DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14338143

Phase

Catalog #: 00236XT3E145T

Frame : 143/5T 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 : 73.7 lb

Protection degree : IP55 Moment of inertia (J) : 0.0551 sq ft 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	4.67 4.00	
Rated torque [ft.lb]		3.01	3.67	3.67 3.65	
Locked rotor torqu	e [%]	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%	78.4	81.1	82.1	81.0
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%	0.41	0.47	0.43	0.39
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

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

Bearing type : 6205 2RS 6204 2RS | Max. traction : 77 lb Sealing : Oil Seal Lip Seal | Max. compression : 151 lb

Lubricant amount : - - Lubricant type : Mobil Polyrex EM

Notes

Lubrication interval

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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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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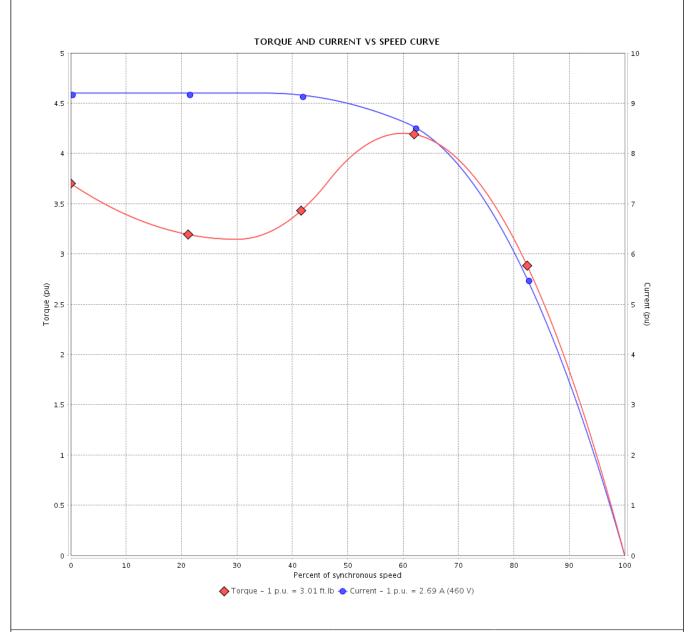


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14338143

Phase

Catalog #: 00236XT3E145T



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 votov times	. 27a (aald) 45a (bat)			

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

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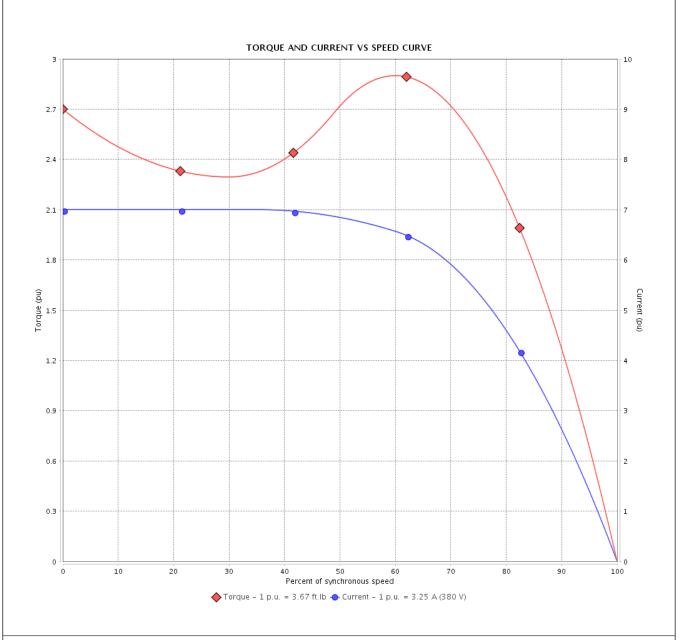
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14338143

Catalog #: 00236XT3E145T



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) : F : 3.67 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 270 % : 1.00 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 2860 rpm Design : B

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

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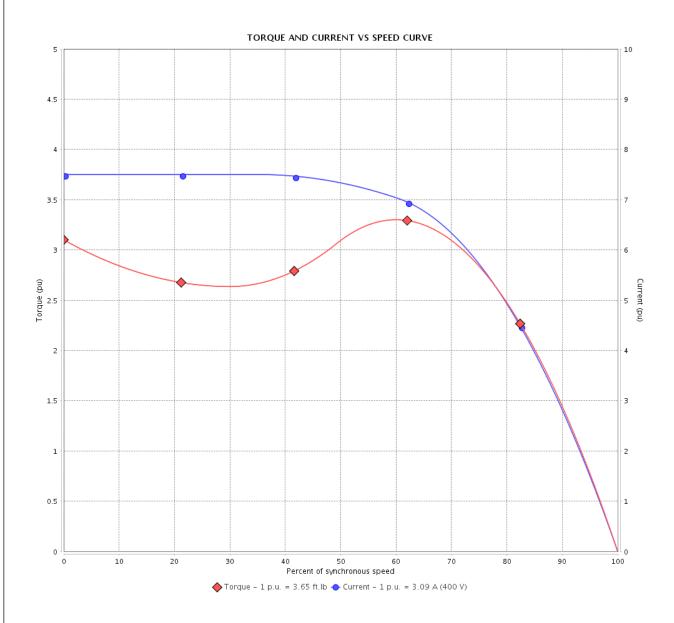
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14338143

Catalog #: 00236XT3E145T



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)
Rated torque	: 3.65 ft.lb	Insulation class	: F
Locked rotor torque	: 310 %	Service factor	: 1.00
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 2880 rpm	Design	: B
Locked rotor time	: 37s (cold) 21s (hot)		

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

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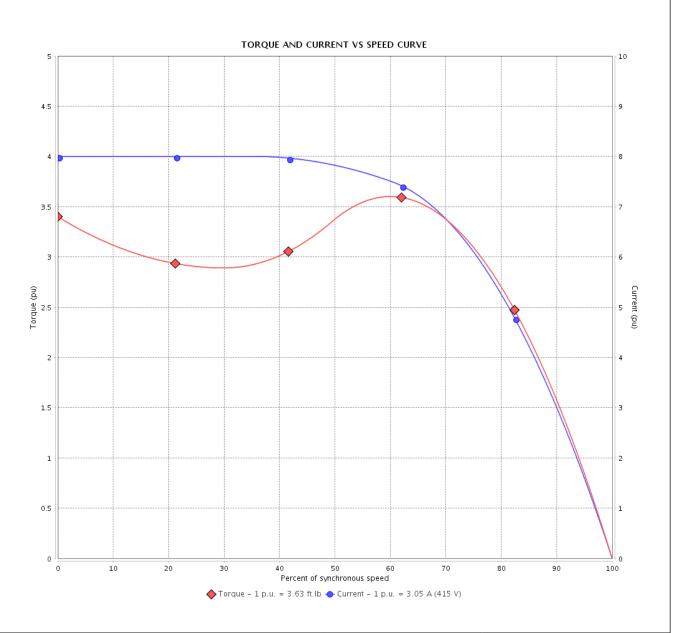


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14338143

Phase

Catalog #: 00236XT3E145T



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) : F : 3.63 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 340 % : 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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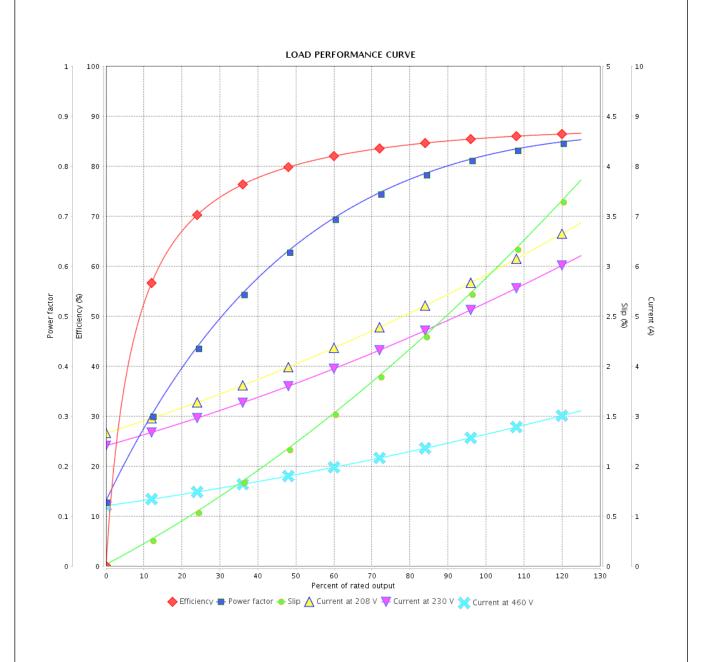


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14338143

Phase

Catalog #: 00236XT3E145T



Performance	::	230/460 V 60 Hz 2P				
Rated current		5.38/2.69 A	Moment o	f 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	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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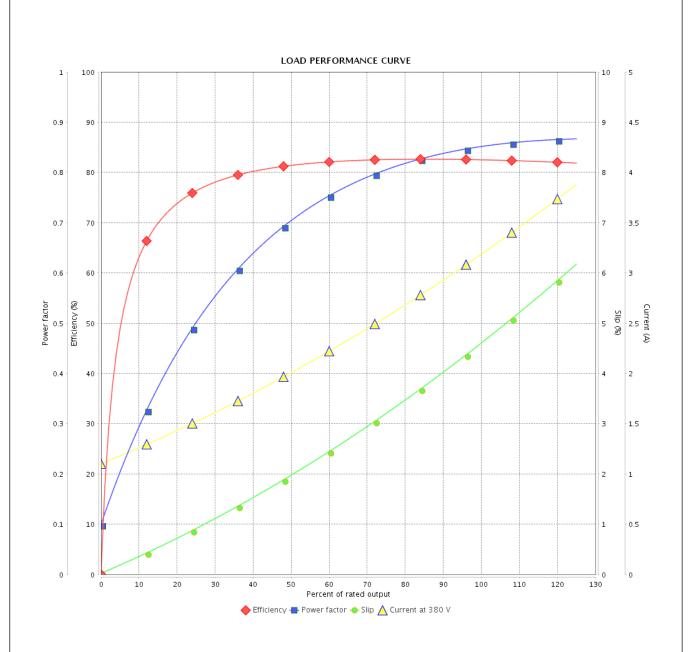
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Phase

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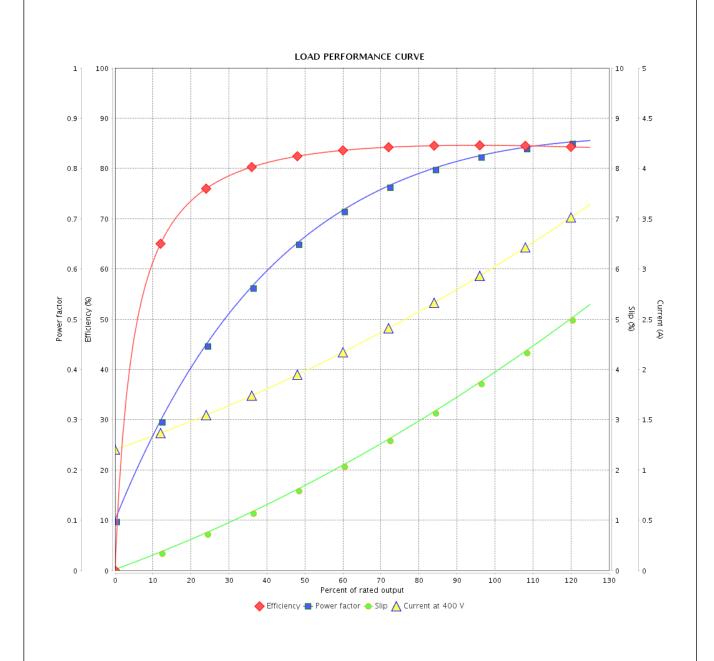
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 14338143

Catalog #: 00236XT3E145T



Performance	. ,	400 V 50 Hz 2P IE3				
Rated current		3.09 A	Moment	of inertia (J)	: 0.0551 sq.ft	lh
LRC	-	7.5	Duty cycle	, ,	: Cont.(S1)	.10
Rated torque	=	3.65 ft.lb	Insulation		: F	
Locked rotor torqu	-	310 %	Service fa		: 1.00	
Breakdown torque		330 %	Temperat	Temperature rise		
Rated speed	::	2880 rpm	Design		: B	
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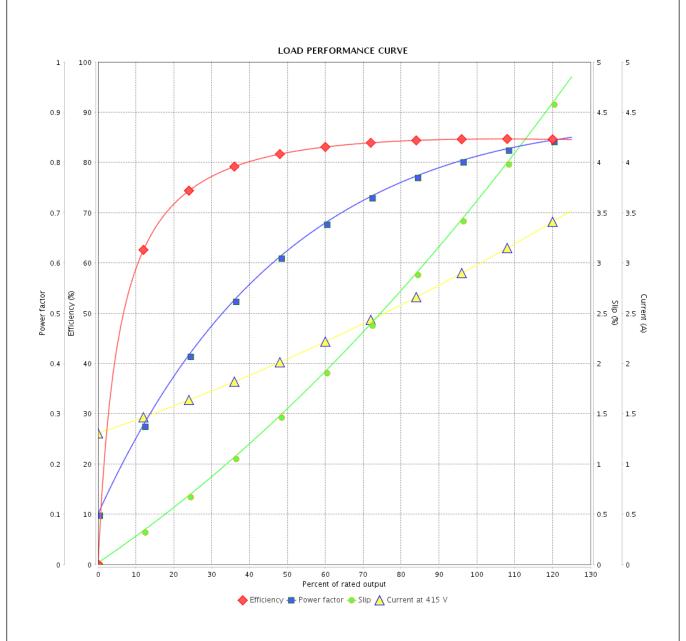
Customer :

Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 14338143

Catalog #: 00236XT3E145T



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 Duty cycle Insulation of Service fact Temperatur Design	class tor	: 0.0551 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : B	lb
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Three Phase Induction Motor - Squirrel Cage

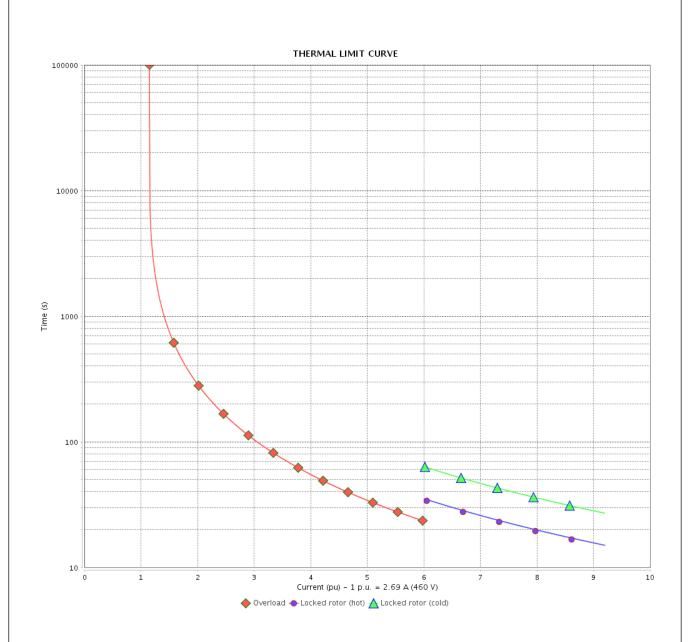


Customer	:					
Product line	:	NEMA Premium Efficiency	Three-	Product code :	14338143	
	F	Phase		Catalog # :	00236XT3E	145T
Performance Rated current RC	: 5 : 9	230/460 V 60 Hz 2P 5.38/2.69 A 0.2	Duty cycle	of inertia (J)	: 0.0551 sq.ft : Cont.(S1)	.lb
Rated torque Locked rotor torq Breakdown torqu Rated speed	ue :3	3.01 ft.lb 370 % 120 % 8495 rpm	Insulation Service fa Temperat Design	actor	: F : 1.15 : 80 K : B	
Heating constant					-	
Cooling constant						
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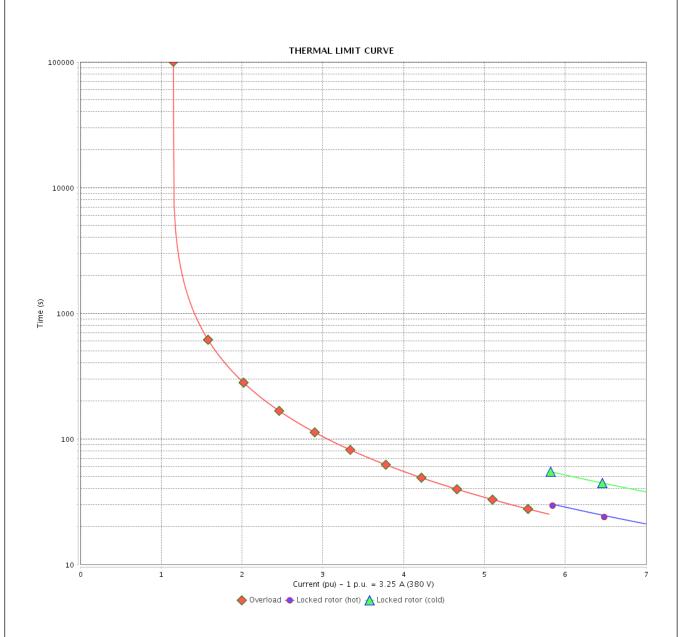


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Product line		NEMA Premium Efficiency	Three-	Product code :	14338143	
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				Catalog # :	00236XT3E1	45T
Performance		80 V 50 Hz 2P IE2				
Rated current LRC	: 3 : 7	.25 A .0	Moment of Duty cycle	of inertia (J)	: 0.0551 sq.ft.ll : Cont.(S1)	0
Rated torque	: 3	.67 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu	que : 2	70 % 90 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		860 rpm	Design	uic lisc	: B	
Heating constan	t					
Cooling constan						
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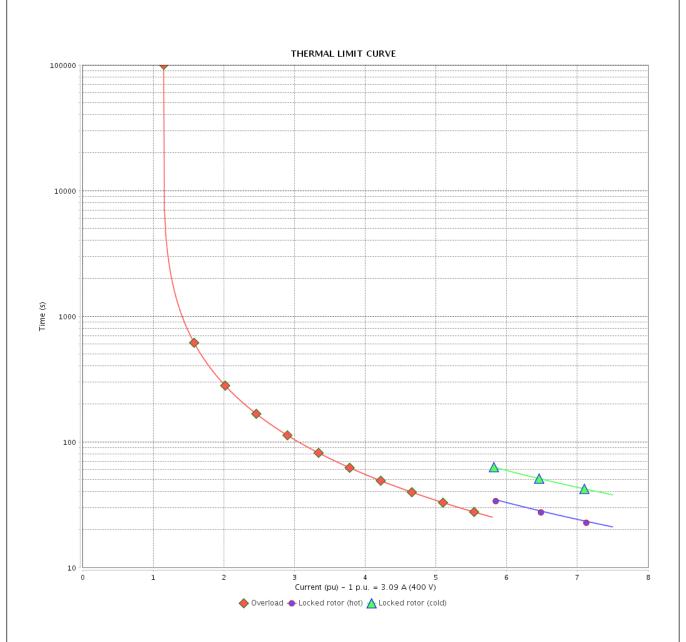


Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	14338143	
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Performance		400 V 50 Hz 2P IE3	Moment	of inartia (I)	· 0 0551 02 ft	
Rated current LRC		3.09 A 7.5	Moment o	of inertia (J) e	: 0.0551 sq.ft. : Cont.(S1)	ID
Rated torque	:	3.65 ft.lb	Insulation	class	: F	
Locked rotor torg		310 % 330 %	Service fa Temperat		: 1.00 : 80 K	
Breakdown torque Rated speed		330 % 2880 rpm	Design	uie lise	: 80 K : B	
		•				
Heating constant						
Cooling constant	L	Changes Summary		Performed	Checked	Date
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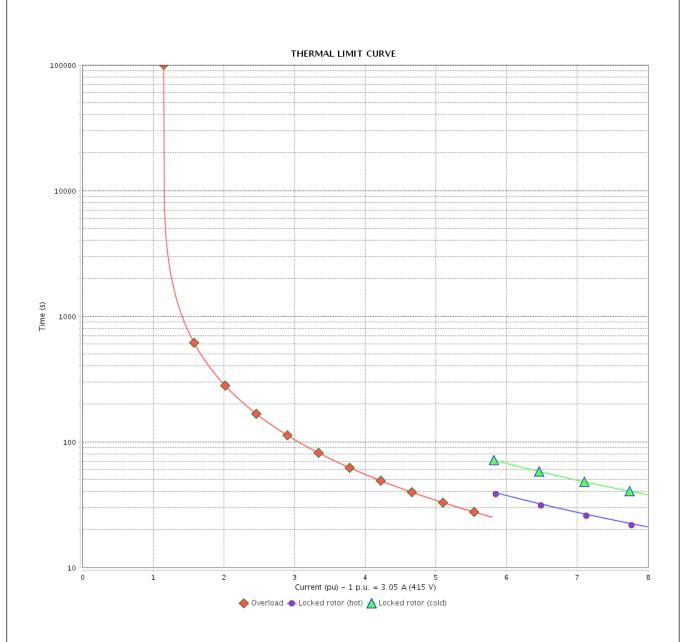


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Product line		NEMA Premium Efficiency	Three-	Product code :	14338143	
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				Catalog # :	00236XT3E1	451
Performance		15 V 50 Hz 2P IE3				
Rated current	: 3 : 8	.05 A	Moment o	of inertia (J)	: 0.0551 sq.ft.l	b
LRC Rated torque		.0 .63 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor tord	que : 3	40 %	Service fa	ector	: 1.00	
Breakdown torqu		60 %	Temperati Design	ure rise	: 80 K : B	
Rated speed		890 rpm	Design		. U	
Heating constan						
Cooling constant	τ	Changes Summary		Performed	Checked	Date
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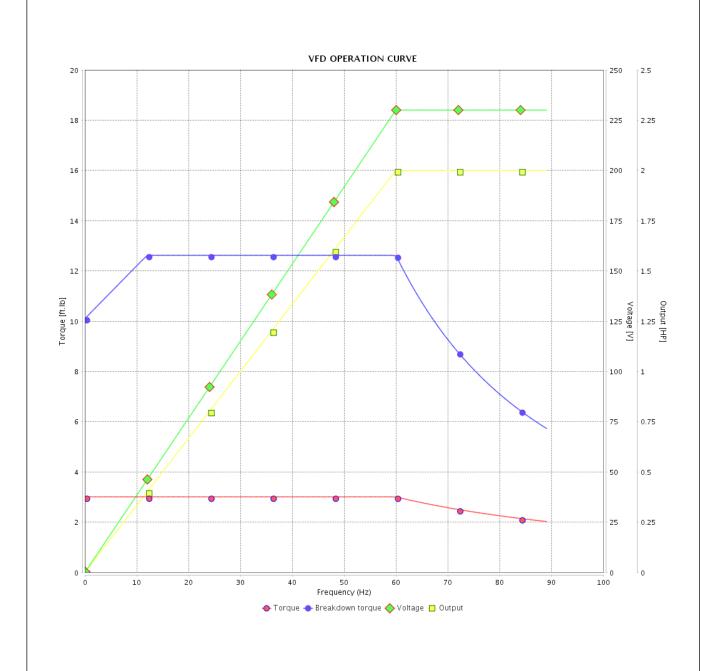


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14338143

Phase

Catalog #: 00236XT3E145T



Performance	:	230/460 V 60 Hz 2P				
Rated current	:	5.38/2.69 A	Moment o	f 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 torqu	ue :	370 %	Service fa	ctor	: 1.15	
Breakdown torque	e :	420 %	Temperati	ure rise	: 80 K	
Rated speed	:	3495 rpm	Design		: B	
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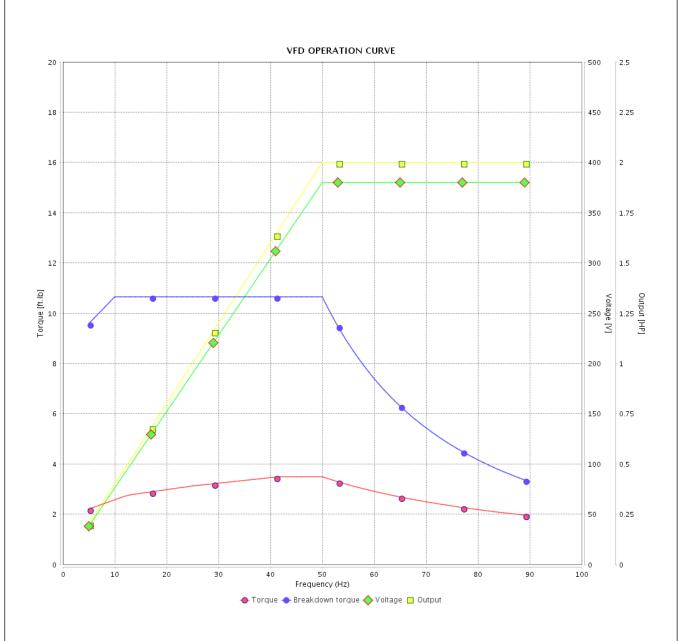
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14338143

Catalog #: 00236XT3E145T



Performance	: 3	80 V 50 Hz 2P IE2					
Rated current	: 3	.25 A	Moment o	f inertia (J)	: 0.0551 sq.ft	.lb	
LRC	: 7	.0	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque	: 3	.67 ft.lb	Insulation	class	: F		
Locked rotor tord	que : 2°	70 %	Service fa	ctor	: 1.00		
Breakdown torqu	ie : 2	90 %	Temperati	ıre rise	: 80 K		
Rated speed	: 2	860 rpm	Design		: B		
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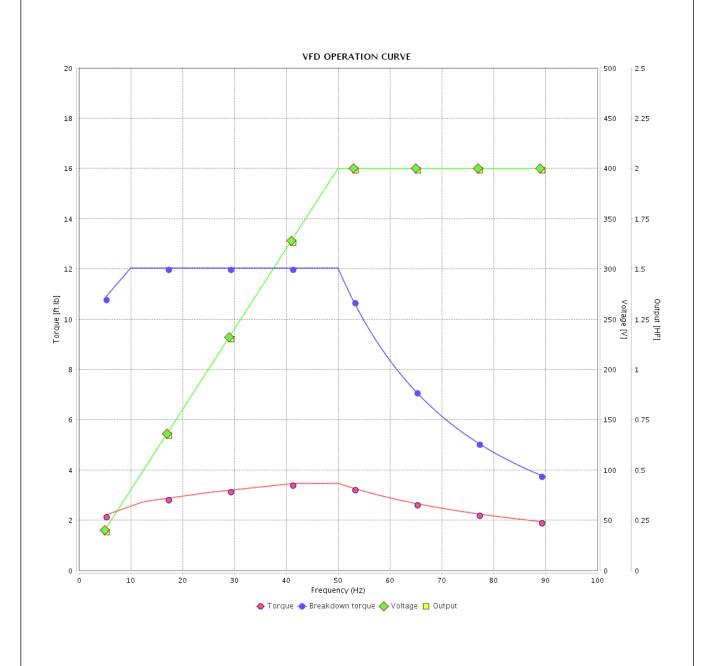
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00236XT3E145T

14338143



Performance	: 4	: 400 V 50 Hz 2P IE3						
Rated current	::	3.09 A	A Moment of inertia (J)		: 0.0551 sq.ft.lb			
LRC	: '	7.5	Duty cycle		: Cont.(S1)			
Rated torque	::	3.65 ft.lb	Insulation class		:F			
Locked rotor torq	jue ::	310 %	Service factor		: 1.00			
Breakdown torqu	ie ::	: 330 % : 2880 rpm		Temperature rise Design				
Rated speed	: :							
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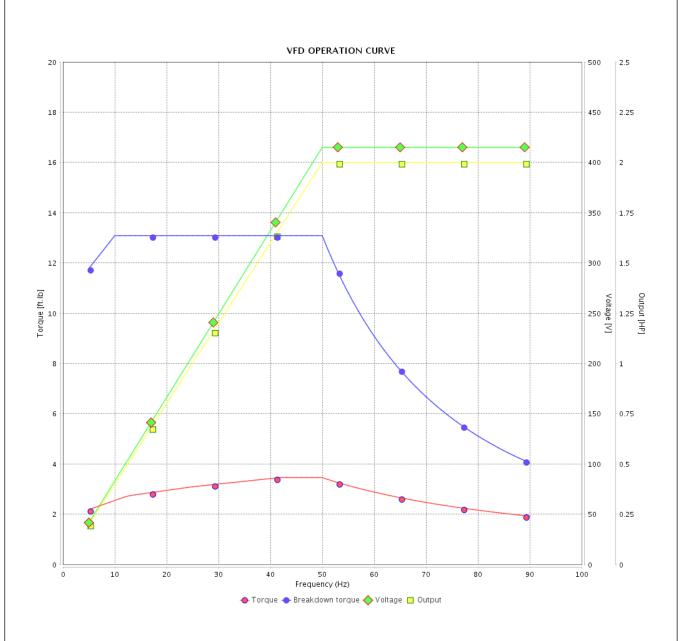
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14338143

Catalog #: 00236XT3E145T



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)	
Rated torque	: 3.63 ft.lb	Insulation class		: F	
Locked rotor torque	: 340 %	: 340 % Service factor : 360 % Temperature rise : 2890 rpm Design		: 1.00 : 80 K	
Breakdown torque	: 360 %				
Rated speed	: 2890 rpm			: B	
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