DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 12810974 Three-Phase : 182/4TC Locked rotor time Frame : 41s (cold) 23s (hot) Output : 3 HP (2.2 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) Frequency : 60 Hz Ambient temperature : -20°C to +40°C : 1000 m.a.s.l. Rated voltage : 575 V Altitude Rated current Protection degree : IP55 : 3.13 A Cooling method : IC411 - TEFC L. R. Amperes : 25.3 A **LRC** : 8.1x(Code K) Mounting : F-1 : Both (CW and CCW) No load current : 1.60 A Rotation¹ Rated speed : 1760 rpm Noise level² : 56.0 dB(A) Slip : 2.22 % Starting method : Direct On Line Rated torque : 1.24 kgfm Approx. weight³ : 47.4 kg Locked rotor torque : 229 % Breakdown torque : 340 % : F Insulation class Service factor : 1.25 Moment of inertia (J) : 0.0143 kgm² Design : B 50% 75% Output 100% Foundation loads Efficiency (%) 87.5 88.5 89.5 Max. traction : 64 kgf : 112 kgf Power Factor 0.61 0.73 0.79 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) 11.0 8.6 8.3 6.1 3.9 2.8 2.0 Drive end Non drive end Bearing type 6207 C3 6206 C3 Sealing Taconite Labyrinth Taconite Labyrinth 20000 h 20000 h Lubrication interval Lubricant amount 7 g 5 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 :

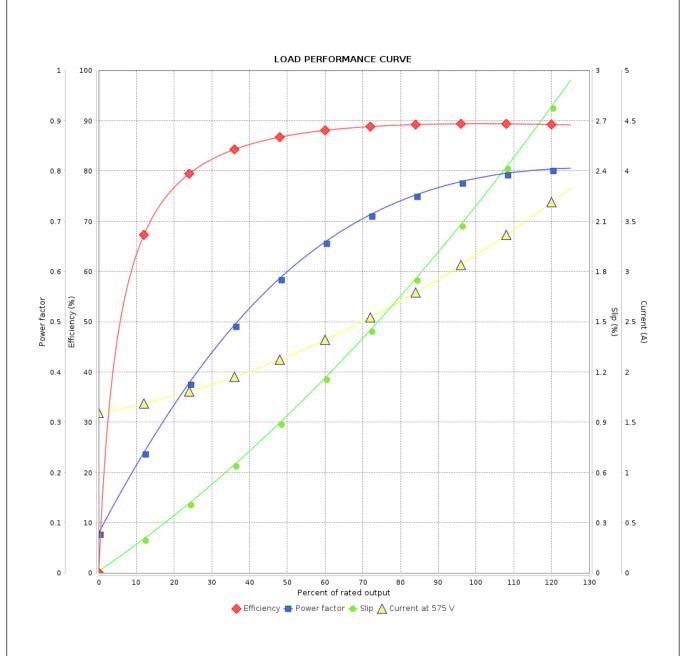
Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code:

12810974

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Performance	: 575 V 60 Hz 4P					
Rated current LRC	: 3.13 A : 8.1	Moment of inertia (J) Duty cycle	: 0.0143 kgm² : Cont.(S1)	2		
Rated torque Locked rotor torque	: 1.24 kgfm : 229 %	Insulation class Service factor				
Breakdown torque Rated speed	: 340 % : 1760 rpm	Temperature rise Design	: 80 K : B			
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13/01/2024

Date