83 0.86 Max. compression : 1033 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) 6.2 5.2 2.8 1.2 8.0 1.9 Drive end Non drive end Bearing type 6314 C3 6314 C3 Oil Seal Oil Seal Sealing 17000 h Lubrication interval 17000 h Lubricant amount 27 g 27 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	Checked	Date
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Checked by				Page	Revision
Date	19/10/2024	())/50.0/4.5		1/2	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

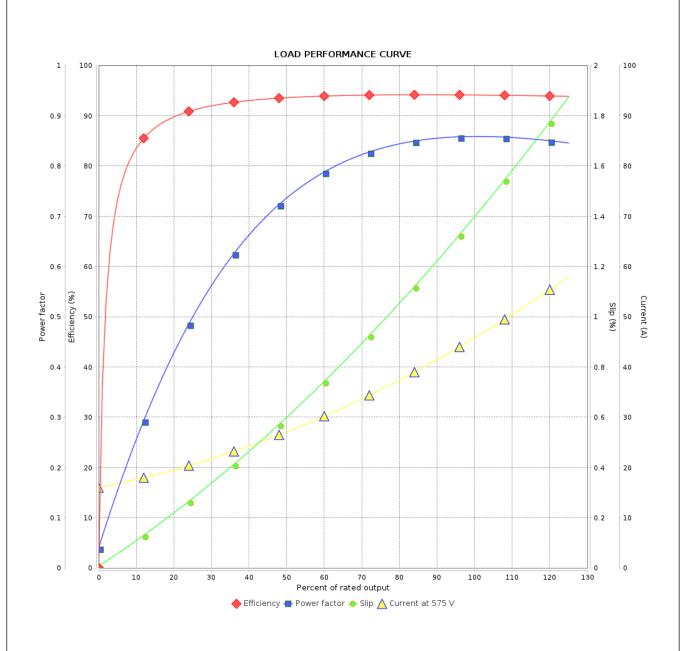
Date

19/10/2024

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12751349



Performance : 575 V 60 Hz 6P Rated current : 45.9 A Moment of inertia (J) : 1.36 kgm² **LRC** Duty cycle : Cont.(S1) : 6.4 Insulation class Rated torque : 30.7 kgfm : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1183 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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