## **DATA SHEET**



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11943259 Efficiency Three-Phase : 324/6T Locked rotor time Frame : 27s (cold) 15s (hot) Output : 50 HP (37 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 : 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 Rotation<sup>1</sup> Rated speed : 1775 rpm Noise level<sup>2</sup> : 70.0 dB(A) Slip : 1.39 % Starting method : Direct On Line Rated torque : 20.4 kgfm Approx. weight<sup>3</sup> : 273 kg Locked rotor torque : 229 % Breakdown torque : 270 % : F Insulation class Service factor : 1.25 Moment of inertia (J) : 0.3861 kgm<sup>2</sup> Design : B 50% 75% Output 100% Foundation loads Efficiency (%) 93.0 94.1 94.5 Max. traction : 559 kgf Power Factor 0.66 0.77 0.83 Max. compression : 831 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) 5.7 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 fu	III load.				
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## LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

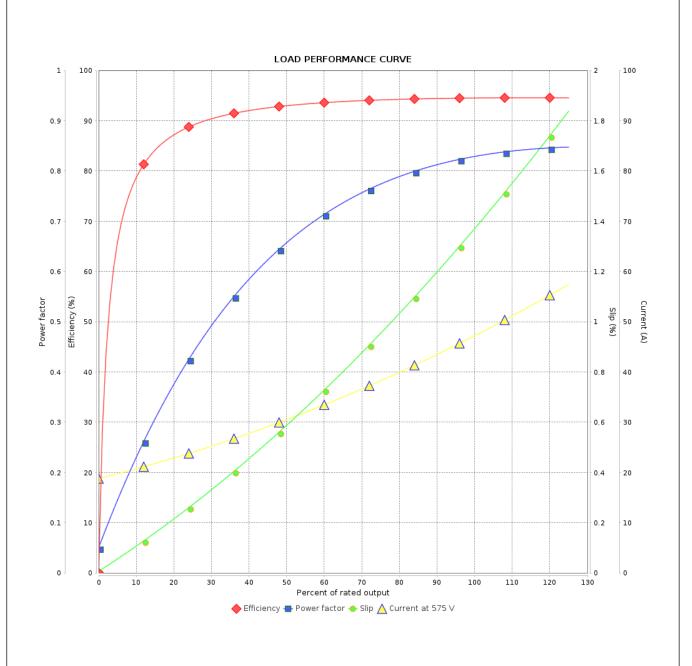


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11943259



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