DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 14387172 Catalog #: 04012ET3H364T-W22G Frame : 364/5T Locked rotor time : 37s (cold) 21s (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 : 37.2 A Protection degree : IP55 L. R. Amperes : 238 A Cooling method : IC411 - TEFC : 6.4x(Code G) LRC Mounting : F-1 No load current : 13.6 A Rotation¹ : Both (CW and CCW) Rated speed : 1185 rpm Noise level² : 66.0 dB(A) Starting method Slip : 1.25 % : Direct On Line Rated torque : 177 ft.lb Approx. weight³ : 833 lb Locked rotor torque : 200 % : 240 % Breakdown torque Insulation class : F Service factor : 1.25 Moment of inertia (J) : 21.8 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads : 1040 lb Efficiency (%) 93.1 93.6 93.6 94.1 Max. traction Power Factor 0.82 0.86 0.47 0.73 Max. compression : 1873 lb Non drive end Drive end Bearing type 6314 C3 6314 C3 WSeal Sealing WSeal Lubrication interval 17000 h 17000 h Lubricant amount 27 g 27 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



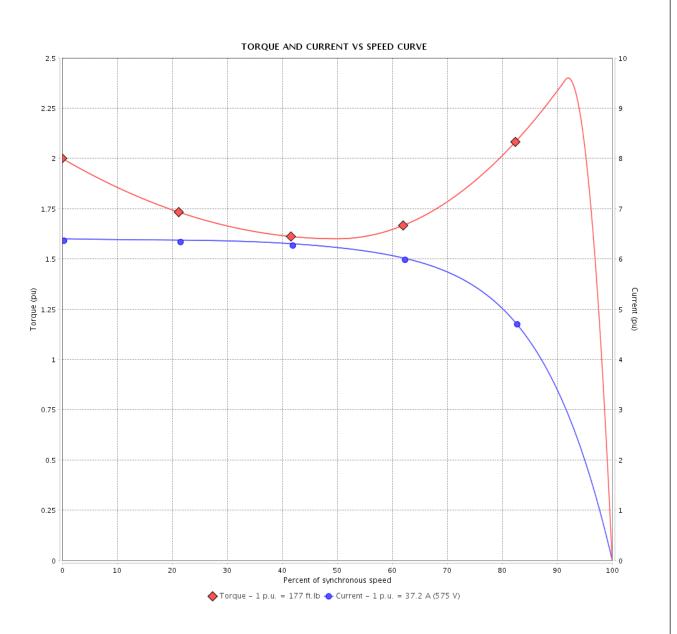
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 04012ET3H364T-W22G

14387172



Performance	: 575 V 60 Hz 6P			
Rated current LRC	: 37.2 A : 6.4	Moment of inertia (J) Duty cycle	: 21.8 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque	: 177 ft.lb : 200 %	Insulation class Service factor	: F : 1.25	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 1185 rpm	Design	: B	
Locked rotor time	· 37s (cold) 21s (hot)			

Locked rotor time : 37s (cold) 21s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

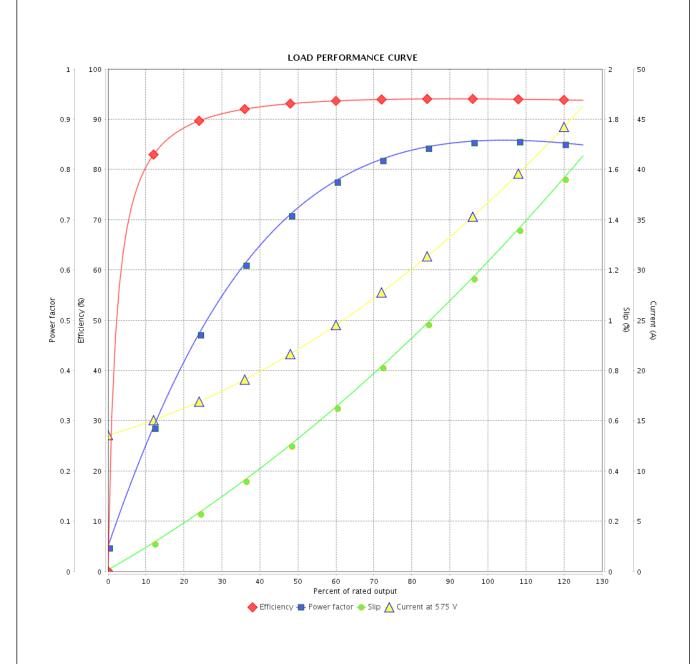


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14387172

Phase

Catalog #: 04012ET3H364T-W22G



Performance	: 5	75 V 60 Hz 6P				
Rated current		7.2 A Moment of inertia (J)		: 21.8 sq.ft.lb		
LRC	: 6	· ·	Duty cycle		: Cont.(S1)	
Rated torque		77 ft.lb	Insulation	class	: F	
Locked rotor toro	jue : 20	00 %	Service fa	actor	: 1.25	
Breakdown torqu	ie : 24	: 240 %		ure rise	: 80 K	
Rated speed	: 1185 rpm		Design	Design		
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



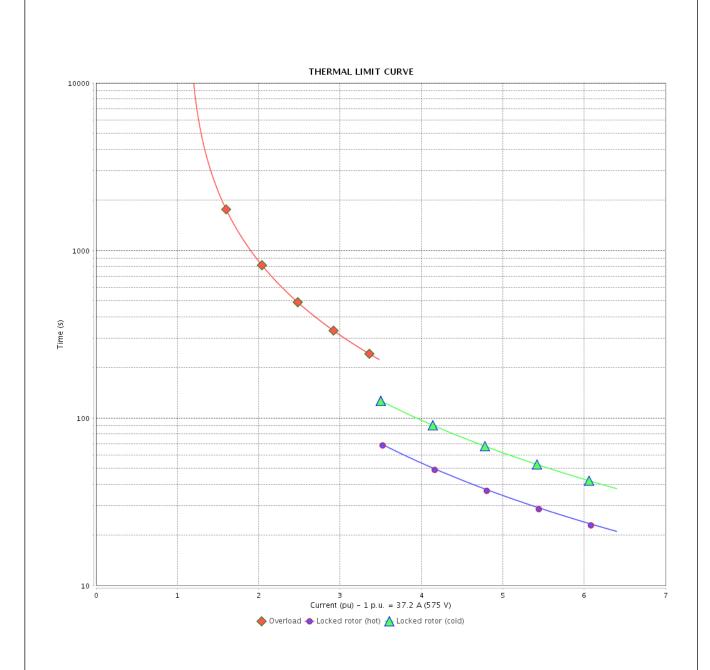
Customer	:	:				
Product line		NEMA Promium Efficier	Three	Product code :	44007470	
		: NEMA Premium Efficiency Phase			14387172	
				Catalog # :	04012ET3H36	64T-W22G
Performance		575 V 60 Hz 6P	N4- :: 1	eficantic (I)	- 04 0 6 "	
Rated current LRC		37.2 A 6.4	Moment o Duty cycle	of inertia (J) e	: 21.8 sq.ft.lb : Cont.(S1)	
Rated torque	:	177 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		200 % 240 %	Service fa Temperat		: 1.25 : 80 K	
Rated speed		1185 rpm	Design		: B	
Heating constan	t					
Cooling constan						
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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 :

Checked by

Date

12/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

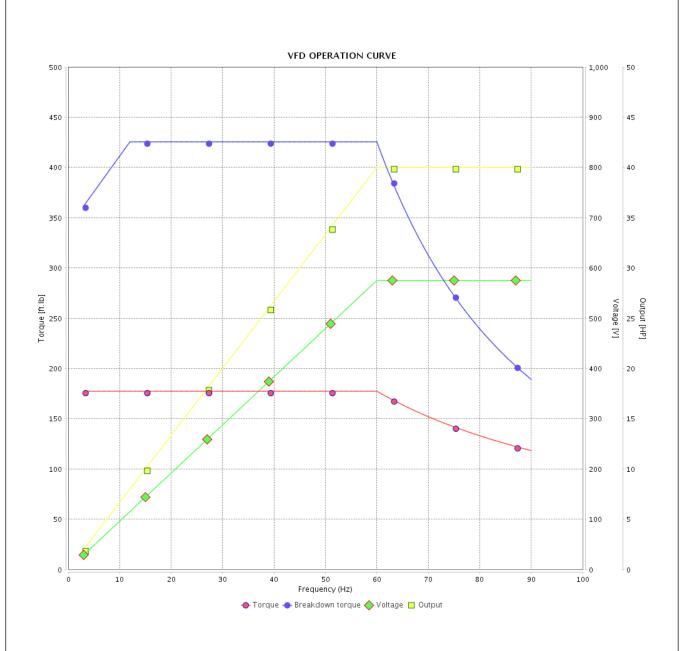
Product code: 14387172

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Revision



Performance	: 57	: 575 V 60 Hz 6P					
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 17 jue : 20 ie : 2	7.2 A .4 77 ft.lb 00 % 40 % 185 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 21.8 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B		
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