DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 14345291 Catalog #: 01036XT3H215T Frame : 213/5T Locked rotor time : 270s (cold) 150s (hot) Output : 10 HP (7.5 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 : 9.36 A Protection degree : IP55 L. R. Amperes : 64.6 A Cooling method : IC411 - TEFC LRC : 6.9x(Code H) Mounting : F-1 No load current : 2.72 A Rotation¹ : Both (CW and CCW) Rated speed : 3515 rpm Noise level² : 72.0 dB(A) Starting method Slip : 2.36 % : Direct On Line Rated torque : 14.9 ft.lb Approx. weight³ : 204 lb Locked rotor torque : 210 % Breakdown torque : 280 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.5512 sq.ft.lb Design 25% 50% 75% 100% Output Foundation loads 90.2 90.2 : 134 lb Efficiency (%) 88.2 88.5 Max. traction : 338 lb Power Factor 0.87 0.89 0.56 0.81 Max. compression Drive end Non drive end 6207 2RS Bearing type 6308 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	
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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: 14345291 Catalog #: 01036XT3H215T TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu)

Performance : 575 V 60 Hz 2P Rated current : 9.36 A Moment of inertia (J) : 0.5512 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 14.9 ft.lb Locked rotor torque : 210 % Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 3515 rpm Design : B

Percent of synchronous speed ◆ Torque - 1 p.u. = 14.9 ft.lb ◆ Current - 1 p.u. = 9.36 A (575 V)

Locked rotor time : 270s (cold) 150s (hot)

1.2

0.6

0.3

		• • • • • • • • • • • • • • • • • • • •			
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

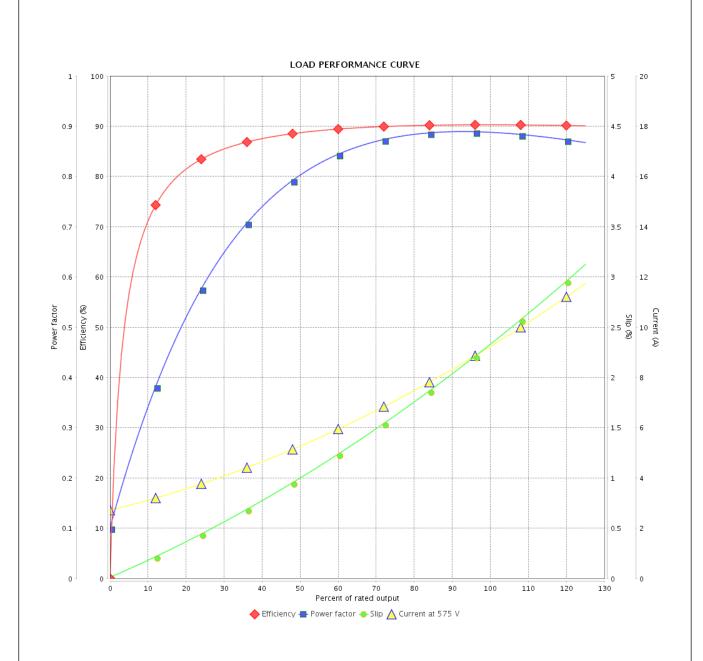
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 01036XT3H215T

14345291

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Performance	: 575 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 9.36 A : 6.9 : 14.9 ft.lb : 210 % : 280 % : 3515 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.5512 sq.ft.ll : Cont.(S1) : F : 1.15 : 80 K : B	0
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



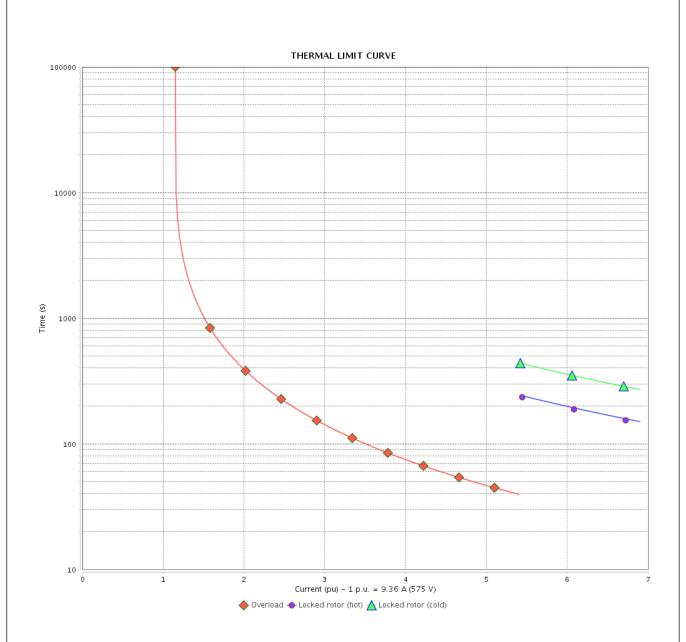
Product line	:	NEMA Premium Efficiency T	hree- F	Product code :	14345291	
	F	Phase		Catalog # :	01036XT3H2	15T
Performance Rated current LRC Rated torque Locked rotor tor	: 9 : 6 : 1 que : 2	.9 4.9 ft.lb 10 %	Moment of Duty cycle Insulation Service fac	class	: 0.5512 sq.ft.ll : Cont.(S1) : F : 1.15	b
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed	: 9 : 6 : 1 que : 2 ue : 2 : 3	.36 A .9 4.9 ft.lb 10 % 80 %	Duty cycle Insulation	class	: Cont.(S1) : F	b
Rated current IRC Rated torque ocked rotor tor Breakdown torq	: 9 : 6 : 1 que : 2 ue : 2 : 3	.36 A .9 4.9 ft.lb 10 % 80 %	Duty cycle Insulation Service fac Temperatu	class	: Cont.(S1) : F : 1.15 : 80 K	b
Rated current RC Rated torque ocked rotor tor Breakdown torq Rated speed	: 9 : 6 : 1 que : 2 ue : 2 : 3	.36 A .9 4.9 ft.lb 10 % 80 %	Duty cycle Insulation Service fac Temperatu	class	: Cont.(S1) : F : 1.15 : 80 K	b
Rated current RC Rated torque ocked rotor tor Breakdown torq Rated speed Heating constant Cooling constant Rev.	: 9 : 6 : 1 que : 2 ue : 2 : 3	.36 A .9 4.9 ft.lb 10 % 80 % 515 rpm	Duty cycle Insulation Service fac Temperatu	class ctor ire rise	: Cont.(S1) : F : 1.15 : 80 K : B	
Rated current RC Rated torque ocked rotor tor breakdown torq Rated speed Heating constant Cooling constant	: 9 : 6 : 1 que : 2 ue : 2 : 3	.36 A .9 4.9 ft.lb 10 % 80 % 515 rpm	Duty cycle Insulation Service fac Temperatu	class ctor ire 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

Checked by

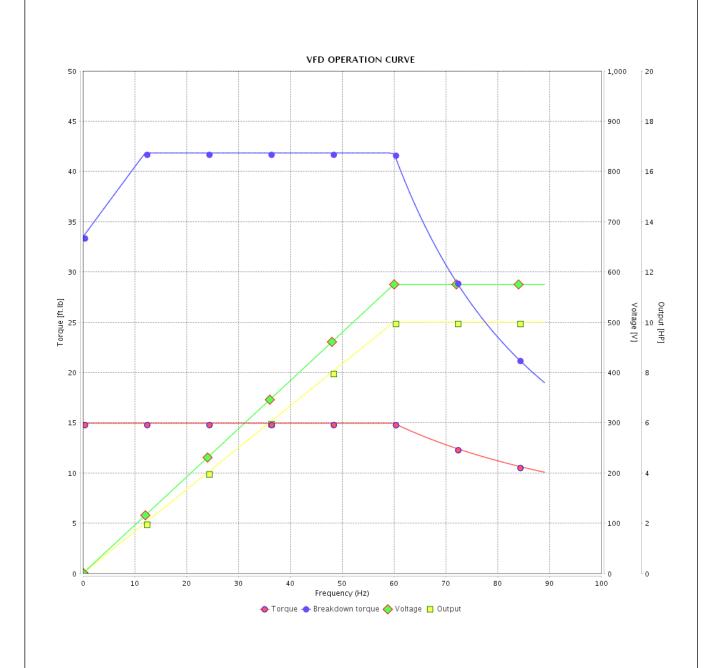
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Product line : NEMA Premium Efficiency Three- Product code : 14345291

Phase

Catalog #: 01036XT3H215T



Performance	: 575 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 9.36 A : 6.9 : 14.9 ft.lb : 210 % : 280 % : 3515 rpm	Moment of Duty cycle Insulation Service fa Temperati Design	class ctor	: 0.5512 sq.ft.ll : Cont.(S1) : F : 1.15 : 80 K : B)
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