DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14345152

Catalog #: 00118XT3ER143TC

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

Insulation class Mounting : W-6

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

: -20°C to +40°C Starting method Ambient temperature : Direct On Line · 1000 m a s l

Approx weight³

Altitude		: 1000 m.a.s.l. Approx. weigh				
Protection degree		: IP55 Moment of ine		ertia (J) : 0.0975 sq.ft.lb		
Design		: B				
Output [HP]		1	1	1	1	
Poles		4	4	4	4	
Frequency [Hz]		60	50	50	50	
Rated voltage [V]		230/460	380	400	415	
Rated current [A]		2.86/1.43	1.68	1.64	1.59	
L. R. Amperes [A]		24.6/12.3	11.3	12.1	12.6	
LRC [A]		8.6x(Code M)	6.7x(Code J)	7.4x(Code K)	7.9x(Code L)	
No load current [A]	1.87/0.935	0.924	0.990	1.06	
Rated speed [RPN	<i>/</i> I]	1760	1440	1450	1450	
Slip [%]		2.22	4.00	3.33	3.33	
Rated torque [ft.lb]]	2.99	3.63	3.62	3.61	
Locked rotor torqu	e [%]	290	220	250	280	
Breakdown torque	[%]	370	250	280	310	
Service factor		1.15	1.00	1.00	1.00	
Temperature rise		80 K	80 K	80 K 80 K		
Locked rotor time		32s (cold) 18s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	
Noise level ²		51.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)	
	25%	77.3	81.2	80.7	78.4	
Efficiency (%)	50%	80.0	81.5	81.0	80.0	
Efficiency (%)	75%	82.5	82.5	82.5	82.5	
	100%	85.5	82.5	82.5	84.0	
	25%	0.32	0.37	0.34	0.32	
Power Factor	50%	0.57	0.65	0.61	0.58	
I OWEI FACIOI	75%	0.70	0.77	0.74	0.72	
	100%	0.77	0.82	0.80	0.78	

Drive end Non drive end Foundation loads

6204 2RS Bearing type 6205 2RS Max. traction : 63 lb Sealing Oil Seal Lip Seal Max. compression : 131 lb

Lubricant amount Lubricant type Mobil Polyrex EM

Notes

Lubrication interval

USABLE @208V 3.16A SF 1.15 SFA 3.64A

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

	F 11111						
ID	Application	Туре	Quantity	Sensing Temperature			
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C			

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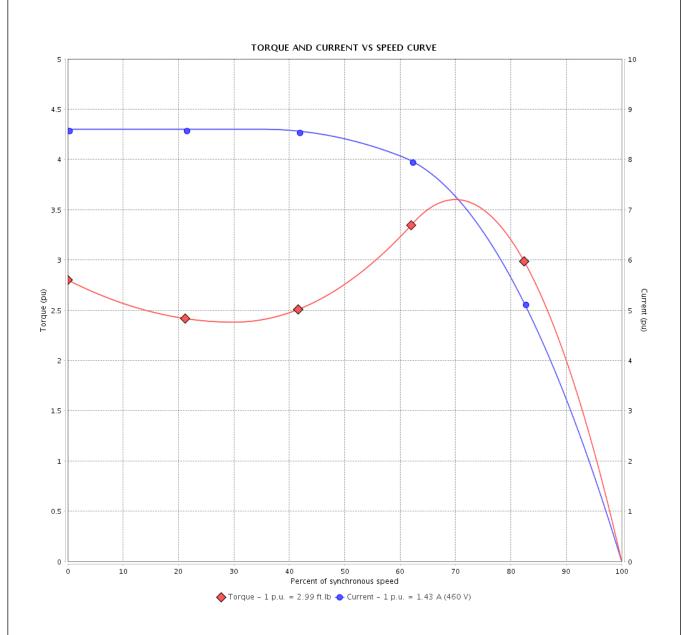


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14345152

Phase

Catalog #: 00118XT3ER143TC



Performance	: 230/460 V 60 Hz 4P		
Rated current	: 2.86/1.43 A	Moment of inertia (J)	: 0.0975 sq.ft.lb
LRC	: 8.6	Duty cycle	: Cont.(S1)
Rated torque	: 2.99 ft.lb	Insulation class	:F
Locked rotor torque	: 290 %	Service factor	: 1.15
Breakdown torque	: 370 %	Temperature rise	: 80 K
Rated speed	: 1760 rpm	Design	: B
Locked rotor time	: 32s (cold) 18s (hot)		

Locked rotor time : 32s (cold) 18s (hot)

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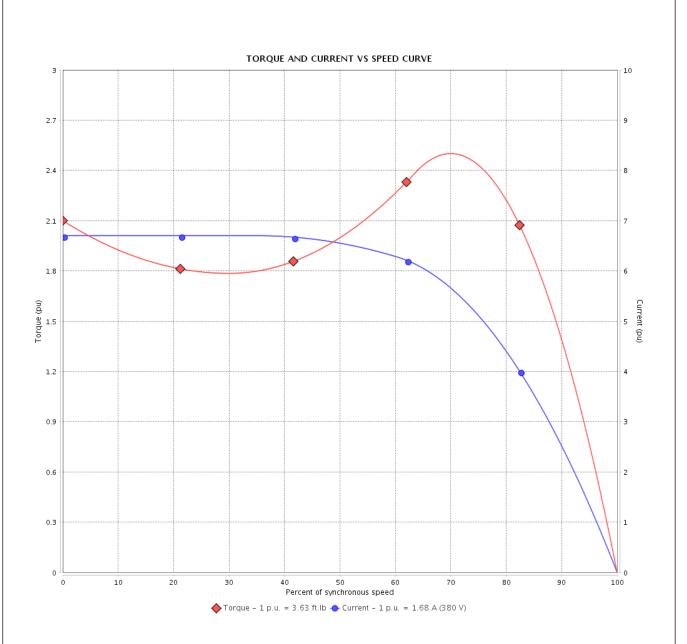
Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #:

14345152

00118XT3ER143TC



Performance : 380 V 50 Hz 4P IE3 Rated current : 1.68 A Moment of inertia (J) : 0.0975 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 3.63 ft.lb Service factor Locked rotor torque : 220 % : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1440 rpm Design : B Locked rotor time

: 36s (cold) 20s (hot)

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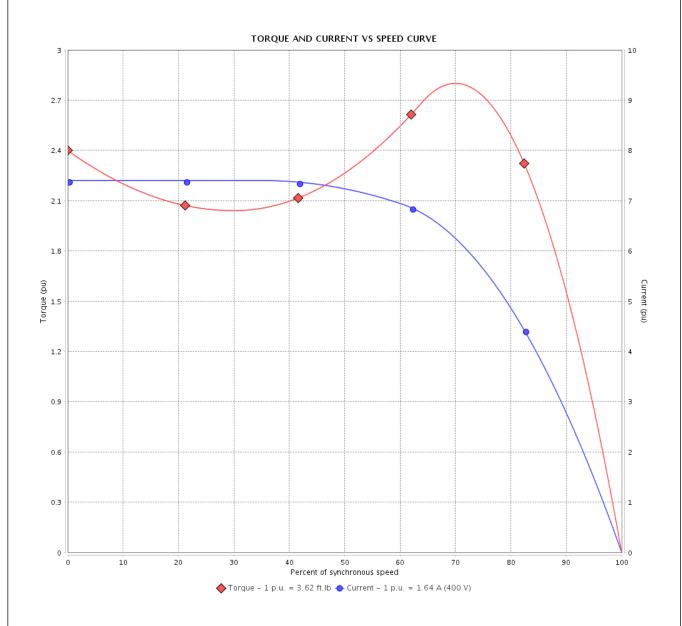
Customer :

Product line : NEMA Premium Efficiency Three- Product of

Phase

Product code: 14345152

Catalog #: 00118XT3ER143TC



Performance	: 400 V 50 Hz 4P IE3		
Rated current	: 1.64 A	Moment of inertia (J)	: 0.0975 sq.ft.lb
LRC	: 7.4	Duty cycle	: Cont.(S1)
Rated torque	: 3.62 ft.lb	Insulation class	:F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1450 rpm	Design	: B
Locked rotor time	: 36s (cold) 20s (bot)		

Locked rotor time : 36s (cold) 20s (hot)

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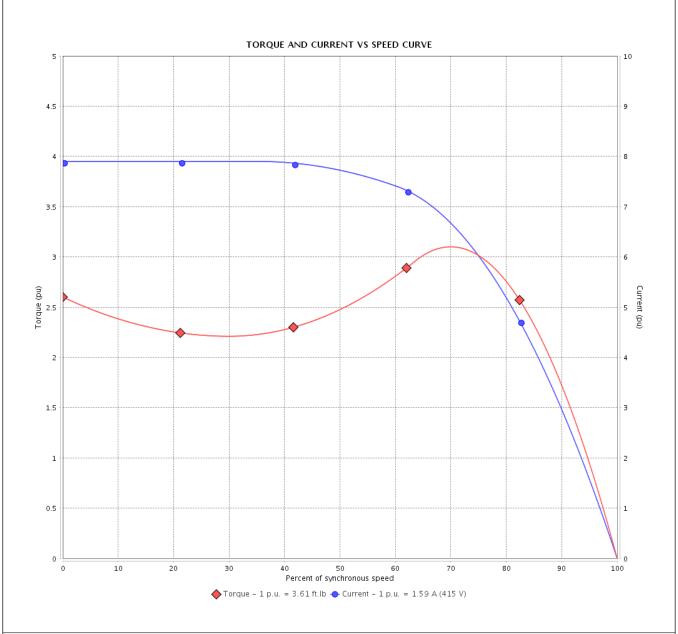
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14345152

Catalog #: 00118XT3ER143TC



Performance : 415 V 50 Hz 4P IE3 Rated current : 1.59 A Moment of inertia (J) : 0.0975 sq.ft.lb **LRC** : 7.9 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 3.61 ft.lb Service factor Locked rotor torque : 280 % : 1.00 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1450 rpm Design : B

Locked rotor time : 36s (cold) 20s (hot)

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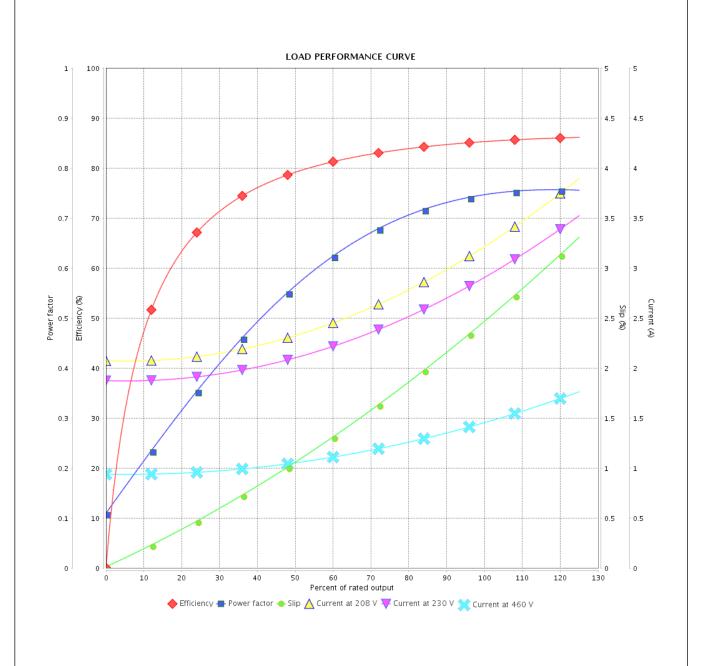


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14345152

Phase

Catalog #: 00118XT3ER143TC



Performance	:	230/460 V 60 Hz 4P					
Rated current	::	2.86/1.43 A	Moment o	f inertia (J)	: 0.0975 sq.ft.lb		
LRC	:	8.6	Duty cycle	;	: Cont.(S1)		
Rated torque	::	2.99 ft.lb	Insulation	class	: F		
Locked rotor torque	e ::	290 %	Service fa	ctor	: 1.15		
Breakdown torque	:	370 %	Temperature rise		: 80 K		
Rated speed	:	1760 rpm Design		: B			
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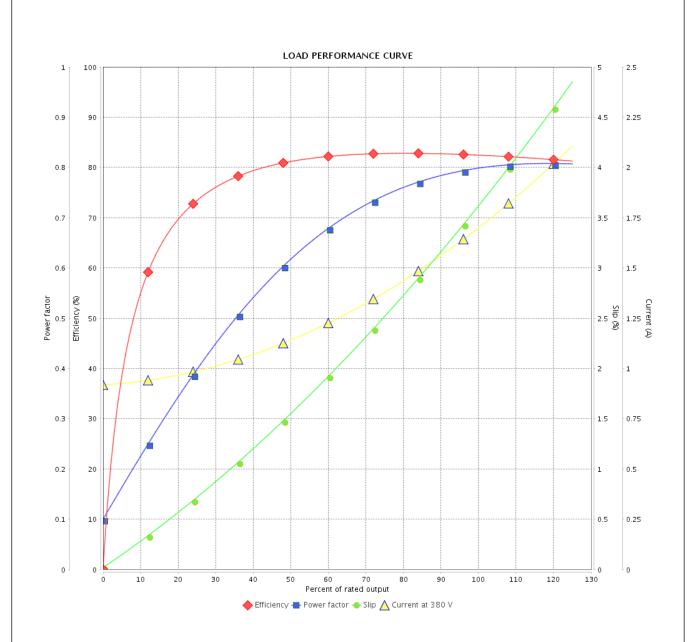
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Performance	: 380 V 50 Hz 4P IE3				
Rated current	: 1.68 A	Moment of inertia (J)		: 0.0975 sq.ft.	lb
LRC	: 6.7	Duty cycle		: Cont.(S1)	
Rated torque	: 3.63 ft.lb	Insulation	class	: F	
Locked rotor torque	: 220 %	Service factor		: 1.00	
Breakdown torque	: 250 %	Temperature rise		: 80 K	
Rated speed	: 1440 rpm	Design		: B	
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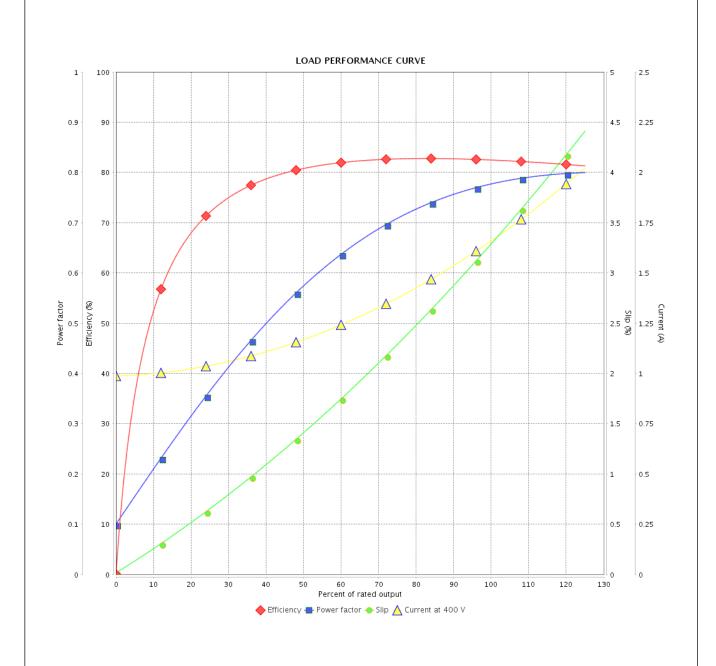


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Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 00118XT3ER143TC

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Performance	: 4	00 V 50 Hz 4P IE3				
Rated current	: 1	.64 A	Moment of inertia (J)		: 0.0975 sq.ft	.lb
LRC	: 7	'.4	Duty cycle	}	: Cont.(S1)	
Rated torque	: 3	3.62 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	250 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	80 %	Temperature rise		: 80 K	
Rated speed	: 1	450 rpm	Design		: B	
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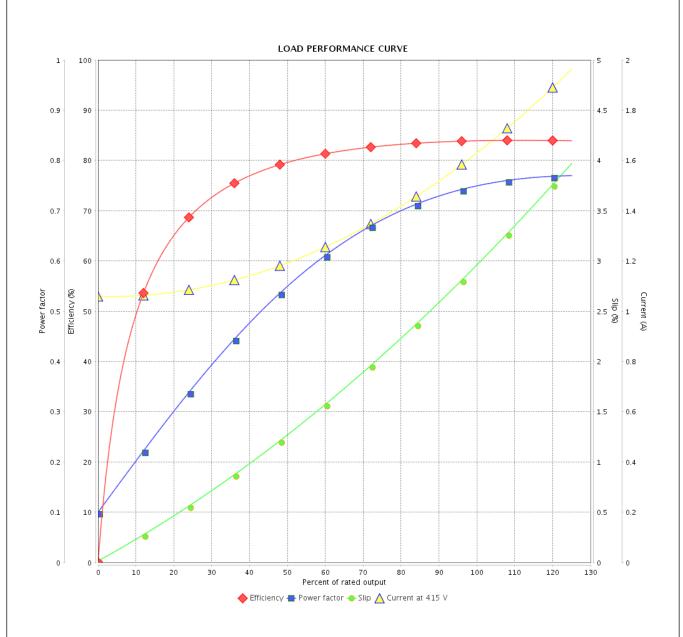
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Phase

Product code: 14345152

Catalog #: 00118XT3ER143TC



Performance	: 415 V 50 Hz 4P IE3				
Rated current	: 1.59 A	Moment of inertia (J)		: 0.0975 sq.ft.lb	
LRC	: 7.9 Duty cycle		9	: Cont.(S1)	
Rated torque	: 3.61 ft.lb	Insulation class Service factor Temperature rise		: F : 1.00 : 80 K	
Locked rotor torque	: 280 %				
Breakdown torque	: 310 %				
Rated speed	: 1450 rpm	Design		: B	
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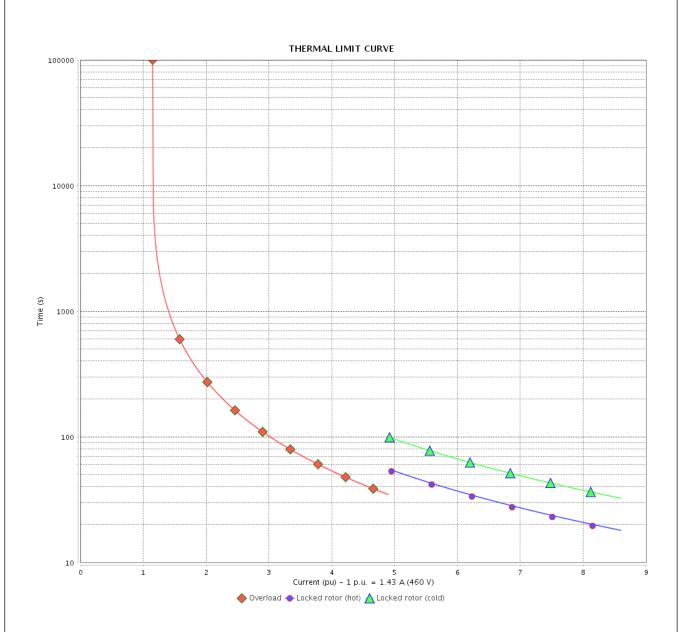


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Product line		NEMA Premium Efficiency	Three-	Product code :	14345152	
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				Catalog # :	00118XT3EF	R1431C
Performance	: 2	230/460 V 60 Hz 4P				
Rated current		2.86/1.43 A	Moment of	of inertia (J)	: 0.0975 sq.ft.	lb
LRC		3.6 2.99 ft.lb	Duty cycle Insulation	e Lalana	: Cont.(S1) : F	
Rated torque Locked rotor tord		2.99 ILID 290 %	Service fa		: 1.15	
Breakdown torqu	ue :3	370 %	Temperat		: 80 K	
Rated speed	:1 —————	1760 rpm	Design		: B	
Heating constan						
Cooling constan	t	01 0				
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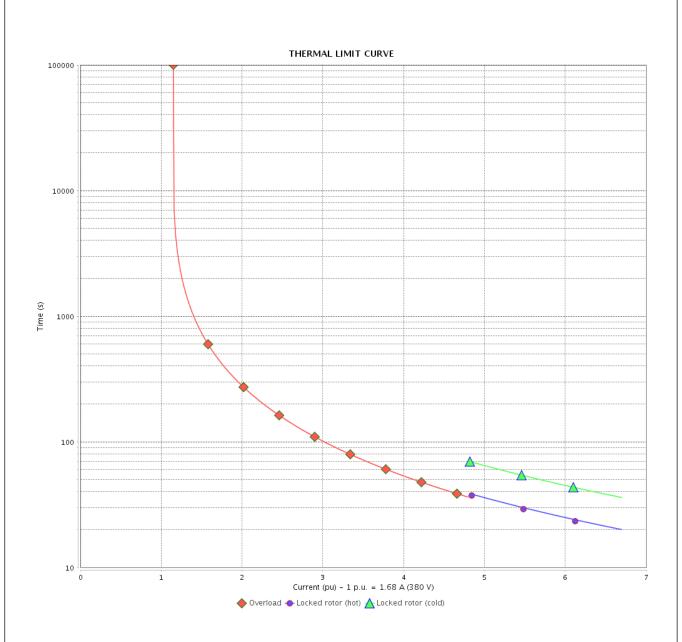


Customer	:					
Product line	: I P	NEMA Premium Efficiency hase		Product code : Catalog # :	14345152 00118XT3E	R143TC
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: 1. : 6. : 3. que : 22 ue : 29	80 V 50 Hz 4P IE3 68 A .7 63 ft.lb 20 % 50 % 440 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ictor	: 0.0975 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : B	lb
Heating constan Cooling constan Rev.		Changes Summary		Performed	Checked	Date
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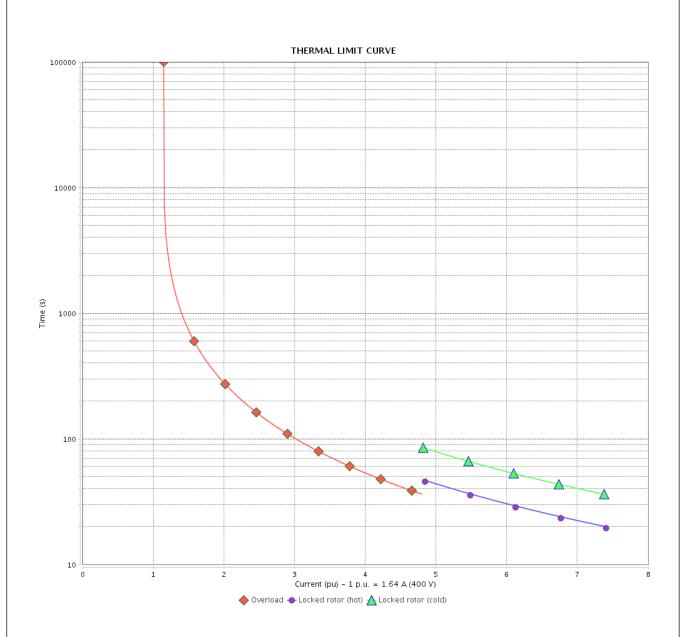


Customer	:					
Product line	: I P	NEMA Premium Efficiency [·] hase		Product code : Catalog # :	14345152 00118XT3E	R143TC
Performance	: 40	00 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7. : 3. que : 29 ue : 28	.64 A .4 .62 ft.lb 50 % 80 % 450 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ictor	: 0.0975 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : B	lb
Heating constant						
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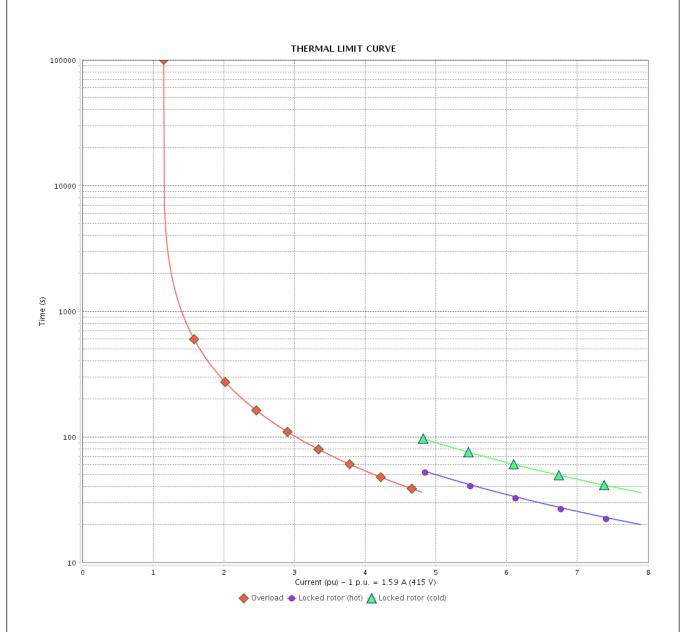


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Product line	: I P	NEMA Premium Efficiency hase		Product code : Catalog # :	14345152 00118XT3E	R143TC
Performance		15 V 50 Hz 4P IE3		figatio (I)	0.0075 (4	The state of the s
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7. : 3. que : 28 ue : 3°	.59 A .9 .61 ft.lb 80 % 10 % 450 rpm	Duty cycle Insulation Service fa Temperati Design	class actor	: 0.0975 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : B	lb
Heating constant						
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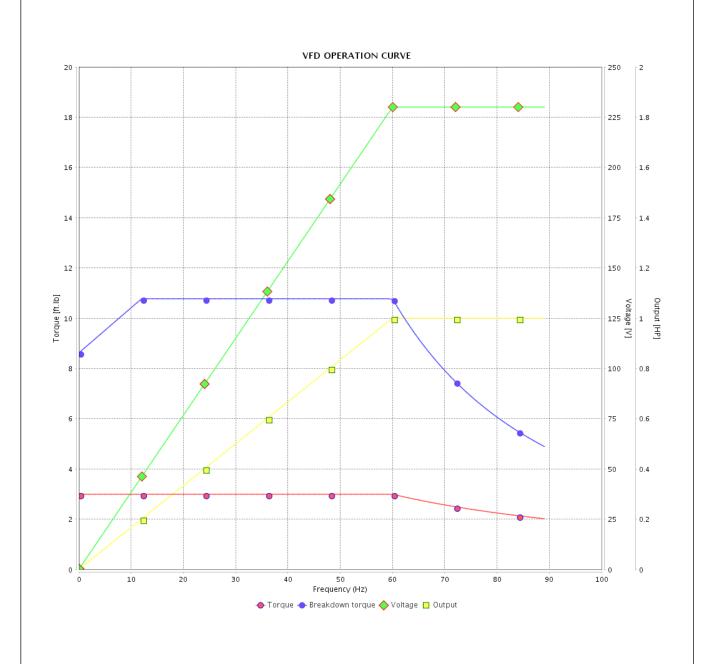
Customer

Product line : NEMA Premium Efficiency Three-

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Catalog #: 00118XT3ER143TC



Performance	: 2	30/460 V 60 Hz 4P				
Rated current	: 2	.86/1.43 A	Moment o	f inertia (J)	: 0.0975 sq.ft.	lb
LRC	: 8	.6	Duty cycle	;	: Cont.(S1)	
Rated torque	: 2	.99 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	90 %	Service fa	ctor	: 1.15	
Breakdown torque	: 3	70 %	Temperature rise		: 80 K	
Rated speed	: 1	760 rpm	Design		: B	
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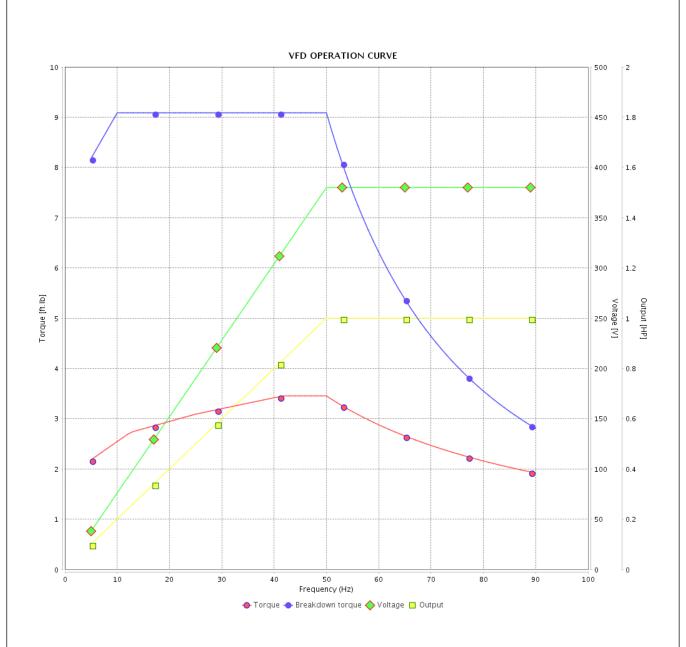
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Product line : NEMA Premium Efficiency Three-

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Product code: 14345152

Catalog #: 00118XT3ER143TC



Performance : 380 V 50 Hz 4P IE3 : 1.68 A Rated current Moment of inertia (J) : 0.0975 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 3.63 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1440 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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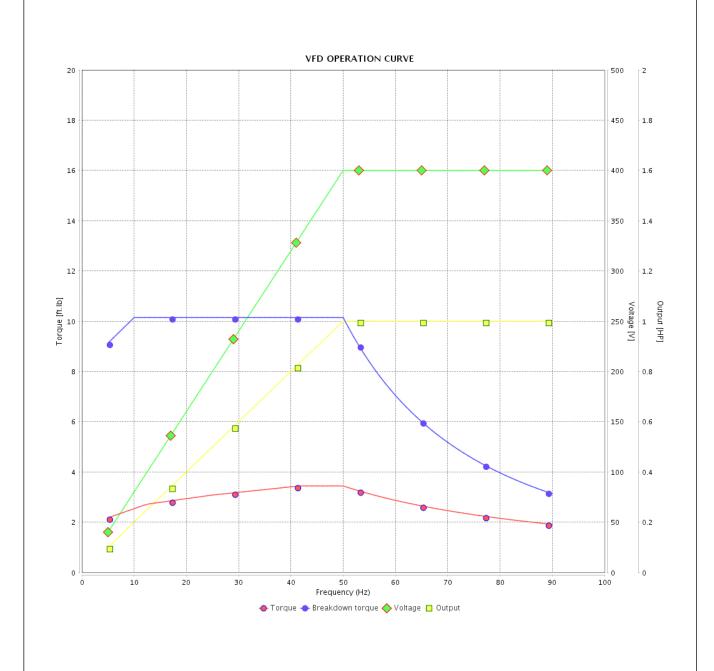
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00118XT3ER143TC

14345152



Performance	: 4	: 400 V 50 Hz 4P IE3					
Rated current	: 1	.64 A	Moment of	Moment of inertia (J)		: 0.0975 sq.ft.lb	
LRC	: 7	.4	Duty cycle	e ` ´	: Cont.(S1)		
Rated torque	: 3	5.62 ft.lb Insulation class		:F ` ´			
Locked rotor tord	que : 2	50 %	Service factor		: 1.00		
Breakdown torqu	ie : 2	80 %	Temperature rise		: 80 K		
Rated speed	: 1	: 1450 rpm			: B		
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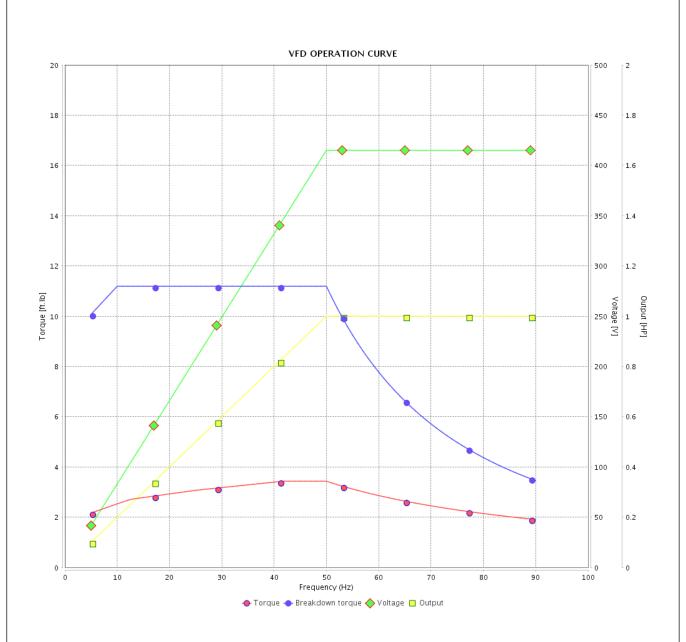
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Performance : 415 V 50 Hz 4P IE3 : 1.59 A Rated current Moment of inertia (J) : 0.0975 sq.ft.lb **LRC** : 7.9 Duty cycle : Cont.(S1) : 3.61 ft.lb Insulation class : F Rated torque Locked rotor torque : 280 % Service factor : 1.00 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1450 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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