DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 14328455 Catalog #: 01018XT3H215TC Frame : L215TC Locked rotor time : 27s (cold) 15s (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 : 10.2 A Protection degree : IP55 L. R. Amperes : 66.0 A Cooling method : IC411 - TEFC LRC : 6.5x(Code H) Mounting : F-1 No load current : 4.40 A Rotation¹ : Both (CW and CCW) Rated speed : 1765 rpm Noise level² : 58.0 dB(A) Starting method Slip : 1.94 % : Direct On Line Rated torque : 29.8 ft.lb Approx. weight³ : 234 lb Locked rotor torque : 210 % Breakdown torque : 270 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 1.34 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 91.7 : 336 lb Efficiency (%) 89.4 90.2 91.0 Max. traction : 570 lb Power Factor 0.39 0.81 0.62 0.75 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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DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer		

Thermal i	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



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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 14328455 Catalog #: 01018XT3H215TC TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 29.8 ft.lb ◆ Current - 1 p.u. = 10.2 A (575 V) Performance : 575 V 60 Hz 4P Rated current : 10.2 A Moment of inertia (J) : 1.34 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 29.8 ft.lb : F Locked rotor torque : 210 % Service factor : 1.15 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B Locked rotor time : 27s (cold) 15s (hot) Rev. Performed Checked Date **Changes Summary**

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

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Product line : NEMA Premium Efficiency Three- Product code :

Phase

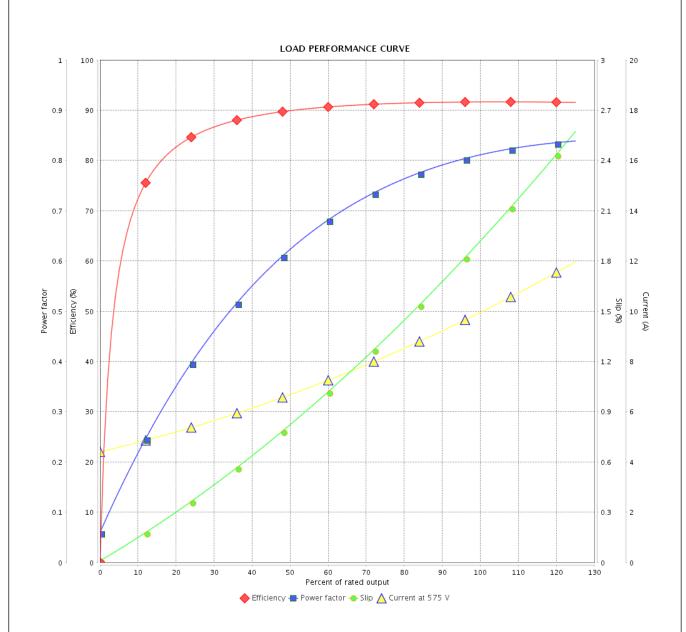
14328455

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Performance		: 575 V 60 Hz 4P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 10.2 A : 6.5 : 29.8 ft.lb : 210 % : 270 % : 1765 rpm] - -	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 1.34 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



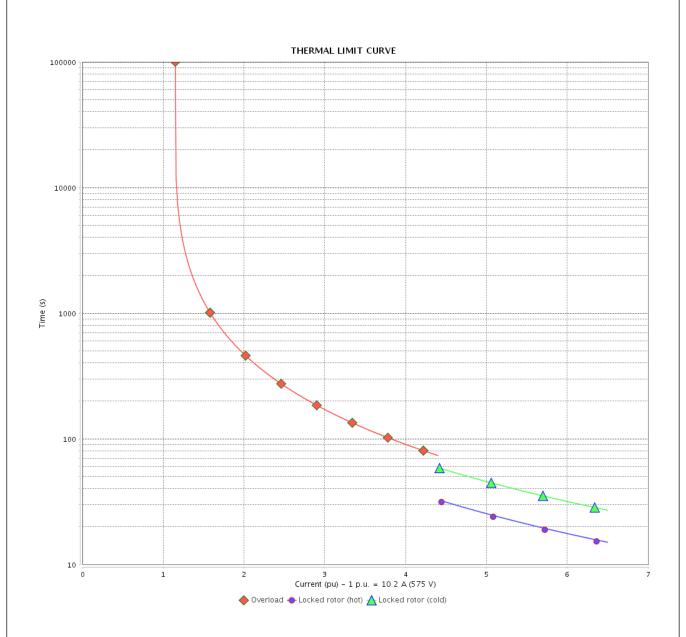
Customer	:					
Product line	: î Pl	NEMA Premium Efficiency ⁻ hase		Product code : Catalog # :	14328455 01018XT3H2	215TC
Performance	: 57	75 V 60 Hz 4P				
Rated current : LRC : Rated torque : Locked rotor torque : Breakdown torque : Rated speed :		75 V 60 H2 4P 0.2 A .5 9.8 ft.lb 10 % 70 % 765 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ictor	: 1.34 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating 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

Performed by Checked by

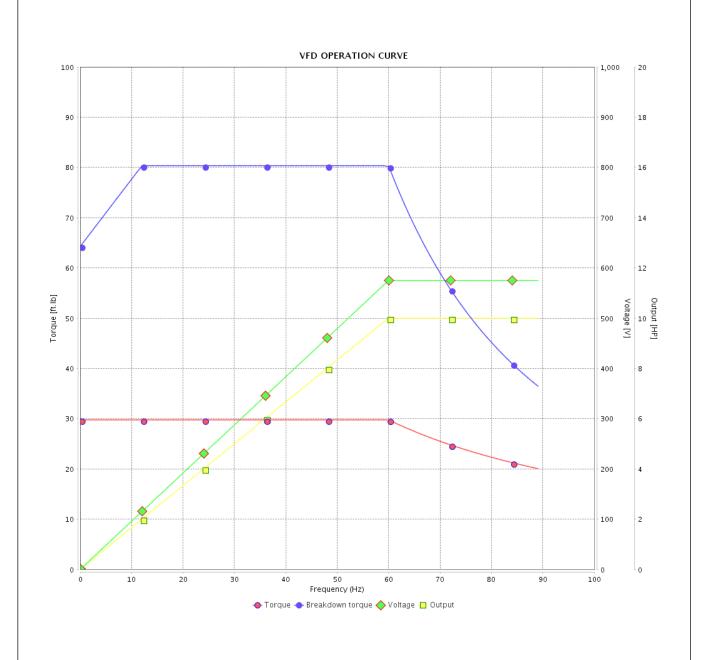
Date

12/04/2022

Product line : NEMA Premium Efficiency Three- Product code : 14328455

Phase

Catalog #: 01018XT3H215TC



Performance	:	575 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		10.2 A 6.5 29.8 ft.lb 210 % 270 % 1765 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		
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