DATA SHEET

Three Phase Induction Motor - Squirrel Cage



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Customer		:						
Product line		: NEMA Premium Efficiency T Phase			Γhree- Product code : Catalog # :		14383272 10012ET3H444T-W22G	
					Catalo	y # . 	10012E13114441-W22G	
Frame Output Poles Frequency Rated voltage Rated current L. R. Amperes LRC No load current Rated speed Slip Rated torque Locked rotor torque Breakdown torque Insulation class Service factor Moment of inertia (J) Design Output 25% Efficiency (%) 94.4 Power Factor 0.44 Bearing type Sealing Lubrication interval		: 444/5T : 100 HP (75 kW) : 6 : 60 Hz : 575 V : 96.8 A : 600 A : 6.2x(Code G) : 36.0 A : 1185 rpm			Locked rotor ti Temperature r Duty cycle Ambient temperative Altitude Protection deg Cooling methor Mounting Rotation1 Noise level2	ise erature gree od	: 36s (cold) 20s (hot) : 80 K : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : IC411 - TEFC : F-1 : Both (CW and CCW) : 69.0 dB(A)	
Rated speed Slip Rated torque Locked rotor torque Breakdown torque Insulation class Service factor Moment of inertia (J) Design		: 443 : 220 : 250 : F : 1.25	: 1.25 : 87.3 sq.ft.lb		Starting metho Approx. weigh		: Direct On Line : 1577 lb	
Output	25%	50%	75%	100%	Foundation load	S		
Efficiency (%) Power Factor		94.5 0.68	95.0 0.78	95.0 0.82	Max. traction Max. compression	on	: 2165 lb : 3742 lb	
Bearing type Sealing Lubrication inter- Lubricant amour Lubricant type		: : : :	63 W 13	<u>e end</u> 19 C3 /Seal 000 h 45 g	No obil Polyrex EM	n drive end 6316 C3 WSeal 16000 h 34 g		
Notes								

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

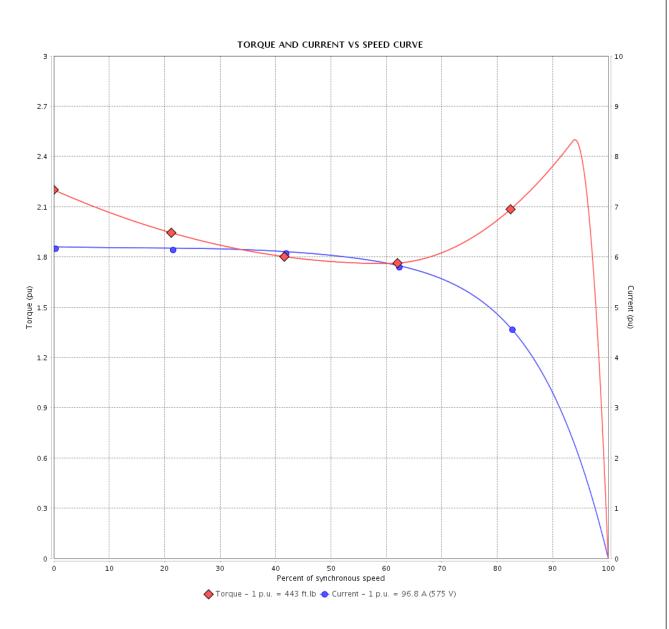
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14383272

Catalog #: 10012ET3H444T-W22G



Performance : 575 V 60 Hz 6P Rated current : 96.8 A Moment of inertia (J) : 87.3 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 443 ft.lb : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1185 rpm Design : B Locked rotor time : 36s (cold) 20s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

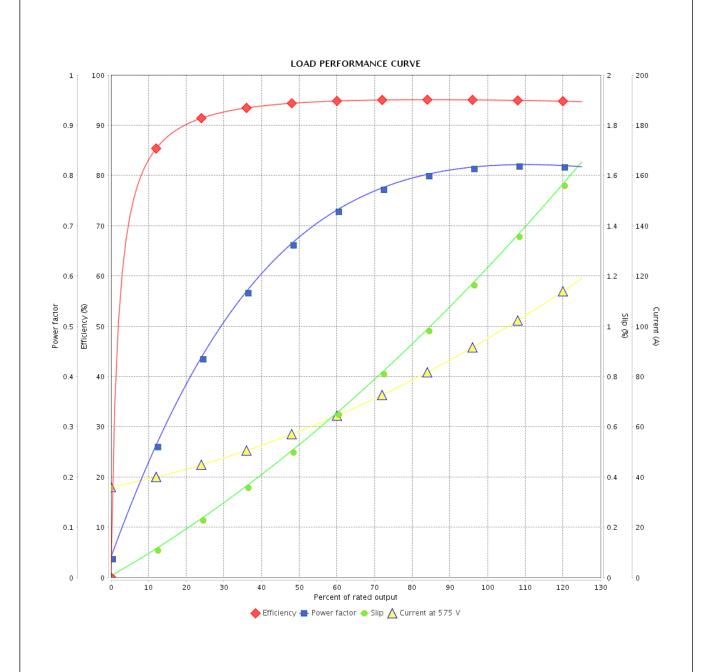


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 10012ET3H444T-W22G

14383272



Performance		: 575 V 60 Hz 6P					
Rated current		6.8 A	Moment o	Moment of inertia (J)			
LRC : 6		.2	Duty cycle	Duty cycle			
Rated torque		43 ft.lb	Insulation class		:F		
Locked rotor torque		20 %	Service fa	Service factor			
Breakdown torqu	ie : 2	: 250 % Temperatur : 1185 rpm Design		ıre rise	: 80 K		
Rated speed	: 1				: B		
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



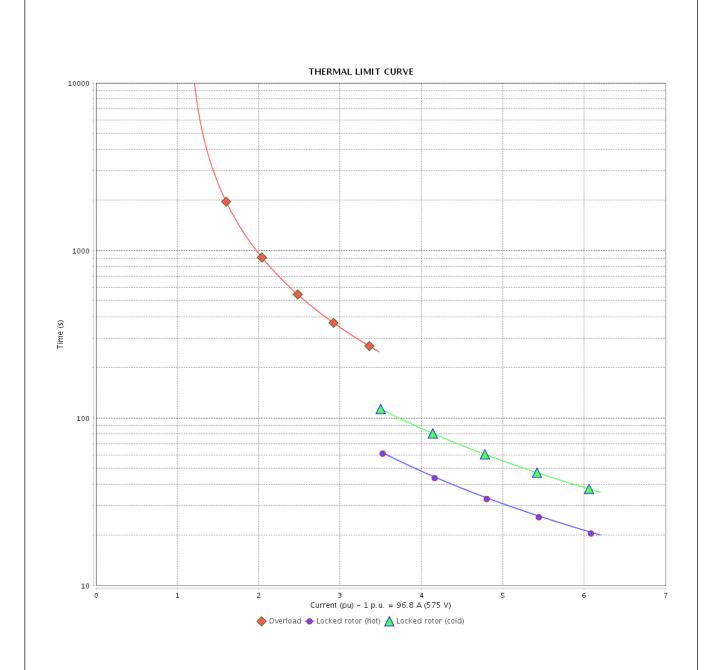
Customer	:				
Product line	: NEMA Premium Efficiency	Three-	Product code :	14383272	
	Phase		Catalog # :	10012ET3H4	44T-W22G
Darfarra	. F7F \/ 00 - 0D				
Performance Rated current	: 575 V 60 Hz 6P : 96.8 A	Moment o	f inertia (J)	: 87.3 sq.ft.lb	
LRC	: 6.2	Duty cycle	;	: Cont.(S1)	
Rated torque Locked rotor torque	: 443 ft.lb : 220 %	Insulation Service fa		: F : 1.25	
Breakdown torque	: 250 %	Temperatu	ıre rise	: 80 K	
Rated speed	: 1185 rpm	Design		: 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 :

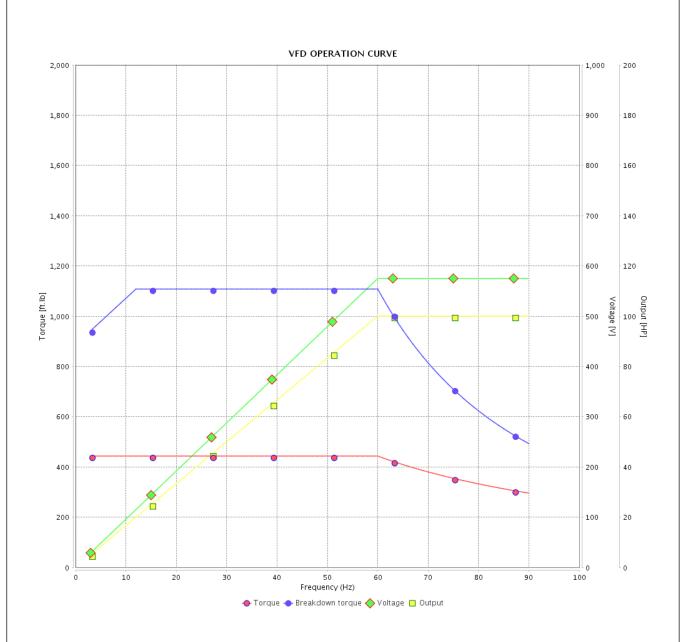
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14383272

Catalog #: 10012ET3H444T-W22G

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Performance	: 575 V 60 Hz 6P				
Rated current	: 96.8 A	Moment of inertia (J)		: 87.3 sq.ft.lb	
LRC	: 6.2	Duty cycle		: Cont.(S1)	
Rated torque	: 443 ft.lb	Insulation class		: F	
Locked rotor torque	: 220 %	Service factor		: 1.25	
Breakdown torque	: 250 %	Temperature rise		: 80 K	
Rated speed	: 1185 rpm	Design		: B	
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Checked by				Page	Revision

13/04/2022

Date

