DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12448086 Catalog #: 04018ET3H324TC-W22 Frame : 324/6TC Locked rotor time : 36s (cold) 20s (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 : 37.7 A Protection degree : IP55 L. R. Amperes : 230 A Cooling method : IC411 - TEFC LRC : 6.1x(Code G) Mounting : F-1 No load current : 13.6 A Rotation¹ : Both (CW and CCW) Rated speed : 1770 rpm Noise level² : 66.0 dB(A) Starting method Slip : 1.67 % : Direct On Line Rated torque : 119 ft.lb Approx. weight³ : 587 lb Locked rotor torque : 229 % Breakdown torque : 240 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 9.16 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads : 800 lb Efficiency (%) 93.4 93.6 94.1 94.1 Max. traction Power Factor 0.80 0.85 : 1386 lb 0.46 0.72 Max. compression Non drive end Drive end 6212 C3 Bearing type 6312 C3 Sealing V'Ring V'Ring 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.

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TORQUE AND CURRENT VS SPEED CURVE

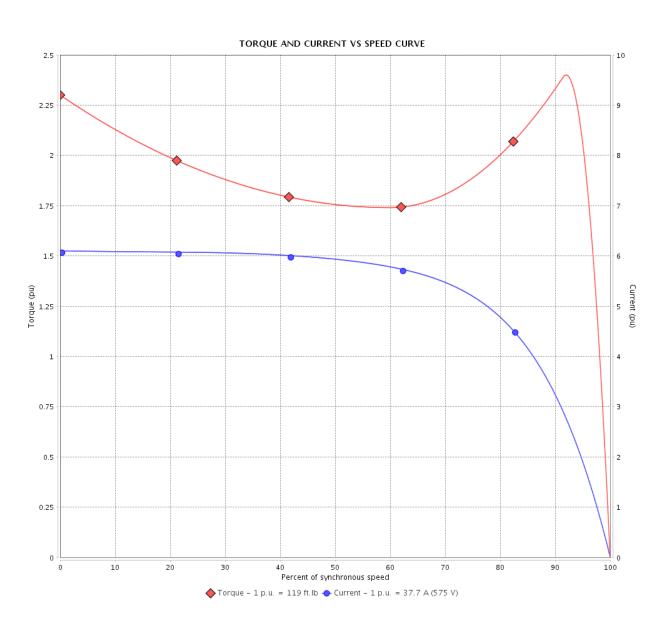
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12448086

04018ET3H324TC-W22 Catalog #:



Performance	: 575 V 60 Hz 4P			
Rated current	: 37.7 A	Moment of inertia (J)	: 9.16 sq.ft.lb	
LRC	: 6.1	Duty cycle	: Cont.(S1)	
Rated torque	: 119 ft.lb	Insulation class	: F	
Locked rotor torque	: 229 %	Service factor	: 1.25	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 1770 rpm	Design	: B	
Locked rotor time	: 36s (cold) 20s (hot)			

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



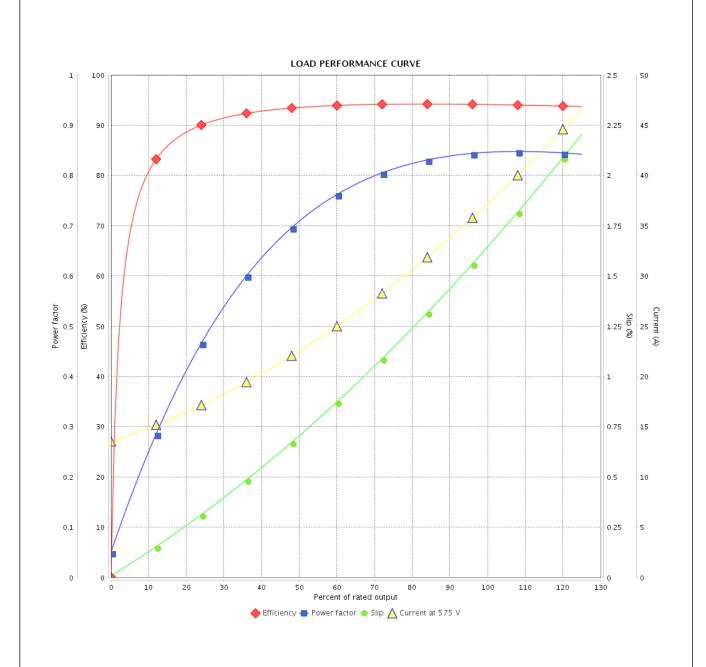
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12448086

Phase

Catalog #: 04018ET3H324TC-W22

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Performance	: 575 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 37.7 A : 6.1 : 119 ft.lb : 229 % : 240 % : 1770 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 9.16 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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Date

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



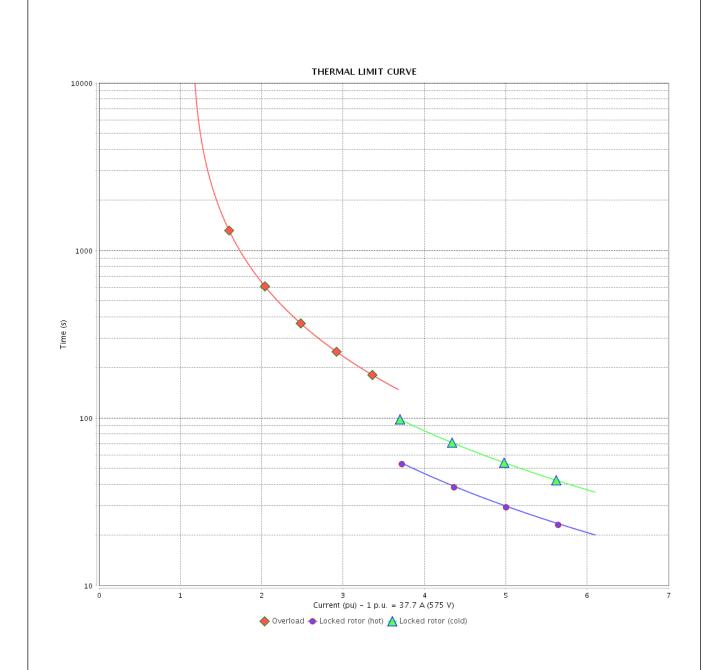
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Product line	: 1	NEMA Premium Efficiency	/ Three-	Product code :	12448086	
		hase				
				Catalog # :	04018ET3H3	24TC-W22
Performance	: 57	75 V 60 Hz 4P				
Rated current		7.7 A	Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC Rated torque	: 6. : 11	1 I9 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torque	: 22	29 %	Service fa	ctor	: 1.25	
Breakdown torque		40 % 770 rpm	Temperatu Design	ıre rise	: 80 K : B	
	. 17		2001911			
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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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 :

Date

13/04/2022

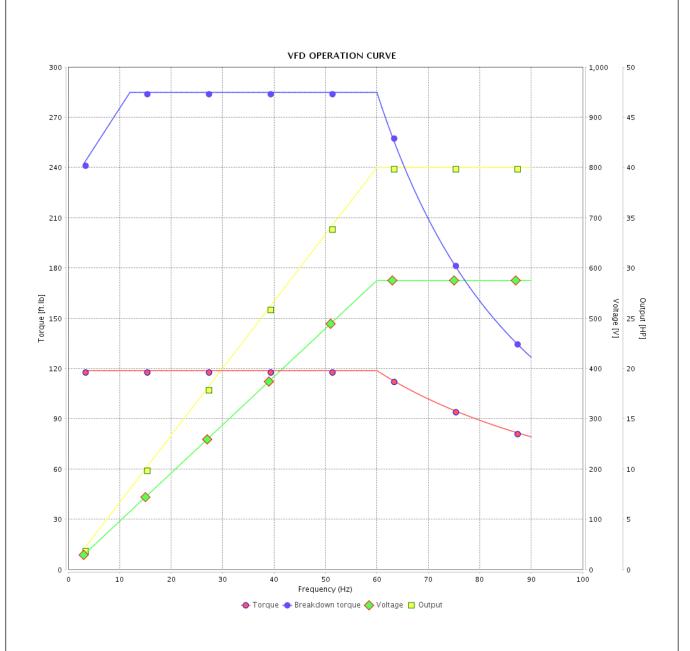
Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 12448086

Catalog #: 04018ET3H324TC-W22

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Performance : 575 V 60 Hz 4P Rated current : 37.7 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.1 : 119 ft.lb Insulation class Rated torque : F Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

