DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12712281 Catalog #: 04036ET3H324JM-W22 Frame : 324/6JM Locked rotor time : 39s (cold) 22s (hot) Output : 40 HP (30 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 575 V : 1000 m.a.s.l. Altitude Rated current : 36.6 A Protection degree : IP55 L. R. Amperes : 231 A Cooling method : IC411 - TEFC : 6.3x(Code G) LRC Mounting : F-1 No load current : 8.80 A Rotation¹ : Both (CW and CCW) Rated speed : 3555 rpm Noise level² : 76.0 dB(A) Starting method Slip : 1.25 % : Direct On Line Rated torque : 59.1 ft.lb Approx. weight³ : 553 lb Locked rotor torque : 250 % Breakdown torque : 240 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 4.90 sq.ft.lb Design : B 50% 75% 100% Output Foundation loads 92.4 : 267 lb Efficiency (%) 91.7 92.4 Max. traction Power Factor 0.87 0.89 : 820 lb 0.82 Max. compression Non drive end Drive end 6212 C3 Bearing type 6312 C3 Sealing V'Ring V'Ring Lubrication interval 15000 h 12000 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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TORQUE AND CURRENT VS SPEED CURVE

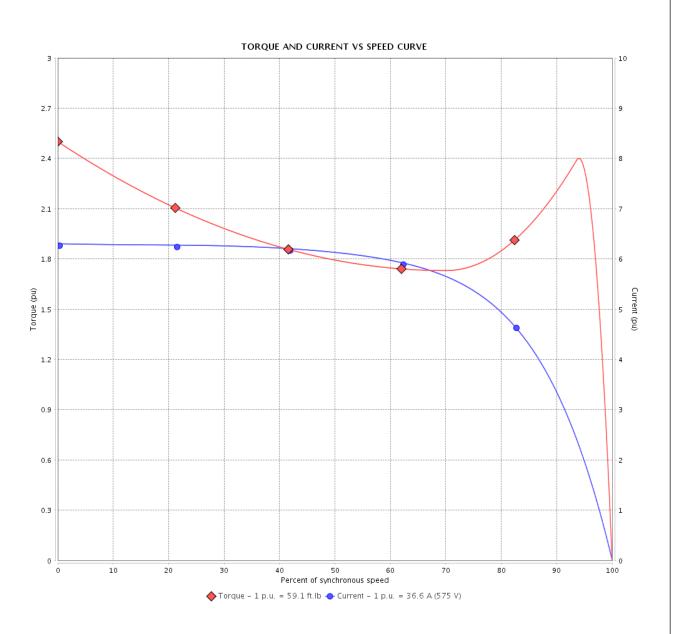
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12712281

Catalog #: 04036ET3H324JM-W22



Performance : 575 V 60 Hz 2P Rated current : 36.6 A Moment of inertia (J) : 4.90 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 59.1 ft.lb : F Locked rotor torque : 250 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 3555 rpm Design : B Locked rotor time

: 39s (cold) 22s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer

Checked by

Date

13/04/2022

Product line : NEMA Premium Efficiency Three- Product code : 12712281

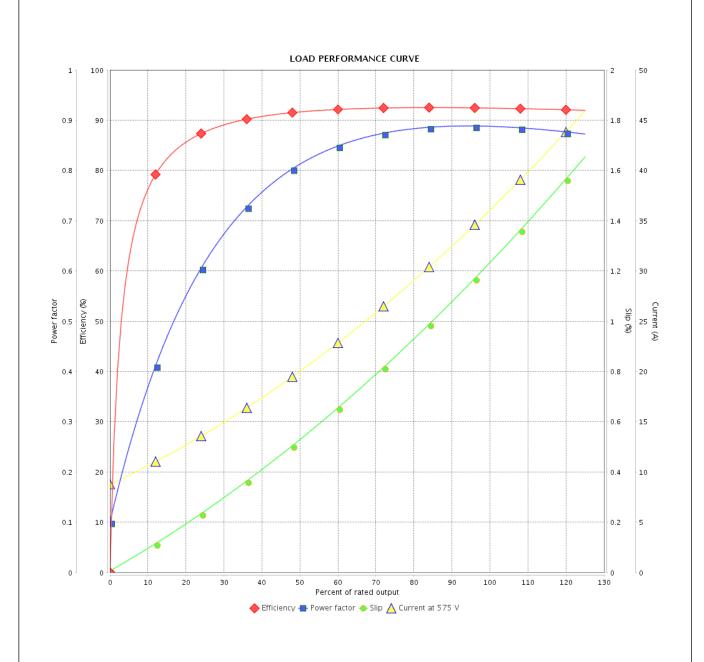
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Revision



Performance	: 575 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 36.6 A : 6.3 : 59.1 ft.lb : 250 % : 240 % : 3555 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 4.90 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



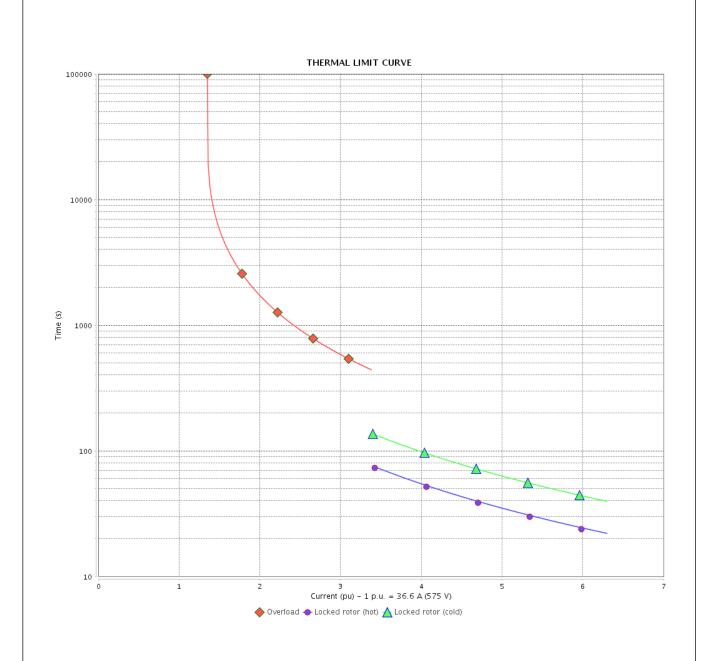
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Product line	: N	NEMA Premium Efficiend hase	y Three-	Product code :	12712281	
		liase		Catalog # :	04036ET3H3	24JM-W22
Performance		75 V 60 Hz 2P				
Rated current LRC	: 36 : 6.	6.6 A 3	Moment of Duty cycle	of inertia (J)	: 4.90 sq.ft.lb : Cont.(S1)	
Rated torque	: 59	9.1 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		50 % 40 %	Service fa Temperati		: 1.25 : 80 K	
Rated speed		555 rpm	Design	ui o Tido	: B	
Heating constant						
Cooling constant						
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



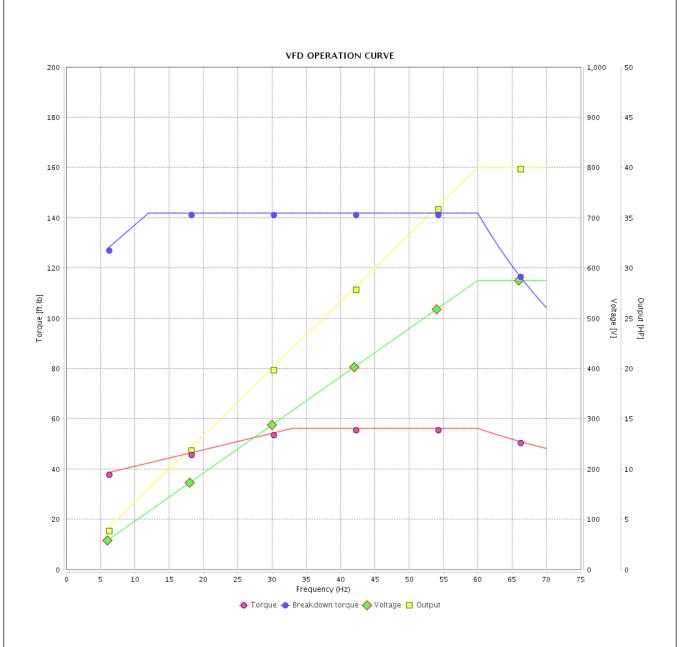
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12712281

Catalog #: 04036ET3H324JM-W22



Performance : 575 V 60 Hz 2P : 36.6 A Rated current Moment of inertia (J) : 4.90 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.3 : 59.1 ft.lb Insulation class Rated torque : F Locked rotor torque : 250 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 3555 rpm Design : B

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