DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 14591686 Catalog #: 00236XT3H145T Frame : 143/5T Locked rotor time : 27s (cold) 15s (hot) Output : 2 HP (1.5 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 : 2.15 A Protection degree : IP55 L. R. Amperes Cooling method : IC411 - TEFC : 19.8 A LRC : 9.2x(Code L) Mounting : F-1 No load current : 0.960 A Rotation¹ : Both (CW and CCW) Rated speed : 3495 rpm Noise level² : 68.0 dB(A) Starting method Slip : 2.92 % : Direct On Line Rated torque : 3.01 ft.lb Approx. weight³ : 73.4 lb Locked rotor torque : 370 % Breakdown torque : 420 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.0551 sq.ft.lb Design 25% 50% 75% 100% Output Foundation loads 80.0 84.0 85.5 : 73 lb Efficiency (%) 78.4 Max. traction Power Factor 0.41 0.64 0.76 0.82 : 146 lb Max. compression Drive end Non drive end 6204 2RS Bearing type 6205 2RS Sealing Oil Seal Lip Seal 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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Customer	
Customer	

Thermal protection

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ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

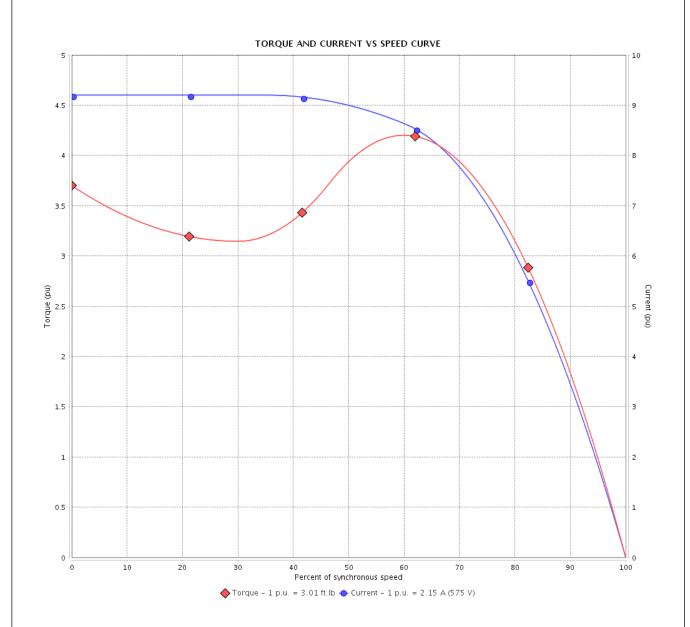
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 14591686 Catalog #: 00236XT3H145T



Performance : 575 V 60 Hz 2P Rated current : 2.15 A Moment of inertia (J) : 0.0551 sq.ft.lb **LRC** : 9.2 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 3.01 ft.lb Locked rotor torque : 370 % Service factor : 1.15 Breakdown torque : 420 % Temperature rise : 80 K : B Rated speed : 3495 rpm Design Locked rotor time : 27s (cold) 15s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



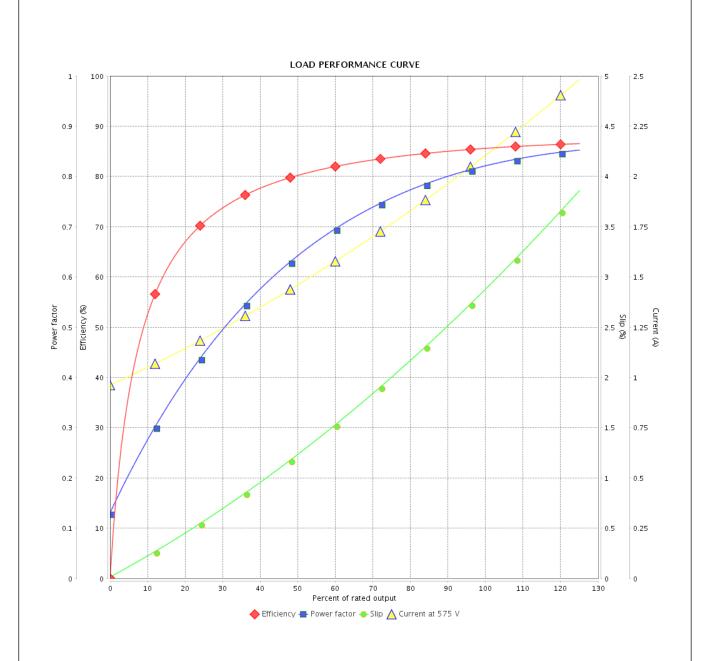
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00236XT3H145T

14591686



Performance	: 575 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.15 A : 9.2 : 3.01 ft.lb : 370 % : 420 % : 3495 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0551 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



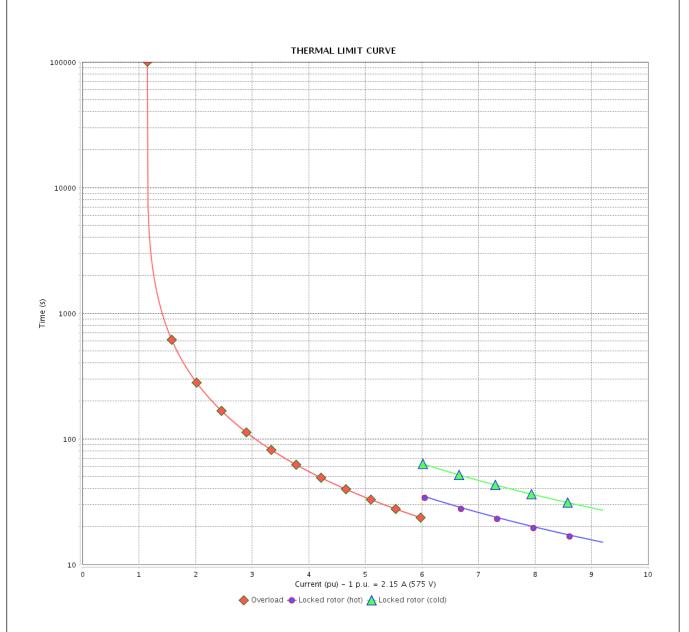
Product line	:	NEMA Premium Efficiency 1	Three-	Product code :	14591686	
	Р	Phase		Catalog # :	00236XT3H ²	145T
Performance Rated current LRC Rated torque Locked rotor toro Breakdown torque Rated speed	: 2 : 9 : 3 que : 3 le : 4 : 3	.75 V 60 Hz 2P .15 A .2 .01 ft.lb .70 % 20 % 495 rpm	Moment of Duty cycl Insulation Service for Temperat Design	n class actor	: 0.0551 sq.ft.l : Cont.(S1) : F : 1.15 : 80 K : B	lb
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 2 : 9 : 3 que : 3 ie : 4 : 3	15 A 2 01 ft.lb .70 % 20 %	Duty cycl Insulation Service fa Temperat	e n class actor	: Cont.(S1) : F : 1.15 : 80 K	lb
Rated current .RC Rated torque .ocked rotor torque Breakdown torque Rated speed Heating constan Cooling constan	: 2 : 9 : 3 que : 3 ie : 4 : 3	1.15 A 1.2 1.01 ft.lb 1.70 % 20 % 495 rpm	Duty cycl Insulation Service fa Temperat	e n class actor ture rise	: Cont.(S1) : F : 1.15 : 80 K : B	
Rated current .RC Rated torque .ocked rotor tord Breakdown torqu Rated speed	: 2 : 9 : 3 que : 3 ie : 4 : 3	15 A 2 01 ft.lb .70 % 20 %	Duty cycl Insulation Service fa Temperat	e n class actor	: Cont.(S1) : F : 1.15 : 80 K	lb Date
Rated current .RC Rated torque .ocked rotor tord Breakdown torqu Rated speed Heating constan Cooling constan Rev.	: 2 : 9 : 3 que : 3 ie : 4 : 3	1.15 A 1.2 1.01 ft.lb 1.70 % 20 % 495 rpm	Duty cycl Insulation Service fa Temperat	e n class actor ture rise	: Cont.(S1) : F : 1.15 : 80 K : B	
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed Heating constant Rev. Performed by	: 2 : 9 : 3 que : 3 ie : 4 : 3	1.15 A 1.2 1.01 ft.lb 1.70 % 20 % 495 rpm	Duty cycl Insulation Service fa Temperat	e n class actor ture rise	: Cont.(S1) : F : 1.15 : 80 K : B	Date
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed Heating constan Cooling constan Rev.	: 2 : 9 : 3 que : 3 ie : 4 : 3	1.15 A 1.2 1.01 ft.lb 1.70 % 20 % 495 rpm	Duty cycl Insulation Service fa Temperat	e n class actor ture rise	: Cont.(S1) : F : 1.15 : 80 K : B	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

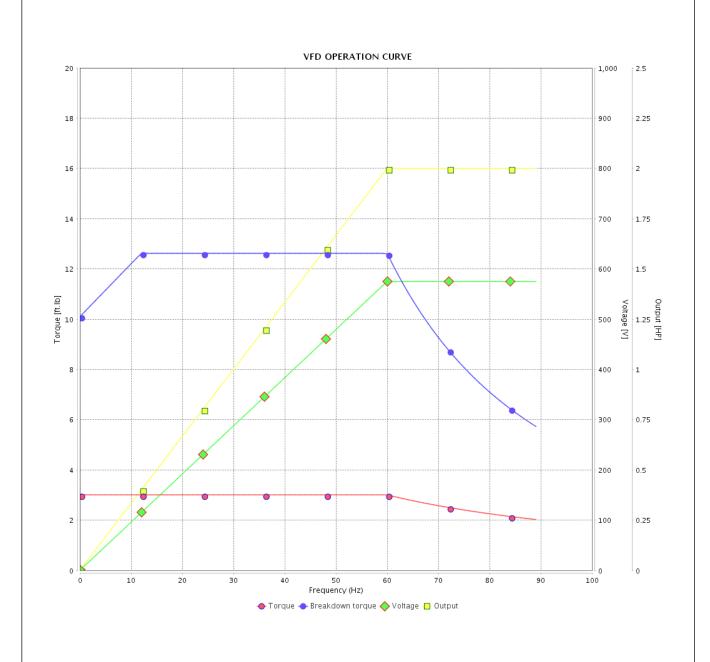


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14591686

Phase

Catalog #: 00236XT3H145T



Performance	: 575 V 60 Hz 2P				
Rated current	: 2.15 A Moment of inertia (J) : 9.2 Duty cycle		f inertia (J)	: 0.0551 sq.ft.lb	
LRC			cycle : Cont.(S1)		
Rated torque	: 3.01 ft.lb	Insulation class		:F	
Locked rotor torque	: 370 %	Service factor		: 1.15	
Breakdown torque	: 420 %	Temperatu	ıre rise	: 80 K	
Rated speed	: 3495 rpm	Design		: B	
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