## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14188207

Catalog #: 00736XT3E213T

Frame : 213/5T Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW)

: -20°C to +40°C Starting method Ambient temperature : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 205 lb Protection degree : IP55 Moment of inertia (J) : 0.4696 sa.ft.lb

Design	E	: B			90 \$4.11.10
Output [HP]		7.5	7.5 7.5		7.5
Poles		2	2	2	2
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		17.1/8.57	10.3	9.89	9.61
L. R. Amperes [A]		120/60.0	63.9	67.3	71.1
LRC [A]		7.0x(Code H)	6.2x(Code G)	6.8x(Code G)	7.4x(Code H)
No load current [A	]	5.60/2.80	2.70	2.85	2.90
Rated speed [RPI	<b>/</b> []	3525	2900	2910	2920
Slip [%]		2.08	3.33	3.00	2.67
Rated torque [ft.lb]		11.2	13.6	13.5	13.5
Locked rotor torqu		240	190	210	290
Breakdown torque	[%]	330	240	270	310
Service factor		1.15	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		41s (cold) 23s (hot)	46s (cold) 26s (hot)	46s (cold) 26s (hot)	46s (cold) 26s (hot)
Noise level <sup>2</sup>		72.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)
	25%	84.3	84.9	85.6	85.3
Efficiency (%)	50%	85.5	86.5	86.5	86.5
Elliciency (70)	75%	88.5	87.5	88.5	88.5
	100%	89.5	89.0	89.2	89.5
	25%	0.53	0.61	0.57	0.55
Power Factor	50%	0.78	0.84	0.81	0.79
1 OWEI FACIOI	75%	0.87	0.89	0.88	0.86
	100%	0.90	0.91	0.90	0.89

Drive end Non drive end Foundation loads

Bearing type 6308 2RS 6207 2RS Max. traction : 133 lb Sealing Oil Seal Lip Seal Max. compression : 338 lb

Lubrication interval Lubricant amount

Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 19.8A SF 1.15 SFA 22.8A

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 protection

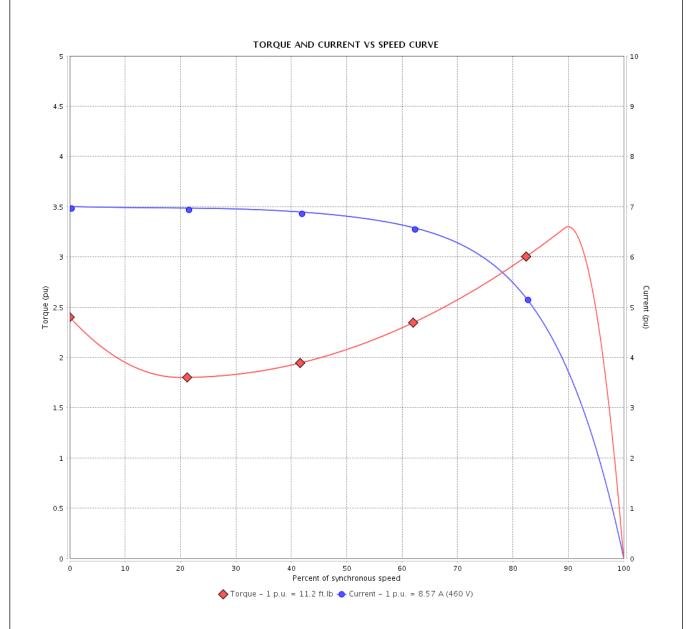
		<u> </u>		
ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 14188207 Catalog #: 00736XT3E213T



Performance : 230/460 V 60 Hz 2P Rated current : 17.1/8.57 A Moment of inertia (J) : 0.4696 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) : 11.2 ft.lb Insulation class : F Rated torque Locked rotor torque : 240 % Service factor : 1.15 Breakdown torque : 330 % Temperature rise : 80 K : B Rated speed : 3525 rpm Design Locked rotor time : 41s (cold) 23s (hot)

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#### Three Phase Induction Motor - Squirrel Cage



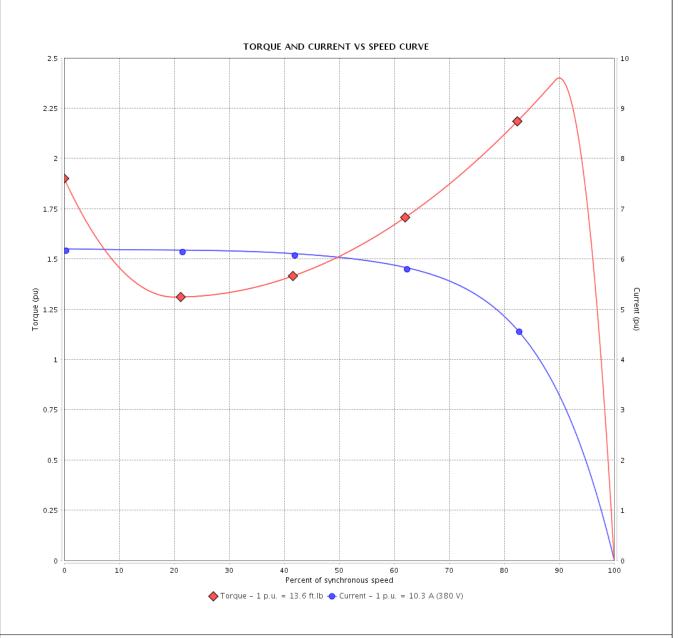
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 14188207

Catalog #: 00736XT3E213T



Performance : 380 V 50 Hz 2P IE2 Rated current : 10.3 A Moment of inertia (J) : 0.4696 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 13.6 ft.lb Service factor Locked rotor torque : 190 % : 1.00 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 2900 rpm Design : B

Locked rotor time : 46s (cold) 26s (hot)

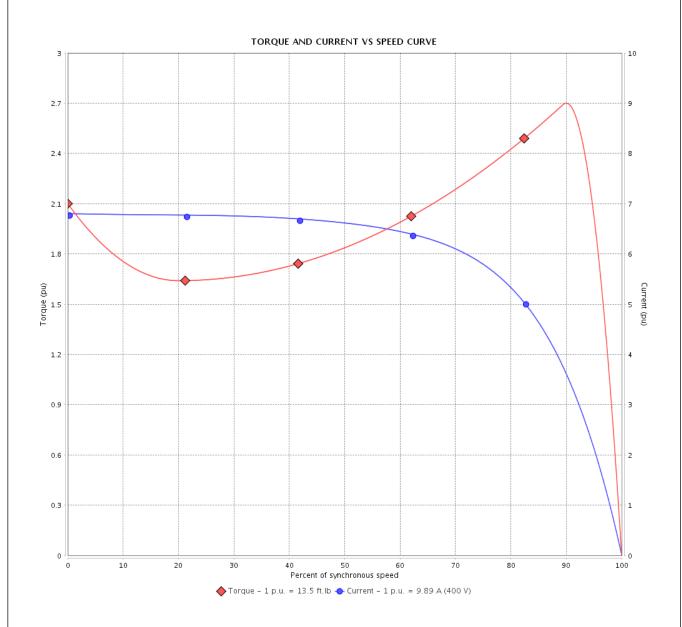
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### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 14188207

> Catalog #: 00736XT3E213T



Performance	: 400 V 50 Hz 2P IE3			
Rated current	: 9.89 A	Moment of inertia (J)	: 0.4696 sq.ft.lb	
LRC	: 6.8	Duty cycle	: Cont.(S1)	
Rated torque	: 13.5 ft.lb	Insulation class	:F	
Locked rotor torque	: 210 %	Service factor	: 1.00	
Breakdown torque	: 270 %	Temperature rise	: 80 K	
Rated speed	: 2910 rpm	Design	: B	
Locked rotor time	: 46s (cold) 26s (hot)			

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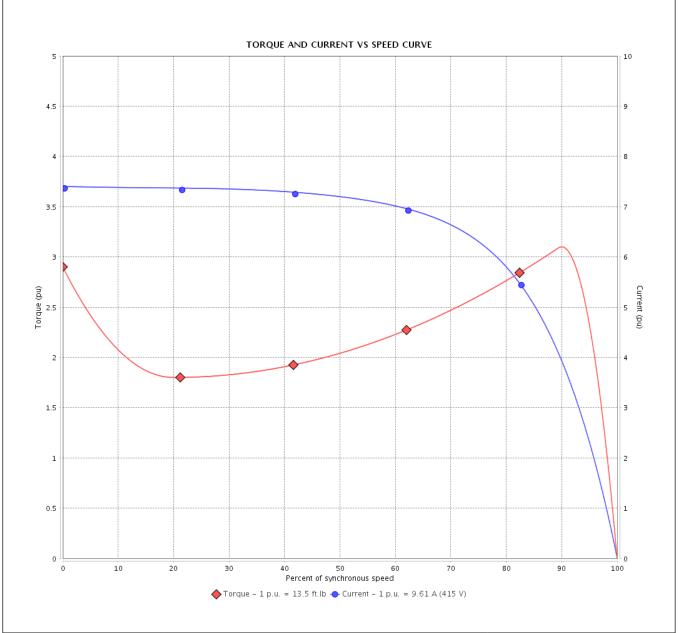
Customer :

Product line : NEMA Premium Efficiency Three- P

Phase

Product code: 14188207

Catalog #: 00736XT3E213T



Performance	: 415 V 50 Hz 2P IE3		
Rated current	: 9.61 A	Moment of inertia (J)	: 0.4696 sq.ft.lb
LRC	: 7.4	Duty cycle	: Cont.(S1)
Rated torque	: 13.5 ft.lb	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 2920 rpm	Design	: B
Locked roter time	: 46s (sold) 26s (bot)	1	

Locked rotor time : 46s (cold) 26s (hot)

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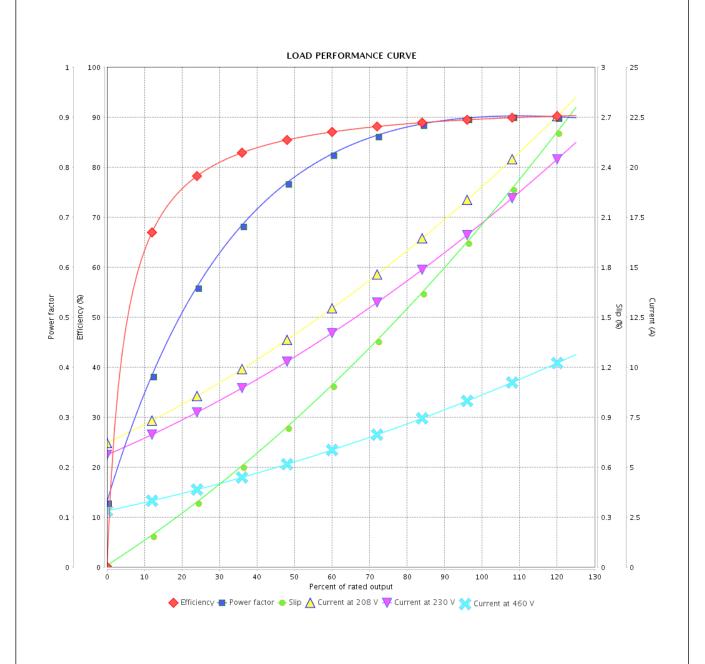


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14188207

Phase

Catalog #: 00736XT3E213T



Performance	:	230/460 V 60 Hz 2P				
Rated current	:	17.1/8.57 A	Moment o	f inertia (J)	: 0.4696 sq.ft.lb	
LRC	:	7.0	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	:	11.2 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	240 %	Service factor		: 1.15	
Breakdown torque	:	330 %	Temperature rise		: 80 K	
Rated speed	:	3525 rpm	Design		: B	
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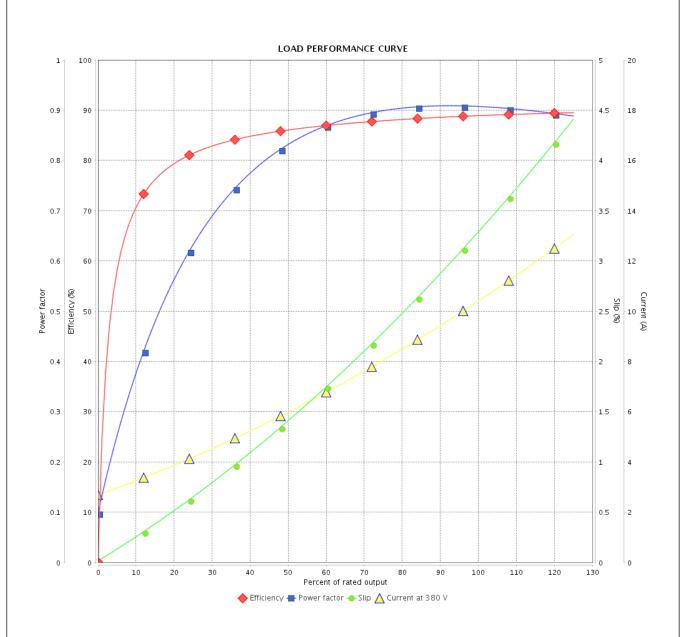
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14188207

Catalog #: 00736XT3E213T



Performance : 380 V 50 Hz 2P IE2 : 10.3 A Rated current Moment of inertia (J) : 0.4696 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) : 13.6 ft.lb Insulation class Rated torque : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 2900 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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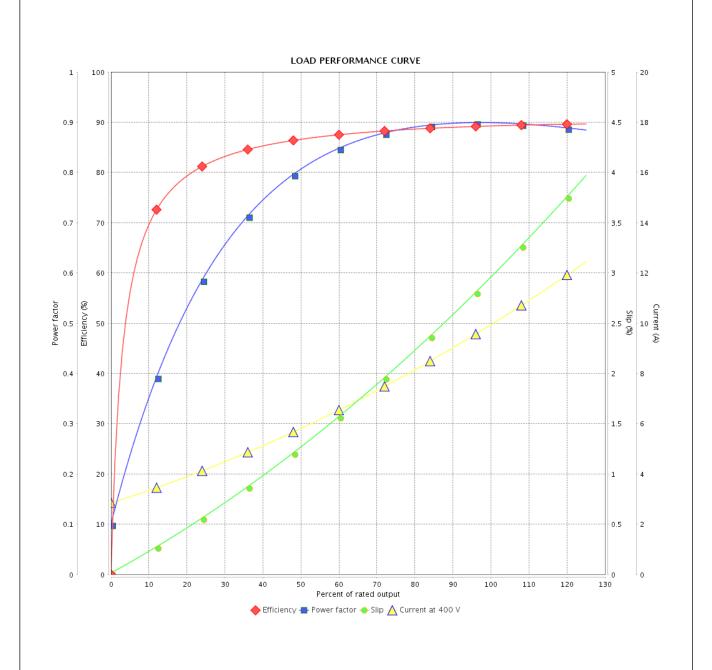
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00736XT3E213T

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Performance	: 400 V 50 Hz 2P IE3	P IE3			
Rated current	: 9.89 A	Moment of inertia (J)		: 0.4696 sq.ft.	lb
LRC	: 6.8	Duty cycle Insulation class Service factor Temperature rise Design		: Cont.(S1) : F : 1.00 : 80 K : B	
Rated torque	: 13.5 ft.lb				
Locked rotor torque	: 210 %				
Breakdown torque	: 270 %				
Rated speed	: 2910 rpm				
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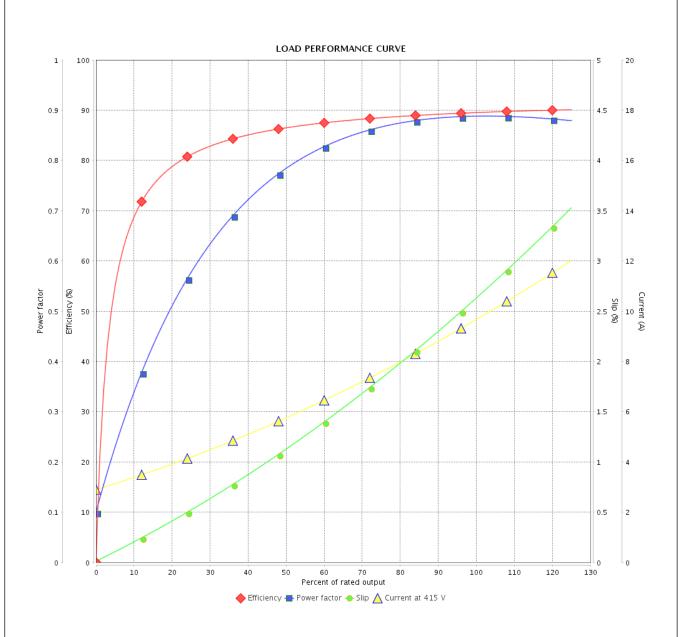
Customer :

Product line : NEMA Premium Efficiency Three- Pr

Phase

Product code: 14188207

Catalog #: 00736XT3E213T



Performance	: 415 V 50 Hz 2P IE3				
Rated current	: 9.61 A Moment of inertia (J)		f inertia (J)	: 0.4696 sq.ft.lb	
LRC	: 7.4	Duty cycle		: Cont.(S1)	
Rated torque	: 13.5 ft.lb	Insulation class : F Service factor : 1 Temperature rise : 8		: F : 1.00 : 80 K	
Locked rotor torque	: 290 %				
Breakdown torque	: 310 %				
Rated speed	: 2920 rpm			: B	
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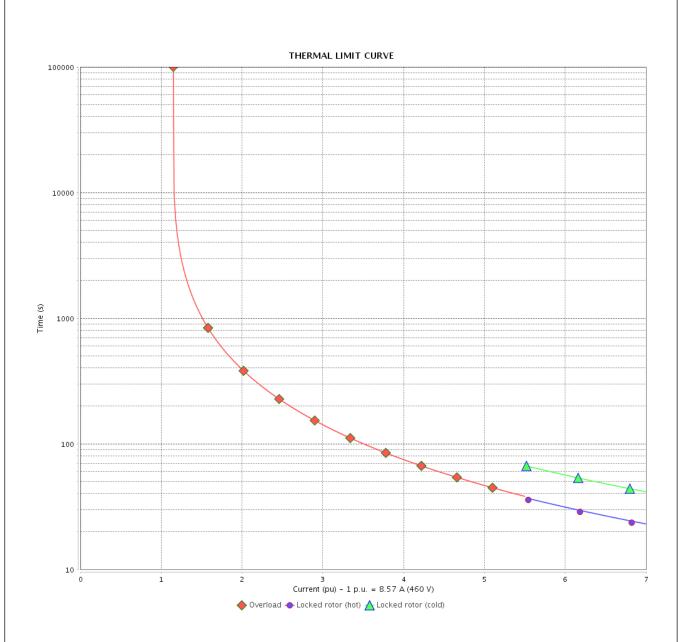


Customer	:					
Product line	: î Pl	NEMA Premium Efficiency <sup>-</sup> hase		Product code : Catalog # :	14188207 00736XT3E	213T
Performance		30/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7. : 11 que : 2 <sup>2</sup> ue : 33	7.1/8.57 A 0 1.2 ft.lb 40 % 30 % 525 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ictor	: 0.4696 sq.ft. : Cont.(S1) : F : 1.15 : 80 K : B	lb
Heating constant						
Cooling constant		Changes Summary		Performed	Checked	Date
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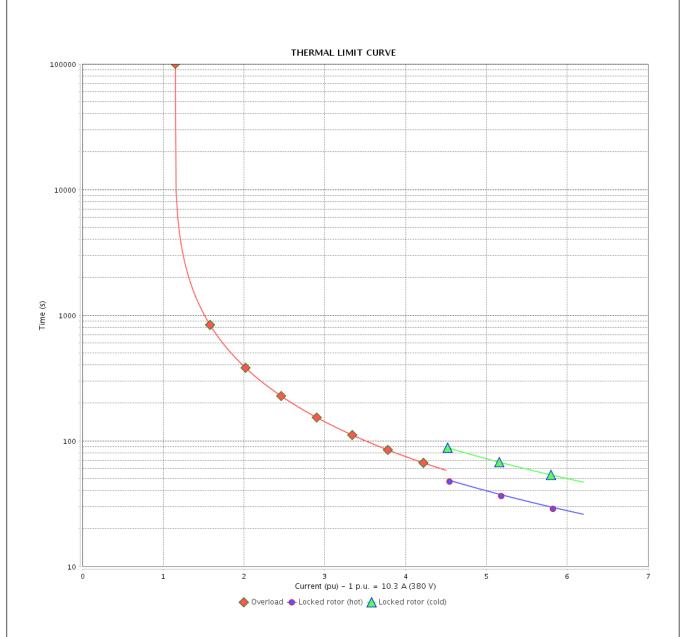


Customer	:					
Product line	: I P	NEMA Premium Efficiency hase		Product code : Catalog # :	14188207 00736XT3E	213T
					SONOCHISE	
Performance Rated current LRC Rated torque	: 10 : 6.	80 V 50 Hz 2P IE2 0.3 A .2 3.6 ft.lb	Moment of Duty cycle Insulation		: 0.4696 sq.ft. : Cont.(S1) : F	lb
Locked rotor toro Breakdown torqu Rated speed Heating constant	que : 19 ue : 24 : 29	90 % 40 % 900 rpm	Service fa Temperati Design	ector	: 1.00 : 80 K : B	
Cooling constant						
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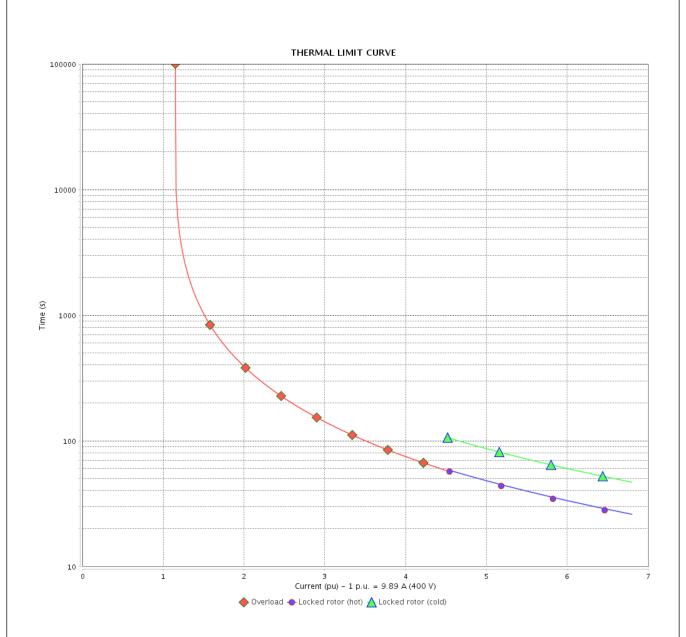


Customer	:					
Product line	:	NEMA Premium Efficiency	Three-	Product code :	14188207	
		hase		Catalog # :	00736XT3E2	)13T
Performance Rated current RC Rated torque ocked rotor torc	: 9 : 6 : 1 que : 2	3.5 ft.lb 10 %	Duty cycle Insulation Service fa	class actor	: 0.4696 sq.ft.l : Cont.(S1) : F : 1.00	lb
Breakdown torqu Rated speed Heating constan	: 2 : 2	70 % 910 rpm	Temperat Design	ure rise	: 80 K : B	
Cooling constant		Changes Summary		Performed	Checked	Date
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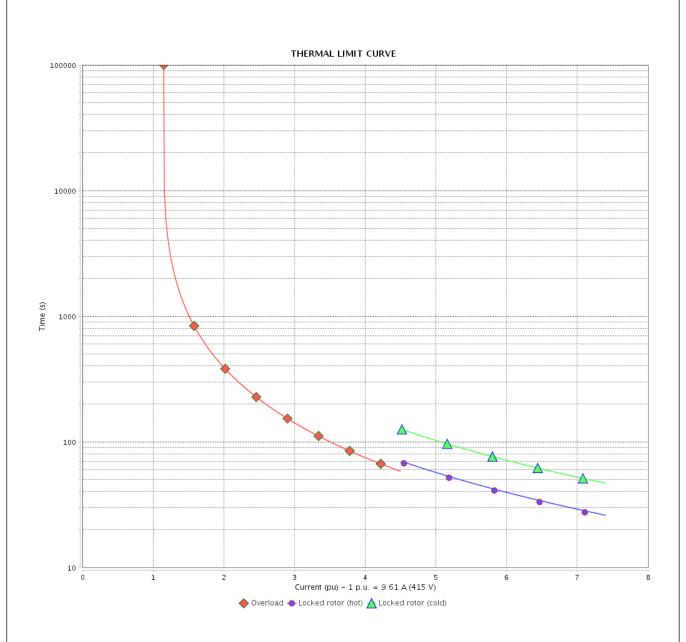


Customer	:					
Product line	: I P	NEMA Premium Efficiency hase		Product code : Catalog # :	14188207 00736XT3E	213T
					SOFSONTOL	
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 9. : 7. : 13 que : 29 ue : 3	15 V 50 Hz 2P IE3  .61 A .4 3.5 ft.lb 90 % 10 % 920 rpm	Moment of Duty cycle Insulation Service far Temperation Design	class actor	: 0.4696 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : B	lb
Heating constant						
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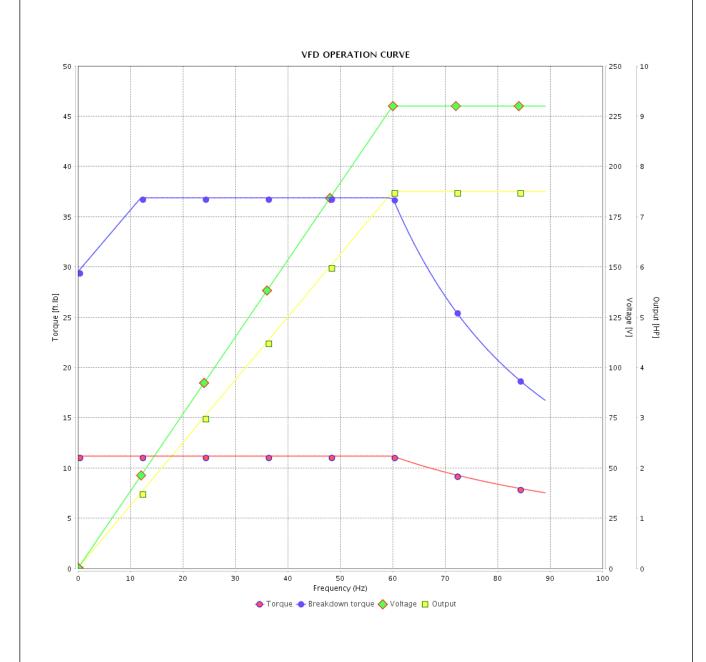
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00736XT3E213T

14188207



Performance	:	230/460 V 60 Hz 2P				
Rated current	:	17.1/8.57 A Moment of in		f 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	e :	240 %	Service factor		: 1.15	
Breakdown torque	:	330 %	Temperature rise		: 80 K	
Rated speed		: 3525 rpm Desig			: B	
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Product line : NEMA Premium Efficiency Three- Product code :

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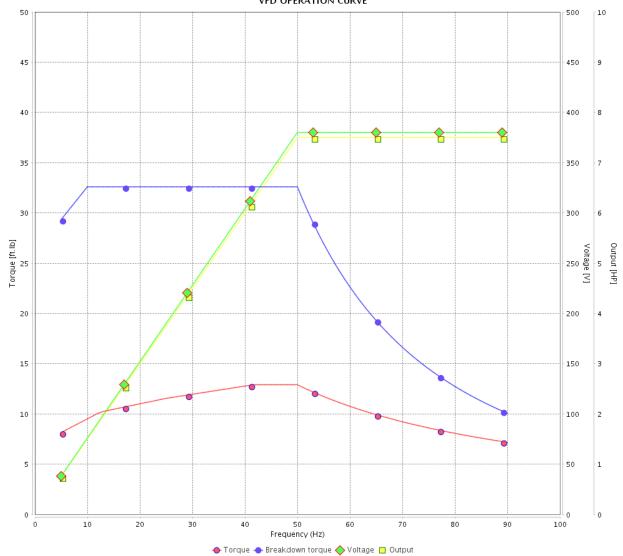
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Performance		: 380 V 50 Hz 2P I	IE2			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 10.3 A : 6.2 : 13.6 ft.lb : 190 % : 240 % : 2900 rpm	Duty cyc Insulatio Service	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		.lb
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### Three Phase Induction Motor - Squirrel Cage



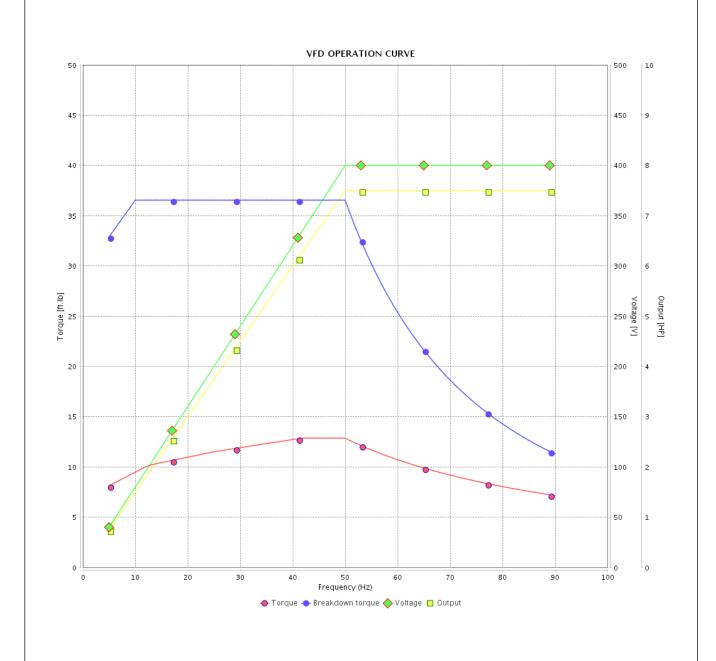
Customer

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14188207

Catalog #: 00736XT3E213T



Performance		: 400 V 50 Hz 2P IE3						
Rated current	:	9.89 A	Moment o	Moment of inertia (J)		: 0.4696 sq.ft.lb		
LRC	:	6.8	Duty cycle	Duty cycle		: Cont.(S1)		
Rated torque	:	13.5 ft.lb	Insulation class		: F			
Locked rotor torqu	ie :	210 %	Service factor		: 1.00			
Breakdown torque	:	270 %	Temperati	Temperature rise				
Rated speed	:	2910 rpm Design		: B				
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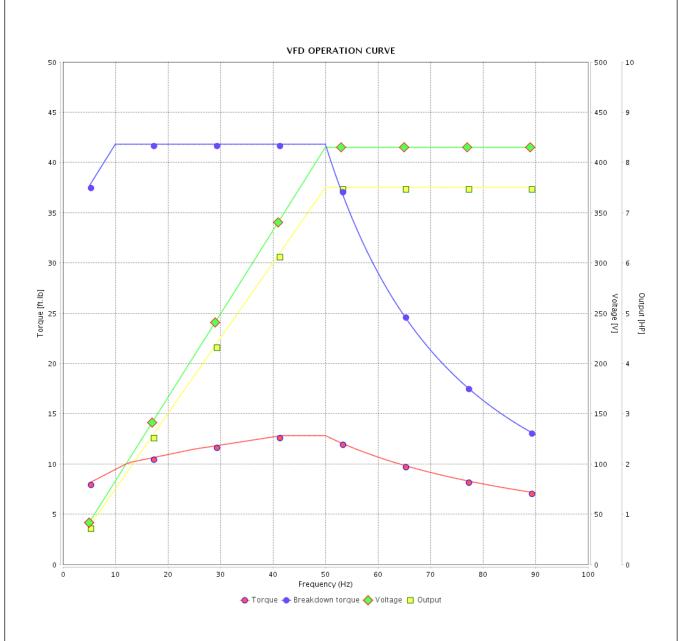
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14188207

Catalog #: 00736XT3E213T



Performance	: 415 V 50 Hz 2P IE3	: 415 V 50 Hz 2P IE3							
Rated current	: 9.61 A	Moment of inertia (J)		: 0.4696 sq.ft.lb					
LRC	: 7.4	Duty cycle		: Cont.(S1)					
Rated torque	: 13.5 ft.lb	Insulation class		: F					
Locked rotor torque	: 290 %	Service factor		: 1.00					
Breakdown torque	: 310 %	Temperature rise		: 80 K					
Rated speed	: 2920 rpm	Design		: B					
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