## **DATA SHEET**

## Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 12001938 Three-Phase : 404/5TSC Frame Locked rotor time : 25s (cold) 14s (hot) Output : 100 HP (75 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : 2 Frequency : 60 Hz Ambient temperature : -20°C to +40°C Rated voltage : 575 V Altitude : 1000 m.a.s.l. : IP55 Protection degree Rated current : 89.6 A L. R. Amperes : 582 A Cooling method : IC411 - TEFC **LRC** : 6.5x(Code G) Mounting : F-1 No load current : 20.8 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 3545 rpm Noise level<sup>2</sup> : 79.0 dB(A) Slip : 1.53 % Starting method : Direct On Line Rated torque : 20.5 kgfm Approx. weight<sup>3</sup> : 514 kg Locked rotor torque : 240 % Breakdown torque : 260 % : F Insulation class Service factor : 1.25 Moment of inertia (J) : 0.5561 kgm<sup>2</sup> Design : B 75% Output 50% 100% Foundation loads Efficiency (%) 93.0 94.1 94.1 Max. traction : 267 kgf Power Factor 0.83 88.0 0.89 Max. compression : 781 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) 5.9 4.6 2.8 0.9 0.5 1.6 Drive end Non drive end Bearing type 6314 C3 6314 C3 Oil Seal Oil Seal Sealing 4000 h 4000 h Lubrication interval 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.

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## LOAD PERFORMANCE CURVE

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Customer :

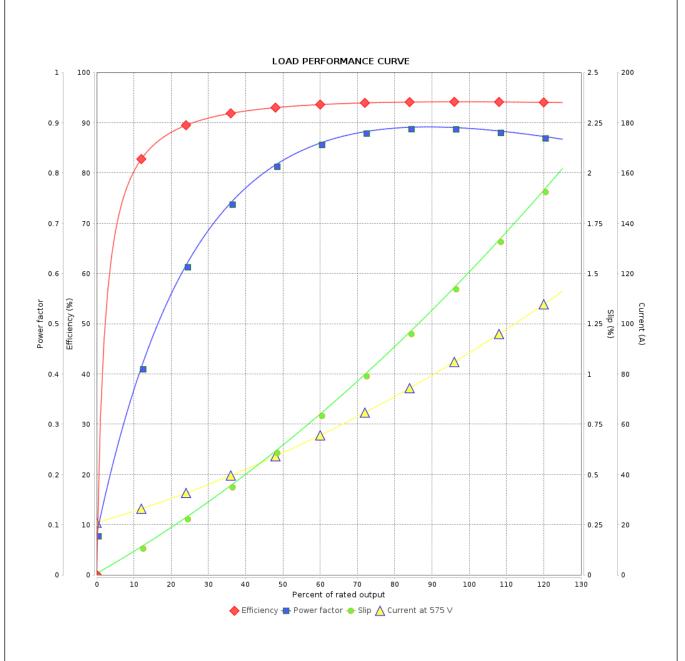
Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code :

12001938

2/2



Performance	: 575 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.5 Duty c : 20.5 kgfm Insulat : 240 % Service		class	: 0.5561 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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