DATA SHEET

Three Phase Induction Motor - Squirrel Cage



5.43

Product line : NEMA Premium Efficiency Three-Product code: 14319266

Catalog #: 00158XT3E145T

5.45

Frame : 143/5T 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. Approx. weight³ : 73.4 lb Altitude Moment of inertia (J) : 0.1303 sq.ft.lb

: IP55 Protection degree

4.49

Design : B Output [HP] 1.5 1.5 1.5 1.5 Poles 4 4 4 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 4.10/2.05 2.27 2.40 2.33 36.5/18.2 L. R. Amperes [A] 15.8 16.8 17.5 LRC [A] 6.6x(Code H) 7.2x(Code J) 7.7x(Code K) 8.9x(Code L) No load current [A] 2.40/1.20 1.20 1.30 1.40 Rated speed [RPM] 1755 1440 1445 1450 Slip [%] 2.50 4.00 3.67 3.33

Rated torque [ft.lb] Locked rotor torque [%] 270 200 229 250 Breakdown torque [%] 350 260 290 320 Service factor 1.15 1.00 1.00 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) 49.0 dB(A) Noise level² 51.0 dB(A) 49.0 dB(A) 49.0 dB(A) 25% 80.2 83.7 83.7 80.9 50% 81.5 84.0 84.0 82.5 Efficiency (%) 75% 84.0 84.0 84.0 85.5 86.5 84.0 85.5 100% 84.0 25% 0.33 0.34 0.39 0.35

5.47

50% 0.58 0.66 0.62 0.58 Power Factor 75% 0.71 0.70 0.77 0.74 0.83 0.79 100% 0.78 0.81 Drive end Non drive end Foundation loads

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

Lubricant amount Lubricant type Mobil Polyrex EM

Notes

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



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Customer	

Thermal	protection
HIIGHIIIAI	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: 14319266 Catalog #: 00158XT3E145T TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5

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 Locked rotor torque : 270 % Service factor : 1.15 Breakdown torque : 350 % Temperature rise : 80 K : B Rated speed : 1755 rpm Design

Percent of synchronous speed ◆ Torque - 1 p.u. = 4.49 ft.lb ◆ Current - 1 p.u. = 2.05 A (460 V)

Locked rotor time : 25s (cold) 14s (hot)

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Three Phase Induction Motor - Squirrel Cage



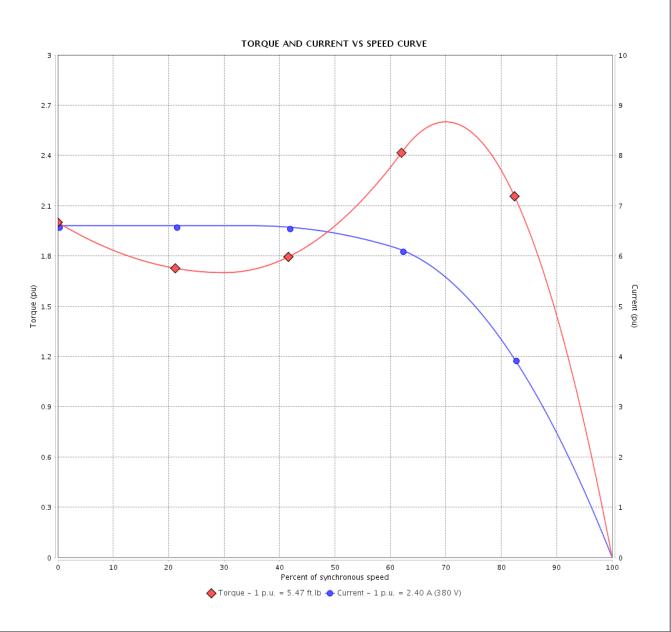
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14319266

Catalog #: 00158XT3E145T



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) : F : 5.47 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 200 % : 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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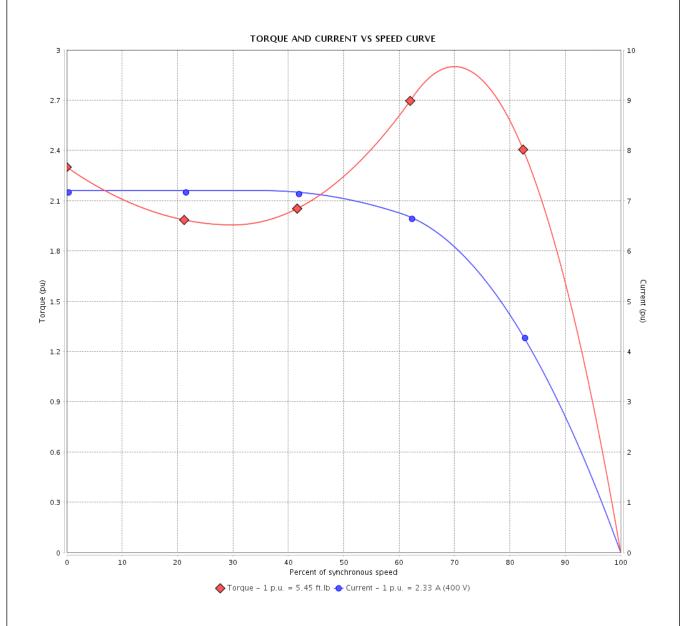


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14319266

Phase

Catalog #: 00158XT3E145T



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 (hot)

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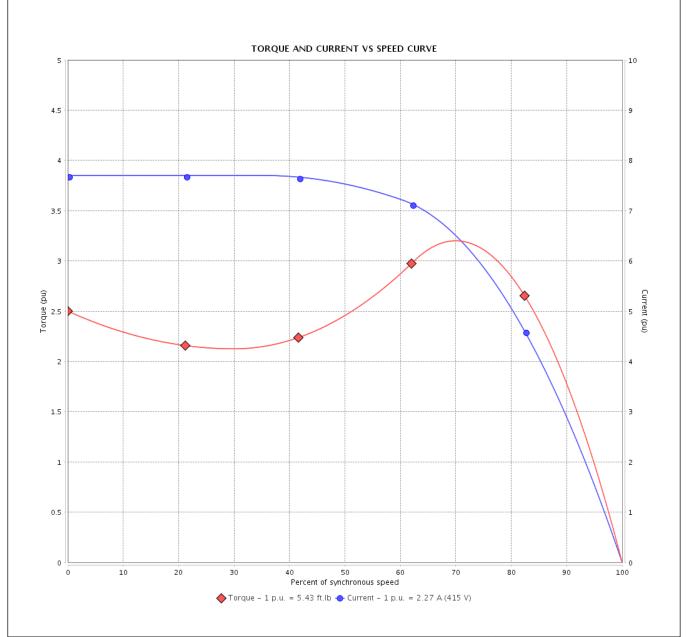


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14319266

Phase

Catalog #: 00158XT3E145T



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 : 1450 rpm Design Locked rotor time : 27s (cold) 15s (hot)

Locked fotor time 278 (cold) 158 (not)

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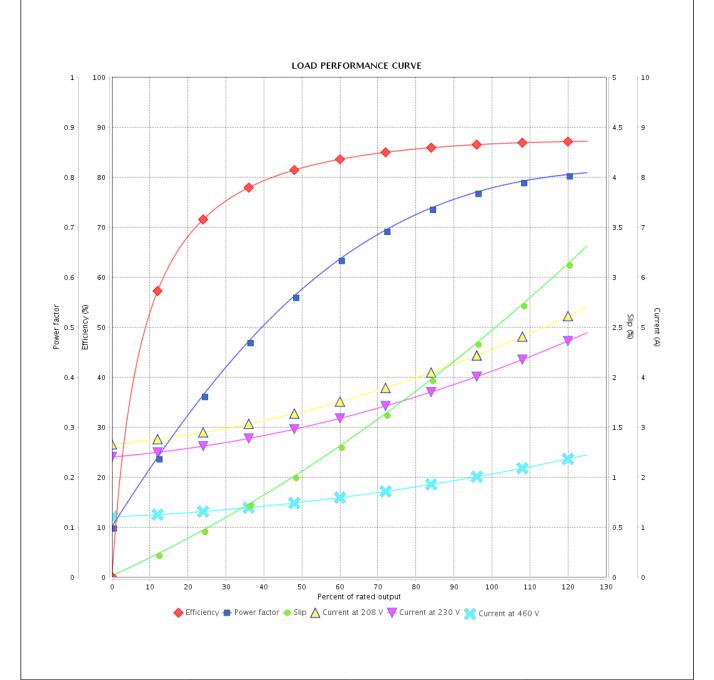


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14319266

Phase

Catalog #: 00158XT3E145T



Performance	: 2	30/460 V 60 Hz 4P				
Rated current	ated current : 4.10/2.05 A Mc		Moment o	Moment of inertia (J)		.lb
LRC	: 8	3.9	Duty cycle	•	: Cont.(S1)	
Rated torque	: 4	.49 ft.lb	Insulation	class	: F	
Locked rotor torqu	ле : 2	270 %	Service fa	ictor	: 1.15	
Breakdown torque		350 %	Temperati	Temperature rise		
•		755 rpm	Design	Design		
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Date

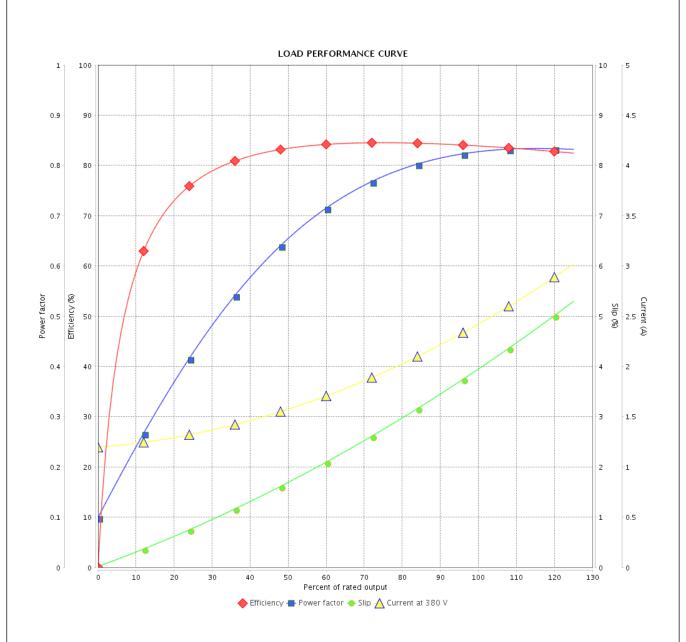
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Product line : NEMA Premium Efficiency Three- P

Phase

Product code: 14319266

Catalog #: 00158XT3E145T



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

Three Phase Induction Motor - Squirrel Cage

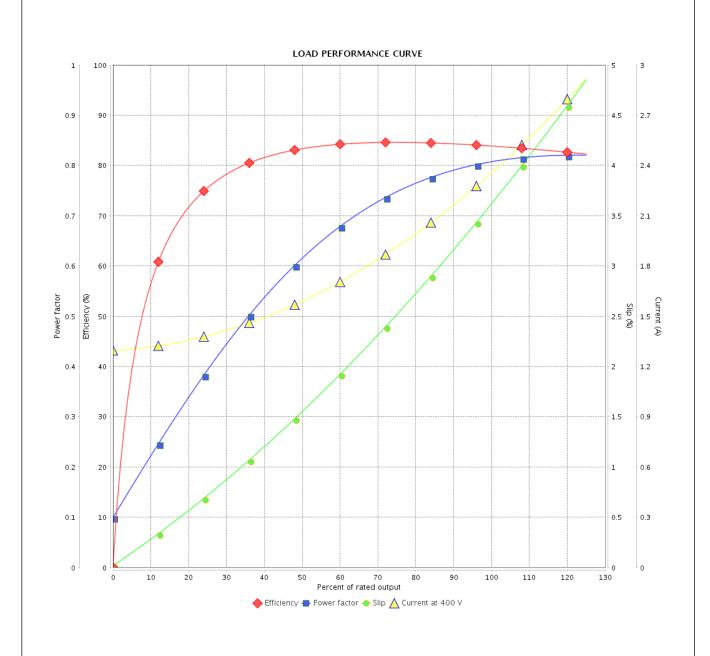


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Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 00158XT3E145T

14319266



Performance	: 4	100 V 50 Hz 4P IE2				
Rated current	current : 2.33 A Moment of		Moment of inertia (J)		.lb	
LRC	: 7	7.2	Duty cycle	9	: Cont.(S1)	
Rated torque :		5.45 ft.lb	Insulation	class	: F	
Locked rotor torque :		229 %	Service fa	actor	: 1.00	
Breakdown torque		290 %	Temperati	Temperature rise		
Rated speed	: 1	1445 rpm	Design	Design		
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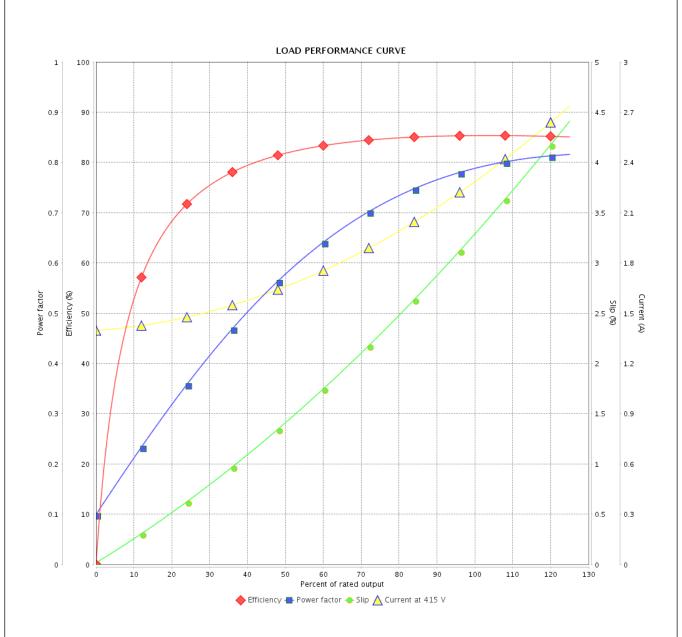
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Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

Product code: 14319266

Catalog #: 00158XT3E145T



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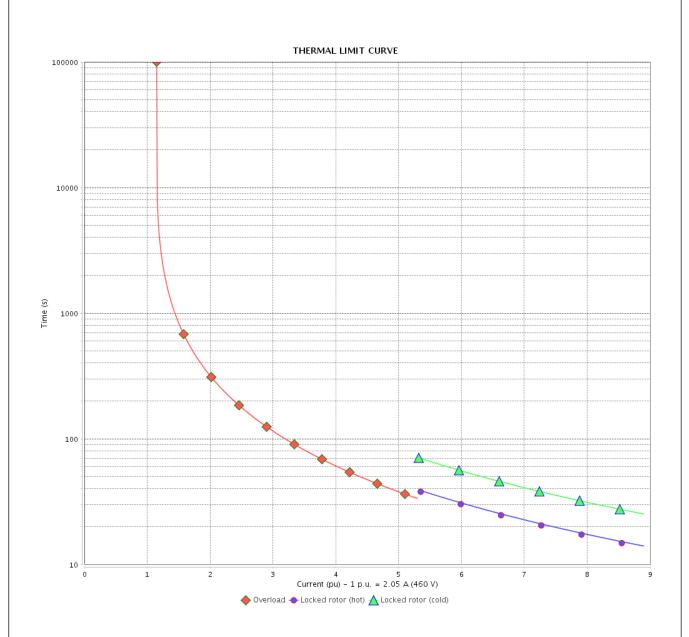


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Product line		NEMA Premium Efficiency	Three-	Product code :	14319266	
i roduct line		hase				
				Catalog # :	00158XT3E1	45T
D f		00/400 V 00 H= 4D				
Performance Rated current		30/460 V 60 Hz 4P .10/2.05 A	Moment	of inertia (J)	: 0.1303 sq.ft.l	h
LRC	: 8	.9	Duty cycle	Э	: Cont.(S1)	D
Rated torque Locked rotor tord		.49 ft.lb 70 %	Insulation Service fa		: F : 1.15	
Breakdown torqi	ue :3	70 % 50 %	Temperat		: 80 K	
Rated speed		755 rpm	Design		: B	
Heating constan	t					
Cooling constan						
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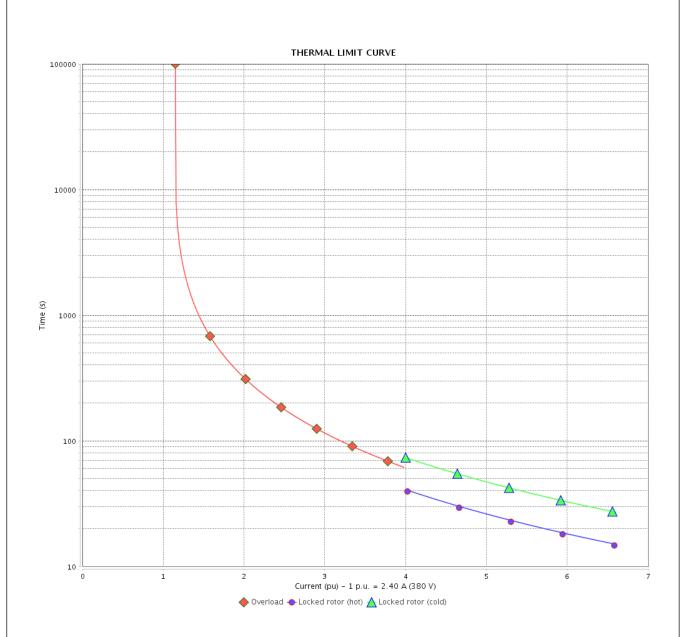


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Product line	: I P	NEMA Premium Efficiency hase		Product code : Catalog # :	14319266 00158XT3E	145T
					SOTOSKISE	
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: 2. : 6. : 5. que : 20	80 V 50 Hz 4P IE2 .40 A .6 .47 ft.lb 00 % 60 % 440 rpm	Moment of Duty cycle Insulation Service fa Temperati Design	class actor	: 0.1303 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : B	lb
Heating constan						
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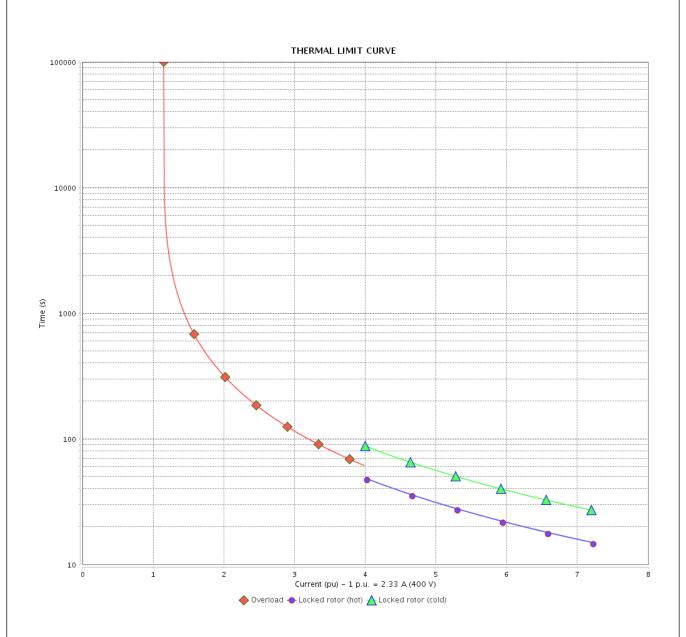


Rated current : 2.33 A Moment of inertia (J) : 0.1303 sq.ft.lb LRC : 7.2 Duty cycle : Cont.(S1) Rated torque : 5.45 ft.lb Insulation class : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 290 % Temperature rise : 80 K	Customer	:					
Rated current : 2.33 A	Product line	: I P	NEMA Premium Efficiency in				145T
Rated current : 2.33 A							
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Rated current : 2.33 A							
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 Heating constant Cooling constant Rev. Changes Summary Performed Checked Date Performed by Checked by Page Revision	Performance						
Locked rotor torque : 229 % Breakdown torque : 290 % Rated speed : 1445 rpm Heating constant Cooling constant Rev. Changes Summary Performed Checked Date Performed by Checked by Page Revision	LRC	: 7.	.2	Duty cycle	9	: Cont.(S1)	.lb
Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1445 rpm Design : B Heating constant Cooling constant Rev. Changes Summary Performed Checked Date Performed by Checked by Page Revision							
Heating constant Cooling constant Rev. Changes Summary Performed Checked Date Performed by Checked by Page Revision						: 80 K	
Rev. Changes Summary Performed Checked Date Performed by Checked by Page Revision	Rated speed	: 14	445 rpm			: B	
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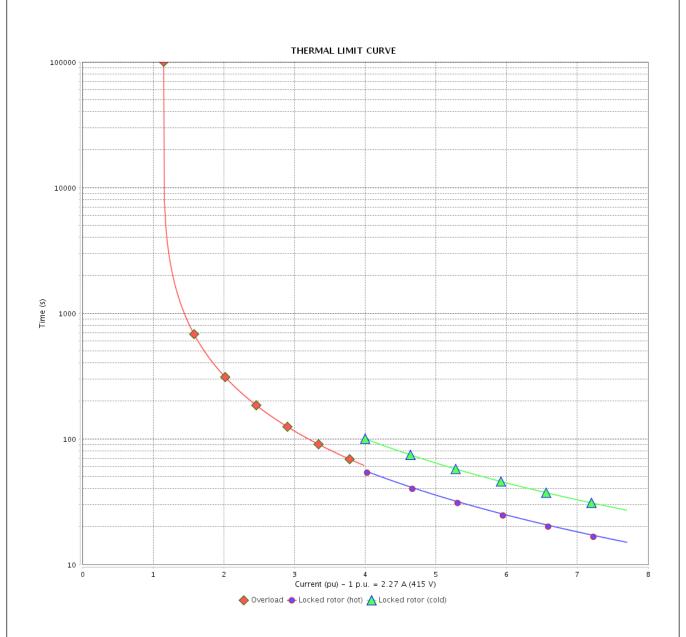


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Product line	• 1	NEMA Premium Efficiency	Three-	Product code :	14319266	
1 Todact line		hase				45T
				Catalog # :	00158XT3E1	451
Dorforman	. 4	45 V 50 H- 4D IF2				
Performance Rated current LRC Rated torque	: 2. : 7.	15 V 50 Hz 4P IE3 27 A 7 43 ft.lb	Moment of Duty cycle Insulation	of inertia (J)	: 0.1303 sq.ft.ll : Cont.(S1) : F	b
Locked rotor tord Breakdown torqu Rated speed	ie : 32	50 % 20 % 450 rpm	Service fa Temperati Design		: 1.00 : 80 K : B	
Heating constant						
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Three Phase Induction Motor - Squirrel Cage



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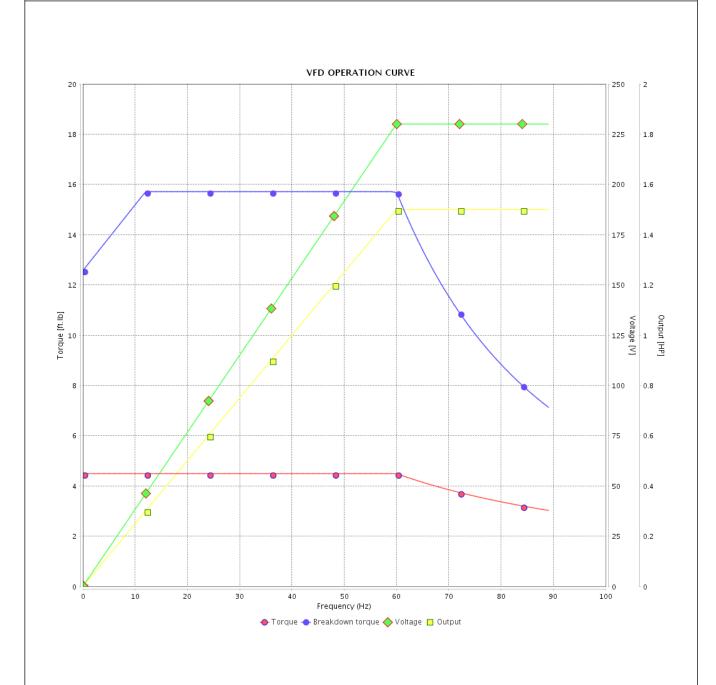
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00158XT3E145T

14319266



Performance	::	230/460 V 60 Hz 4P				
Rated current	: •	: 4.10/2.05 A		Moment of inertia (J)		.lb
LRC	: :	8.9	Duty cycle)	: Cont.(S1)	
Rated torque	:	4.49 ft.lb	Insulation	class	: F	
Locked rotor torg	que ::	270 %	Service fa	ctor	: 1.15	
Breakdown torqu	ie :	350 %	Temperati	ıre rise	: 80 K	
Rated speed	:	1755 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



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Date

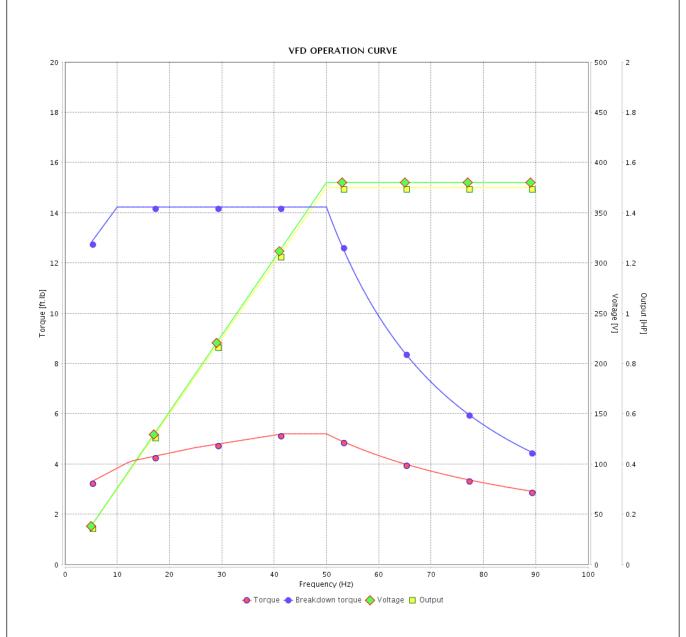
08/06/2022

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 14319266

Catalog #: 00158XT3E145T



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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Three Phase Induction Motor - Squirrel Cage



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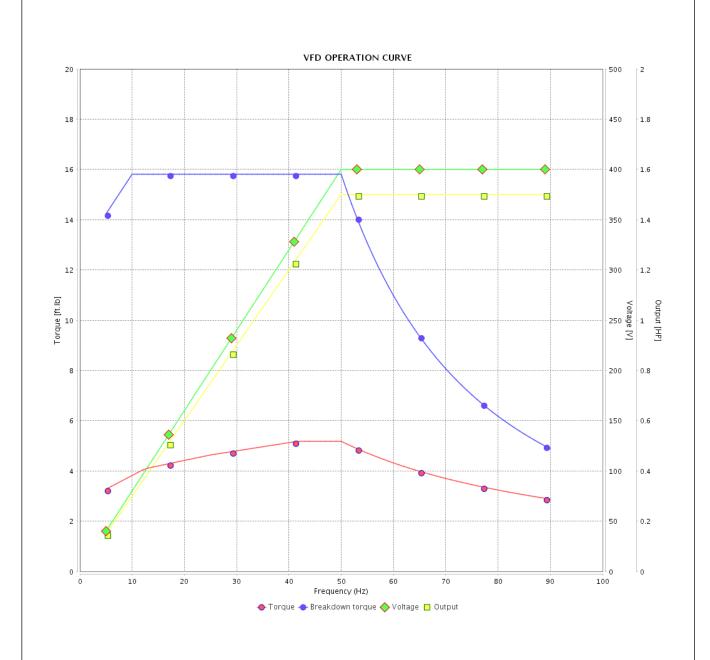
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00158XT3E145T

14319266

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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) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1303 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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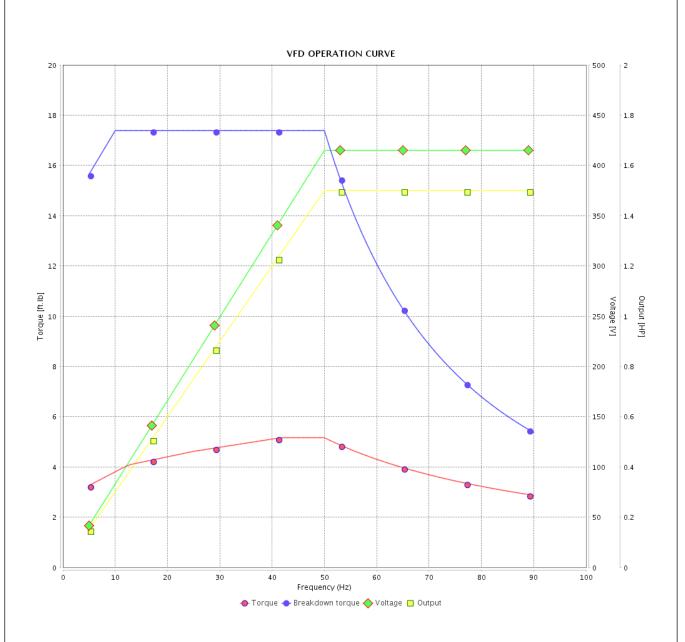
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14319266

Catalog #: 00158XT3E145T



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) : 5.43 ft.lb Insulation class Rated torque : F Locked rotor torque : 250 % Service factor : 1.00 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 1450 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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