DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11944241 Efficiency Three-Phase : 404/5TS Locked rotor time Frame : 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 : 1000 m.a.s.l. Rated voltage : 575 V Altitude : IP55 Rated current : 89.6 A Protection degree L. R. Amperes : 582 A Cooling method : IC411 - TEFC **LRC** : 6.5x(Code G) Mounting : F-1 No load current : 20.8 A Rotation¹ : Both (CW and CCW) Rated speed : 3545 rpm Noise level² : 79.0 dB(A) Slip : 1.53 % Starting method : Direct On Line Rated torque : 20.5 kgfm Approx. weight³ : 484 kg Locked rotor torque : 240 % Breakdown torque : 260 % : F Insulation class Service factor : 1.25 Moment of inertia (J) : 0.5561 kgm² Design : B 25% 50% 100% Output 75% Foundation loads Efficiency (%) 0.000 93.0 94.1 94.1 Max. traction : 282 kgf : 766 kgf Power Factor 0.00 0.83 0.88 0.89 Max. compression 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 4.4 2.8 0.9 0.5 1.6 Drive end Non drive end Bearing type 6314 C3 6314 C3

Sealing

Lubrication interval

Taconite Labyrinth 4000 h

27 g

Taconite Labyrinth 4000 h 27 g

Lubricant amount 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

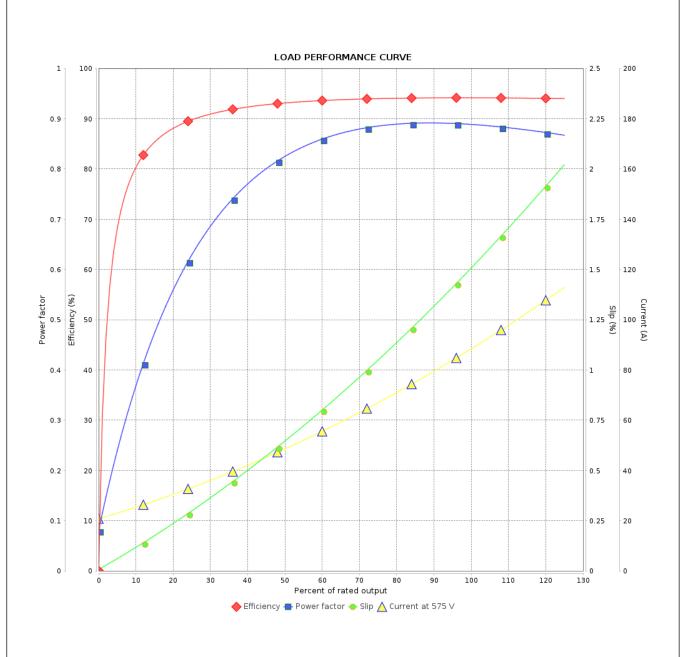


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11944241



Performance	: 575 V 60 Hz 2P							
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 89.6 A : 6.5 : 20.5 kgfm : 240 % : 260 % : 3545 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.5561 kgm² : Cont.(S1) : F : 1.25 : 80 K : B				
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23/10/2024

Date

