## **DATA SHEET**



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 12811040 Three-Phase : 324/6T Locked rotor time Frame : 48s (cold) 27s (hot) Output : 20 HP (15 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 : 22.6 A Protection degree : IP55 : IC411 - TEFC L. R. Amperes : 113 A Cooling method **LRC** : 5.0x(Code G) Mounting : F-1 : Both (CW and CCW) No load current : 12.8 A Rotation<sup>1</sup> Rated speed : 880 rpm Noise level<sup>2</sup> : 56.0 dB(A) Slip : 2.22 % Starting method : Direct On Line Rated torque : 16.5 kgfm Approx. weight<sup>3</sup> : 231 kg Locked rotor torque : 190 % Breakdown torque : 220 % : F Insulation class Service factor : 1.25 Moment of inertia (J) : 0.3946 kgm<sup>2</sup> Design : B 50% 75% Output 100% Foundation loads Efficiency (%) 89.5 91.0 91.0 Max. traction : 341 kgf Power Factor 0.54 0.66 0.73 Max. compression : 572 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) 9.5 8.0 7.7 5.2 3.7 2.8 2.0 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 must be eliminated.

- (1) Looking the motor from the shaft end.
- (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.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

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## LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer

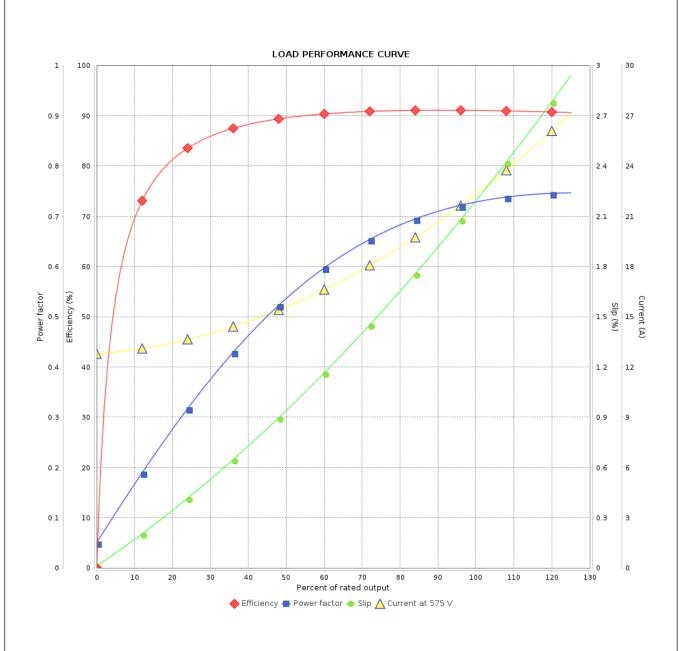
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Performance	: 575 V 60 Hz 8P	÷				
renormance	. 575 V 00 HZ 0F					
Rated current	: 22.6 A	Moment of inertia (J)		: 0.3946 kgm²		
LRC	: 5.0	Duty cycle		: Cont.(S1)		
Rated torque	: 16.5 kgfm	Insulation class Service factor Temperature rise		:F		
Locked rotor torque	: 190 %			: 1.25		
Breakdown torque	: 220 %			: 80 K		
Rated speed	: 880 rpm	Design		: B		
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