DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14296383

Catalog #: 00236XT3E145TC

Frame : 143/5TC Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

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

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

: 1000 m.a.s.l. Altitude Approx. weight³ : 75.5 lb

Protection degree : IP55 Moment of inertia (J) : 0.0551 sq.ft.lb		51 sq.ft.lb			
Design		: B			
Output [HP]		2	2	2	2
Poles		2	2	2	2
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		5.38/2.69	3.25	3.09	3.05
L. R. Amperes [A]		49.5/24.7	22.8	23.2	24.4
LRC [A]		9.2x(Code L)	7.0x(Code J)	7.5x(Code K)	8.0x(Code K)
No load current [A]	2.40/1.20	1.10	1.20	1.30
Rated speed [RPN	/ []	3495	2860	2880	2890
Slip [%]		2.92	4.67	4.00	3.67
	Rated torque [ft.lb]		3.67	3.65	3.63
Locked rotor torque [%]		370	270	310	340
Breakdown torque [%]		420	290	330	360
Service factor		1.15	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		27s (cold) 15s (hot)	37s (cold) 21s (hot)	37s (cold) 21s (hot)	37s (cold) 21s (hot)
Noise level ²		68.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)
	25%				
Efficiency (%)	50%	80.0	81.5	82.5	81.5
Efficiency (70)	75%	84.0	82.5	84.5	84.5
	100%	85.5	82.5	84.5	84.5
	25%				
Power Factor	50%	0.64	0.70	0.66	0.62
I OWEI FACIOI	75%	0.76	0.81	0.78	0.75
	100%	0.82	0.85	0.83	0.81

Drive end Non drive end Foundation loads

Bearing type 6205 2RS 6204 2RS Max. traction : 76 lb Sealing Oil Seal Lip Seal Max. compression : 151 lb

Lubrication interval Lubricant amount

Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 5.95A SF 1.15 SFA 6.84A

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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Thermal protection

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

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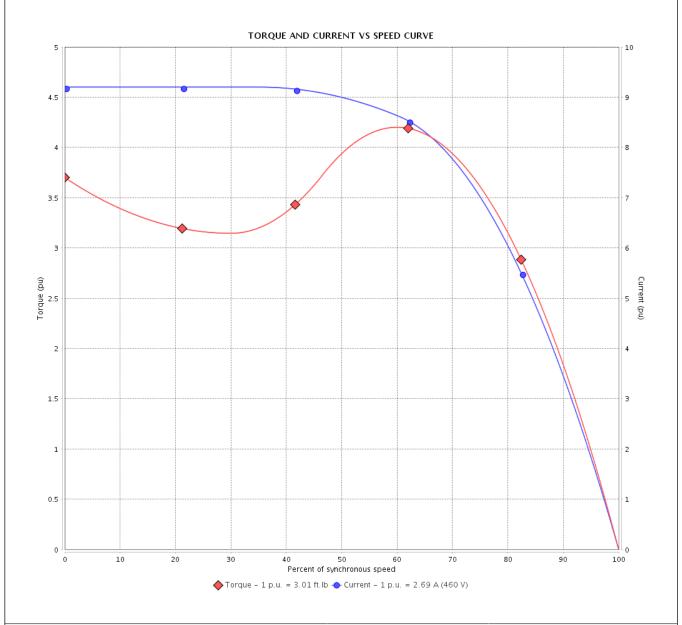


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14296383

Phase

Catalog #: 00236XT3E145TC



Performance	: 230/460 V 60 Hz 2P		
Rated current	: 5.38/2.69 A	Moment of inertia (J)	: 0.0551 sq.ft.lb
LRC	: 9.2	Duty cycle	: Cont.(S1)
Rated torque	: 3.01 ft.lb	Insulation class	: F
Locked rotor torque	: 370 %	Service factor	: 1.15
Breakdown torque	: 420 %	Temperature rise	: 80 K
Rated speed	: 3495 rpm	Design	: B
Looked reter time	: 27a (aald) 15a (bat)		

Locked rotor time : 27s (cold) 15s (hot)

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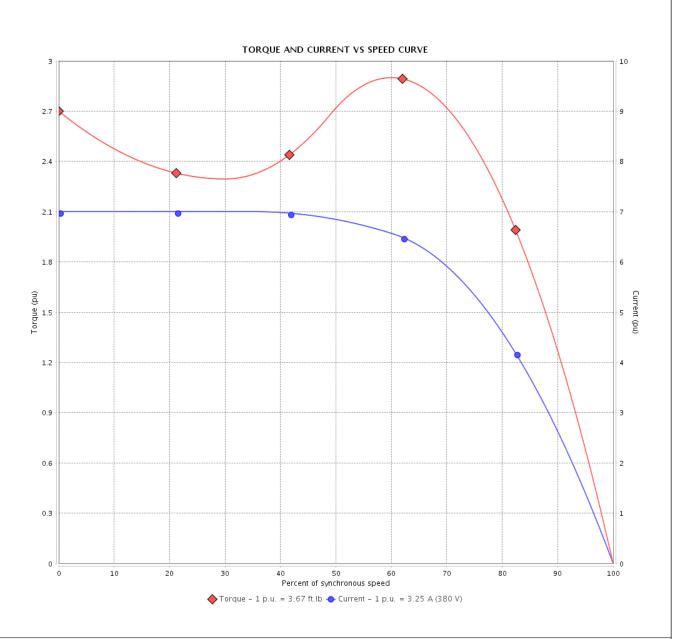
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Product line : NEMA Premium Efficiency Three- Prod

Phase

Product code: 14296383

Catalog #: 00236XT3E145TC



Performance	: 380 V 50 Hz 2P IE2		
Rated current LRC	: 3.25 A : 7.0	Moment of inertia (J) Duty cycle	: 0.0551 sq.ft.lb
Rated torque	: 3.67 ft.lb	Insulation class	: Cont.(S1) : F
Locked rotor torque	: 270 %	Service factor	: 1.00
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 2860 rpm	Design	: B
Looked reter time	: 27a (aald) 21a (bat)	1	

Locked rotor time : 37s (cold) 21s (hot)

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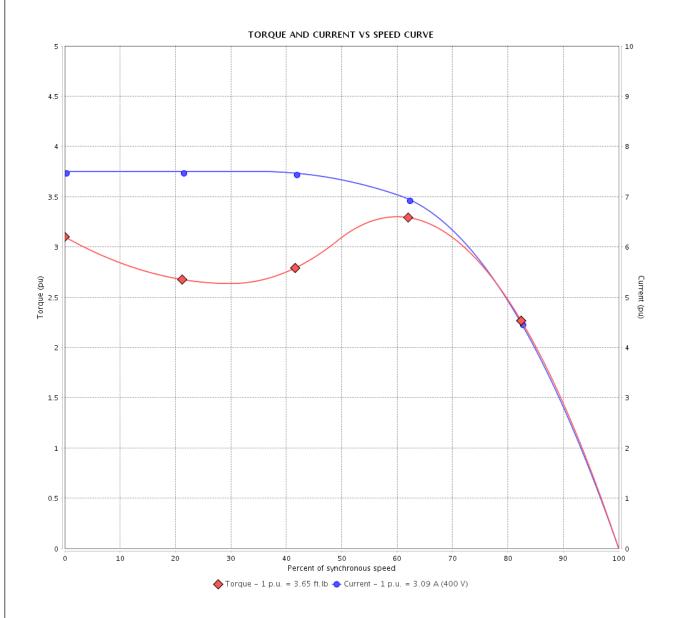
Three Phase Induction Motor - Squirrel Cage



00236XT3E145TC

Customer Product line : NEMA Premium Efficiency Three-Product code: 14296383

Catalog #:



Performance : 400 V 50 Hz 2P IE3 Rated current : 3.09 A Moment of inertia (J) : 0.0551 sq.ft.lb **LRC** : 7.5 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 3.65 ft.lb Locked rotor torque : 310 % Service factor : 1.00 : 80 K Breakdown torque : 330 % Temperature rise : B Rated speed : 2880 rpm Design Locked rotor time : 37s (cold) 21s (hot)

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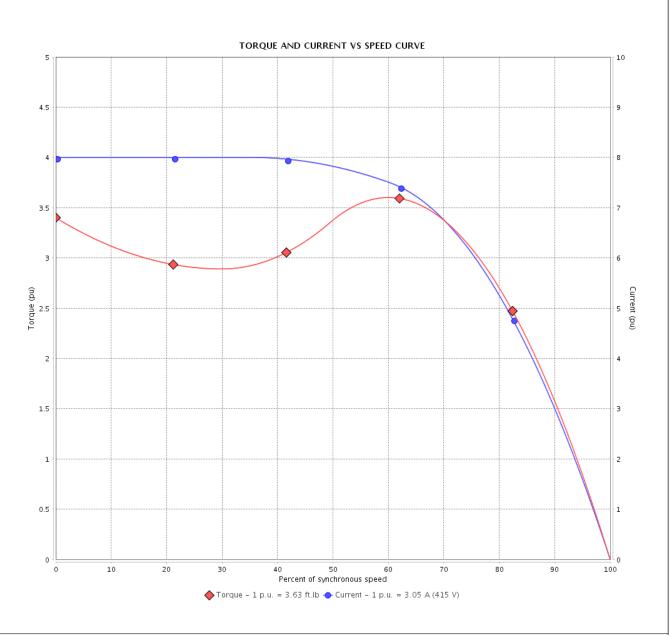
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Product line : NEMA Premium Efficiency Three- P

Phase

Product code: 14296383

Catalog #: 00236XT3E145TC



Performance : 415 V 50 Hz 2P IE3 Rated current : 3.05 A Moment of inertia (J) : 0.0551 sq.ft.lb **LRC** : 8.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 3.63 ft.lb : F Locked rotor torque : 340 % Service factor : 1.00 Breakdown torque : 360 % Temperature rise : 80 K Rated speed : 2890 rpm Design : B

Locked rotor time : 37s (cold) 21s (hot)

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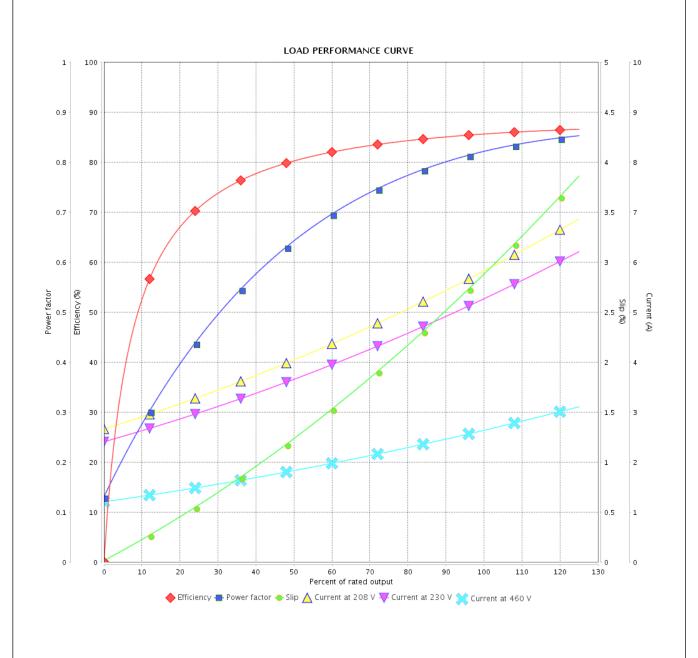


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Product line : NEMA Premium Efficiency Three- Product code : 14296383

Phase

Catalog #: 00236XT3E145TC



Performance	::	230/460 V 60 Hz 2P				
Rated current	: :	5.38/2.69 A	Moment o	Moment of inertia (J)		b
LRC	: :	9.2	Duty cycle	;	: Cont.(S1)	
Rated torque	::	3.01 ft.lb	Insulation	class	: F	
Locked rotor torque	e ::	370 %	Service fa	ctor	: 1.15	
Breakdown torque	: -	420 %	Temperati	ıre rise	: 80 K	
Rated speed	::	3495 rpm	Design		: B	
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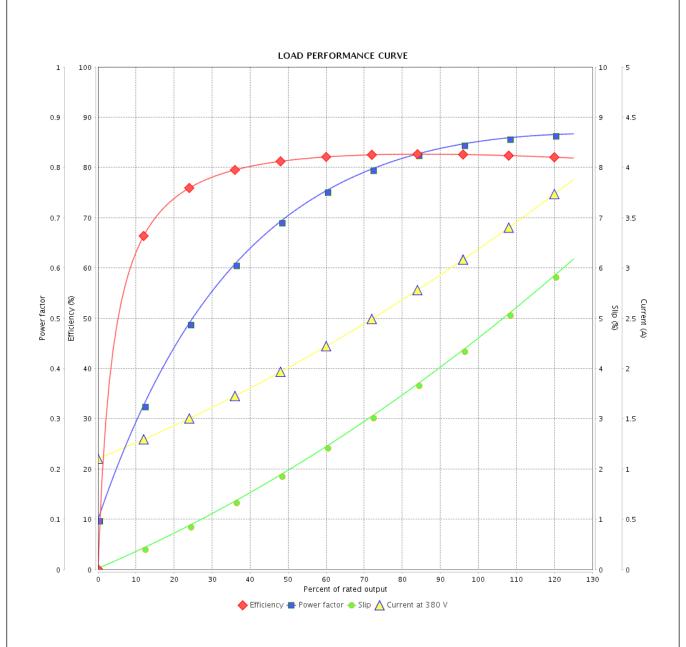
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Phase

Product code: 14296383

Catalog #: 00236XT3E145TC



Performance : 380 V 50 Hz 2P IE2 Rated current : 3.25 A Moment of inertia (J) : 0.0551 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 3.67 ft.lb : F Locked rotor torque : 270 % Service factor : 1.00 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 2860 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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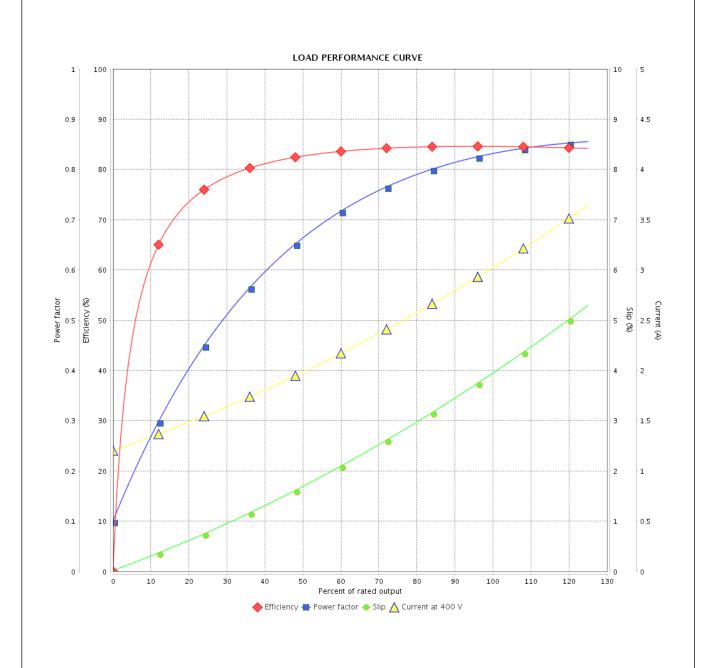


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Product line : NEMA Premium Efficiency Three- Product code : 14296383

Phase

Catalog #: 00236XT3E145TC



Performance	: 4	00 V 50 Hz 2P IE3					
Rated current	: 3	.09 A Moment of		f inertia (J)	: 0.0551 sq.ft.	.lb	
LRC	: 7	.5	Duty cycle	Duty cycle			
Rated torque	: 3	.65 ft.lb	Insulation	Insulation class			
Locked rotor torqu	ue : 3	10 %	Service fa	Service factor			
Breakdown torque	e : 3	30 %	Temperati	Temperature rise		: 80 K	
Rated speed		880 rpm	Design	Design : B			
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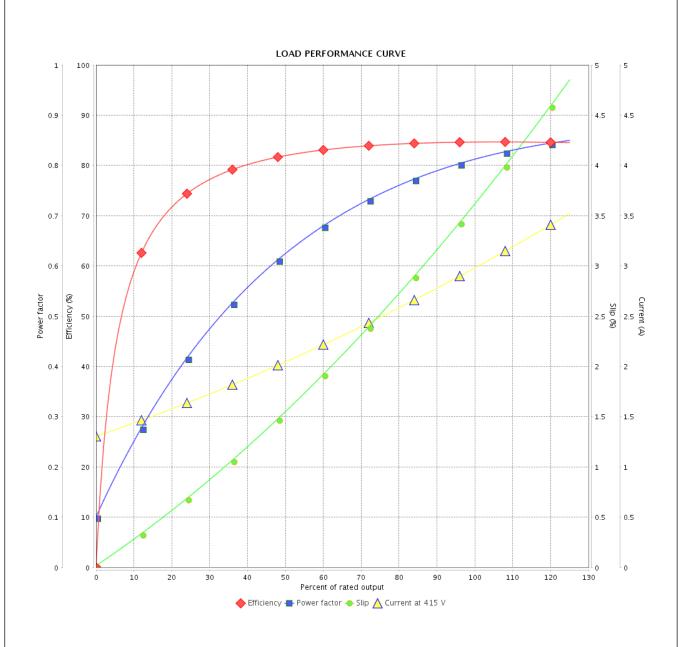
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Phase

Product code: 14296383

Catalog #: 00236XT3E145TC



Performance		: 415 V 50 Hz 2P I	E3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 3.05 A : 8.0 : 3.63 ft.lb : 340 % : 360 % : 2890 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 0.0551 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : B	lb
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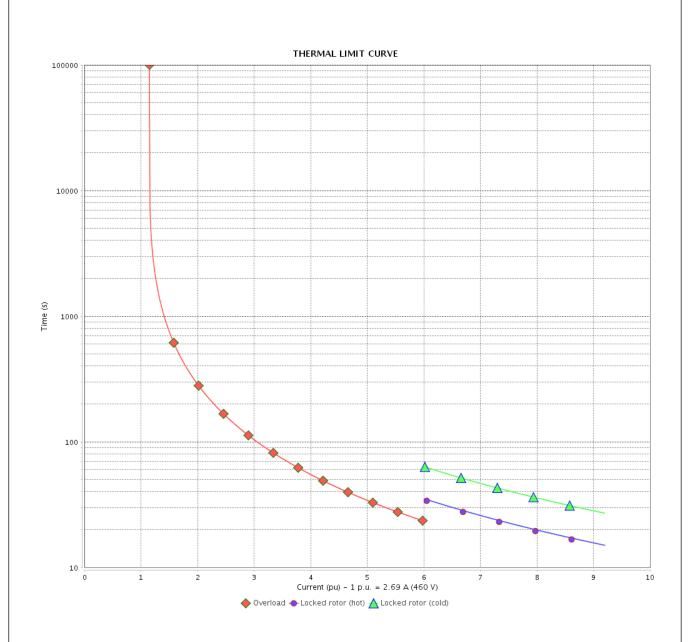


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Product line	: î Pl	NEMA Premium Efficiency ⁻ hase		Product code : Catalog # :	14296383 00236XT3E	145TC
Performance Rated current LRC	: 5. : 9.		Duty cycle	of inertia (J)	: 0.0551 sq.ft. : Cont.(S1)	lb
Rated torque : Locked rotor torque : Breakdown torque :		.01 ft.lb 70 % 20 % 495 rpm	Insulation Service fa Temperate Design	class ictor	: F : 1.15 : 80 K : B	
Heating constant						
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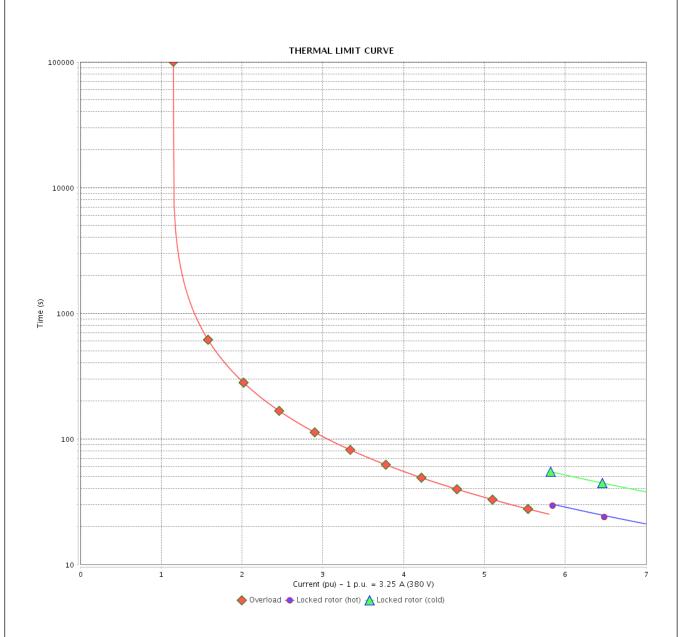


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Product line	: I P	NEMA Premium Efficiency [·] hase		Product code : Catalog # :	14296383 00236XT3E	145TC
Performance	: 38	80 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque		.25 A .0 67 ft.lb 70 % 90 % 860 rpm	Moment of inertia (J) : 0.0551 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B		lb	
Heating constant						
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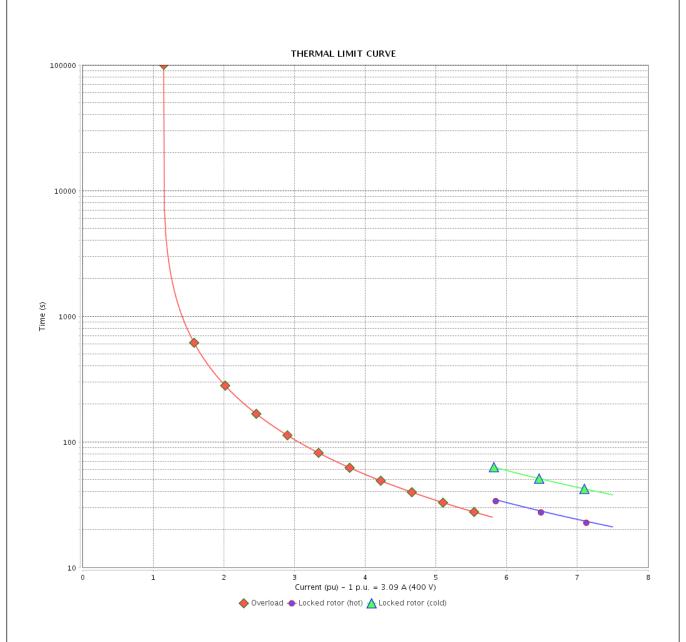


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Product line		NEMA Premium Efficiency	Three	Product code :	14296383	
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				Catalog # :	00236XT3E	145TC
Performance	: 4	00 V 50 Hz 2P IE3				
Rated current		.09 A	Moment of	of inertia (J)	: 0.0551 sq.ft.	lb
LRC Rated torque	: 7 · 3	.5 .65 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor tord	que : 3	10 %	Service fa	actor	: 1.00	
Breakdown torqu		30 %	Temperat	ure rise	: 80 K	
Rated speed		880 rpm	Design		: B 	
Heating constan						
Cooling constan	t	Changes Cumman:		Performed	Checked	Dota
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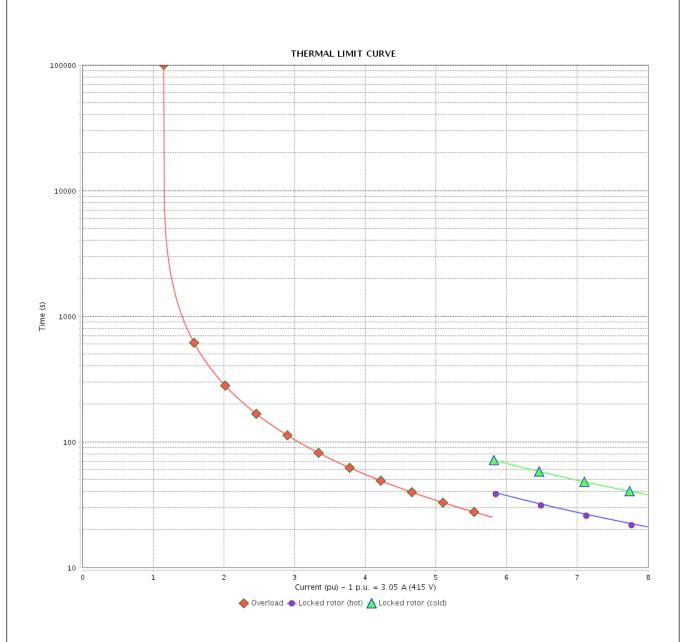


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Product line		NEMA Premium Efficiency [·] hase		Product code : Catalog # :	14296383 00236XT3E	145TC
Performance Rated current		15 V 50 Hz 2P IE3	Moment o	f inertia (I)	· 0 0551 sa ff	lh
Rated current : 3.05 A LRC : 8.0 Rated torque : 3.63 ft.lb Locked rotor torque : 340 % Breakdown torque : 360 % Rated speed : 2890 rpm		Moment of inertia (J) : 0.0551 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B		IU		
Heating constan	t					
Cooling constant						
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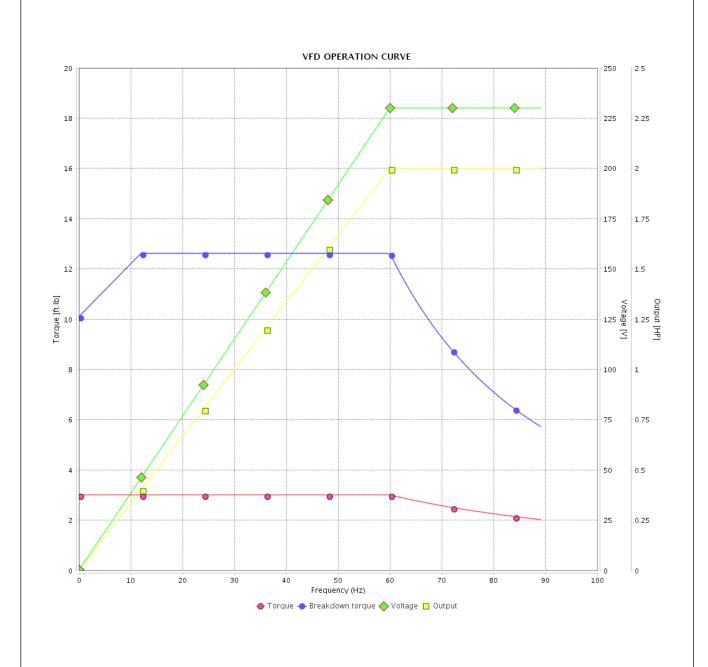


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Phase

Catalog #: 00236XT3E145TC



Performance	: 2	230/460 V 60 Hz 2P					
Rated current	: 5	5.38/2.69 A Moment of iner		of inertia (J)	: 0.0551 sq.ft.lb		
LRC	: 9	.2		Duty cycle			
Rated torque	: 3	.01 ft.lb	• •	Insulation class			
Locked rotor torqu	ue : 3	70 %	Service fa	Service factor			
Breakdown torque		20 %	Temperat	Temperature rise		: 80 K	
Rated speed		495 rpm	Design	Design : B			
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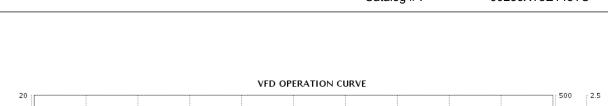
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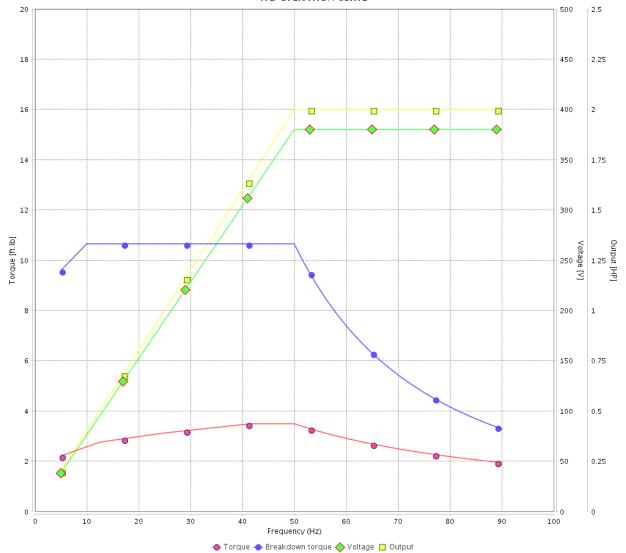
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Performance		: 380 V 50 Hz	2P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 3.25 A : 7.0 : 3.67 ft.lb : 270 % : 290 % : 2860 rpm		Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0551 sq.ft : Cont.(S1) : F : 1.00 : 80 K : B	.lb
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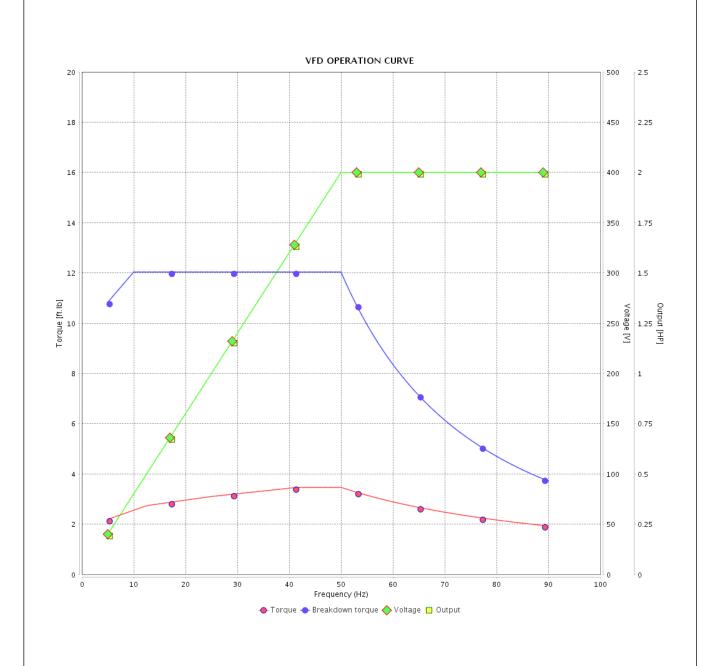


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Product line : NEMA Premium Efficiency Three- Product code : 14296383

Phase

Catalog #: 00236XT3E145TC



Performance	: 40	: 400 V 50 Hz 2P IE3							
Rated current	: 3.	09 A	Moment of	Moment of inertia (J)		: 0.0551 sq.ft.lb			
LRC	: 7.	.5 Duty cycle		: Cont.(S1)					
Rated torque	: 3.	65 ft.lb	ft.lb Insulation class		:F				
Locked rotor torq	ue : 3 [,]	10 %	Service factor		: 1.00				
Breakdown torque	e : 33	30 %	Temperature rise		: 80 K				
Rated speed	: 28	380 rpm	Design	Design					
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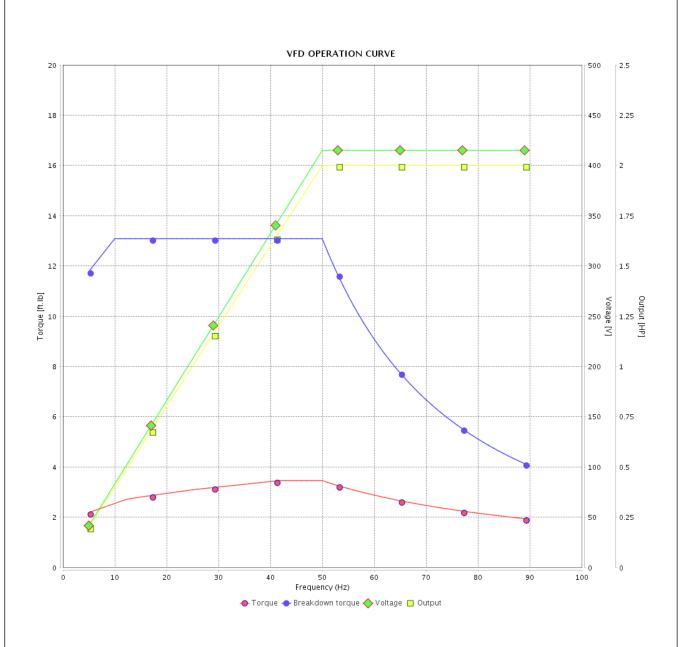
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Phase

Product code: 14296383

Catalog #: 00236XT3E145TC



Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.05 A : 8.0 : 3.63 ft.lb : 340 % : 360 % : 2890 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0551 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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