### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 14189383 Catalog #: 00736XT3H213T Frame : 213/5T Locked rotor time : 41s (cold) 23s (hot) Output : 7.5 HP (5.5 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 : 6.86 A Protection degree : IP55 L. R. Amperes : 48.0 A Cooling method : IC411 - TEFC : 7.0x(Code H) LRC Mounting : F-1 No load current : 2.24 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 3525 rpm Noise level<sup>2</sup> : 72.0 dB(A) Starting method Slip : 2.08 % : Direct On Line Rated torque : 11.2 ft.lb Approx. weight<sup>3</sup> : 204 lb Locked rotor torque : 240 % Breakdown torque : 330 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.4696 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 85.5 : 106 lb Efficiency (%) 84.3 88.5 89.5 Max. traction : 309 lb Power Factor 0.87 0.90 0.53 0.78 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	
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

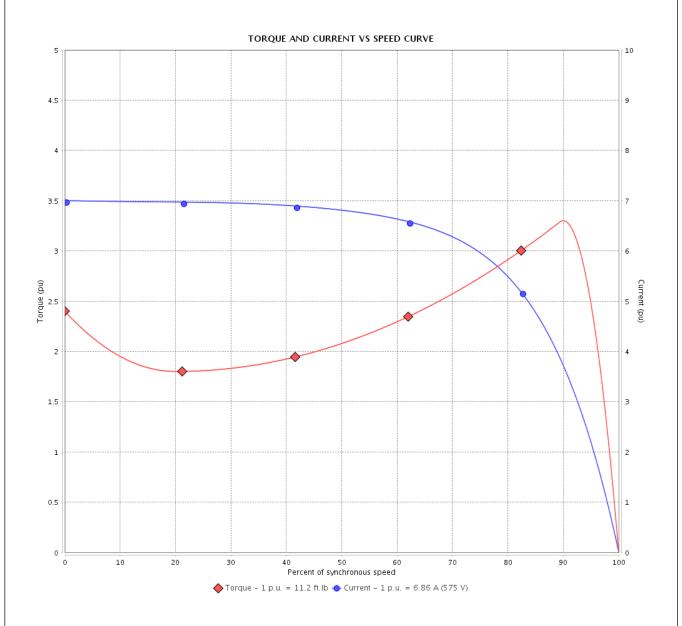
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14189383

Catalog #: 00736XT3H213T



Performance	: 575 V 60 Hz 2P		
Rated current	: 6.86 A	Moment of inertia (J)	: 0.4696 sq.ft.lb
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 11.2 ft.lb	Insulation class	:F ` ´
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 3525 rpm	Design	: B
Locked rotor time	· 41s (cold) 23s (hot)		

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### LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



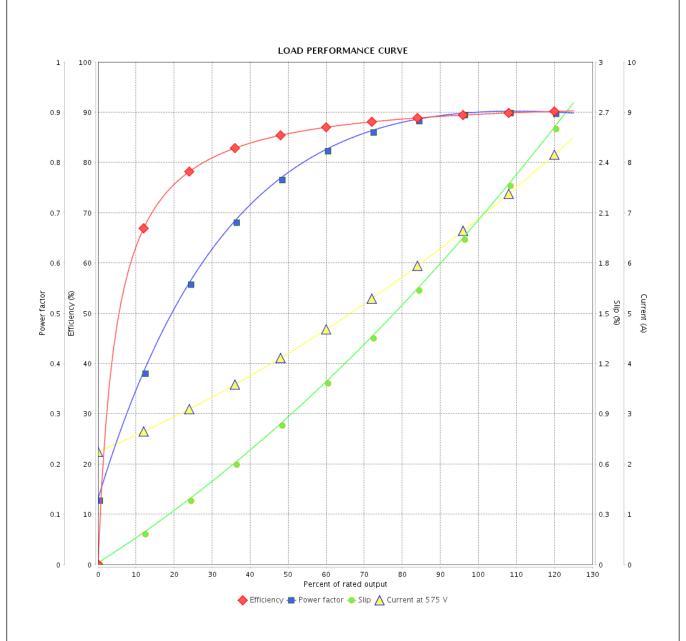
Customer :

Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 14189383

Catalog #: 00736XT3H213T



Performance	: 575 V 60 Hz 2P				
Rated current	: 6.86 A	Moment of inertia (J) : 0.4696 sq.ft.lb  Duty cycle : Cont.(S1)  Insulation class : F  Service factor : 1.15  Temperature rise : 80 K  Design : B		lb	
LRC	: 7.0			Duty cycle : Cont.(S1)	
Rated torque	: 11.2 ft.lb			: F	
Locked rotor torque	: 240 %				
Breakdown torque	: 330 %				
Rated speed	: 3525 rpm			: B	
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## THERMAL LIMIT CURVE

#### Three Phase Induction Motor - Squirrel Cage



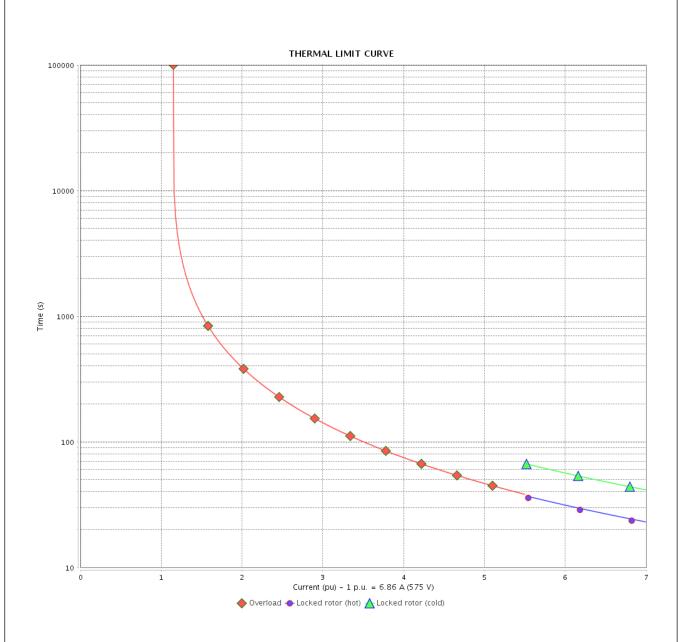
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Product line	: ì Pi	NEMA Premium Efficiency <sup>-</sup> hase		Product code : Catalog # :	14189383 00736XT3H	213T
Performance		75 V 60 Hz 2P	Mamonta	finantia (I)	· 0.4606.cc.#	lh.
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7. : 11 que : 2 <sup>2</sup> ue : 33	86 A 0 1.2 ft.lb 40 % 30 % 525 rpm	Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.4696 sq.ft. : Cont.(S1) : F : 1.15 : 80 K : B	IU
Heating constant						
Cooling constant		Changes Summary		Performed	Checked	Date
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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



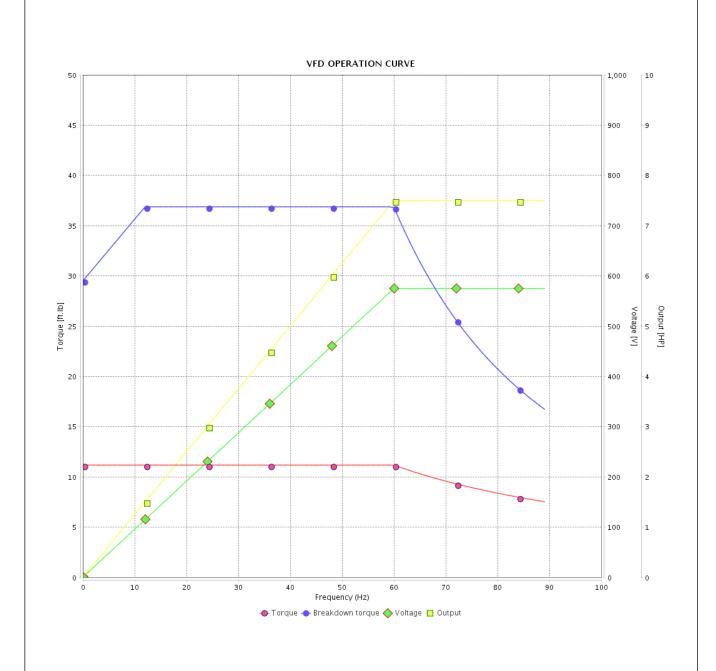
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00736XT3H213T

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					<del></del>	
Performance		75 V 60 Hz 2P				
Rated current	: 6.	86 A	Moment o	f inertia (J)	: 0.4696 sq.ft.lb	
LRC : 7.		0	Duty cycle	)	: Cont.(S1)	
Rated torque	: 1	I.2 ft.lb	Insulation	Insulation class		
Locked rotor tord	que : 24	40 %	Service fa	Service factor		
Breakdown torqu	ie : 33	30 %	Temperati	ature rise : 80 K		
Rated speed	: 3	525 rpm Design			: B	
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