DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12445718 Catalog #: 00156ET3H143T-W22 Frame : 143/5T Locked rotor time : 37s (cold) 21s (hot) Output : 1.5 HP (1.1 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 1000 m.a.s.l. : 575 V Altitude Rated current : 1.57 A Protection degree : IP55 L. R. Amperes : 14.0 A Cooling method : IC411 - TEFC LRC : 8.9x(Code L) Mounting : F-1 No load current : 0.664 A Rotation¹ : Both (CW and CCW) Rated speed : 3480 rpm Noise level² : 68.0 dB(A) Starting method Slip : 3.33 % : Direct On Line Rated torque : 2.26 ft.lb Approx. weight³ : 43.9 lb Locked rotor torque : 310 % Breakdown torque : 370 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.0470 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 84.0 84.0 : 51 lb Efficiency (%) 81.1 81.5 Max. traction Power Factor 0.78 0.84 : 95 lb 0.43 0.68 Max. compression Drive end Non drive end Bearing type 6205 ZZ 6204 ZZ V'Ring Sealing V'Ring Lubrication interval Lubricant amount 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

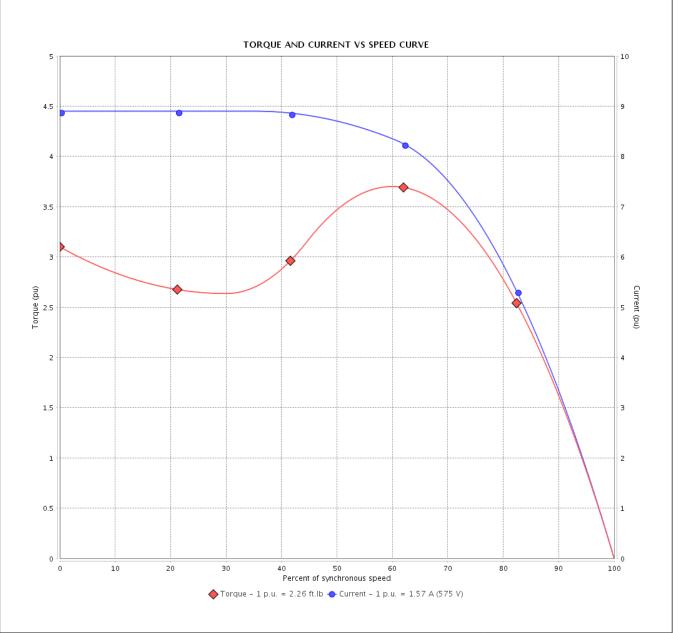


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12445718

Phase

Catalog #: 00156ET3H143T-W22



Performance : 575 V 60 Hz 2P Rated current : 1.57 A Moment of inertia (J) : 0.0470 sq.ft.lb **LRC** : 8.9 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 2.26 ft.lb Service factor Locked rotor torque : 310 % : 1.25 Breakdown torque : 370 % Temperature rise : 80 K Rated speed : 3480 rpm Design : B

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

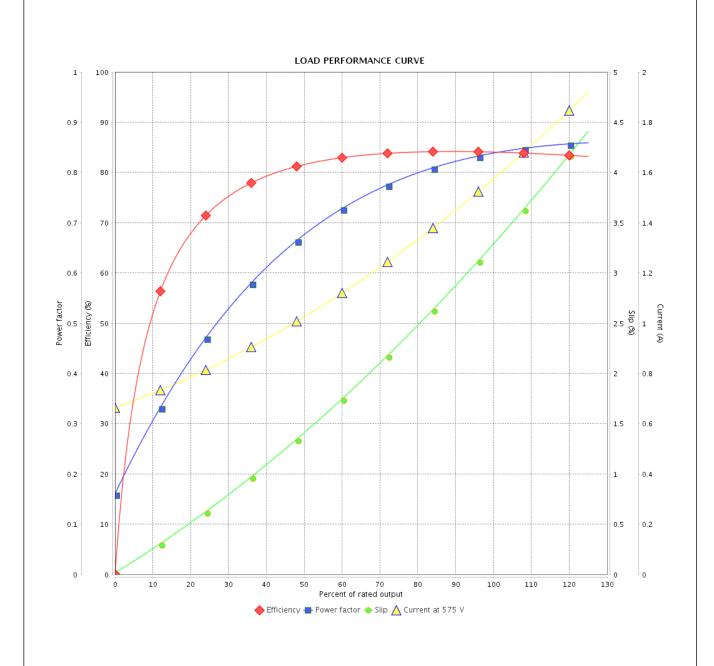


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12445718

Phase

Catalog #: 00156ET3H143T-W22



Performance	: 5	75 V 60 Hz 2P				
Rated current	: 1	.57 A	Moment of	Moment of inertia (J)		.lb
LRC	: 8	.9	Duty cycle	Duty cycle		
Rated torque	: 2	.26 ft.lb	Insulation	Insulation class		
Locked rotor torqu	ie : 3	10 %	Service fa	Service factor		
Breakdown torque :		Temperature rise Design		ure rise	: 80 K	
				: B		
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



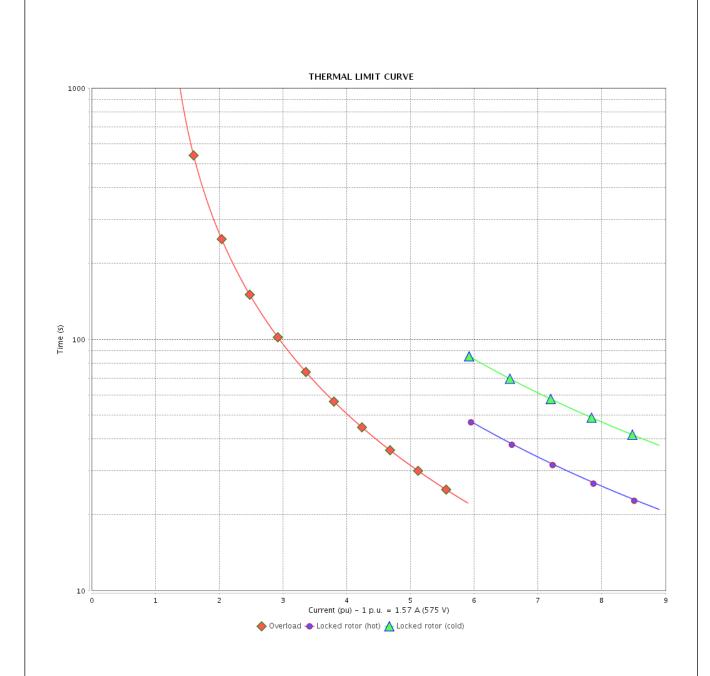
Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	12445718	
	P	hase		Catalog # :	00156ET3H1	143T-W22
Performance		75 V 60 Hz 2P				
Rated current LRC	: 1. : 8.	57 A 9	Moment o	f inertia (J)	: 0.0470 sq.ft.l : Cont.(S1)	b
Rated torque	: 2.	26 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		10 % 70 %	Service fa Temperatu		: 1.25 : 80 K	
Rated speed		480 rpm	Design		: B	
Heating constant						
Cooling constant		Observes O		David 1	Ob. 1	
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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 :

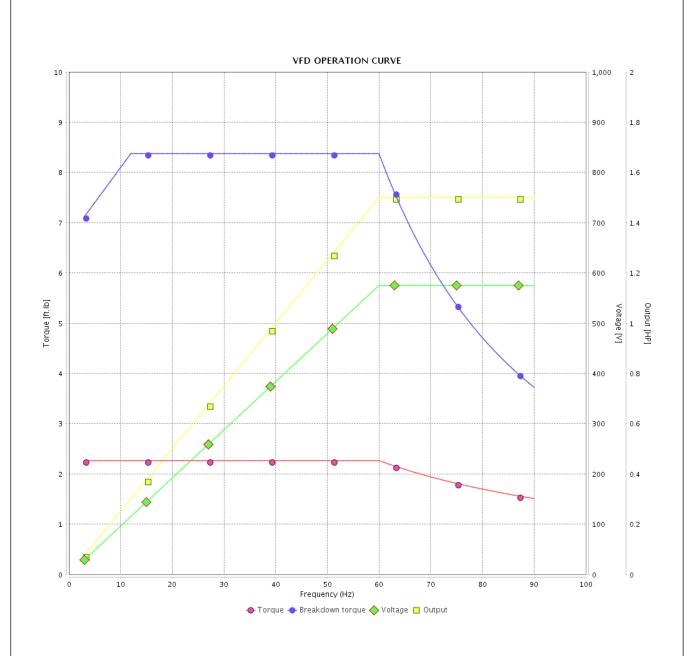
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00156ET3H143T-W22

12445718

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Performance	: 575 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.57 A : 8.9 : 2.26 ft.lb : 310 % : 370 % : 3480 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0470 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
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12/04/2022

Date

