### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14443177

Phase

Catalog #: 02536XT3E284TS

Frame : 284TS Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

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

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

Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 463 lb

Protection degree		: IP55	Moment of ine	ertia (J)	sq.ft.lb
Design		: B			
Output [HP]		25	25	25	25
Poles		2	2	2	2
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		57.2/28.6	34.7	33.1	31.7
L. R. Amperes [A]		383/192	184	195	276
LRC [A]		6.7x(Code G)	5.3x(Code E)	5.9x(Code F)	8.7x(Code J)
No load current [A]	]	13.0/6.50	6.00	6.50	7.00
Rated speed [RPM	1]	3545	2920	2930	2940
Slip [%]		1.53	2.67	2.33	2.00
	Rated torque [ft.lb]		45.0	44.8	44.7
Locked rotor torque [%]		240	180	210	229
Breakdown torque [%]		240	180	200	220
Service factor		1.15	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		104s (cold) 58s (hot)	57s (cold) 32s (hot)	59s (cold) 33s (hot)	59s (cold) 33s (hot)
Noise level <sup>2</sup>		75.0 dB(A)	70.0 dB(A)	70.0 dB(A)	70.0 dB(A)
	25%	91.5	92.1	91.5	90.9
Temperature rise Locked rotor time	50%	91.7	91.7	91.7	91.7
Liliciency (70)	75%	92.4	91.7	91.7	91.7
	100%	92.4	91.0	91.7	92.4
	25%	0.57	0.64	0.61	0.57
Power Factor	50%	0.78	0.82	0.80	0.77
I OWEI FACIOI	75%	0.85	0.87	0.86	0.85
	100%	0.88	0.89	0.88	0.88

Drive end Non drive end Foundation loads

14226 h

Bearing type : 6311 C3 6211 C3 Max. traction : 197 lb Sealing : Oil Seal Lip Seal Max. compression : 660 lb

Lubricant amount : 18 g 11 g Lubricant type : Mobil Polyrex EM

11517 h

Notes

Lubrication interval

USABLE @208V 62.8A SF 1.10 SFA 69.0A

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



Customer		

Thermal	protection
HIIGHIIIAI	protection

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

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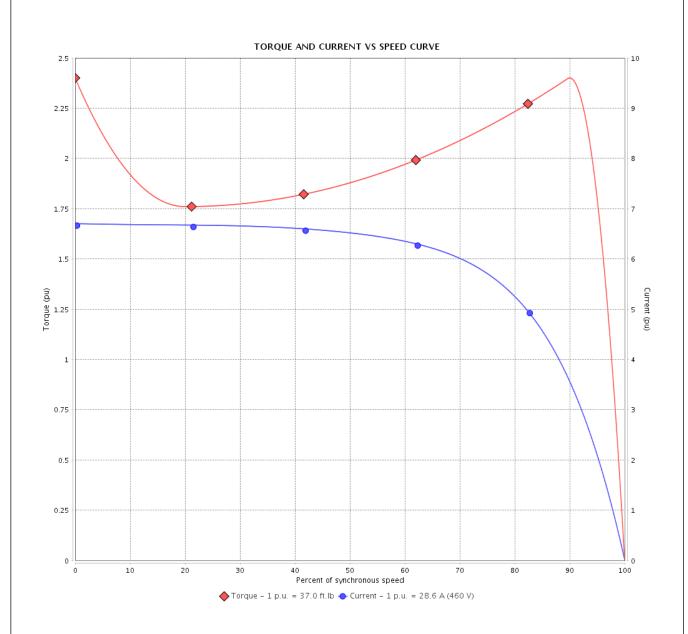
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14443177

Catalog #: 02536XT3E284TS



Performance : 230/460 V 60 Hz 2P Rated current : 57.2/28.6 A Moment of inertia (J) : 2.58 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 37.0 ft.lb Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.15 Breakdown torque : 240 % Temperature rise : 80 K : B Rated speed : 3545 rpm Design Locked rotor time

: 104s (cold) 58s (hot)

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#### Three Phase Induction Motor - Squirrel Cage



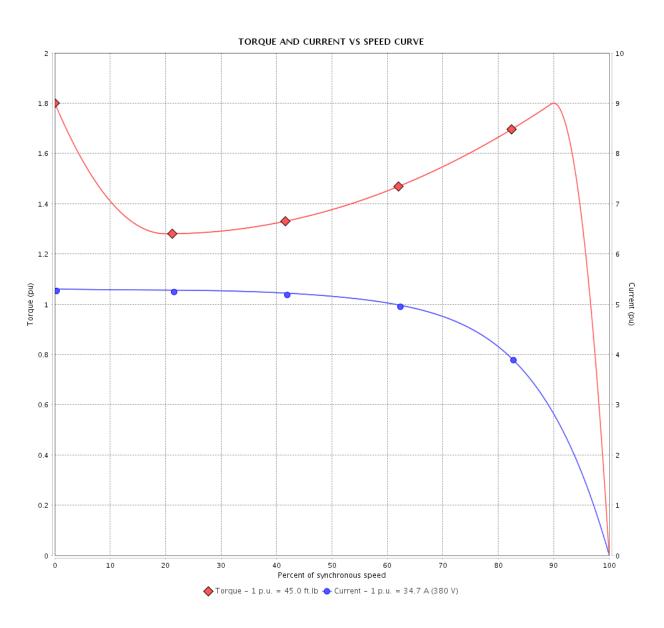
Customer :

Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 14443177

Catalog #: 02536XT3E284TS



Performance : 380 V 50 Hz 2P IE2 Rated current : 34.7 A Moment of inertia (J) : 2.58 sq.ft.lb **LRC** : 5.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 45.0 ft.lb : F Service factor Locked rotor torque : 180 % : 1.00 Breakdown torque : 180 % Temperature rise : 80 K Rated speed : 2920 rpm Design : B

Locked rotor time : 57s (cold) 32s (hot)

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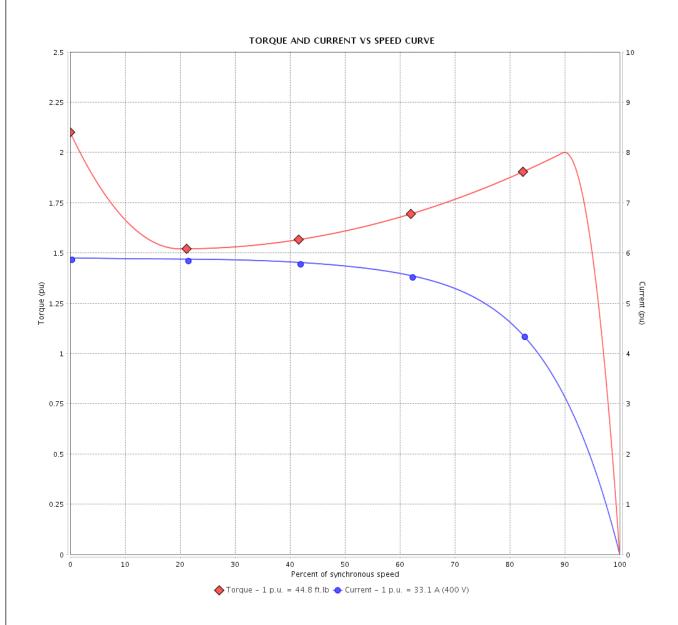
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14443177

Catalog #: 02536XT3E284TS



Performance	: 400 V 50 Hz 2P IE2		
Rated current	: 33.1 A	Moment of inertia (J)	: 2.58 sq.ft.lb
LRC	: 5.9	Duty cycle	: Cont.(S1)
Rated torque	: 44.8 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 80 K
Rated speed	: 2930 rpm	Design	: B
Locked rotor time	: 59s (cold) 33s (hot)		

Lookou rotor time		30 (0014) 000 (1101)			
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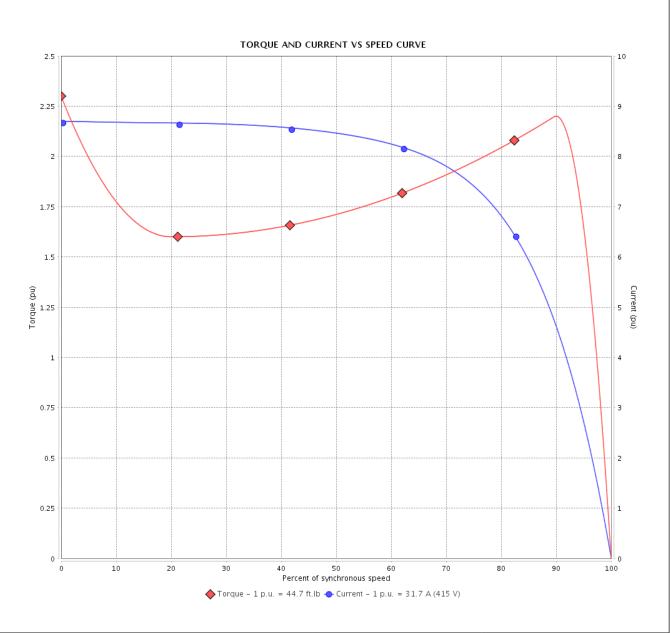
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14443177

Catalog #: 02536XT3E284TS



Performance : 415 V 50 Hz 2P IE3 Rated current : 31.7 A Moment of inertia (J) : 2.58 sq.ft.lb **LRC** : 8.7 Duty cycle : Cont.(S1) : 44.7 ft.lb Insulation class Rated torque : F : 229 % Service factor Locked rotor torque : 1.00 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 2940 rpm Design : B

Locked rotor time : 59s (cold) 33s (hot)

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### Three Phase Induction Motor - Squirrel Cage



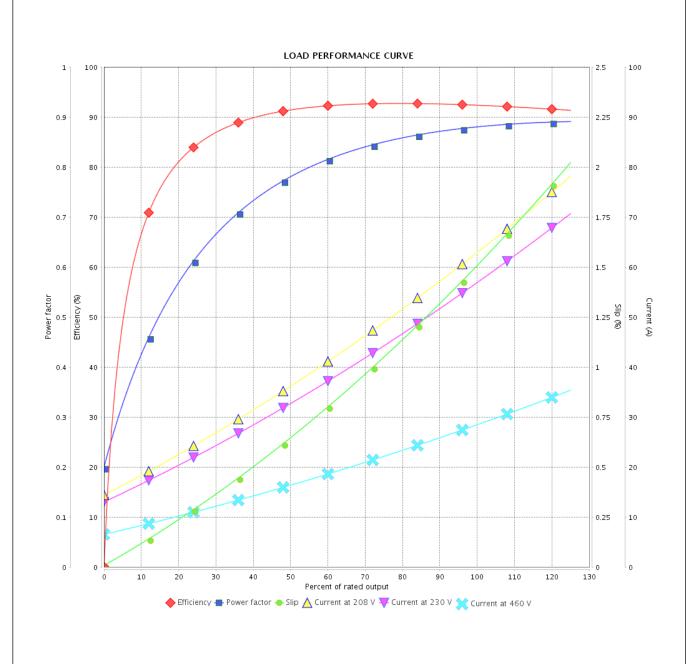
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 02536XT3E284TS

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Performance	: 2	230/460 V 60 Hz 2P				
Rated current	: :	57.2/28.6 A	Moment o	f inertia (J)	: 2.58 sq.ft.lb	
LRC	: (	6.7	Duty cycle	}	: Cont.(S1)	
Rated torque	: :	37.0 ft.lb	Insulation	class	:F	
Locked rotor torque	e : 2	240 %	Service fa	ctor	: 1.15	
Breakdown torque	: 2	240 %	Temperature rise		: 80 K	
Rated speed	: ;	3545 rpm	Design		: B	
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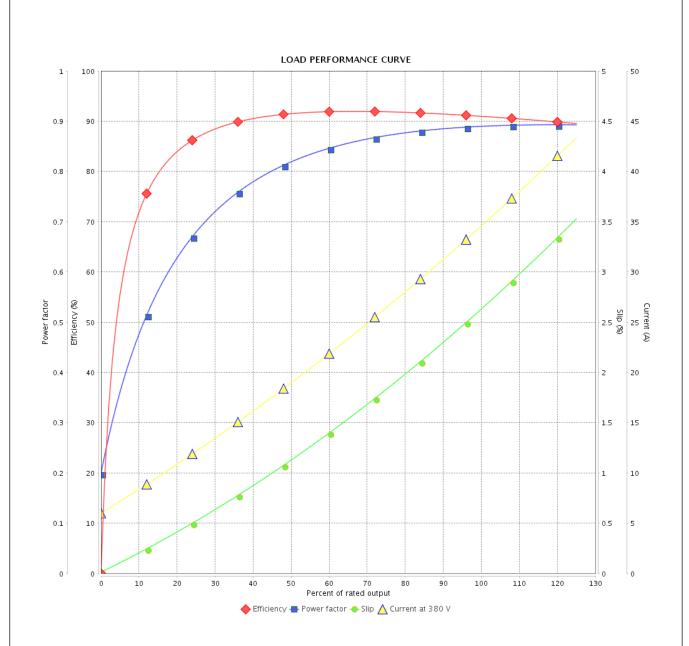
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Phase

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		<u> </u>			
Performance	: 380 V 50 Hz 2P IE	2			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu	: 34.7 A : 5.3 : 45.0 ft.lb : 180 % : 180 %	Duty cycl Insulation Service fa Temperat	class actor	: 2.58 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Rated speed	: 2920 rpm	Design		: B	
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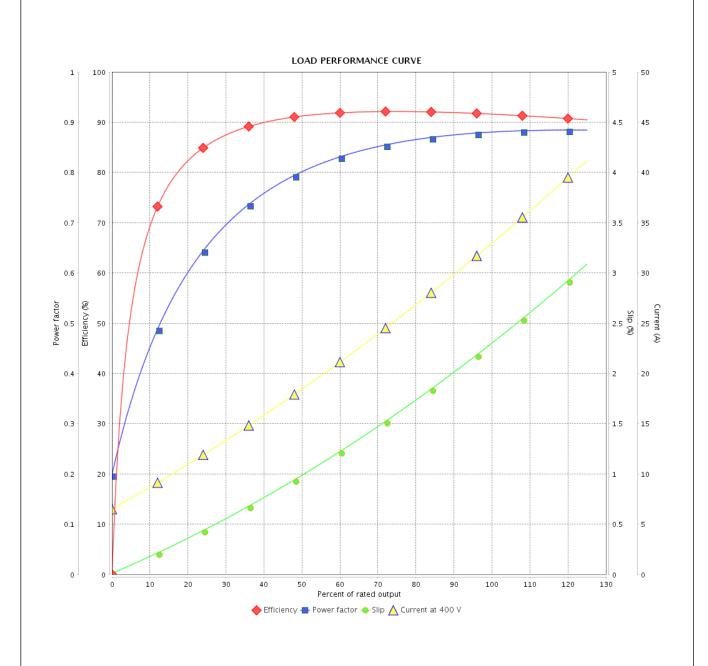


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14443177

Phase

Catalog #: 02536XT3E284TS



Performance	: 4	00 V 50 Hz 2P IE2	Hz 2P IE2			
Rated current	ent : 33.1 A Moment of inertia (J)		f inertia (J)	: 2.58 sq.ft.lb		
LRC	: 5	.9	Duty cycle		: Cont.(S1)	
Rated torque	: 4	4.8 ft.lb	Insulation class		: F	
Locked rotor torqu	e : 2	10 %	Service factor		: 1.00	
Breakdown torque : 200 %		00 %	Temperatu	Temperature rise		
Rated speed	: 2	930 rpm	Design		: B	
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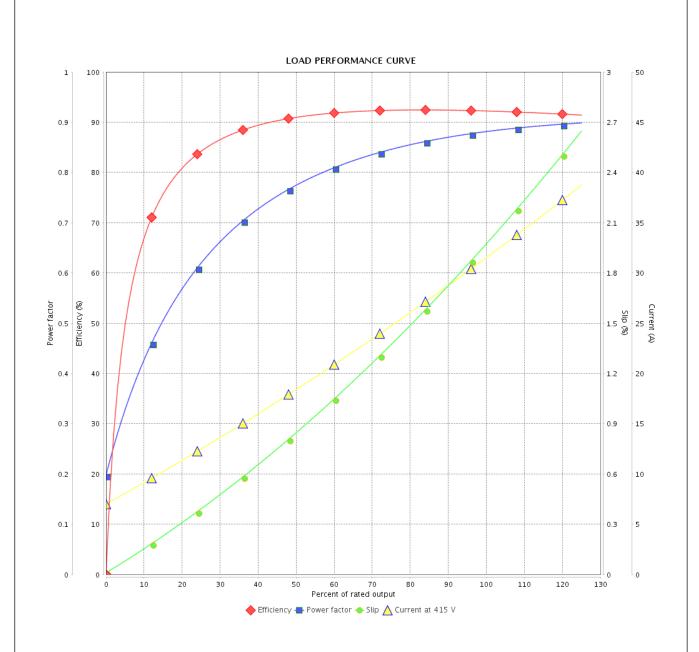
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance : 415 V 50 Hz 2P IE3 Rated current : 31.7 A Moment of inertia (J) : 2.58 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 8.7 : 44.7 ft.lb Insulation class Rated torque : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 2940 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

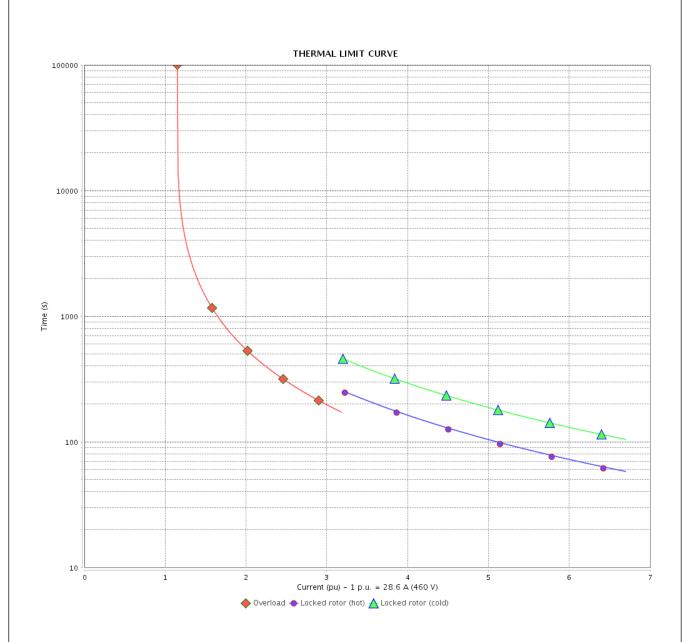


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Product line		NEMA Premium Efficiency hase		Product code : Catalog # :	14443177 02536XT3E2	284TS
				-		
Performance	: 23	30/460 V 60 Hz 2P				
Rated current		7.2/28.6 A	Moment o	of inertia (J)	: 2.58 sq.ft.lb	
LRC Rated torque	: 6. · 3	.7 7.0 ft.lb	Duty cycle Insulation	e Class	: Cont.(S1) : F	
Locked rotor tord		40 %	Service fa		: 1.15	
Breakdown torqu	ie : 24	40 %	Temperat	ure rise	: 80 K	
Rated speed		545 rpm	Design		: B	
Heating constant						
Cooling constant		Changes Summary		Performed	Checked	Date
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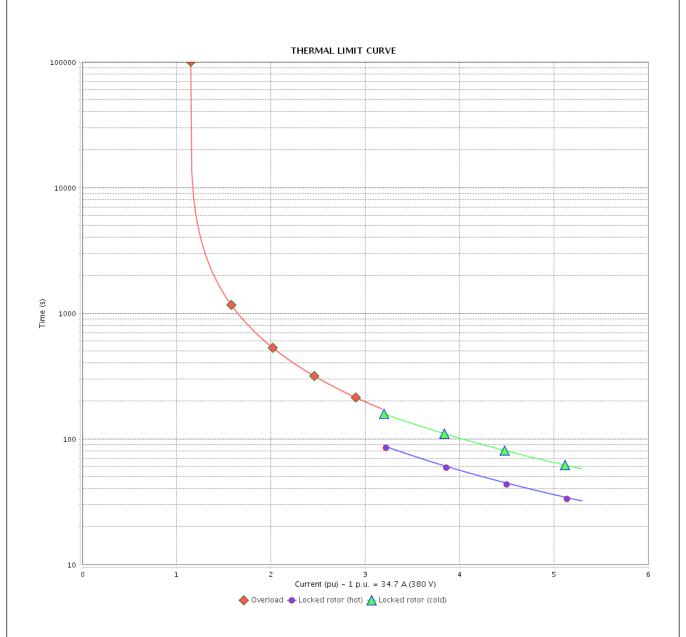


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Product line	::	NEMA Premium Efficiency	Three-	Product code :	14443177	
	r	nase		Catalog # :	02536XT3E2	284TS
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: 3, : 5 : 4 que : 1 ue : 1	80 V 50 Hz 2P IE2 4.7 A .3 5.0 ft.lb 80 % 80 % 920 rpm	Moment of Duty cycle Insulation Service fa Temperati	class actor	: 2.58 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constan						
Cooling constan	t					
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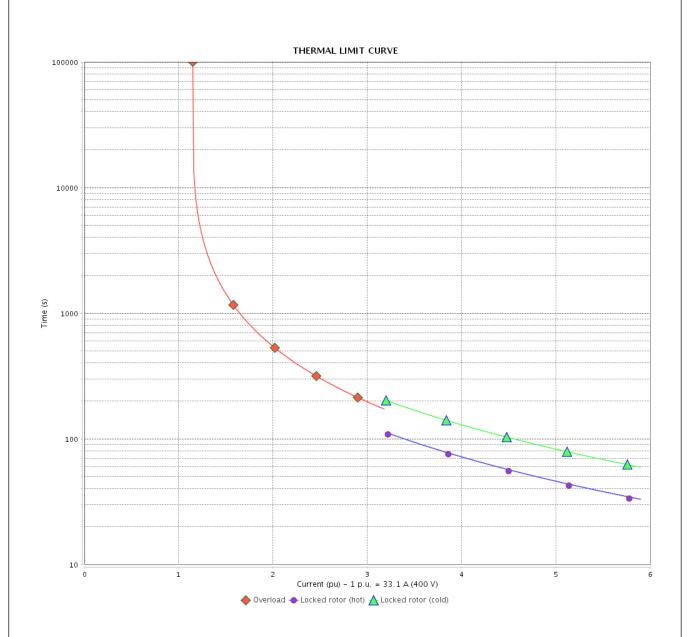


Customer	:					
Product line		NEMA Premium Efficiency	Three	Product code :	14443177	
Product line	P	hase				
				Catalog # :	02536XT3E2	84TS
Performance		00 V 50 Hz 2P IE2				
Rated current LRC	: 3 : 5	3.1 A .9	Moment of Duty cycle	of inertia (J) e	: 2.58 sq.ft.lb : Cont.(S1)	
Rated torque	: 4	4.8 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown tord	que : 2	10 % 00 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		930 rpm	Design	ure rise	: B	
Heating constan	 t					
Cooling constan						
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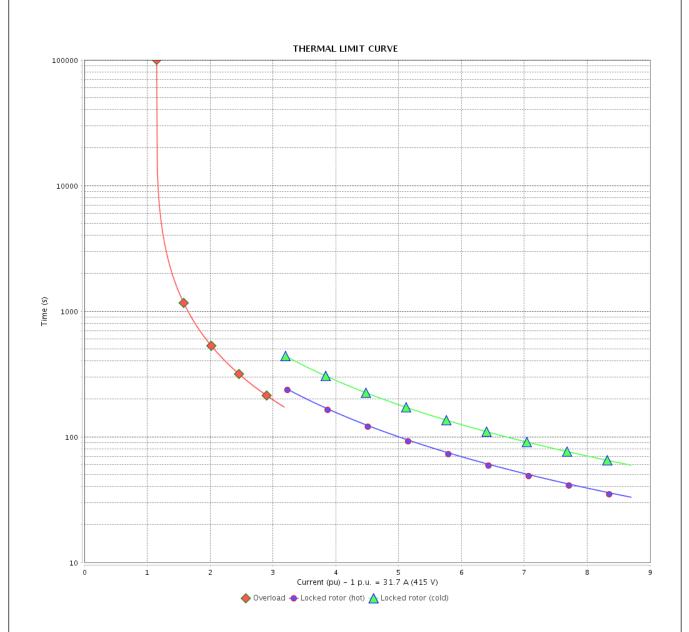


Customer	:					
Product line		NEMA Premium Efficiency <sup>*</sup>	Three-	Product code :	14443177	
				Catalog #:	02536XT3E2	284TS
Performance		15 V 50 Hz 2P IE3		<b></b>		
Rated current LRC	: 3 : 8	1.7 A	Moment of	of inertia (J)	: 2.58 sq.ft.lb	
Rated torque		. <i>r</i> 4.7 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor tord	que : 2:	29 %	Service fa		: 1.00	
Breakdown torqu	ue : 2:	20 %	Temperat		: 80 K	
Rated speed		940 rpm	Design		: B	
Heating constan						
Cooling constant						
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Phase

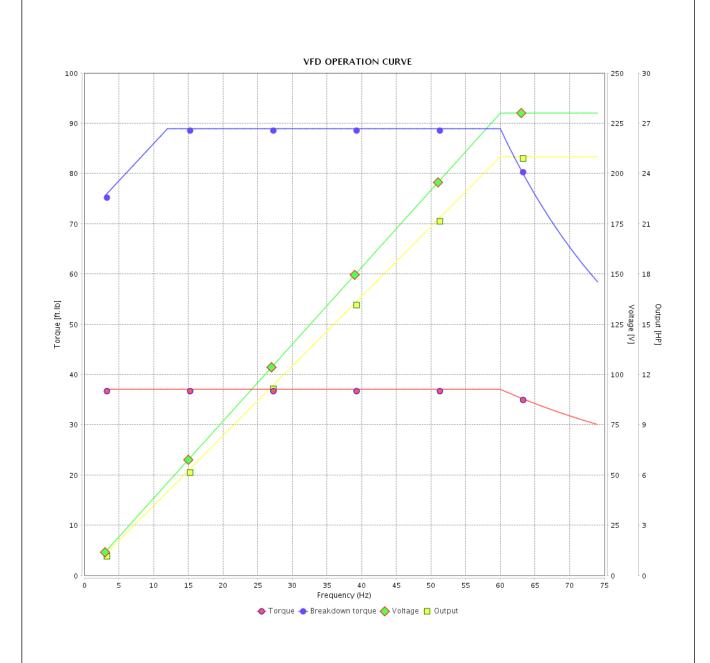
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000/400 \ 400				
Performance : 230/460 V 60 Hz 2P				
•	Duty cycle Insulation Service fa	class ctor	: 2.58 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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	: 57.2/28.6 A : 6.7 : 37.0 ft.lb que : 240 % : 240 % : 3545 rpm	: 6.7 Duty cycle : 37.0 ft.lb Insulation que : 240 % Service fa temperate	: 57.2/28.6 A : 6.7 : 37.0 ft.lb : 240 % : 240 % : 3545 rpm  Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 57.2/28.6 A       Moment of inertia (J)       : 2.58 sq.ft.lb         : 6.7       Duty cycle       : Cont.(S1)         : 37.0 ft.lb       Insulation class       : F         que       : 240 %       Service factor       : 1.15         ue       : 240 %       Temperature rise       : 80 K         : 3545 rpm       Design       : B

#### Three Phase Induction Motor - Squirrel Cage



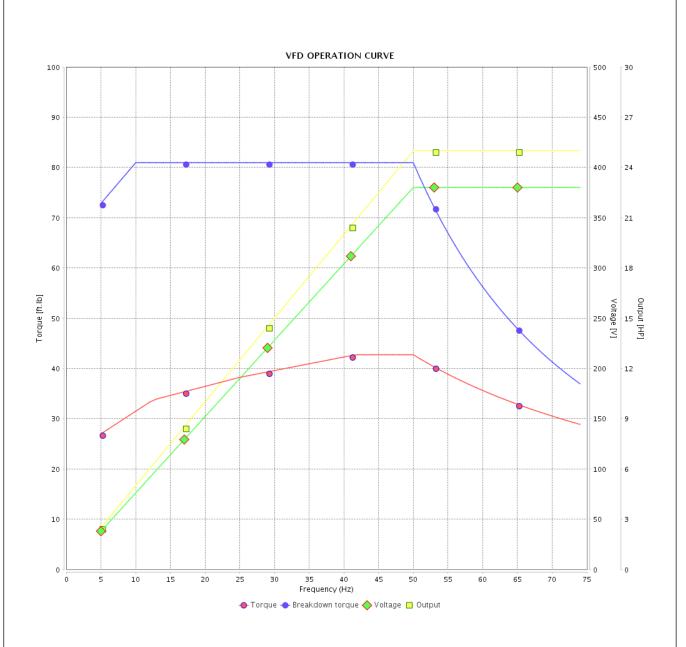
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14443177

Catalog #: 02536XT3E284TS



Performance : 380 V 50 Hz 2P IE2 : 34.7 A Rated current Moment of inertia (J) : 2.58 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.3 : 45.0 ft.lb Insulation class : F Rated torque Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 180 % Temperature rise : 80 K Rated speed : 2920 rpm Design : B Rev. **Changes Summary** Performed Checked Date

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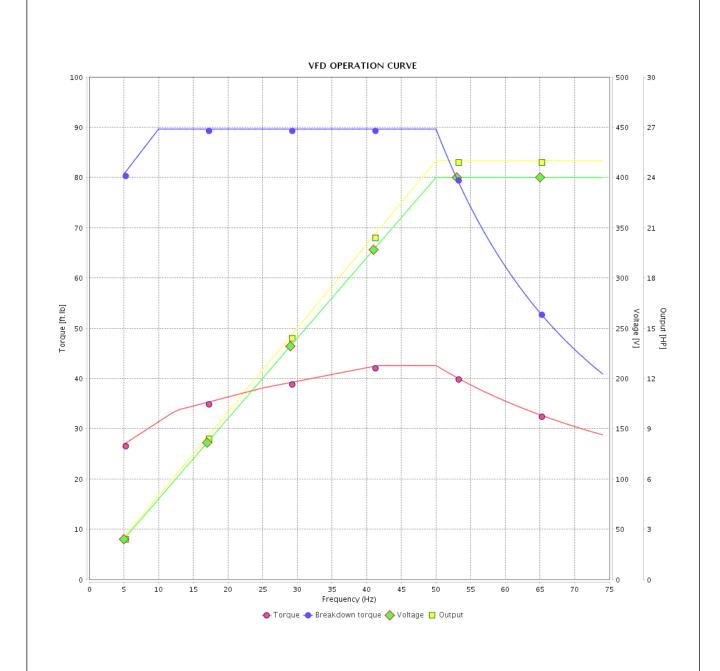


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 02536XT3E284TS

14443177



Performance		00 V 50 Hz 2P IE2					
Rated current		1 A Moment of inertia (J)		: 2.58 sq.ft.lb			
LRC :		.9	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque		4.8 ft.lb	t.lb Insulation class		:F		
Locked rotor torque		10 %	Service fa	Service factor		: 1.00	
Breakdown torqu	e : 20	00 %	Temperature rise		: 80 K		
Rated speed	: 29	2930 rpm Desi			: B		
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#### Three Phase Induction Motor - Squirrel Cage



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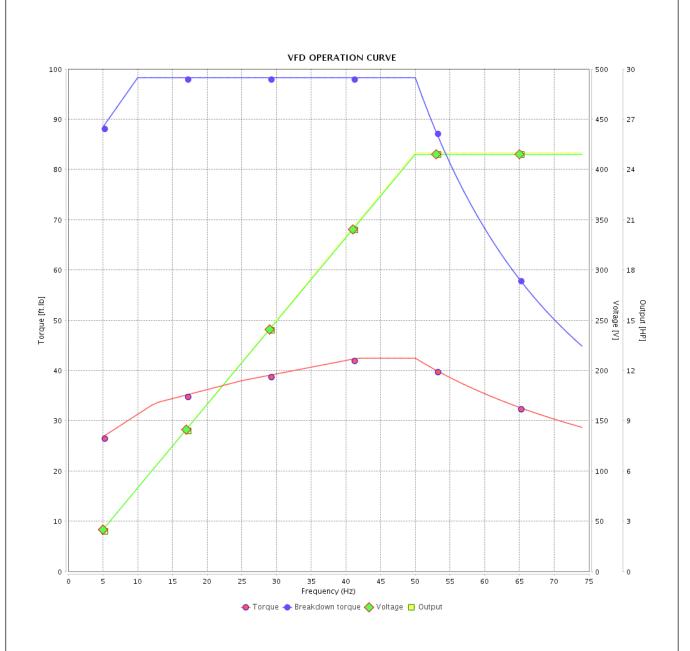
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Product line : NEMA Premium Efficiency Three- P

Phase

Product code: 14443177

Catalog #: 02536XT3E284TS



Performance : 415 V 50 Hz 2P IE3 Rated current : 31.7 A Moment of inertia (J) : 2.58 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 8.7 : 44.7 ft.lb Insulation class : F Rated torque Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 2940 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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