### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11507579

Phase

Catalog #: 03009XT3E364T

Frame : 364/5T Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

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

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

Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 904 lb

Protection degree : IP55 Moment of inertia (J) : 23.5 sq.ft lb

Protection degree		: IP55	Moment of inertia (J) : 23.5 sq.ft.lb		sq.ft.lb
Design		: B			
Output [HP]		30	30	30	30
Poles		8	8	8	8
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		77.0/38.5	46.1	44.1	43.0
L. R. Amperes [A]		439/219	263	251	245
LRC [A]		5.7x(Code G)	5.7x(Code G)	5.7x(Code G)	5.7x(Code G)
No load current [A	]	33.0/16.5	16.3	17.7	19.0
Rated speed [RPM]		885	730	735	735
Slip [%]		1.67	2.67	2.00	2.00
Rated torque [ft.lb]			216	214	214
Locked rotor torque [%]		220	170	190	210
Breakdown torque [%]		220	170	200	220
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)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)
Noise level <sup>2</sup>		62.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)
	25%	92.2	92.8	92.2	81.5
Efficiency (%)	50%	92.4	92.4	92.4	82.4
Efficiency (70)	75%	93.0	92.4	92.4	92.4
	100%	93.0	91.7	92.4	92.4
	25%	0.40	0.46	0.42	0.40
Power Factor	50%	0.64	0.70	0.66	0.63
I OWEI FACIOI	75%	0.73	0.77	0.75	0.72
	100%	0.77	0.79	0.78	0.77

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

Bearing type : 6314 C3 6314 C3 | Max. traction : 1164 lb Sealing : Oil Seal Lip Seal Max. compression : 2068 lb

17353 h

Lubricant amount : 27 g 27 g Lubricant type : Mobil Polyrex EM

17353 h

Notes

Lubrication interval

USABLE @208V 85.1A SF 1.00 SFA 85.1A

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



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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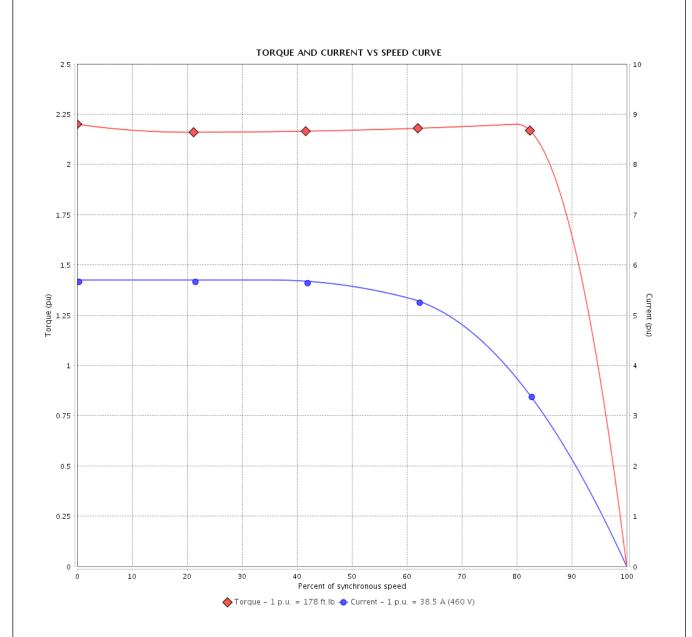
#### Three Phase Induction Motor - Squirrel Cage



03009XT3E364T

Customer Product line : NEMA Premium Efficiency Three-Product code: 11507579

Catalog #:



Performance : 230/460 V 60 Hz 8P Rated current : 77.0/38.5 A Moment of inertia (J) : 23.5 sq.ft.lb **LRC** : 5.7 Duty cycle : Cont.(S1) : 178 ft.lb Insulation class : F Rated torque Locked rotor torque : 220 % Service factor : 1.15 Breakdown torque : 220 % Temperature rise : 80 K : B Rated speed : 885 rpm Design Locked rotor time : 25s (cold) 14s (hot)

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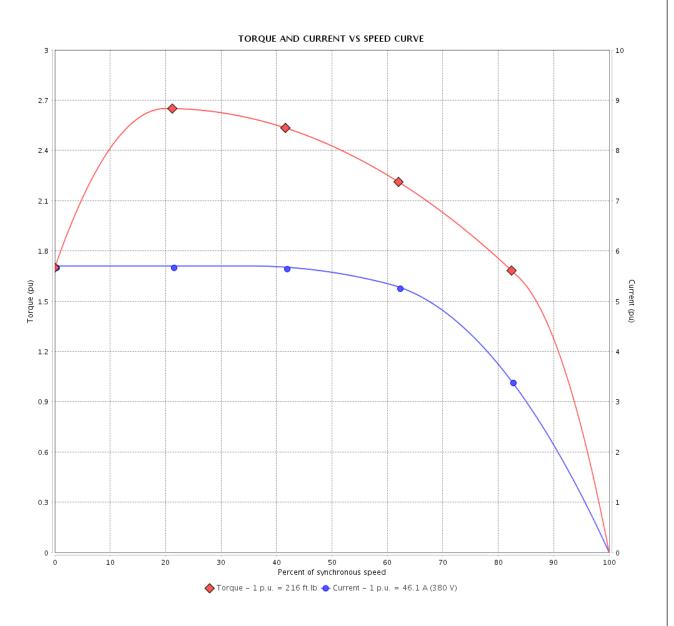


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11507579

Phase

Catalog #: 03009XT3E364T



Performance	: 380 V 50 Hz 8P IE3		
Rated current	: 46.1 A	Moment of inertia (J)	: 23.5 sq.ft.lb
LRC	: 5.7	Duty cycle	: Cont.(S1)
Rated torque	: 216 ft.lb	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.00
Breakdown torque	: 170 %	Temperature rise	: 80 K
Rated speed	: 730 rpm	Design	: B

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

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11507579 Catalog #: 03009XT3E364T TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 (pd) 1.25 Current 0.5 0.25 Percent of synchronous speed ◆ Torque - 1 p.u. = 214 ft.lb ◆ Current - 1 p.u. = 44.1 A (400 V) Performance : 400 V 50 Hz 8P IE4 Rated current : 44.1 A Moment of inertia (J) : 23.5 sq.ft.lb **LRC** : 5.7 Duty cycle : Cont.(S1) Insulation class Rated torque : 214 ft.lb : F : 190 % Locked rotor torque Service factor : 1.00 Breakdown torque : 200 % Temperature rise : 80 K Rated speed : 735 rpm Design : B Locked rotor time : 25s (cold) 14s (hot) Rev. Performed Checked Date **Changes Summary** 

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#### Three Phase Induction Motor - Squirrel Cage



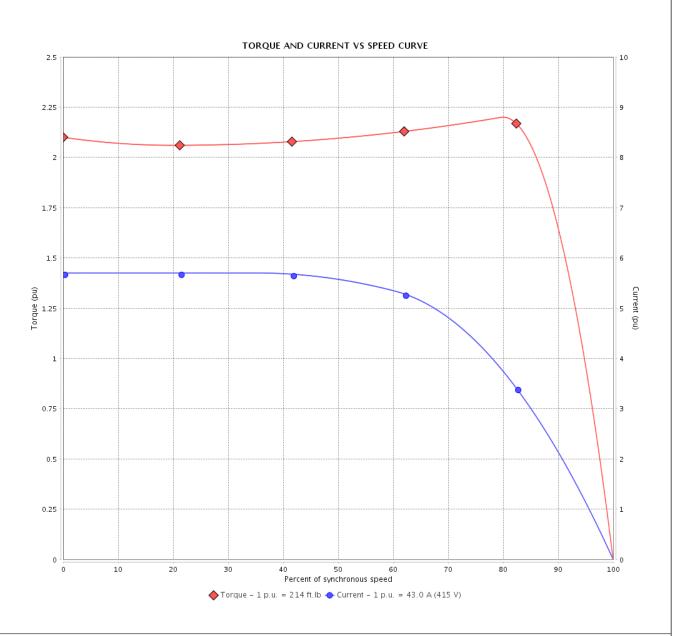
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11507579

Catalog #: 03009XT3E364T



Performance : 415 V 50 Hz 8P IE4 Rated current : 43.0 A Moment of inertia (J) : 23.5 sq.ft.lb **LRC** : 5.7 Duty cycle : Cont.(S1) : 214 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 210 % : 1.00 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 735 rpm Design : B

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

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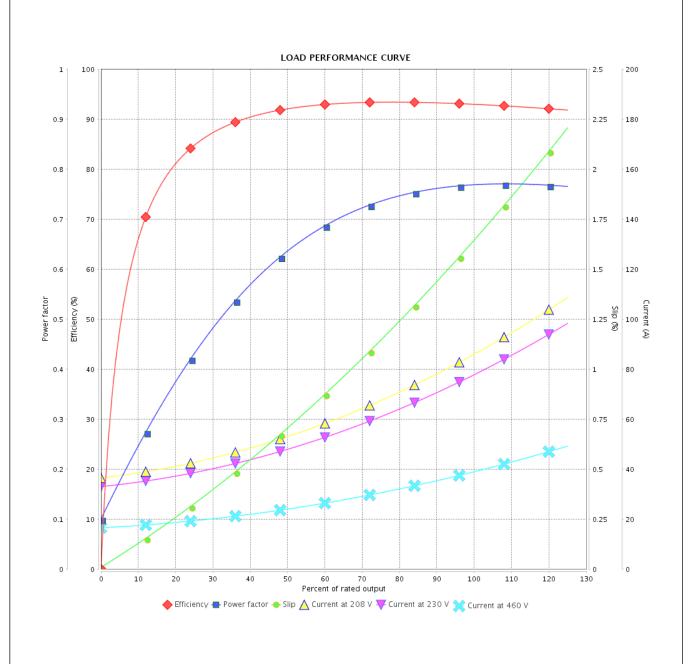
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 03009XT3E364T

11507579



Performance	: 2	230/460 V 60 Hz 8P				
Rated current	: 7	7.0/38.5 A	Moment o	f inertia (J)	: 23.5 sq.ft.lb	
LRC	: 5	5.7	Duty cycle	<b>:</b>	: Cont.(S1)	
Rated torque	:1	78 ft.lb	Insulation	class	: F	
Locked rotor torque	e :2	220 %	Service fa	ctor	: 1.15	
Breakdown torque	: 2	220 %	Temperature rise		: 80 K	
Rated speed	: 8	885 rpm	Design		: B	
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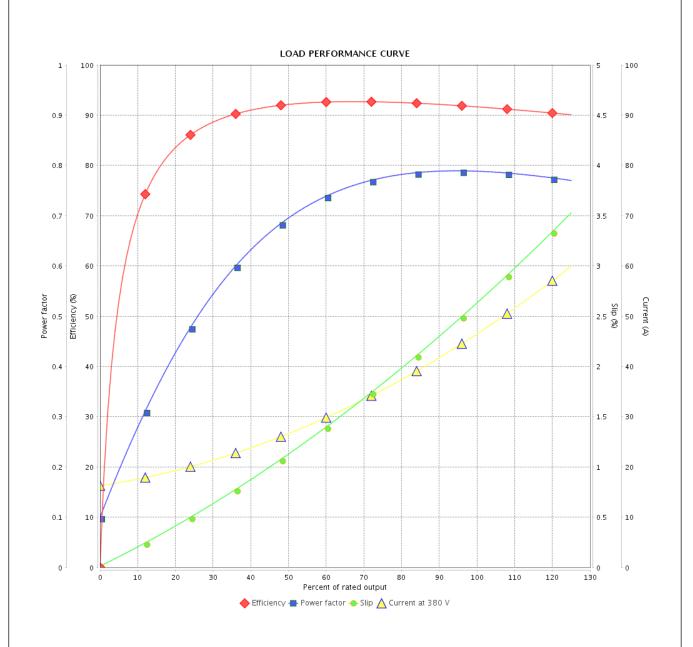
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Product line : NEMA Premium Efficiency Three- Product code : 11507579

Phase

Catalog #: 03009XT3E364T



Performance	: 380 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 46.1 A : 5.7 : 216 ft.lb : 170 % : 170 % : 730 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 23.5 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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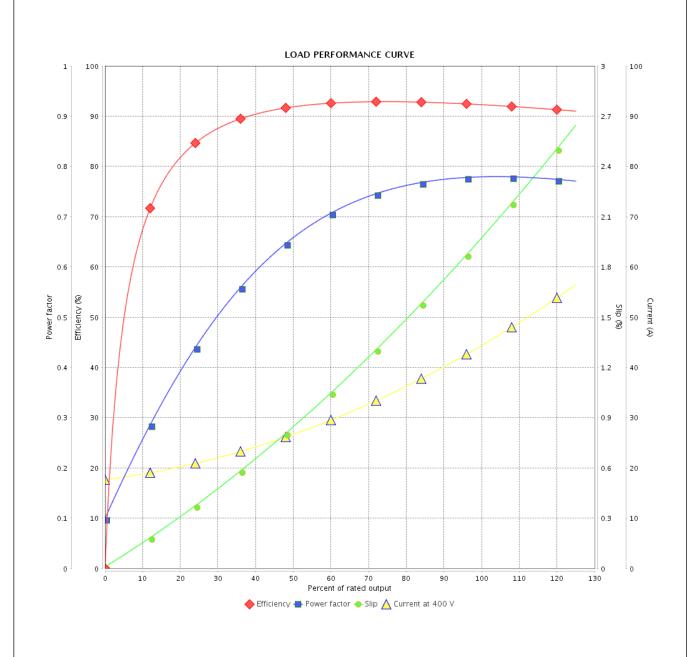
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11507579

Catalog #: 03009XT3E364T



Performance	: 400 V 50 Hz 8P IE4				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 44.1 A : 5.7 : 214 ft.lb : 190 % : 200 % : 735 rpm	Moment of Duty cycle Insulation Service fa Temperation Design	class ctor	: 23.5 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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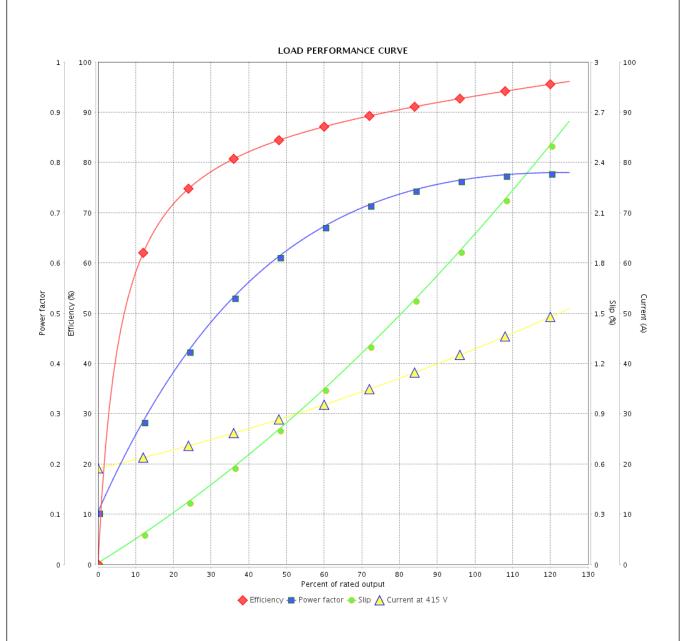
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11507579

Catalog #: 03009XT3E364T



Performance	: 415 V 50 Hz 8P IE4				
Rated current	: 43.0 A	Moment of inertia	a (J)	: 23.5 sq.ft.lb	
LRC	: 5.7	Duty cycle	. ,	: Cont.(S1)	
Rated torque	: 214 ft.lb	Insulation class		: F	
Locked rotor torque	: 210 %	Service factor		: 1.00	
Breakdown torque	: 220 %	% Temperature rise		: 80 K	
Rated speed	: 735 rpm	Design		: B	
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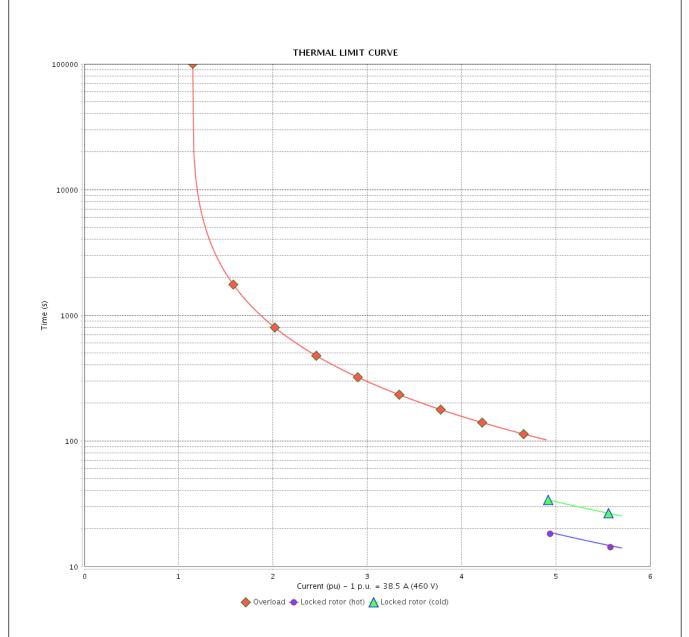


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Product line	:	NEMA Premium Efficiency	Three-	Product code :	11507579	
	F	Phase		Catalog # :	03009XT3E	364T
Performance Rated current LRC Rated torque Locked rotor torque	: ī : { : ' !ue : 2	230/460 V 60 Hz 8P 77.0/38.5 A 5.7 178 ft.lb 220 % 220 %	Duty cycle Insulation Service fa	ı class actor	: 23.5 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K	
Breakdown torqu Rated speed Heating constant	: 8	220 % 385 rpm	Temperat Design	ure rise	: 80 K : B	
Cooling constant						
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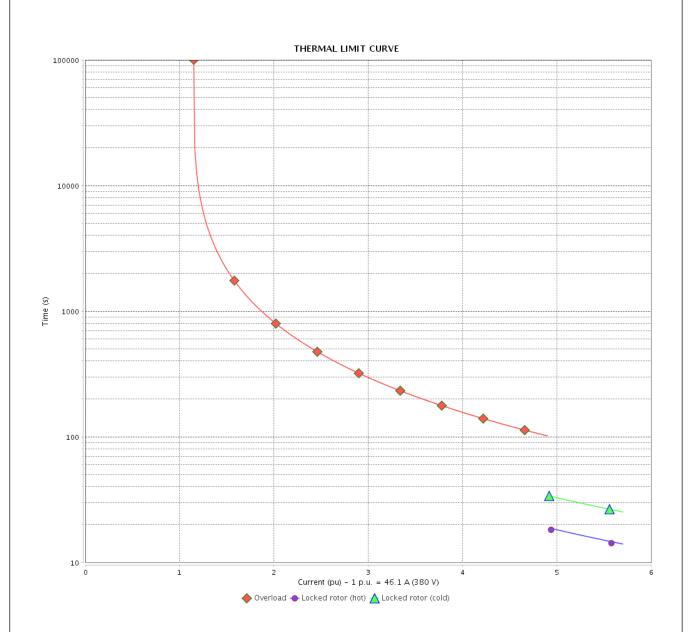


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Product line		NEMA Premium Efficiency <sup>-</sup> hase	Three-	Product code :	11507579	
				Catalog # :	03009XT3E3	864T
Performance		80 V 50 Hz 8P IE3				
Rated current		6.1 A	Moment of	of inertia (J)	: 23.5 sq.ft.lb	
LRC Rated torque	: 5. : 2	. / 16 ft.lb	Duty cycle Insulation	<del>c</del> ı class	: Cont.(S1) : F	
Locked rotor tord	que : 1	70 %	Service fa	actor	: 1.00	
Breakdown torqu Rated speed	ue : 1	70 % 30 rpm	Temperat Design		: 80 K : B	
Heating constan	 t					
Cooling constant						
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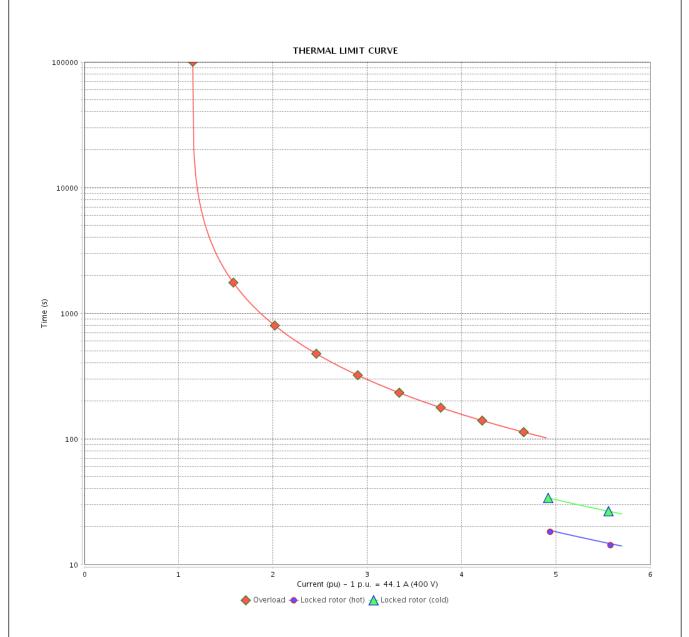


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Product line		NEMA Premium Efficiency <sup>*</sup> hase		Product code : Catalog # :	11507579 03009XT3E3	3 <b>6</b> 4T
Performance	• 10	00 V 50 Hz 8P IE4				
Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: 44 : 5. : 2 <sup>,</sup> que : 19 ue : 20	1.1 A	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 23.5 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant	t					
Cooling constant	<u> </u>					
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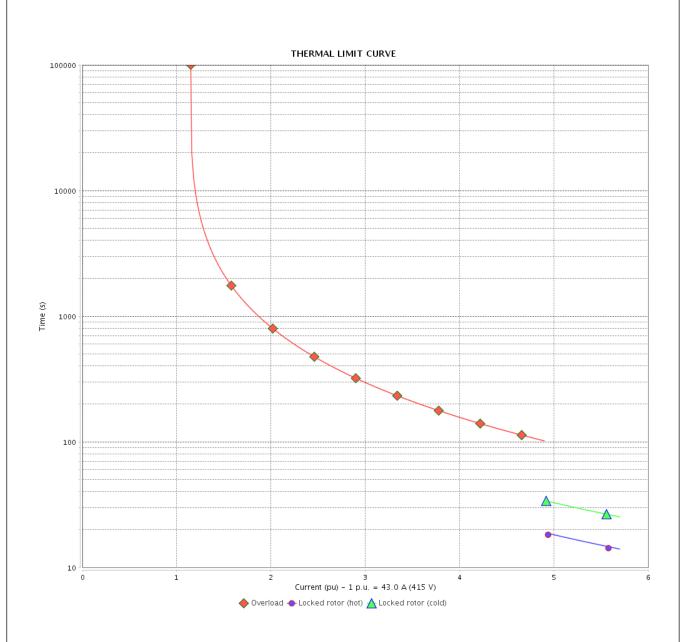


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Product line		NEMA Premium Efficiency <sup>-</sup> hase		Product code : Catalog # :	11507579 03009XT3E3	364T
				Catalog # .	03009X13E	DO4 1
Performance Rated current LRC Rated torque Locked rotor tord	: 43 : 5. : 21	15 V 50 Hz 8P IE4 3.0 A .7 14 ft.lb 10 %	Moment of Duty cycle Insulation Service fa	class	: 23.5 sq.ft.lb : Cont.(S1) : F : 1.00	
Breakdown torqu Rated speed Heating constant	ue : 22 : 73	20 % 35 rpm	Temperat Design	ure rise	: 80 K : B	
Cooling constant						
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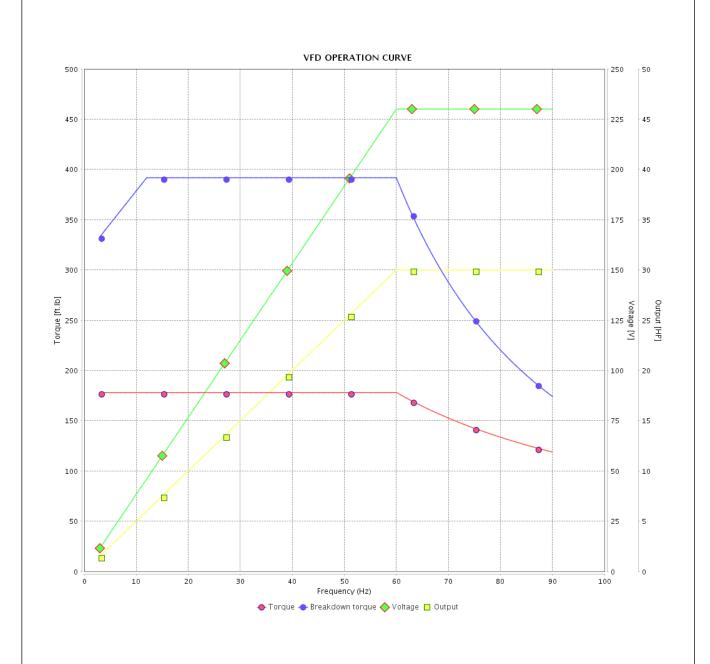
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 03009XT3E364T

11507579

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Performance	: 230/460 V 60 Hz 8P				
Rated current	: 77.0/38.5 A	Moment o	f inertia (J)	: 23.5 sq.ft.lb	
LRC	: 5.7	Duty cycle	<b>)</b>	: Cont.(S1)	
Rated torque	: 178 ft.lb	Insulation	class	:F	
Locked rotor torque	: 220 %	Service fa	ctor	: 1.15	
Breakdown torque	: 220 %	Temperatu	ıre rise	: 80 K	
Rated speed	: 885 rpm	Design		: B	
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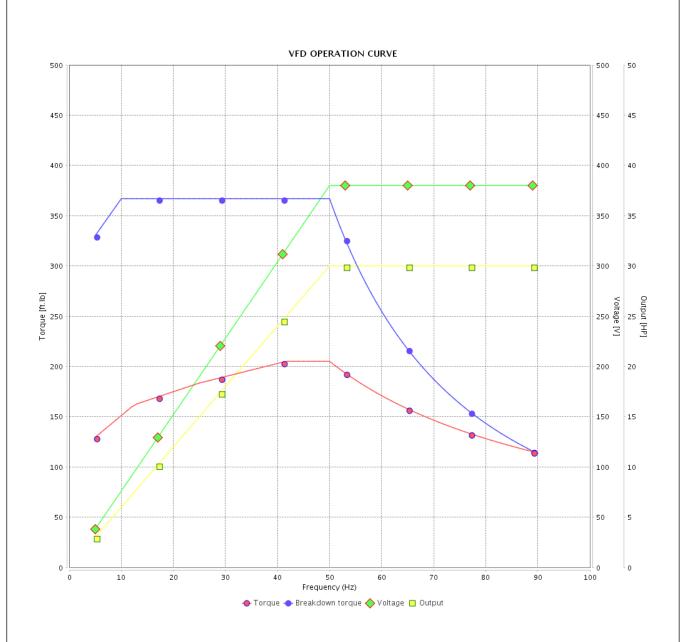
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11507579

Catalog #: 03009XT3E364T



Performance	:	380 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	iue :	46.1 A 5.7 216 ft.lb 170 % 170 % 730 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 23.5 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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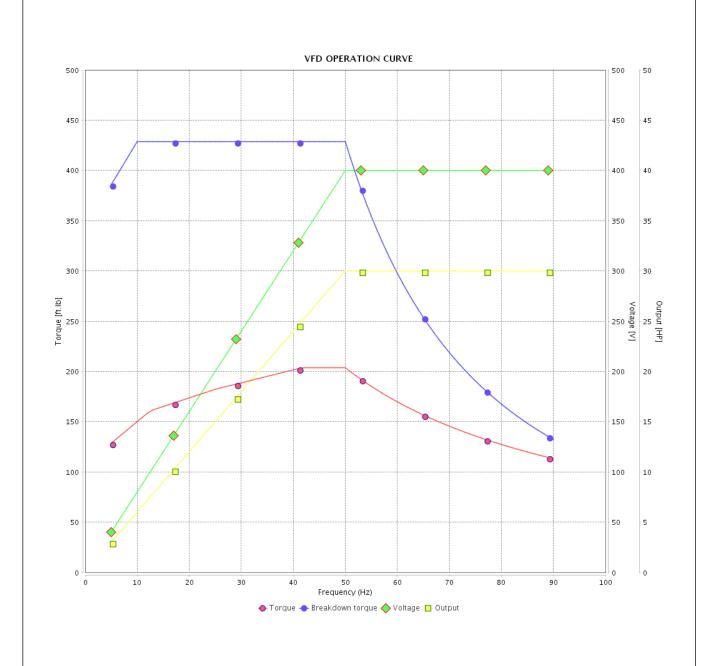
Customer :

Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 11507579

Catalog #: 03009XT3E364T



Performance	: 400 V 50 Hz 8P IE4			,		
Rated current	: 44.1 A	Moment of inertia (J)		: 23.5 sq.ft.lb		
LRC	: 5.7	Duty cycle		: Cont.(S1)		
Rated torque	: 214 ft.lb	Insulation class		: F		
Locked rotor torque	: 190 %	Service factor		: 1.00		
Breakdown torque	: 200 %	Temperature rise		: 80 K		
Rated speed	: 735 rpm	Design		: B		
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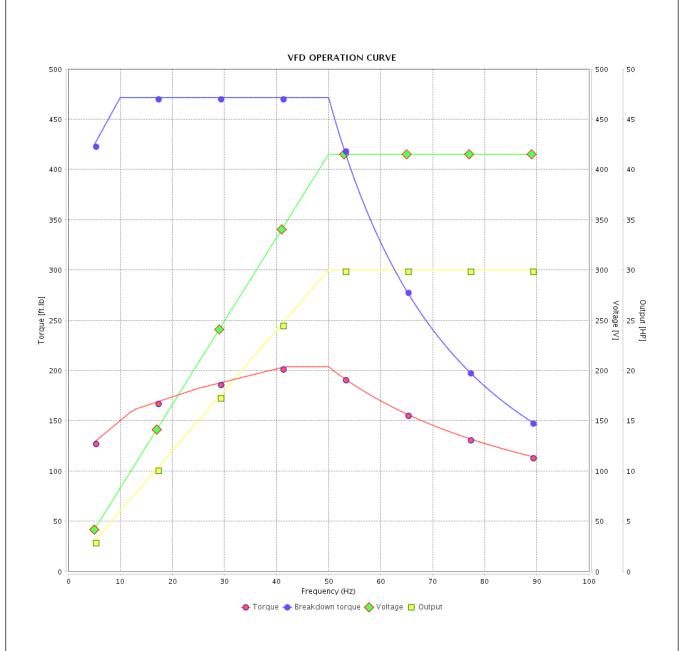
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11507579

Catalog #: 03009XT3E364T



Performance : 415 V 50 Hz 8P IE4 Rated current : 43.0 A Moment of inertia (J) : 23.5 sq.ft.lb **LRC** : 5.7 Duty cycle : Cont.(S1) Insulation class : 214 ft.lb : F Rated torque Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 735 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by Page Checked by Revision

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