DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11508504 Catalog #: 05012XT3H365T Frame : 364/5T Locked rotor time : 36s (cold) 20s (hot) Output : 50 HP (37 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 : 46.5 A Protection degree : IP55 L. R. Amperes : 344 A Cooling method : IC411 - TEFC : 7.4x(Code H) LRC Mounting : F-1 No load current : 19.2 A Rotation¹ : Both (CW and CCW) Rated speed : 1185 rpm Noise level² : 65.0 dB(A) Starting method Slip : 1.25 % : Direct On Line Rated torque : 222 ft.lb Approx. weight³ : 1017 lb Locked rotor torque : 260 % Breakdown torque : 280 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 29.4 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads Efficiency (%) 93.5 93.6 94.1 94.1 Max. traction : 1618 lb Power Factor 0.85 0.44 0.71 0.81 Max. compression : 2634 lb Non drive end Drive end 6314 C3 Bearing type 6314 C3 Oil Seal Sealing Lip Seal Lubrication interval 14267 h 14267 h Lubricant amount 27 g 27 g 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



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Customer	
Customer	-

Thermal protection

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: 11508504 Catalog #: 05012XT3H365T TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 222 ft.lb ◆ Current - 1 p.u. = 46.5 A (575 V) Performance : 575 V 60 Hz 6P Rated current : 46.5 A Moment of inertia (J) : 29.4 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 222 ft.lb Insulation class : F Rated torque : 260 % Locked rotor torque Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1185 rpm Design : B Locked rotor time : 36s (cold) 20s (hot) Rev. **Changes Summary** Performed Checked Date

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Performed by

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

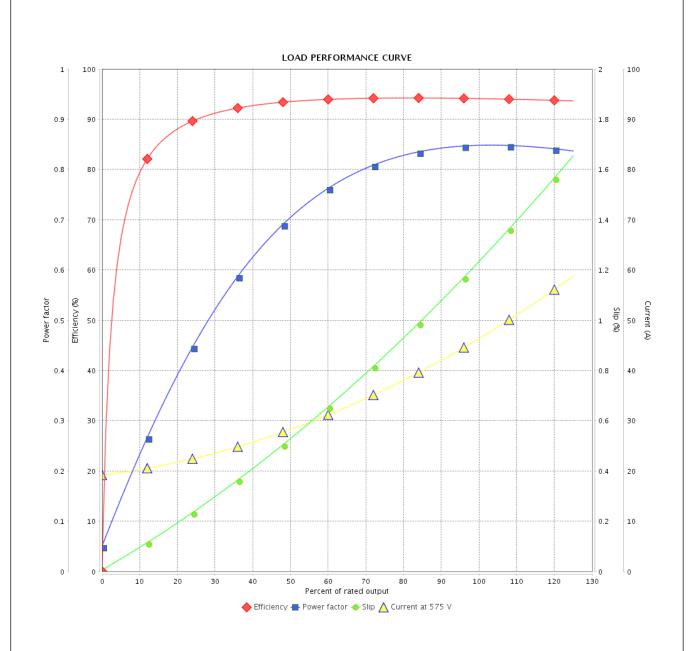


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11508504

Phase

Catalog #: 05012XT3H365T



Performance	: 5	75 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7 : 2 que : 2 ue : 2	6.5 A .4 22 ft.lb 60 % 80 % 185 rpm	Moment of Duty cycle Insulation Service far Temperature Design	class ctor	: 29.4 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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Date

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



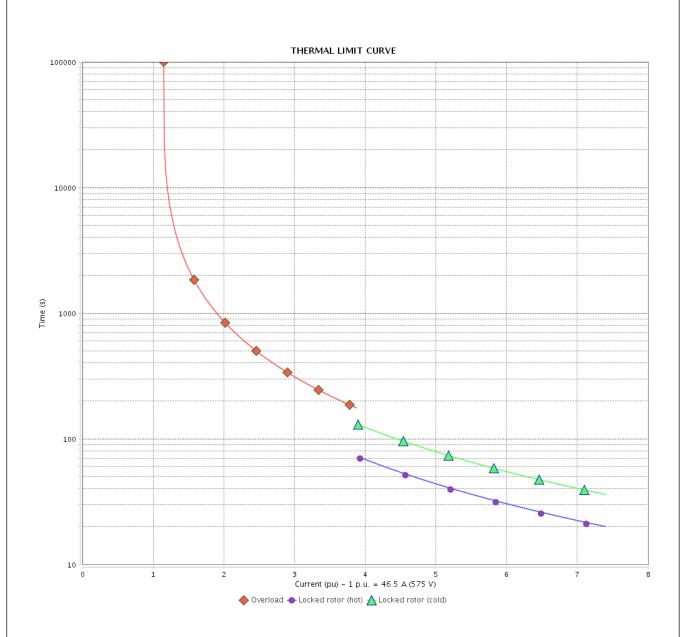
Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	11508504	
1 Toddot IIIIc		hase				
				Catalog # :	05012XT3H3	65T
Performance		575 V 60 Hz 6P				
Rated current		6.5 A	Momont	of inertia (J)	: 29.4 sq.ft.lb	
LRC	: 7	['] .4	Duty cycle	е	: Cont.(S1)	
Rated torque		222 ft.lb 260 %	Insulation		: F : 1.15	
Locked rotor tord Breakdown torqu	iue : 2 ie : 2	80 %	Service fa Temperat		: 1.15 : 80 K	
Rated speed		185 rpm	Design		: B	
Heating constan						
Cooling constan						
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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

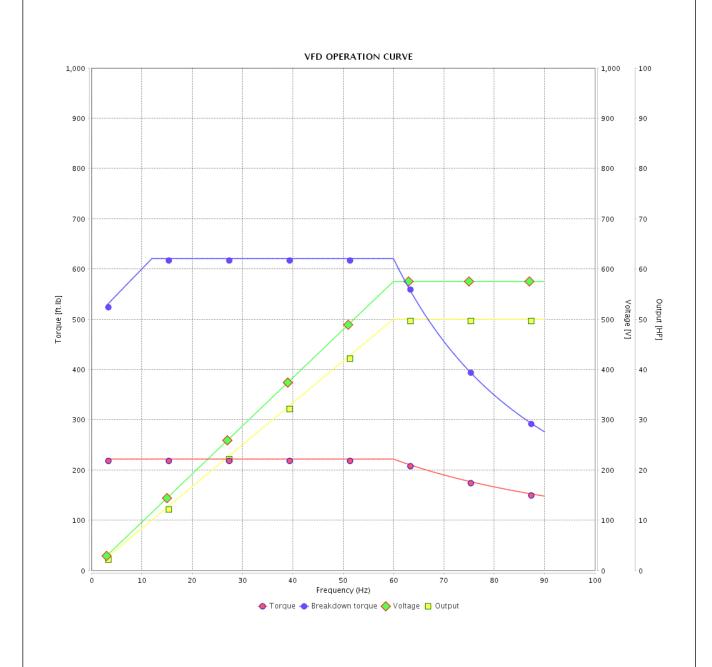


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11508504

Phase

Catalog #: 05012XT3H365T



Performance	: 5	75 V 60 Hz 6P				
Rated current : 46.5 A		Moment of	Moment of inertia (J)			
LRC	: 7.	.4	Duty cycle)	: Cont.(S1)	
Rated torque	: 2:	22 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 20	60 %	Service fa	ctor	: 1.15	
Breakdown torque	: 28	80 %	Temperature rise		: 80 K	
Rated speed	: 1	185 rpm	Design		: B	
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