DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14407586

Phase

Catalog #: 02512XT3E324T

Frame : 324T Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

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

Altitude : 1000 m.a.s.l. Approx. weight³ : 644 lb
Protection degree : IP55 Moment of inertia (J) : 10.8 sq.ft.lb

Design	E	: B	Women of the	Moment of mertia (3) . 10.6 Sq.it.ib			
Output [HP]		25	25	25	25		
Poles		6	6	6	6		
Frequency [Hz]		60	50	50	50		
Rated voltage [V]		230/460	380	400	415		
Rated current [A]		61.6/30.8	36.8	35.1	34.2		
L. R. Amperes [A]		382/191	180	190	198		
LRC [A]		6.2x(Code G)	4.9x(Code E)	5.4x(Code F)	5.8x(Code G)		
No load current [A]	28.0/14.0	13.2	14.2	14.9		
Rated speed [RPN	/ []	1180	975	980	980		
Slip [%]		1.67	2.50	2.00	2.00		
Rated torque [ft.lb]		111	135	134	134		
Locked rotor torque [%]		210	160	180	200		
Breakdown torque [%]		260	200	229	250		
Service factor		1.15	1.00	1.00	1.00		
Temperature rise		80 K	80 K	80 K	80 K		
Locked rotor time		45s (cold) 25s (hot)	54s (cold) 30s (hot)	54s (cold) 30s (hot)	54s (cold) 30s (hot)		
Noise level ²		62.0 dB(A)	58.0 dB(A)	58.0 dB(A)	58.0 dB(A)		
	25%	92.2	92.7	92.1	92.1		
Efficiency (%)	50%	92.4	91.7	91.7	91.7		
Elliciency (70)	75%	93.0	92.4	92.4	92.4		
	100%	93.0	91.0	91.7	91.7		
	25%	0.40	0.46	0.43	0.40		
Power Factor	50%	0.65	0.71	0.68	0.65		
I OWELL ACTOL	75%	0.77	0.81	0.79	0.77		
	100%	0.81	0.84	0.83	0.82		

<u>Drive end</u> <u>Non drive end</u> Foundation loads

Bearing type : 6312 C3 6212 C3 Max. traction : 963 lb Sealing : Oil Seal Lip Seal Max. compression : 1607 lb

20000 h

Lubricant amount : 21 g 13 g Lubricant type : Mobil Polyrex EM

20000 h

Notes

Lubrication interval

USABLE @208V 67.2A SF 1.15 SFA 77.3A

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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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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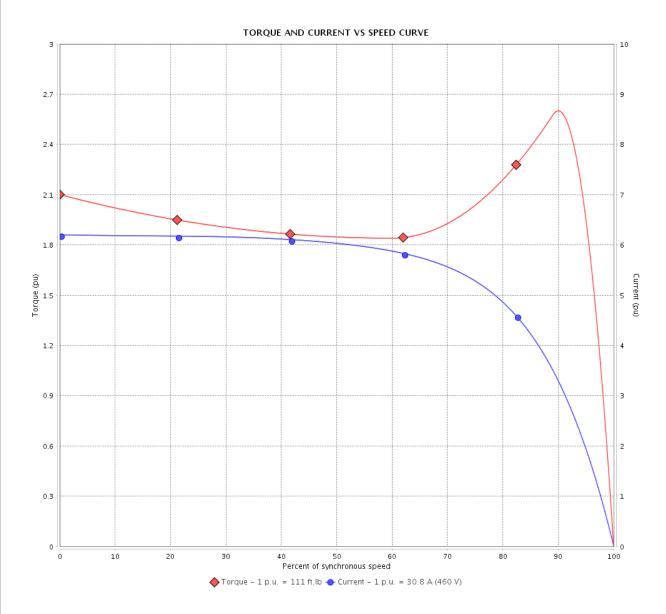


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14407586

ase

Catalog #: 02512XT3E324T



Performance : 230/460 V 60 Hz 6P Rated current : 61.6/30.8 A Moment of inertia (J) : 10.8 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 111 ft.lb Locked rotor torque : 210 % Service factor : 1.15 Breakdown torque : 260 % Temperature rise : 80 K : B Rated speed : 1180 rpm Design

Locked rotor time : 45s (cold) 25s (hot)

Lookou rotor tim	•	00 (0014) 200 (1101)			
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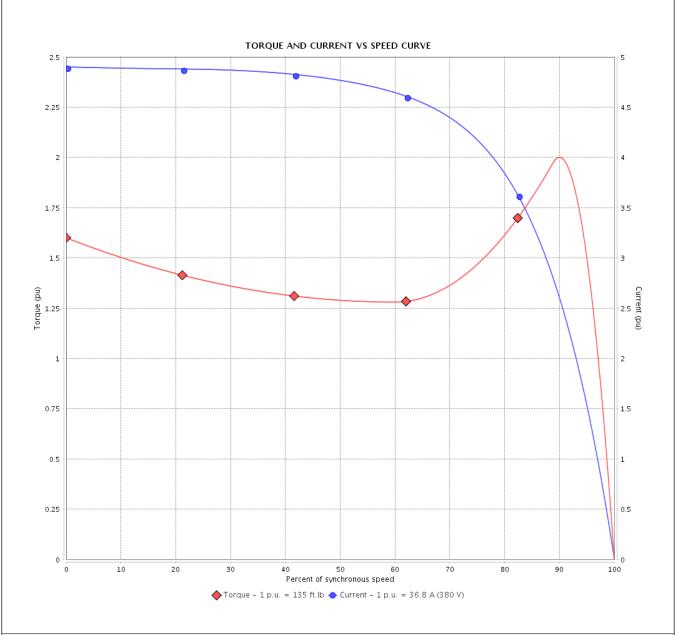
Customer :

Product line : NEMA Premium Efficiency Three- Pro

Phase

Product code: 14407586

Catalog #: 02512XT3E324T



Performance :	: 380 V 50 Hz 6P IE2		
LRC : Rated torque : Locked rotor torque : Breakdown torque :	: 36.8 A : 4.9 : 135 ft.lb : 160 % : 200 % : 975 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 10.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B

Locked rotor time : 54s (cold) 30s (hot)

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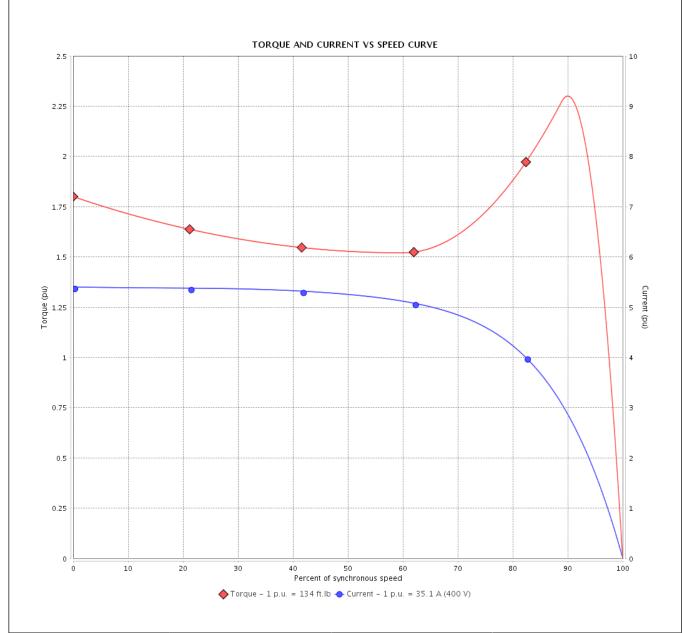
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14407586

Catalog #: 02512XT3E324T



Performance	: 400 V 50 Hz 6P IE3		
Rated current	: 35.1 A	Moment of inertia (J)	: 10.8 sq.ft.lb
LRC	: 5.4	Duty cycle	: Cont.(S1)
Rated torque	: 134 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 980 rpm	Design	: B
Locked reter time	: 54s (sold) 30s (bot)	l .	

Locked folor tilli		548 (Cold) 508 (HOL)			
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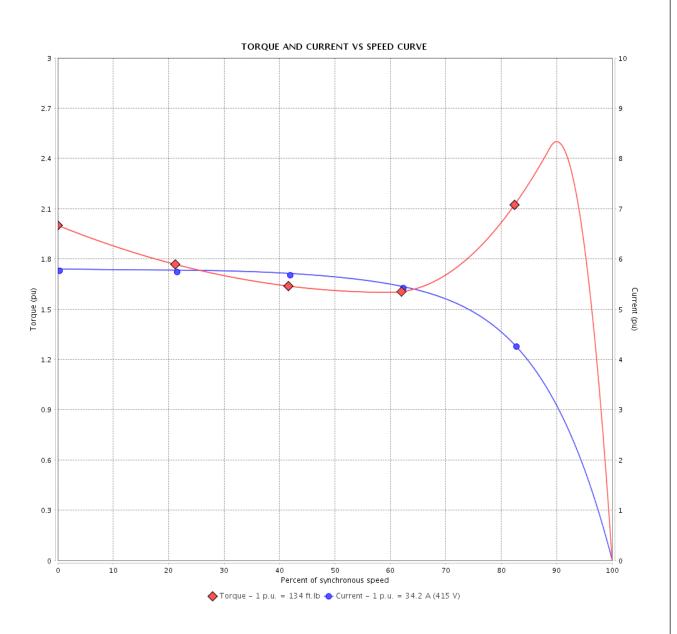
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 02512XT3E324T

14407586



Performance	: 415 V 50 Hz 6P IE3			
Rated current	: 34.2 A	Moment of inertia (J)	: 10.8 sq.ft.lb	
LRC	: 5.8	Duty cycle	: Cont.(S1)	
Rated torque	: 134 ft.lb	Insulation class	: F	
Locked rotor torque	: 200 %	Service factor	: 1.00	
Breakdown torque	: 250 %	Temperature rise	: 80 K	
Rated speed	: 980 rpm	Design	: B	
Locked rotor time	: 54s (cold) 30s (hot)			

Locked rotor time : 54s (cold) 30s (hot)

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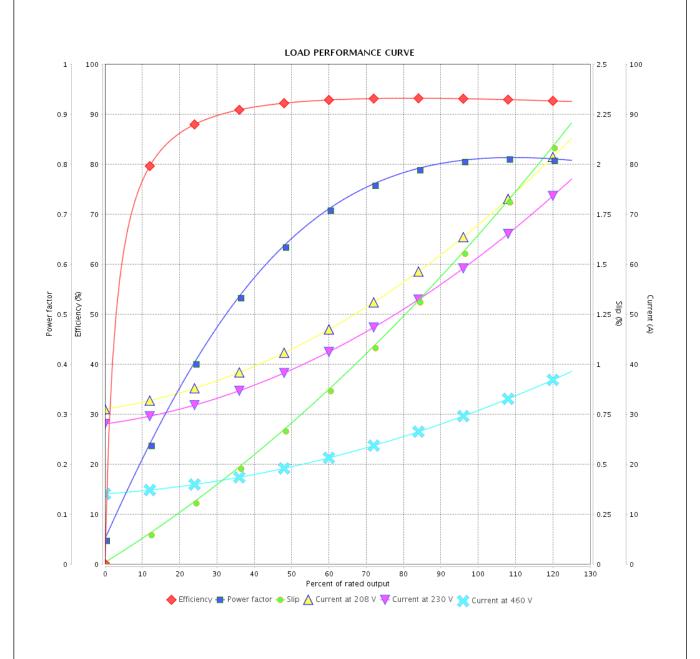


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14407586

Phase

Catalog #: 02512XT3E324T



Performance	: 2	230/460 V 60 Hz 6P				
Rated current	: 6	: 61.6/30.8 A Moment o		f inertia (J)	: 10.8 sq.ft.lb	
LRC	: 6	3.2	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	111 ft.lb	Insulation	class	:F	
Locked rotor torque	e :2	210 %	Service factor		: 1.15	
Breakdown torque	que : 260 % Temperature rise		ıre rise	: 80 K		
Rated speed	Rated speed : 1180 rpm Design		Design		: B	
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Phase

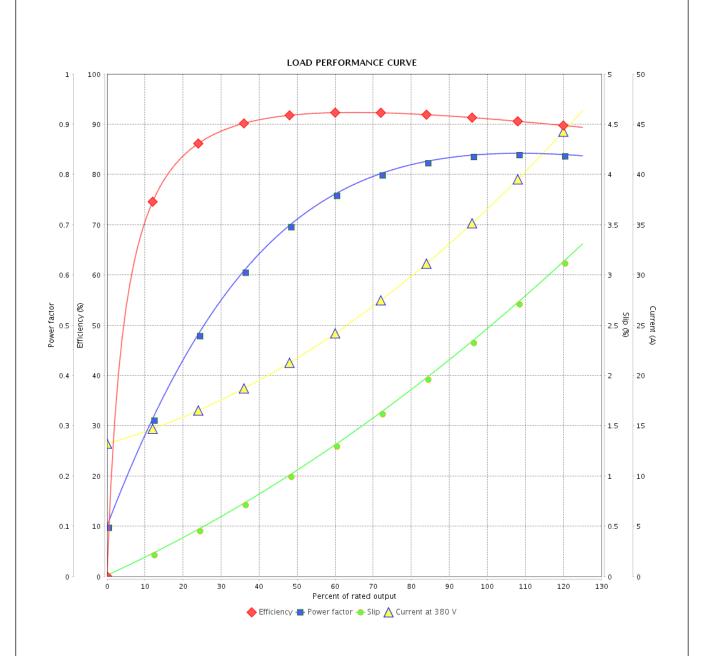
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Performance		: 380 V 50 Hz 6	iP IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	lue le	: 36.8 A : 4.9 : 135 ft.lb : 160 % : 200 % : 975 rpm		Moment o Duty cycle Insulation Service fa Temperate Design	class ctor	: 10.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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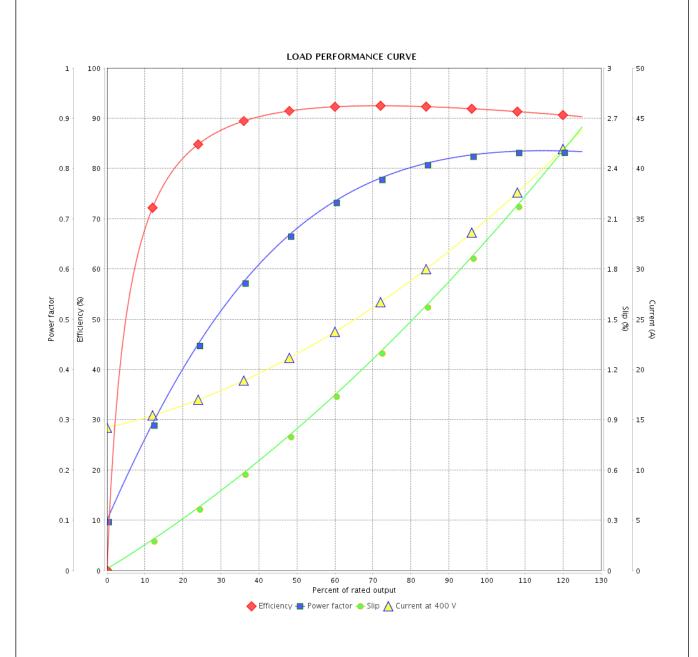
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 02512XT3E324T

14407586



Performance	: 400 V 50 Hz 6P IE3					
Rated current	: 35.1 A	Moment of inertia (J)		: 10.8 sq.ft.lb	: 10.8 sq.ft.lb	
LRC	: 5.4	Duty cycle		: Cont.(S1)	: Cont.(S1)	
Rated torque	: 134 ft.lb	Insulation class		: F		
Locked rotor torque	: 180 %	Service factor		: 1.00		
Breakdown torque	: 229 %	Temperatu	ıre rise	: 80 K		
Rated speed	: 980 rpm	Design		: B		
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rated speed	. 50	50 Ipili	Design		. 0	
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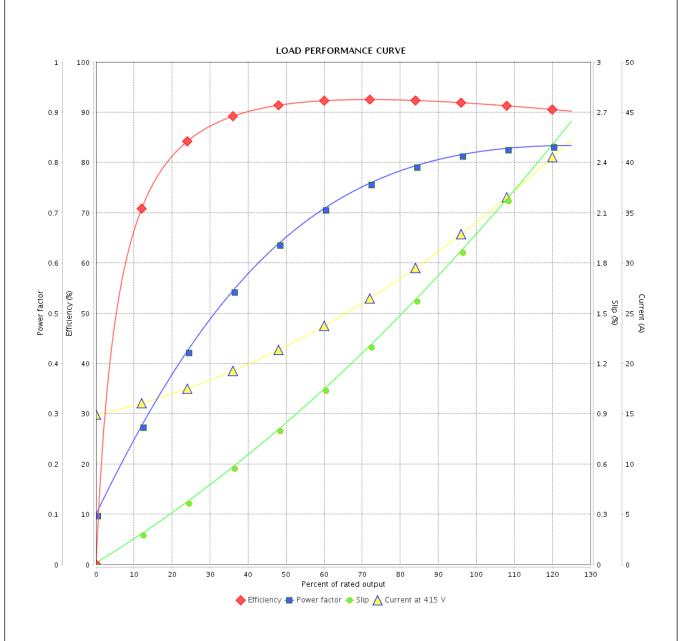
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Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 14407586

Catalog #: 02512XT3E324T



Performance	: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 34.2 A : 5.8 : 134 ft.lb : 200 % : 250 % : 980 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 10.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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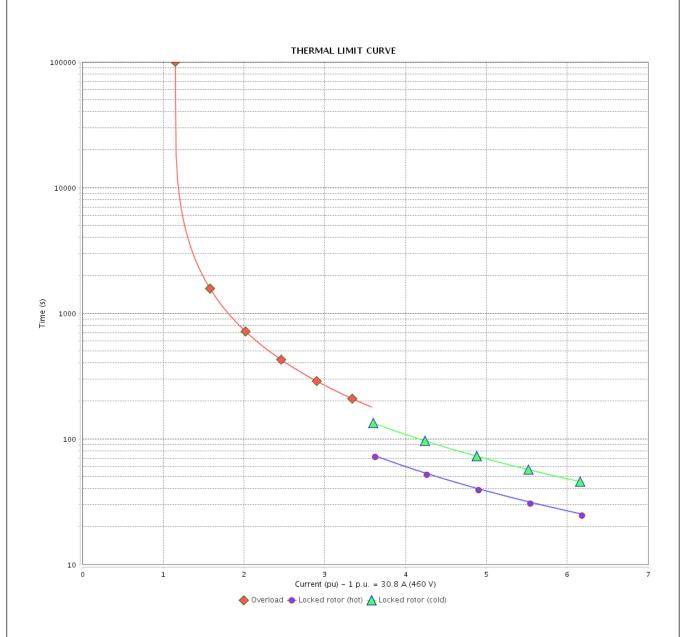


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code : Catalog # :	14407586 02512XT3E3	.24T
5 ,		20/400 1/400 11 42				
Performance		30/460 V 60 Hz 6P	Moment	of inartia (I)	. 10 0 og ft lb	
Rated current LRC	: 6.	1.6/30.8 A .2	Duty cycle	of inertia (J) e	: 10.8 sq.ft.lb : Cont.(S1)	
Rated torque	: 1′	11 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown tord		10 % 60 %	Service fa Temperat		: 1.15 : 80 K	
Rated speed		180 rpm	Design	uic iisc	: B	
Heating constan						
Cooling constant						
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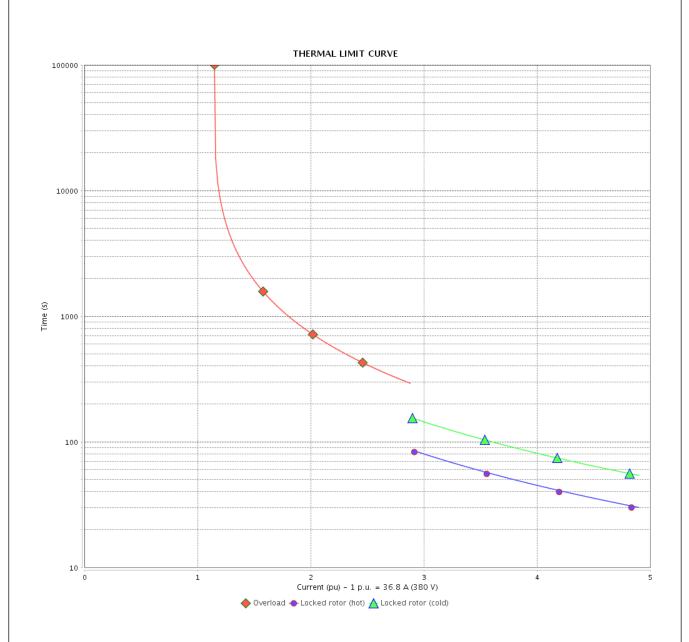


Customer	:					
Product line		NEMA Premium Efficiency [*]	Three-	Product code :	14407586	
				Catalog # :	02512XT3E3	324T
Performance		80 V 50 Hz 6P IE2				
Rated current LRC	: 30 : 4.	6.8 A	Moment of Duty cycle	of inertia (J)	: 10.8 sq.ft.lb : Cont.(S1)	
Rated torque		.9 35 ft.lb	Insulation	class	: Cont.(S1) : F	
Locked rotor tord	que : 10	60 %	Service fa	actor	: 1.00	
Breakdown torqu Rated speed	ue : 20	00 % 75 rpm	Temperat Design		: 80 K : B	
Heating constan	t					
Cooling constant						
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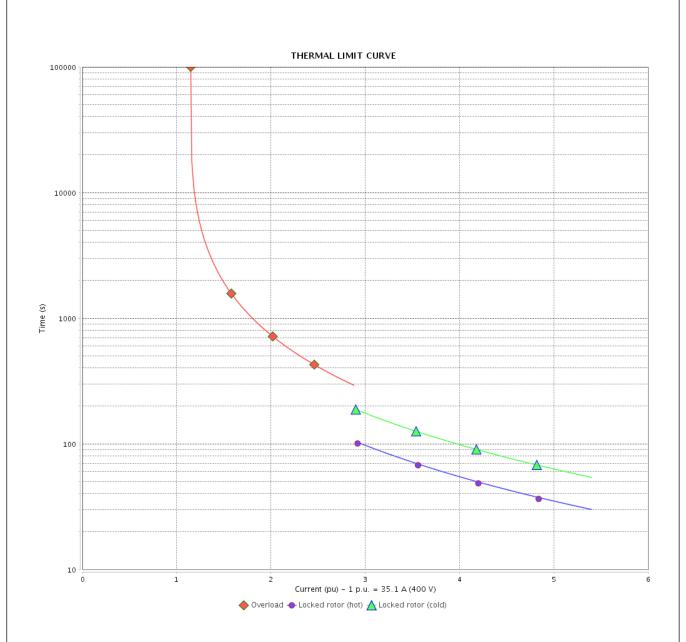


Customer	:					
Product line	:	NEMA Premium Efficiency	Three-	Product code :	14407586	
	P	Phase		Catalog # :	02512XT3E	324T
Performance Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 3 : 5 : 1 ue : 1 e : 2	00 V 50 Hz 6P IE3 5.1 A .4 34 ft.lb 80 % 29 % 80 rpm	Moment of Duty cycle Insulation Service far Temperat Design	ı class actor	: 10.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant	<u> </u>					
Cooling constant						
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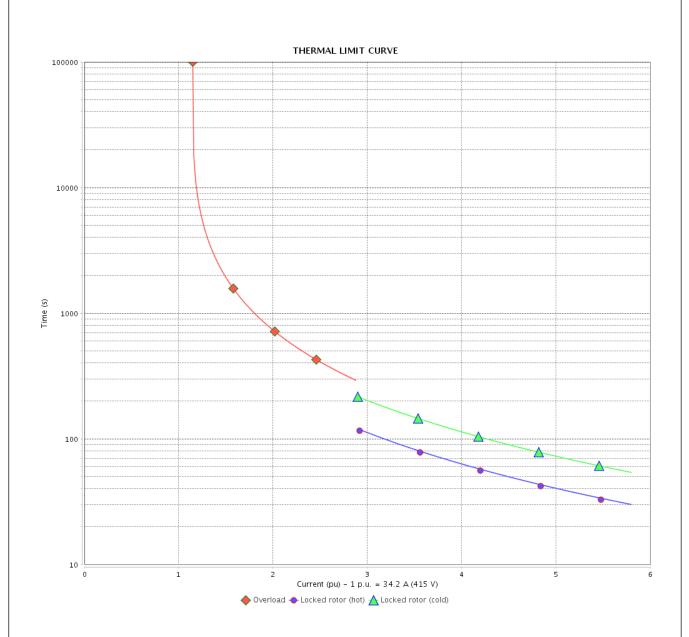


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Product line	: P	NEMA Premium Efficiency hase	Three-	Product code :	14407586	
				Catalog # :	02512XT3E3	24T
Performance	: 4	15 V 50 Hz 6P IE3				
Rated current		4.2 A	Moment of	of inertia (J)	: 10.8 sq.ft.lb	
.RC Rated torque	: 5 : 1:	.8 34 ft.lb	Duty cycle Insulation	e L class	: Cont.(S1) : F	
ocked rotor tord	que : 2	00 %	Service fa	actor	: 1.00	
Breakdown torqu Rated speed		50 % 80 rpm	Temperat Design	ure rise	: 80 K : B	
	·	00 /piii	Design		. .	
Heating constant Cooling constant						
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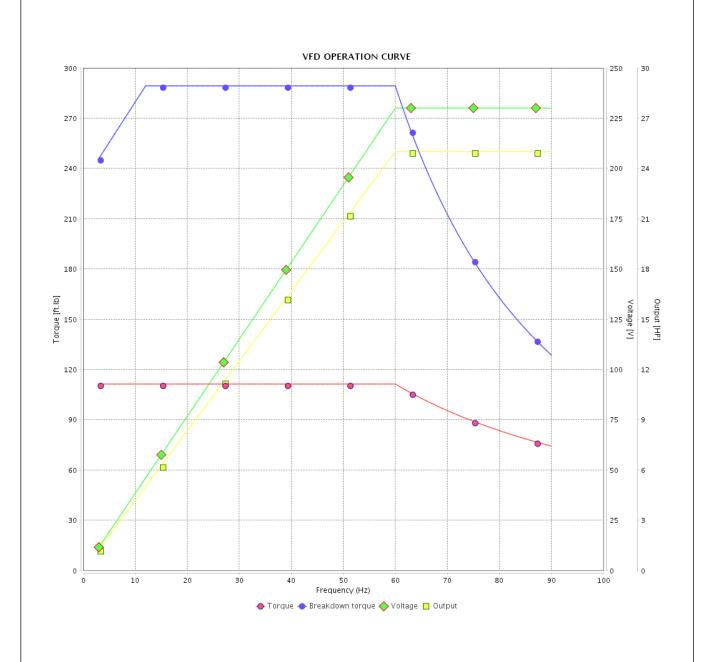


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14407586

Phase

Catalog #: 02512XT3E324T



Performance	: 230/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 10.8 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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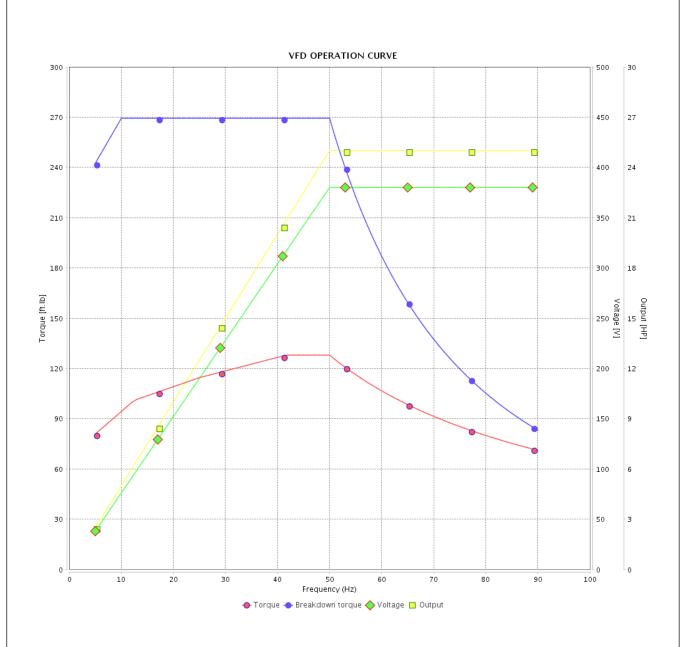
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Product line : NEMA Premium Efficiency Three-

Product code: 14407586

Catalog #: 02512XT3E324T



Performance	: 3	880 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 4 : 1 jue : 1 ie : 2	86.8 A 9.9 35 ft.lb 60 % 200 % 975 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ector	: 10.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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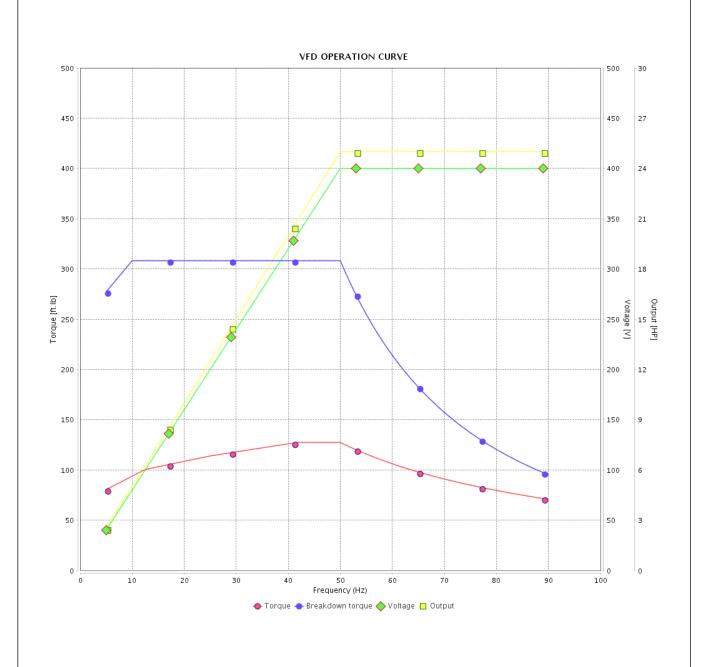
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 02512XT3E324T

14407586



Performance : 4		: 400 V 50 Hz 6P IE3					
Rated current : 35		5.1 A	Moment o	Moment of inertia (J)			
LRC : 5.4		.4	Duty cycle	Duty cycle			
Rated torque :		34 ft.lb	Insulation class		: F		
Locked rotor torque		80 %	Service fa	Service factor		: 1.00	
Breakdown torque	: 2:	29 %	Temperati	Temperature rise			
Rated speed	: 98	80 rpm	rpm Design		: B		
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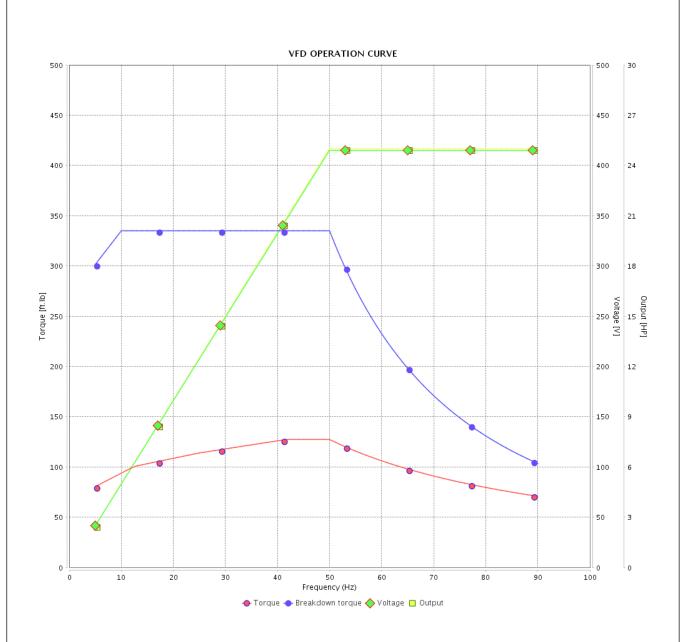
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14407586

Catalog #: 02512XT3E324T



Performance : 415 V 50 Hz 6P IE3 Rated current : 34.2 A Moment of inertia (J) : 10.8 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) : 134 ft.lb Insulation class : F Rated torque Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 980 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by

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