### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11360897 Catalog #: 10036XT3H405TS Frame : 404/5TS Locked rotor time : 37s (cold) 21s (hot) Output : 100 HP (75 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 : 88.0 A Protection degree : IP55 L. R. Amperes : 572 A Cooling method : IC411 - TEFC LRC : 6.5x(Code G) Mounting : F-1 No load current : 20.0 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 3550 rpm Noise level<sup>2</sup> : 85.0 dB(A) Starting method Slip : 1.39 % : Direct On Line Rated torque : 148 ft.lb Approx. weight<sup>3</sup> : 1186 lb Locked rotor torque : 250 % Breakdown torque : 280 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 13.2 sq.ft.lb Design : B 50% 75% 100% Output Foundation loads 95.0 : 649 lb Efficiency (%) 93.6 95.0 Max. traction Power Factor 0.89 0.90 : 1835 lb 0.85 Max. compression Non drive end Drive end Bearing type 6314 C3 6314 C3 Sealing Oil Seal Lip Seal Lubrication interval 3604 h 3604 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



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: 11360897 Catalog #: 10036XT3H405TS 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. = 148 ft.lb ◆ Current - 1 p.u. = 88.0 A (575 V) Performance : 575 V 60 Hz 2P Rated current : 88.0 A Moment of inertia (J) : 13.2 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 148 ft.lb : F Locked rotor torque : 250 % Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 3550 rpm Design : B Locked rotor time : 37s (cold) 21s (hot) Changes Summary Rev. Performed Checked Date

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### LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage

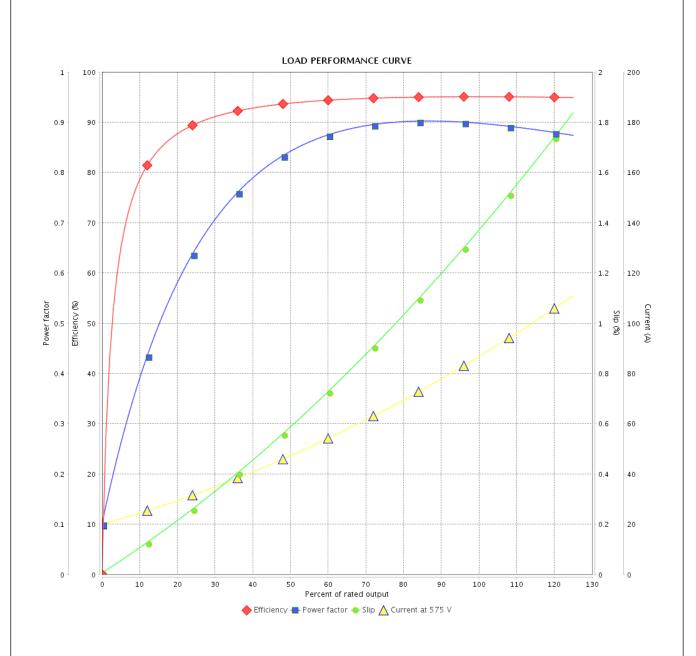


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11360897

Phase

Catalog #: 10036XT3H405TS



Performance	: 575 V 60 Hz 2P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 88.0 A : 6.5 : 148 ft.lb : 250 % : 280 % : 3550 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 13.2 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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## THERMAL LIMIT CURVE

#### Three Phase Induction Motor - Squirrel Cage



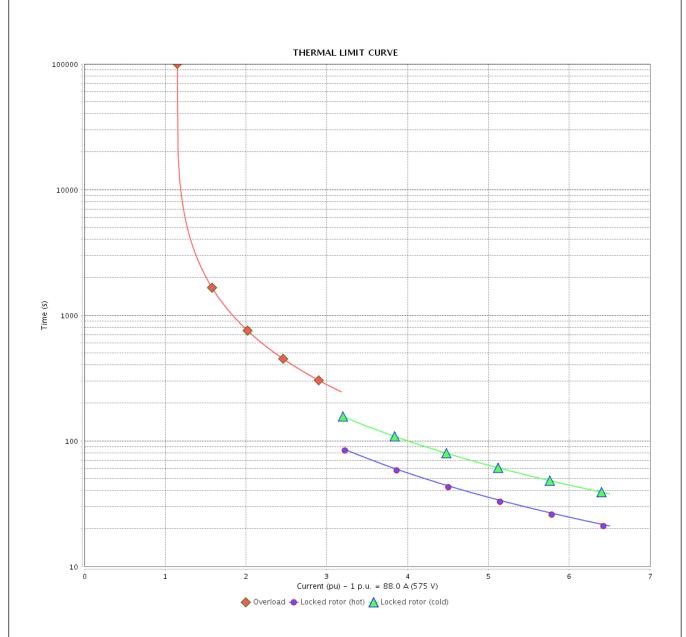
Customer	:					
Product line		NEMA Premium Efficiency in the contract of the	Three-	Product code : Catalog # :	11360897 10036XT3H4	105TS
Performance	: 57	75 V 60 Hz 2P				
Rated current		8.0 A	Moment o	of inertia (J)	: 13.2 sq.ft.lb	
LRC Rated torque	: 6. : 14	.5 48 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor tord		50 %	Service fa		: 1.15	
Breakdown torqu Rated speed		80 % 550 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constant						
Cooling 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

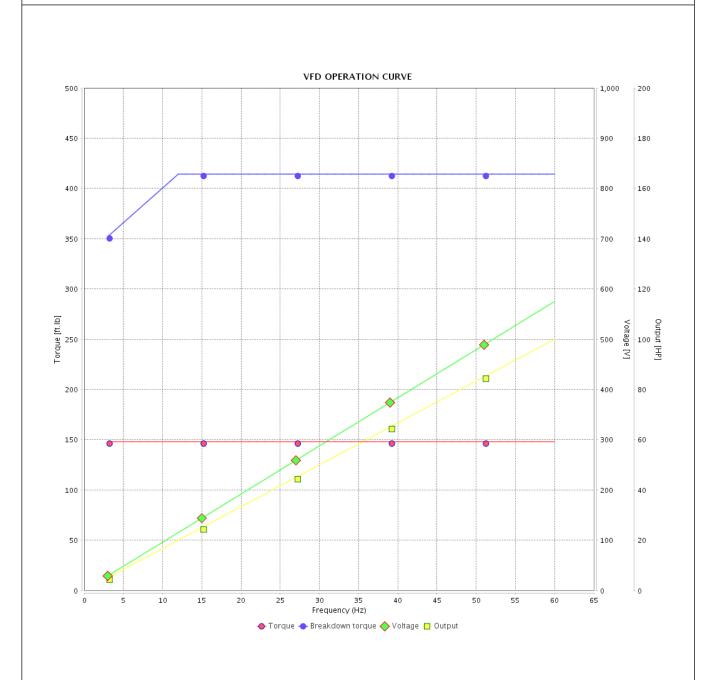
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 11360897

10036XT3H405TS

Catalog #:



Performance	:	575 V 60 Hz 2P					
Rated current :		88.0 A	Moment o	Moment of inertia (J)			
LRC : 6.		6.5	Duty cycle	Duty cycle			
Rated torque : 1		148 ft.lb	Insulation	Insulation class			
•		250 %	Service fa	Service factor			
Breakdown torque		280 %	Temperati	Temperature rise		: 80 K	
Rated speed	:	3550 rpm	Design	Design			
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