### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14293169

Catalog #: 00158XT3ER145TC

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

Insulation class Mounting : W-6

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

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

· 1000 m a s l Approx weight<sup>3</sup>

Altitude		: 1000 m.a.s.l. Approx. weight				
Protection degre	е	: IP55	Moment of ine	ertia (J) : 0.13	03 sq.ft.lb	
Design		: B				
Output [HP]		1.5	1.5	1.5	1.5	
Poles		4	4	4	4	
Frequency [Hz]		60	50	50	50	
Rated voltage [V]		230/460	380	400	415	
Rated current [A]		4.10/2.05	2.40	2.33	2.27	
L. R. Amperes [A]		36.5/18.2	15.8	16.8	17.5	
LRC [A]		8.9x(Code L)	6.6x(Code H)	7.2x(Code J)	7.7x(Code K)	
No load current [A	]	2.40/1.20	1.20	1.30	1.40	
Rated speed [RPN	<i>/</i> I]	1755	1440	1445	1450	
Slip [%]		2.50	4.00	3.67	3.33	
	Rated torque [ft.lb]		5.47	5.45	5.43	
	Locked rotor torque [%]		200	229	250	
Breakdown torque	Breakdown torque [%]		260	290	320	
Service factor		1.15	1.00			
Temperature rise		80 K	80 K	80 K	80 K	
Locked rotor time		25s (cold) 14s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	
Noise level <sup>2</sup>		51.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)	
	25%	80.2	83.7	83.7	80.9	
Efficiency (%)	50%	81.5	84.0	84.0	82.5	
Efficiency (70)	75%	85.5	84.0	84.0	84.0	
	100%	86.5	84.0	84.0	85.5	
	25%	0.34	0.39	0.35	0.33	
Power Factor	50%	0.58	0.66	0.62	0.58	
I OWEI FACIOI	75%	0.70	0.77	0.74	0.71	
	100%	0.78	0.83	0.81	0.79	

Drive end Non drive end Foundation loads

6204 2RS Bearing type 6205 2RS Max. traction : 114 lb Sealing Oil Seal Lip Seal Max. compression : 188 lb

Lubricant amount Lubricant type Mobil Polyrex EM

Notes

Lubrication interval

USABLE @208V 4.53A SF 1.15 SFA 5.21A

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

### Three Phase Induction Motor - Squirrel Cage



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Customer	

#### Thermal protection

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

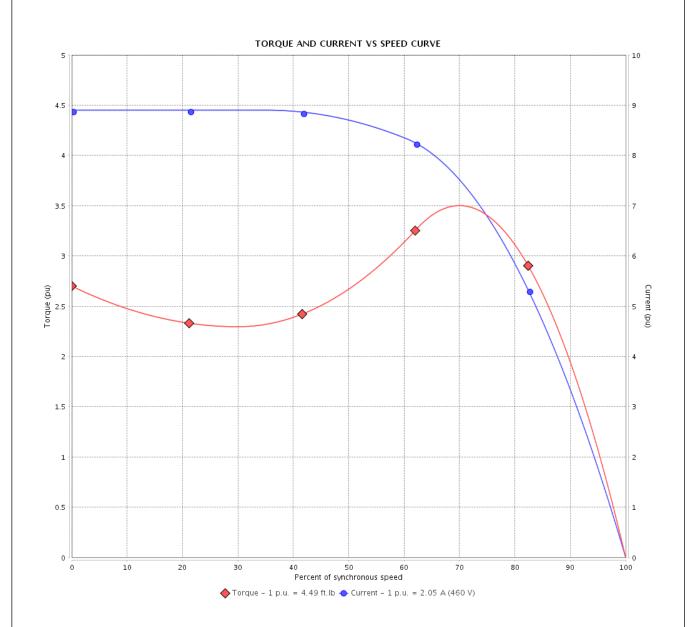
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Product code : 14293169
Phase Catalog # : 00158XT3ER145TC



Performance : 230/460 V 60 Hz 4P Rated current : 4.10/2.05 A Moment of inertia (J) : 0.1303 sq.ft.lb LRC : 8.9 Duty cycle : Cont.(S1) : 4.49 ft.lb Insulation class : F Rated torque : 270 % Locked rotor torque Service factor : 1.15 Breakdown torque : 350 % Temperature rise : 80 K : B Rated speed : 1755 rpm Design Locked rotor time : 25s (cold) 14s (hot)

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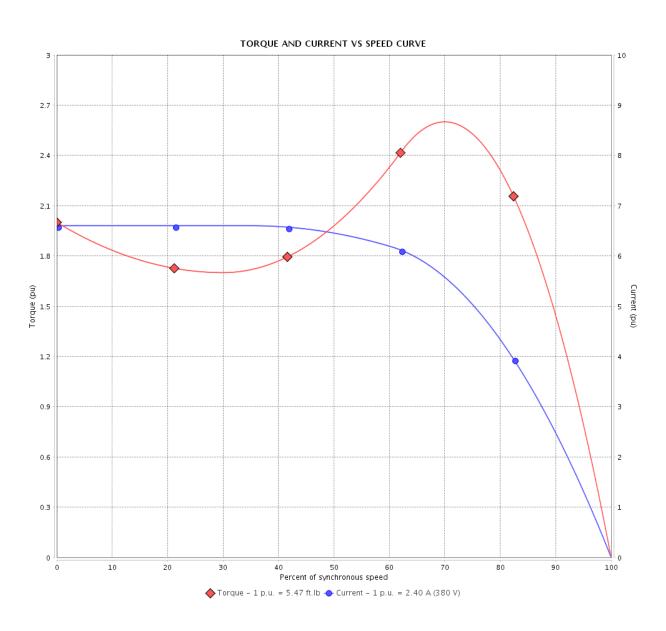
Customer :

Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 14293169

Catalog #: 00158XT3ER145TC



Performance : 380 V 50 Hz 4P IE2 Rated current : 2.40 A Moment of inertia (J) : 0.1303 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) : 5.47 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1440 rpm Design : B

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

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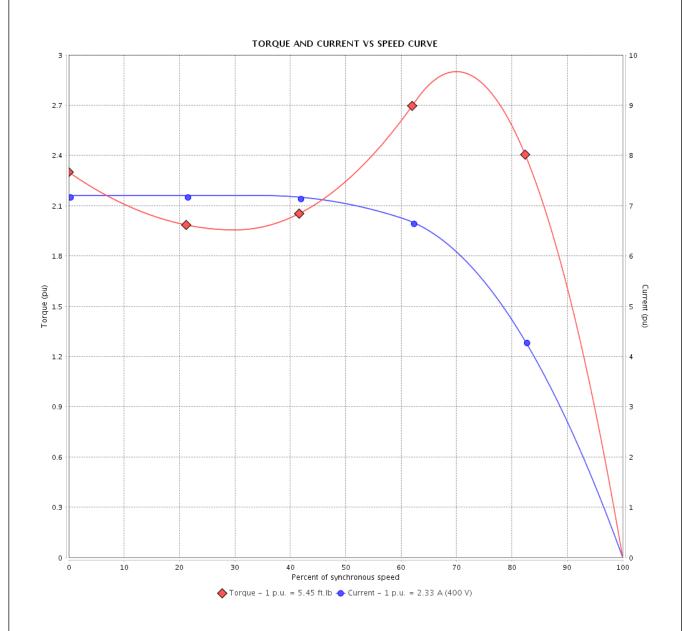


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14293169

Phase

Catalog #: 00158XT3ER145TC



Performance	: 400 V 50 Hz 4P IE2		
Rated current	: 2.33 A	Moment of inertia (J)	: 0.1303 sq.ft.lb
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 5.45 ft.lb	Insulation class	:F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 1445 rpm	Design	: B
Locked rotor time	: 27s (cold) 15s (bot)		

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

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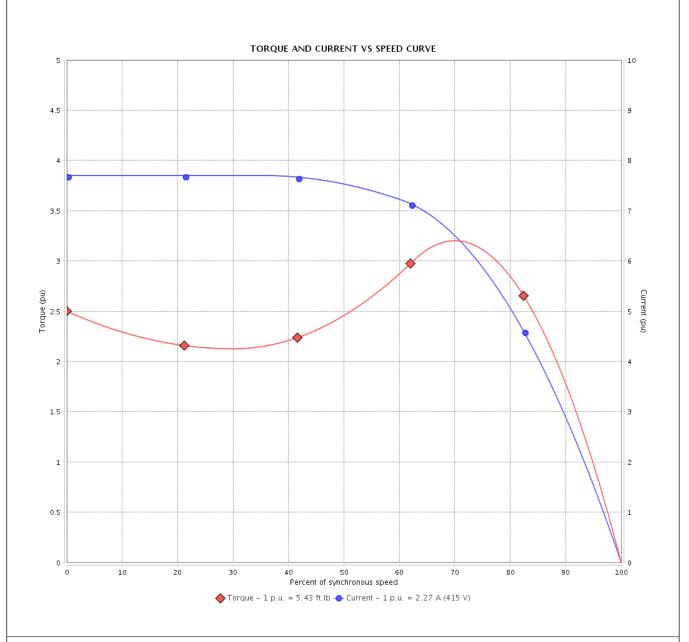


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 14293169

Catalog #: 00158XT3ER145TC



Performance : 415 V 50 Hz 4P IE3 Rated current : 2.27 A Moment of inertia (J) : 0.1303 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) : F : 5.43 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 250 % : 1.00 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : B

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

: 1450 rpm

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Design

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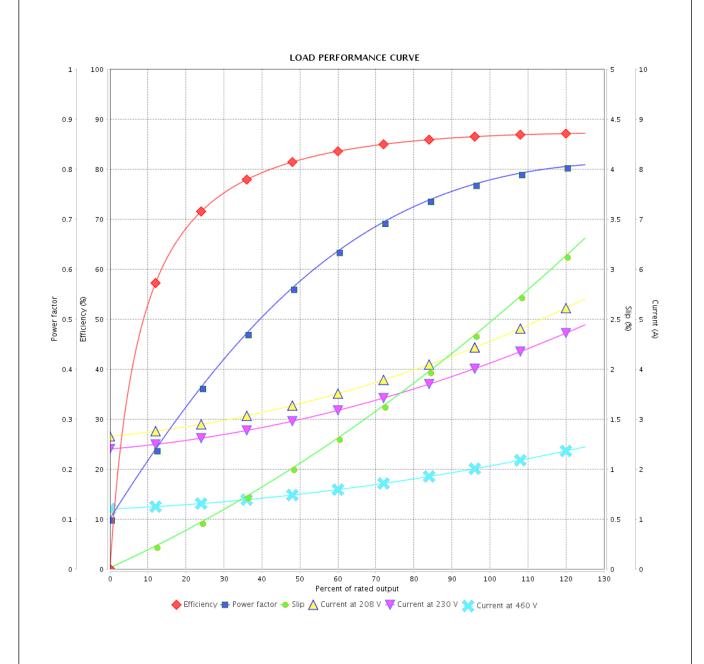


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14293169

Phase

Catalog #: 00158XT3ER145TC



Performance	: 2	230/460 V 60 Hz 4P					
Rated current		4.10/2.05 A	Moment o	Moment of inertia (J)		.lb	
LRC	: 8	8.9	Duty cycle	)	: Cont.(S1)		
Rated torque	: 4	4.49 ft.lb	Insulation	class	: F		
Locked rotor torqu	e : 2	270 %	Service fa	ctor	: 1.15		
Breakdown torque	::	350 %	Temperati	Temperature rise		: 80 K	
Rated speed : 1755 rpm		1755 rpm	Design		: B		
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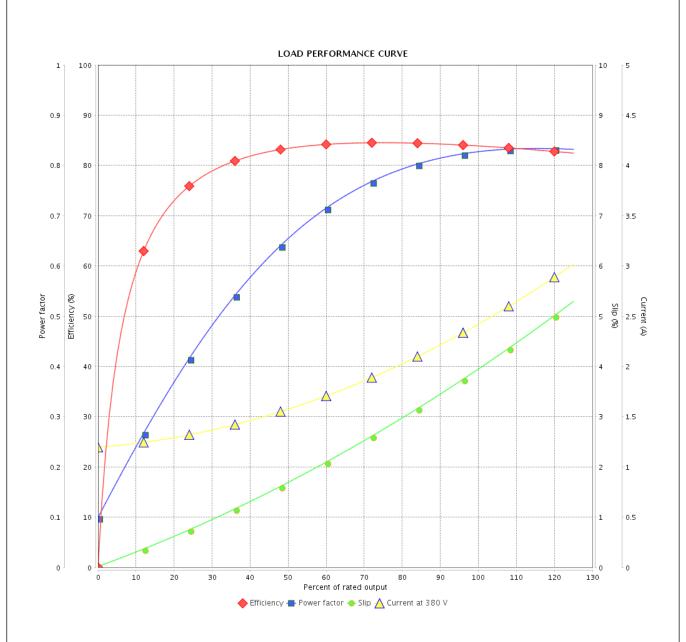
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00158XT3ER145TC

14293169



Performance : 380 V 50 Hz 4P IE2 : 2.40 A Rated current Moment of inertia (J) : 0.1303 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.6 : 5.47 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1440 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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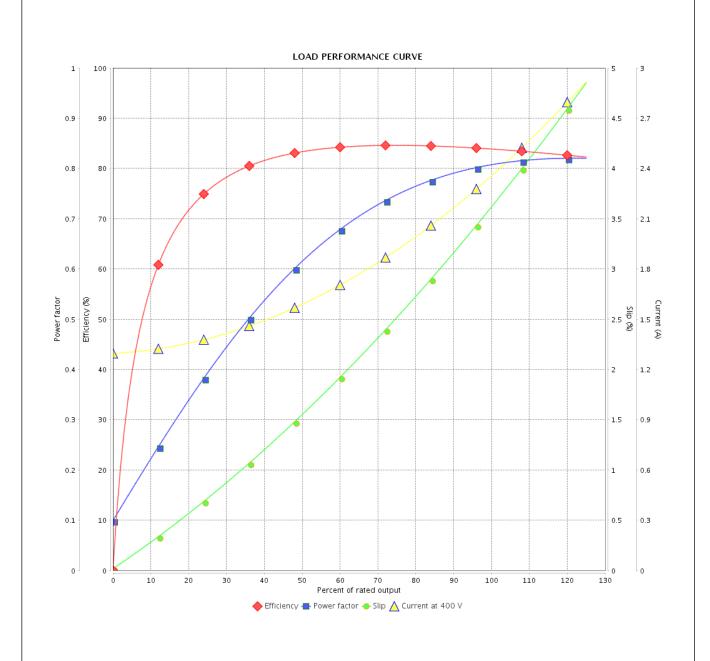


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Product line : NEMA Premium Efficiency Three- Product code : 14293169

Phase

Catalog #: 00158XT3ER145TC



Performance : 400 V 50 Hz 4P IE2		
Rated current : 2.33 A Moment of inertia (J)	: 0.1303 sq.ft	t.lb
LRC : 7.2 Duty cycle	: Cont.(S1)	
Rated torque : 5.45 ft.lb Insulation class	: F	
Locked rotor torque : 229 % Service factor	: 1.00	
Breakdown torque : 290 % Temperature rise	: 80 K	
Rated speed : 1445 rpm Design	: B	
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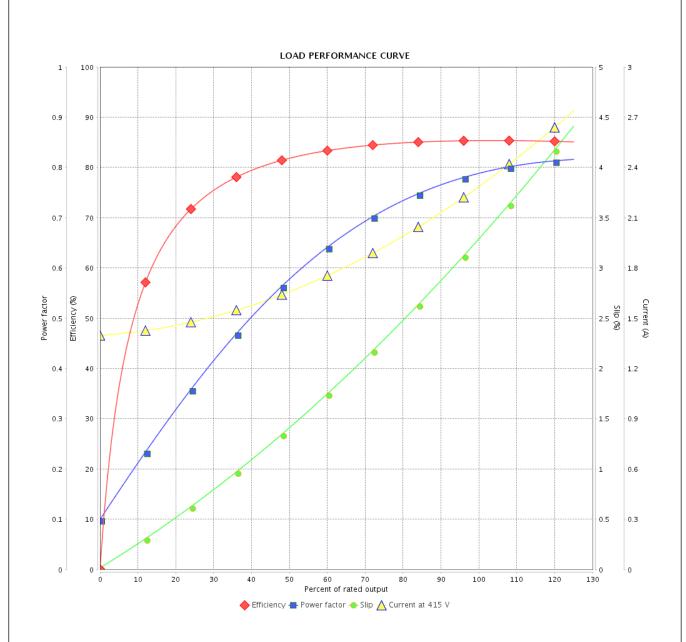
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance	: 415 V 50 Hz 4P IE3				
Rated current : 2.27 A		Moment of inertia (J)		: 0.1303 sq.ft.lb	
LRC	: 7.7	Duty cycle		: Cont.(S1)	
Rated torque : 5.43 ft.lb		Insulation	class	: F	
Locked rotor torque	: 250 %	Service factor Temperature rise		: 1.00 : 80 K	
Breakdown torque	: 320 %				
Rated speed	: 1450 rpm	Design		: B	
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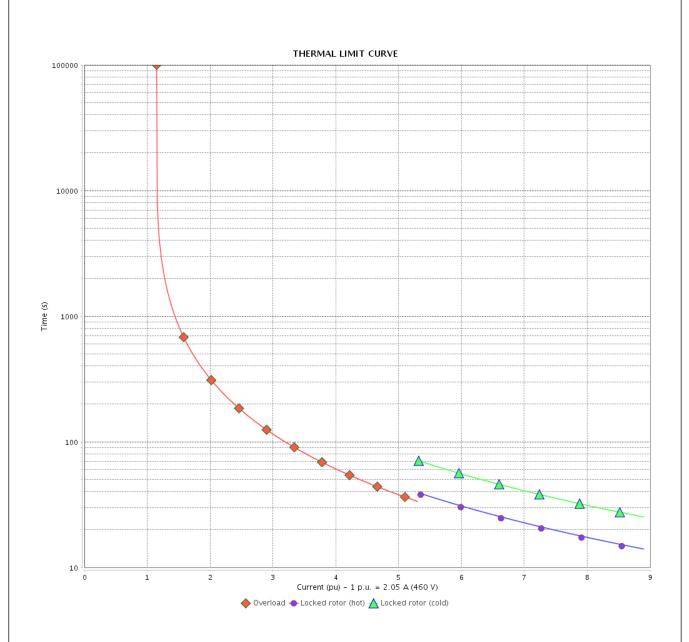


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Product line		NEMA Premium Efficiency	Three-	Product code :	14293169	
T Toddot IIIIo	P	hase				D145TC
				Catalog # :	00158XT3EI	R145TC
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torqu Rated speed	: 4 : 8 : 4 !ue : 2 !e : 3 : 1	30/460 V 60 Hz 4P .10/2.05 A .9 .49 ft.lb 70 % 50 % 755 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 0.1303 sq.ft. : Cont.(S1) : F : 1.15 : 80 K : B	lb
Heating constant Cooling constant				,	· · · · · · · · · · · · · · · · · · ·	
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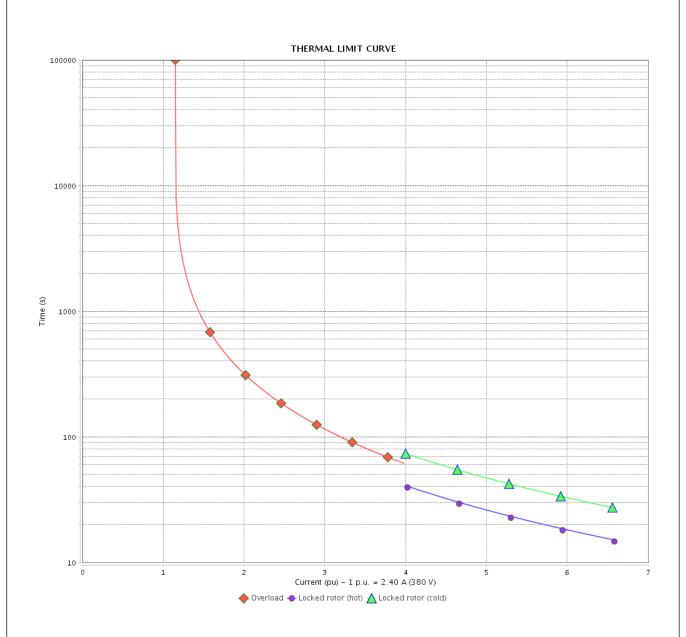


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Product line	:	NEMA Premium Efficiency	Three-	Product code :	14293169	
		Phase		Catalog # :	00158XT3ER145TC	
Performance Rated current RC Rated torque ocked rotor toro	: 2 : 6 : 5 que : 2	80 V 50 Hz 4P IE2 .40 A .6 .47 ft.lb 00 % 60 %	Moment of Duty cycle Insulation Service fa	class actor	: 0.1303 sq.ft. : Cont.(S1) : F : 1.00 : 80 K	lb
Rated speed Heating constant	: 1	440 rpm	Design		: B	
Cooling constant Rev.	<u> </u>	Changes Summary		Performed	Checked	Date
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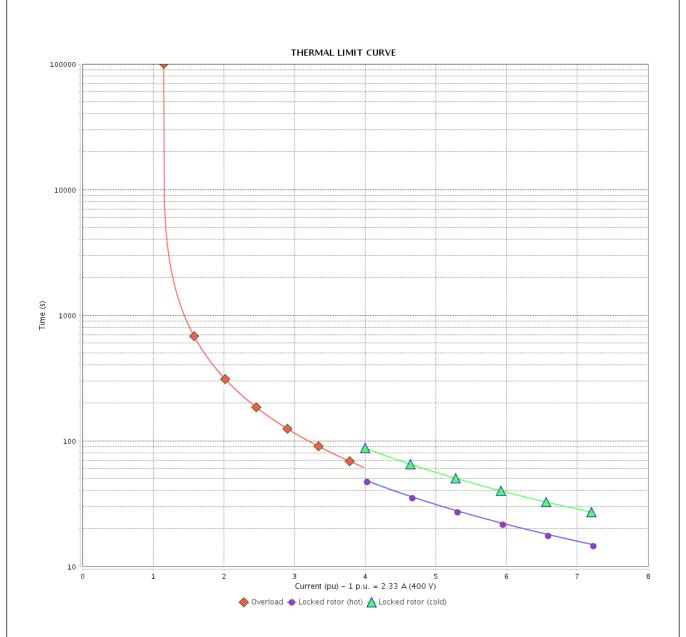


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Product line		NEMA Premium Efficiency	Three-	Product code :	14293169	
1 Toddot III To	P	hase				D145TC
				Catalog #:	00158XT3EI	R1451C
Performance Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed Heating constant	: 2 : 7 : 5 ue : 2 e : 2 : 1	00 V 50 Hz 4P IE2 .33 A .2 .45 ft.lb 29 % 90 % 445 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 0.1303 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : B	lb
Cooling constant  Rev.		Changes Summary		Performed	Checked	Date
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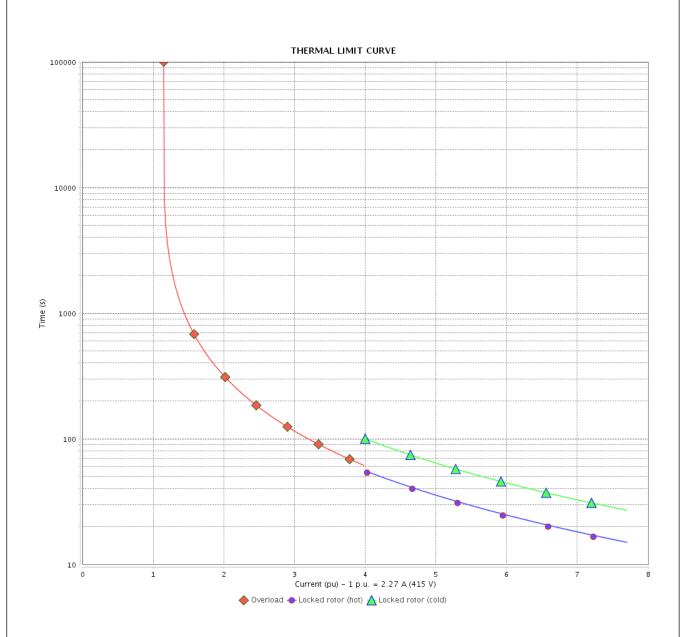


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Product line		NEMA Premium Efficiency	Three-	Product code :	14293169	
T Todaot IIIIo	P	hase				D145TC
				Catalog #:	00158XT3EI	R145TC
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed Heating constan	: 2 : 7 : 5 que : 2 ue : 3.	15 V 50 Hz 4P IE3 .27 A .7 .43 ft.lb 50 % 20 % 450 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 0.1303 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : B	lb
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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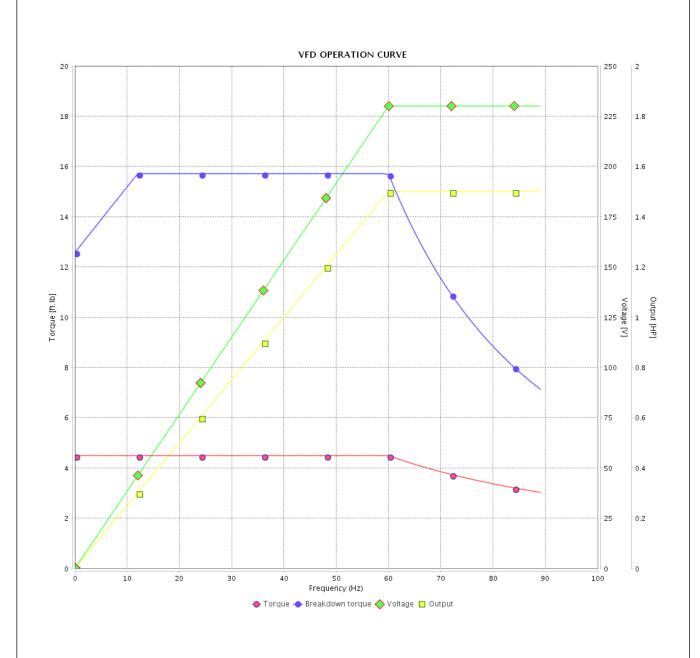
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Performance	: 230/460 V	′ 60 Hz 4P			
Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	•	Duty cycle Insulation Service fa Temperati	class ctor	: 0.1303 sq.ft : Cont.(S1) : F : 1.15 : 80 K : B	.lb
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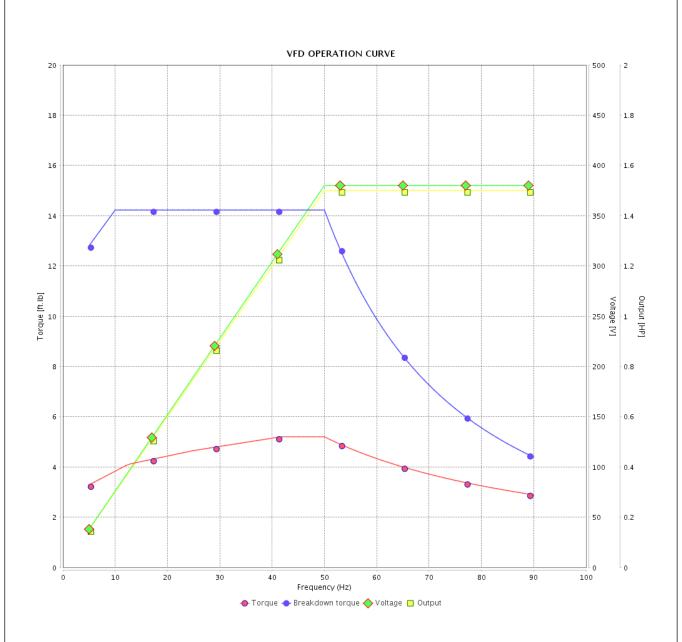
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Phase

Product code: 14293169

Catalog #: 00158XT3ER145TC



Performance : 380 V 50 Hz 4P IE2 : 2.40 A Rated current Moment of inertia (J) : 0.1303 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.6 : 5.47 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1440 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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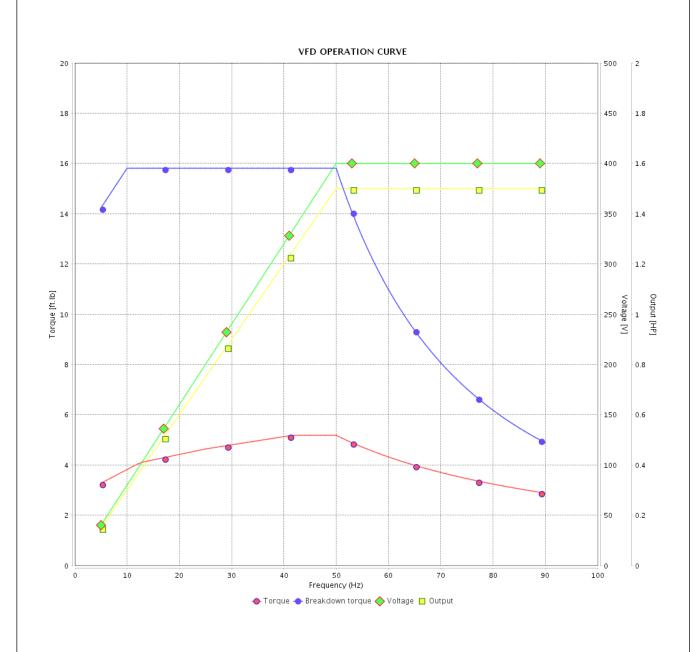
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Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.33 A : 7.2 : 5.45 ft.lb : 229 % : 290 % : 1445 rpm	Moment of inertia (J) : 0.1303 sq.ft.lb  Duty cycle : Cont.(S1)  Insulation class : F  Service factor : 1.00  Temperature rise : 80 K  Design : B		0	
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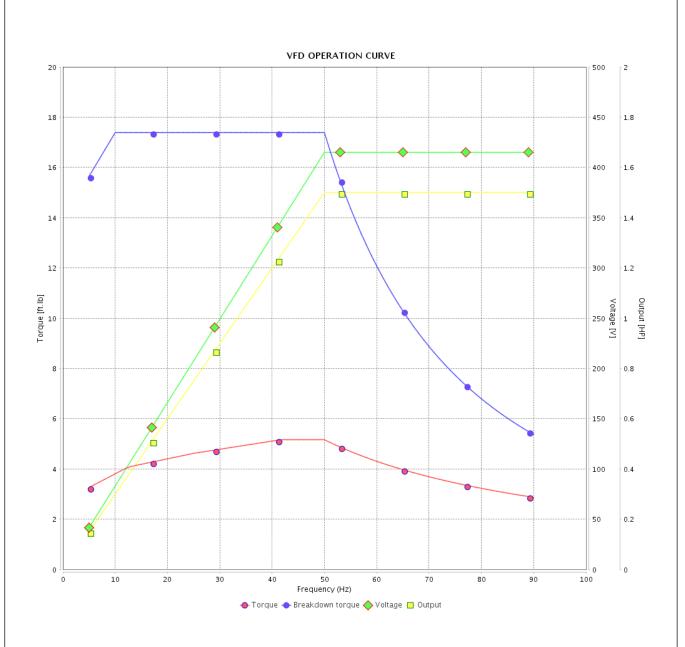
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14293169

Catalog #: 00158XT3ER145TC



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7 : 5 jue : 2 ie : 3	2.27 A 2.7 3.43 ft.lb 550 % 20 % 450 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 0.1303 sq.ft.l : Cont.(S1) : F : 1.00 : 80 K : B	b
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