DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12448182 Catalog #: 04036ET3H324TSC-W22 Frame : 324/6TSC 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 : 37.0 A Protection degree : IP55 L. R. Amperes : 233 A Cooling method : IC411 - TEFC LRC : 6.3x(Code G) Mounting : F-1 No load current : 10.4 A Rotation¹ : Both (CW and CCW) Rated speed : 3560 rpm Noise level² : 76.0 dB(A) Starting method Slip : 1.11 % : Direct On Line Rated torque : 59.1 ft.lb Approx. weight³ : 554 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 25% 50% 75% 100% Output Foundation loads : 266 lb Efficiency (%) 91.6 91.7 92.4 92.4 Max. traction : 820 lb Power Factor 0.80 0.86 0.88 0.55 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



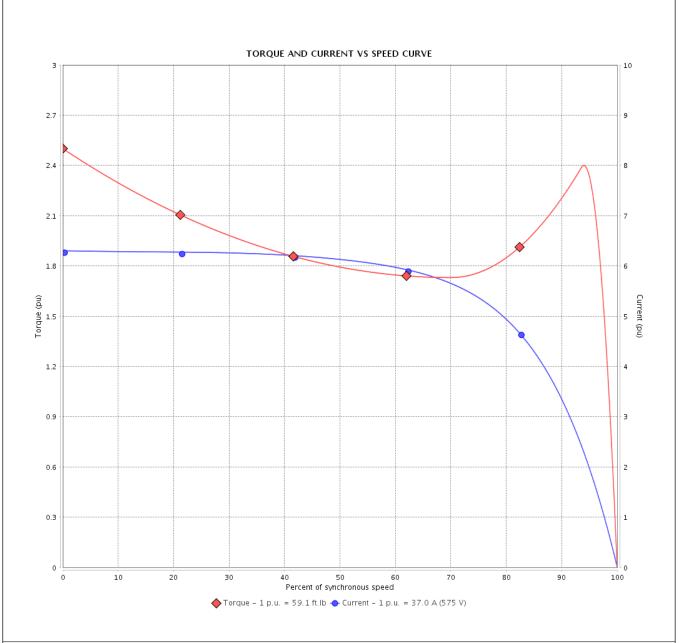
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 04036ET3H324TSC-W22

12448182



Performance : 575 V 60 Hz 2P Rated current : 37.0 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 : 3560 rpm Design : B

Locked rotor time : 39s (cold) 22s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



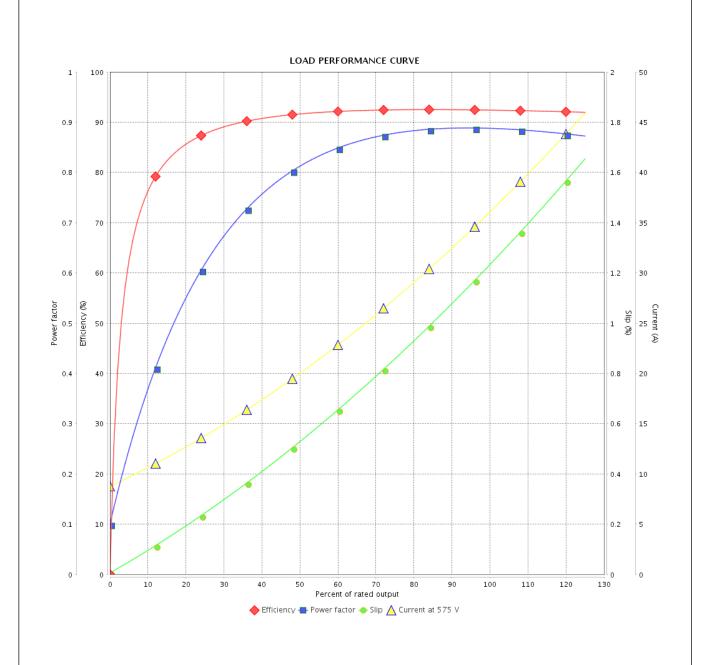
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Product line : NEMA Premium Efficiency Three- Product code : 12448182

Phase

Catalog #: 04036ET3H324TSC-W22

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Performance	: 575 V 60 Hz 2P				
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Breakdown torque Rated speed			: B		
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



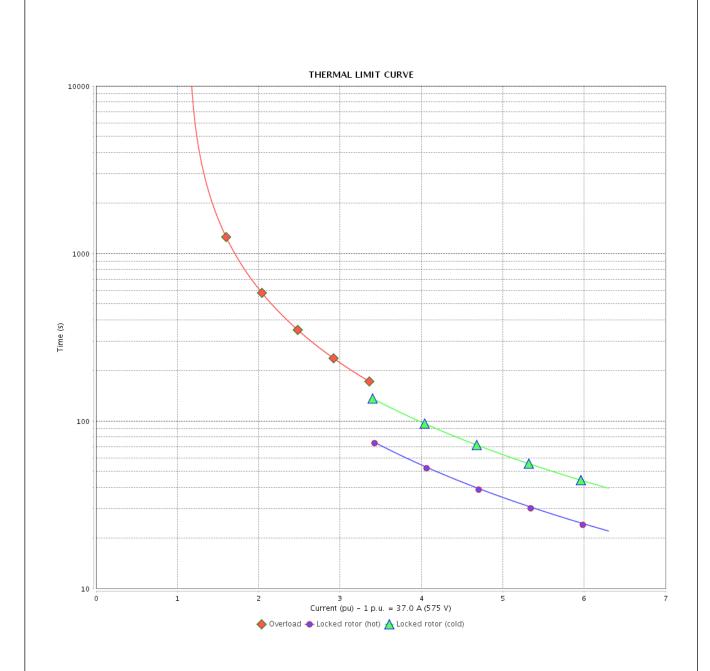
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Rated speed	: 240 % : 3560 rpm	Design	lui C 115C	e rise : 80 K : B	
Heating constant					
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Revision

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Customer :

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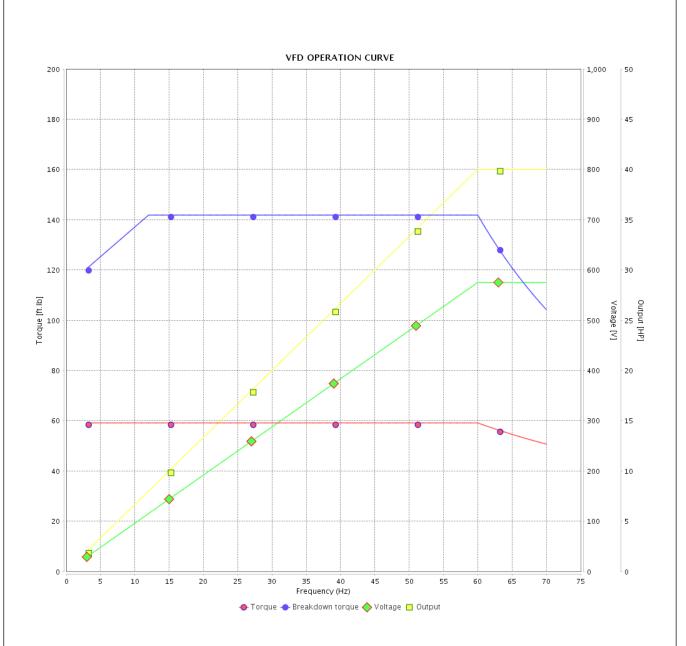
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Product line : NEMA Premium Efficiency Three- P

Phase

Product code: 12448182

Catalog #: 04036ET3H324TSC-W22



Performance : 575 V 60 Hz 2P : 37.0 A Rated current Moment of inertia (J) : 4.90 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.3 Insulation class : 59.1 ft.lb : F Rated torque Locked rotor torque : 250 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 3560 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

