DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W21 Explosion Proof NEMA Premium Product code: 14408027 Efficiency Three-Phase : 324T Locked rotor time Frame : 45s (cold) 25s (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 : 1000 m.a.s.l. Rated voltage : 575 V Altitude Protection degree Rated current : 22.0 A : IP55 : 117 A Cooling method : IC411 - TEFC L. R. Amperes **LRC** : 5.3x(Code G) Mounting : F-1 : Both (CW and CCW) No load current : 11.5 A Rotation¹ Rated speed : 880 rpm Noise level² : 56.0 dB(A) Slip : 2.22 % Starting method : Direct On Line Rated torque : 16.5 kgfm Approx. weight³ : 262 kg Locked rotor torque : 229 % Breakdown torque : 229 % : F Insulation class Service factor : 1.15 Moment of inertia (J) : 0.3946 kgm² Design : B 50% 75% Output 100% Foundation loads : 347 kgf Efficiency (%) 91.7 92.4 92.4 Max. traction Power Factor : 608 kgf 0.56 0.67 0.74 Max. compression Drive end Non drive end Bearing type 6312 C3 6212 C3 Oil Seal Lip Seal Sealing Lubrication interval 20000 h 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.

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	15/01/2024			1/3	

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



_	
Customer	
Customer	

Thermal protection

ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	15/01/2024			2/3	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

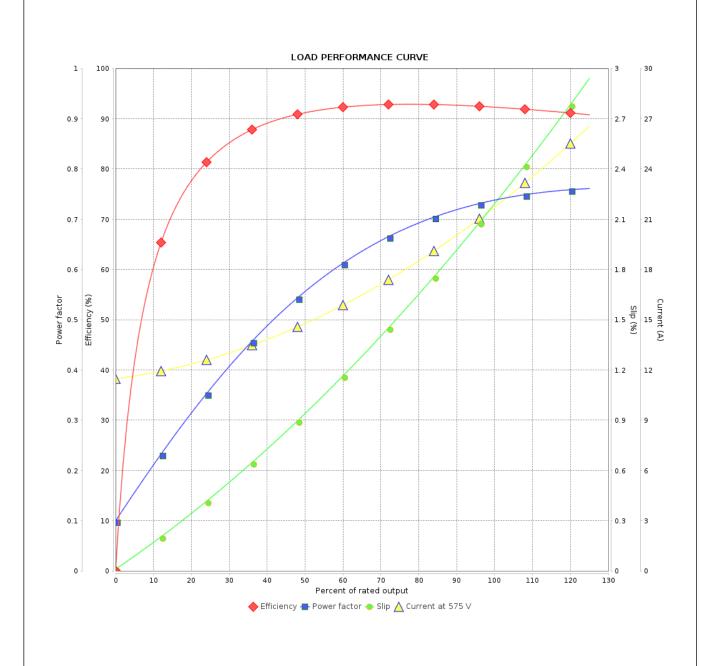


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14408027



Performance	: 575 V 60 Hz 8P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 22.0 A : 5.3 : 16.5 kgfm : 229 % : 229 % : 880 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 0.3946 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

3/3

15/01/2024

Date