DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11439680

Phase

Catalog #: 06036XT3E364TS

Frame : 364/5TS 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 : 1026 lb
Protection degree : IP55 Moment of inertia (J) : 9.96 sq.ft.lb

Design : B

Output [HP]	Output [HP]		50	50	50
Poles		2	2	2	2
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		137/68.6	68.7	65.3	63.6
L. R. Amperes [A]		878/439	419	438	458
LRC [A]		6.4x(Code G)	6.1x(Code F)	6.7x(Code G)	7.2x(Code H)
No load current [A]]	30.0/15.0	15.0	16.0	17.0
Rated speed [RPN	1]	3550	2950	2960	2960
Slip [%]		1.39	1.67	1.33	1.33
Rated torque [ft.lb]		88.8	89.0	88.7	88.7
Locked rotor torqu	e [%]	200	190	210	229
Breakdown torque	[%]	250	240	260	290
Service factor		1.15	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		108s (cold) 60s (hot)	45s (cold) 25s (hot)	45s (cold) 25s (hot)	45s (cold) 25s (hot)
Noise level ²		85.0 dB(A)	82.0 dB(A)	82.0 dB(A)	82.0 dB(A)
	25%	91.7	91.6	91.7	91.7
Locked rotor time	50%	92.4	92.0	92.0	92.0
	75%	93.0	92.8	92.8	92.8
	100%	93.6	93.0	93.0	93.0
	25%	0.59	0.59	0.56	0.54
Power Factor	50%	0.79	0.79	0.77	0.76
1 OWEI FACIOI	75%	0.86	0.86	0.85	0.85
	100%	0.88	0.88	0.88	0.87

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

Bearing type : 6314 C3 6314 C3 | Max. traction : 368 lb Sealing : Oil Seal Lip Seal | Max. compression : 1394 lb

3604 h

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

3604 h

Notes

Lubrication interval

USABLE @208V 151A SF 1.00 SFA 151A

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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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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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11439680 Catalog #: 06036XT3E364TS TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed 🔷 Torque – 1 p.u. = 88.8 ft.lb 🔷 Current – 1 p.u. = 68.6 A (460 V) Performance : 230/460 V 60 Hz 2P Rated current : 137/68.6 A Moment of inertia (J) : 9.96 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 88.8 ft.lb Insulation class Rated torque : F : 200 % Locked rotor torque Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 3550 rpm Design : B Locked rotor time : 108s (cold) 60s (hot)

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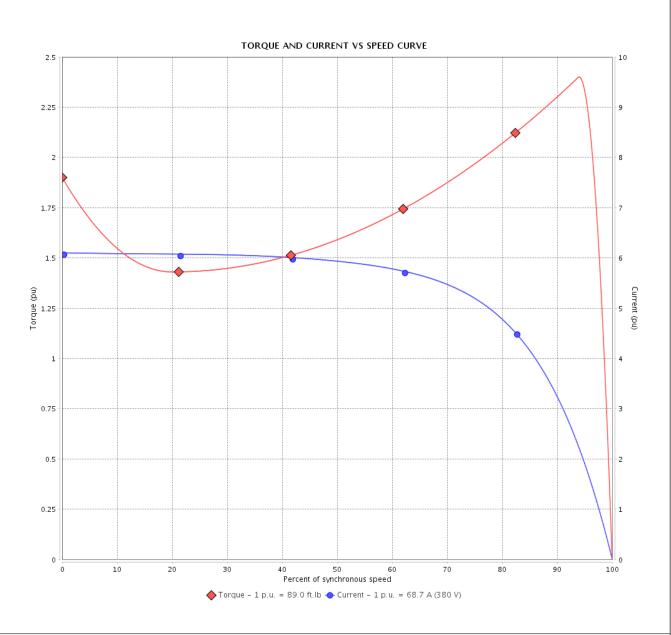
Customer :

Product line : NEMA Premium Efficiency Three- Product of

Phase

Product code: 11439680

Catalog #: 06036XT3E364TS



Performance : 380 V 50 Hz 2P IE2 Rated current : 68.7 A Moment of inertia (J) : 9.96 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 89.0 ft.lb : F Service factor Locked rotor torque : 190 % : 1.00 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 2950 rpm Design : B

Locked rotor time : 45s (cold) 25s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11439680 Catalog #: 06036XT3E364TS TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3

Performance : 400 V 50 Hz 2P IE2 Rated current : 65.3 A Moment of inertia (J) : 9.96 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 88.7 ft.lb Insulation class : F Rated torque : 1.00 Locked rotor torque : 210 % Service factor : 260 % : 80 K Breakdown torque Temperature rise : B Rated speed : 2960 rpm Design

Percent of synchronous speed ♦ Torque – 1 p.u. = 88.7 ft.lb ♦ Current – 1 p.u. = 65.3 A (400 V)

Locked rotor time : 45s (cold) 25s (hot)

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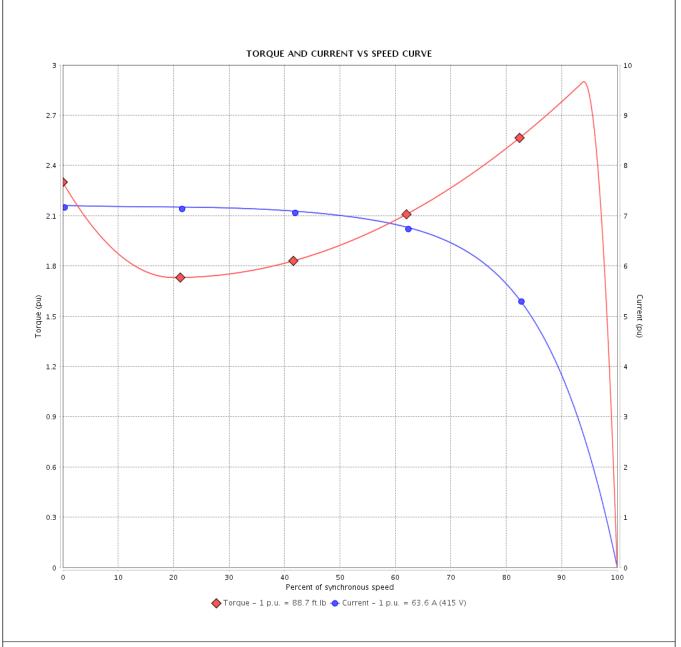
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11439680

Catalog #: 06036XT3E364TS



Performance : 415 V 50 Hz 2P IE2 Rated current : 63.6 A Moment of inertia (J) : 9.96 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) : 88.7 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 229 % : 1.00 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 2960 rpm Design : B

Locked rotor time : 45s (cold) 25s (hot)

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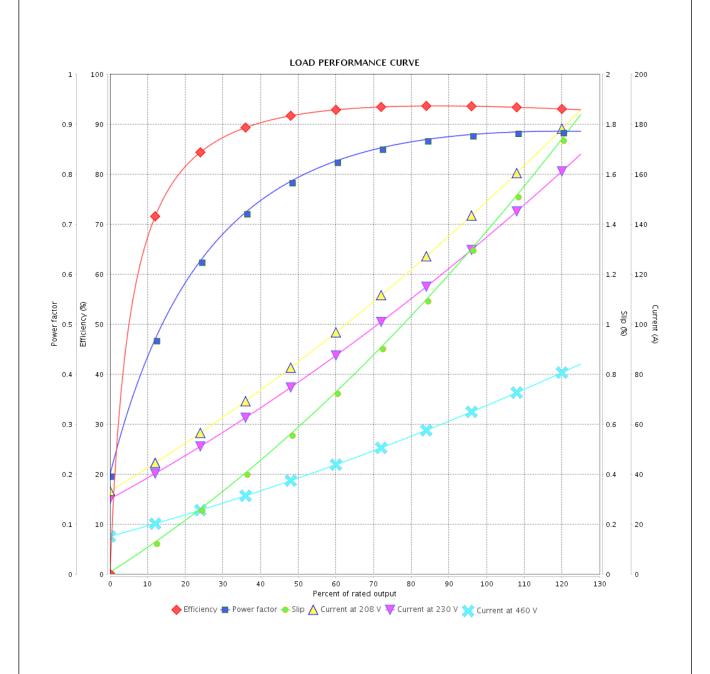


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11439680

Phase

Catalog #: 06036XT3E364TS



Performance	: 2	30/460 V 60 Hz 2P				
Rated current	: 1	: 137/68.6 A		f inertia (J)	: 9.96 sq.ft.lb	
LRC	: 6	.4	Duty cycle)	: Cont.(S1)	
Rated torque	: 8	8.8 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2	00 %	Service fa	ctor	: 1.15	
		50 %	Temperati	Temperature rise		
Rated speed	: 3	550 rpm	Design		: B	
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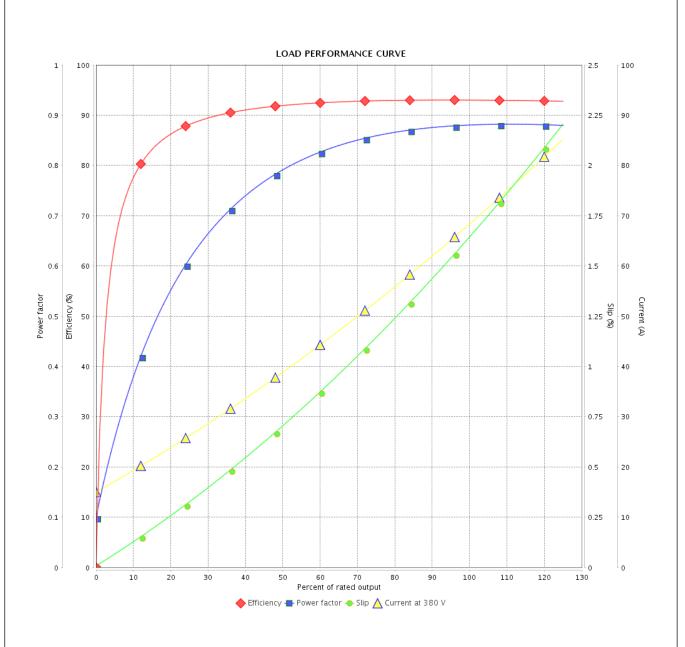
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11439680

Catalog #: 06036XT3E364TS



Performance	: 380 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 68.7 A : 6.1 : 89.0 ft.lb : 190 % : 240 % : 2950 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 9.96 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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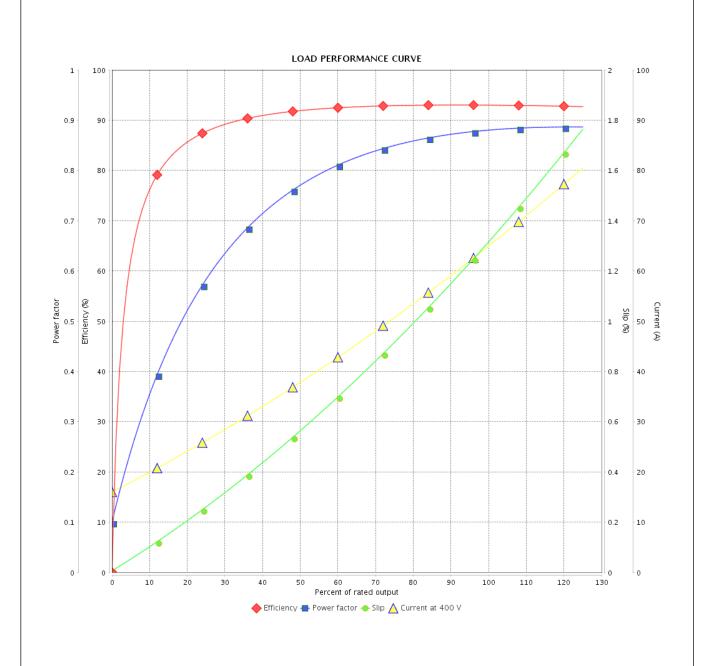
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 11439680

Catalog #: 06036XT3E364TS



Performance	: 4	100 V 50 Hz 2P IE2	00 V 50 Hz 2P IE2			
Rated current	: 6	65.3 A	Moment o	f inertia (J)	: 9.96 sq.ft.lb	
LRC	: 6	3.7	Duty cycle)	: Cont.(S1)	
Rated torque	: 8	88.7 ft.lb	Insulation	class	: F	
Locked rotor torque		210 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	260 %	Temperati	ure rise	: 80 K	
Rated speed	: 2	2960 rpm	Design		: B	
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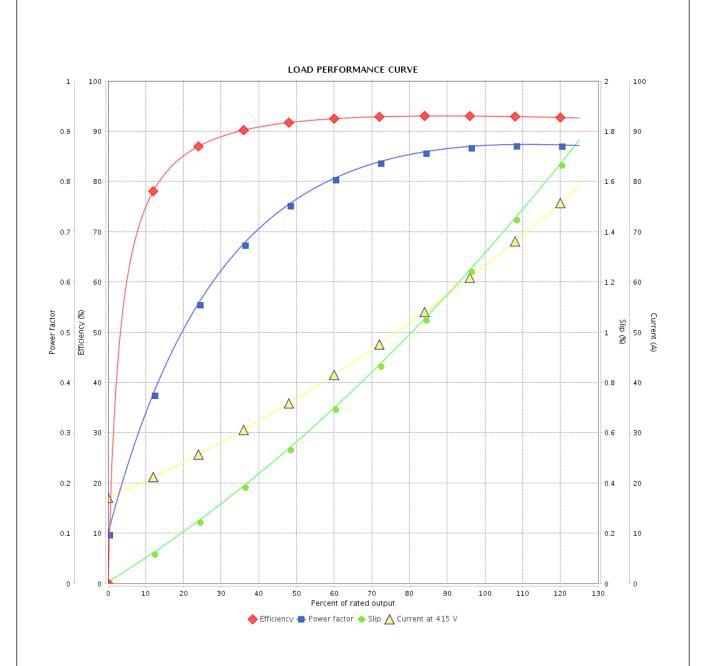
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 06036XT3E364TS

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Performance	: 4	15 V 50 Hz 2P IE2				
Rated current	: 6:	3.6 A	Moment of inertia (J)		: 9.96 sq.ft.lb	
LRC	: 7.	.2	Duty cycle		: Cont.(S1)	
Rated torque	: 88	8.7 ft.lb	Insulation	Insulation class		
Locked rotor tord	que : 2:	29 %	Service fa	Service factor		
Breakdown torqu	ue : 29	90 %	Temperature rise		: 80 K	
Rated speed	: 29	960 rpm	Design		: B	
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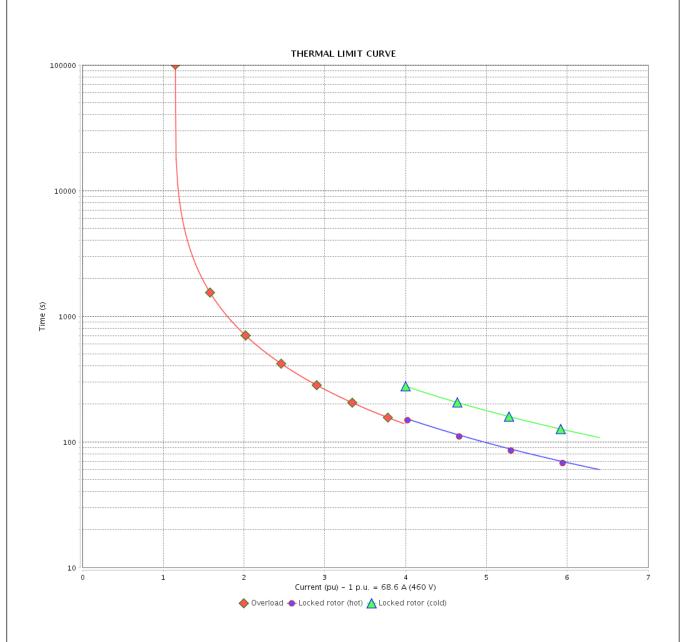


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Performance	Phase		Catalog #:	06036XT3E3	364TS
Performance					
Performance					
Rated current RC Rated torque ocked rotor torque Breakdown torque Rated speed	: 230/460 V 60 Hz 2P : 137/68.6 A : 6.4 : 88.8 ft.lb : 200 % : 250 % : 3550 rpm	Moment Duty cyc Insulation Service f Tempera Design	n class factor	: 9.96 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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Cooling constant	Changes Cumman		Performed	Checked	Date
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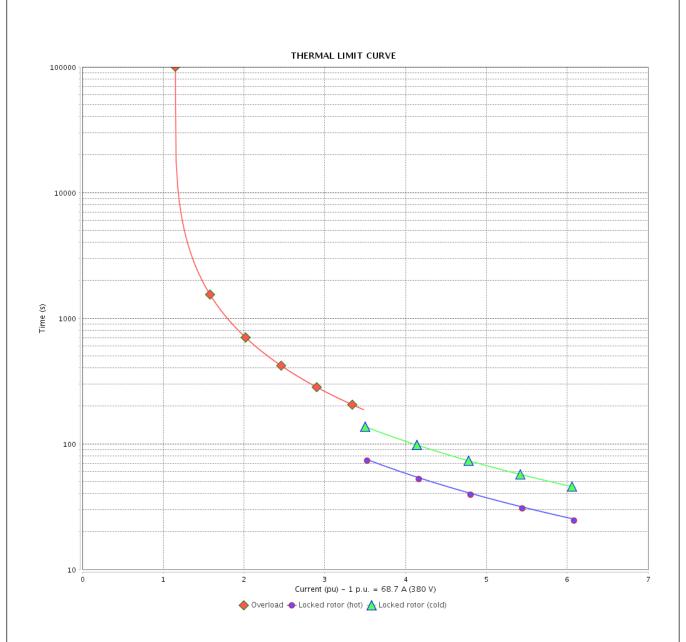


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Product line		NEMA Premium Efficiency hase	Three-	Product code :	11439680	
	•	11466		Catalog # :	06036XT3E3	364TS
Performance	: 38	80 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torc	: 6. : 89 19	9.0 ft.lb 90 %	Duty cycle Insulation Service fa	class actor	: 9.96 sq.ft.lb : Cont.(S1) : F : 1.00	
Breakdown torqu Rated speed		40 % 950 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constant						
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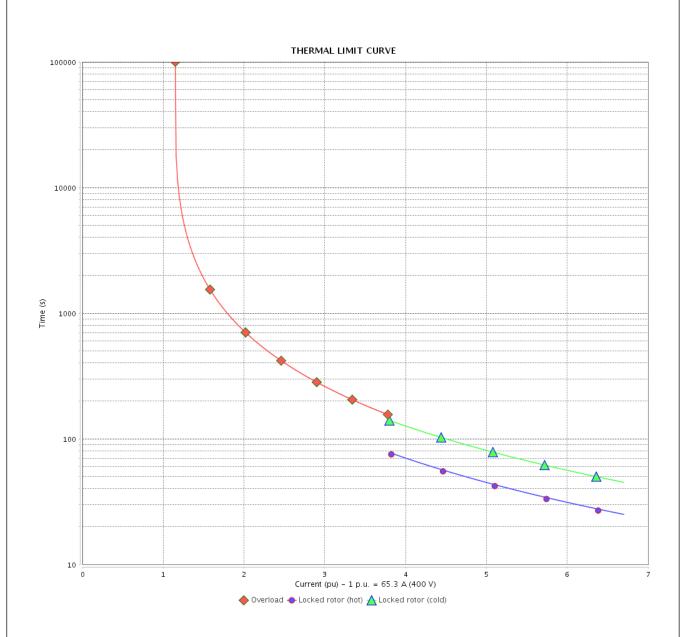


Customer	:					
Product line		NEMA Premium Efficiency ⁻ hase		Product code : Catalog # :	11439680 06036XT3E3	364TS
Performance		00 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 65 : 6. : 88 Jue : 26 ie : 26 : 29	5.3 A	Moment of Duty cycle Insulation Service fa Temperate Design	class actor	: 9.96 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Cooling constant						
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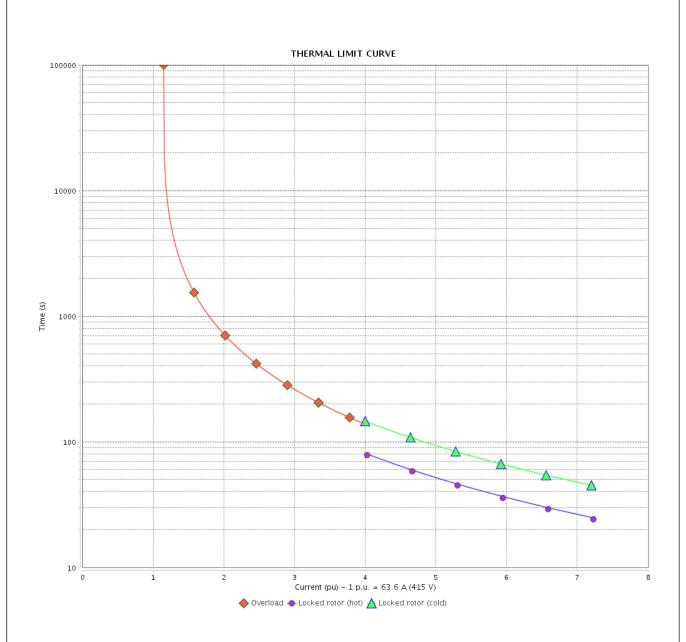


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Product line		NEMA Premium Efficiency	Three-	Product code :	11439680	
		ndoo		Catalog # :	06036XT3E3	364TS
Performance Rated current		15 V 50 Hz 2P IE2 3.6 A	Moment o	of inertia (J)	: 9.96 sq.ft.lb	
LRC Rated torque Locked rotor tord Breakdown torqu	: 7 : 8 que : 2		Duty cycle Insulation Service fa Temperat	e class actor	: Cont.(S1) : F : 1.00 : 80 K	
Rated speed	: 2	960 rpm	Design		: B	
Heating constant						
Cooling constant		Changes Summani		Dorformed	Chaokad	Doto
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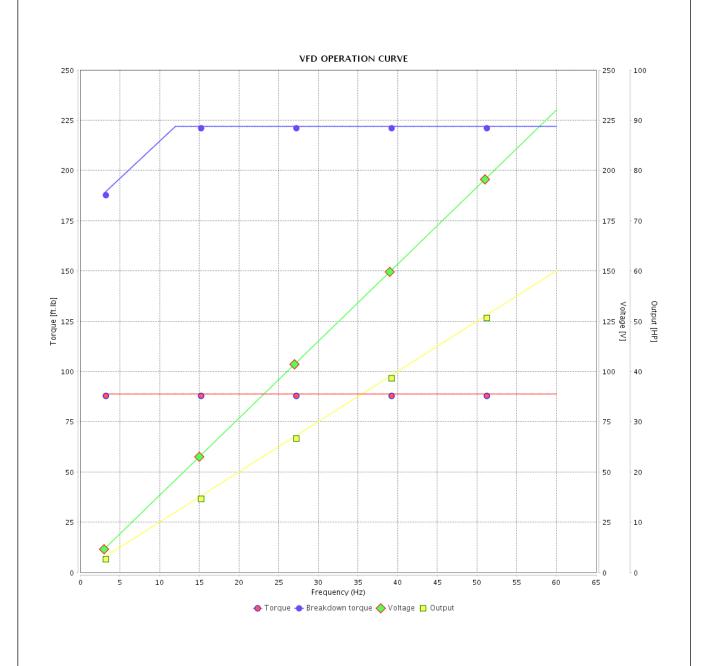
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Product line : NEMA Premium Efficiency Three- Product code : 11439680

Phase

Catalog #: 06036XT3E364TS



Performance	: 230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 137/68.6 A : 6.4 : 88.8 ft.lb : 200 % : 250 % : 3550 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 9.96 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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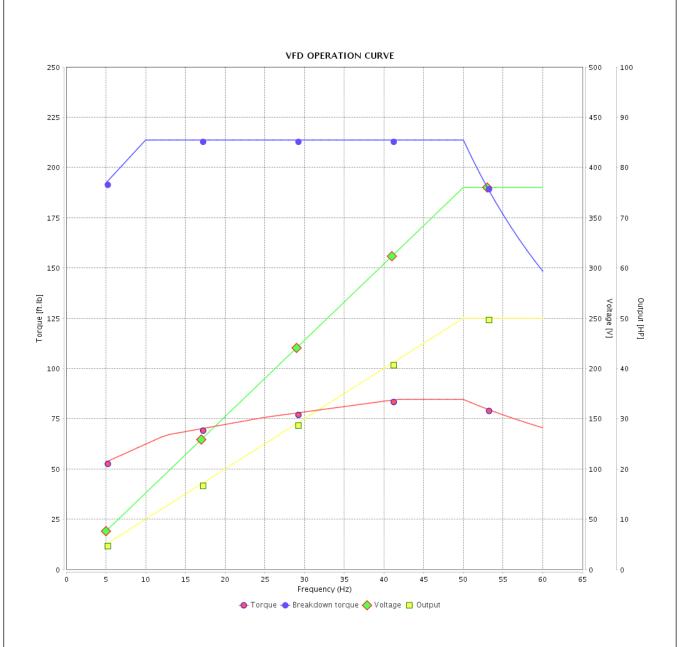
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11439680

Catalog #: 06036XT3E364TS



Performance : 380 V 50 Hz 2P IE2 Rated current : 68.7 A Moment of inertia (J) : 9.96 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.1 : 89.0 ft.lb Insulation class Rated torque : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 2950 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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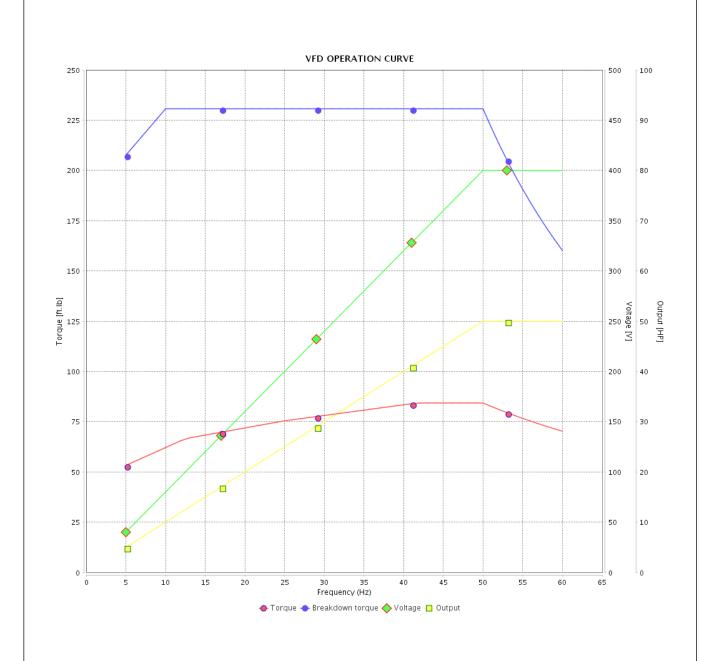
Customer

Product line : NEMA Premium Efficiency Three- Product of

Phase

Product code: 11439680

Catalog #: 06036XT3E364TS



Performance	:	400 V 50 Hz 2P IE2				
Rated current		65.3 A	Moment o	f inertia (J)	: 9.96 sq.ft.lb	
LRC	:	6.7	Duty cycle)	: Cont.(S1)	
Rated torque	:	88.7 ft.lb	Insulation	class	:F	
Locked rotor torque	e :	210 %	Service fa	ctor	: 1.00	
Breakdown torque		260 %	Temperati	Temperature rise		
Rated speed	:	2960 rpm	Design		: B	
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Customer :

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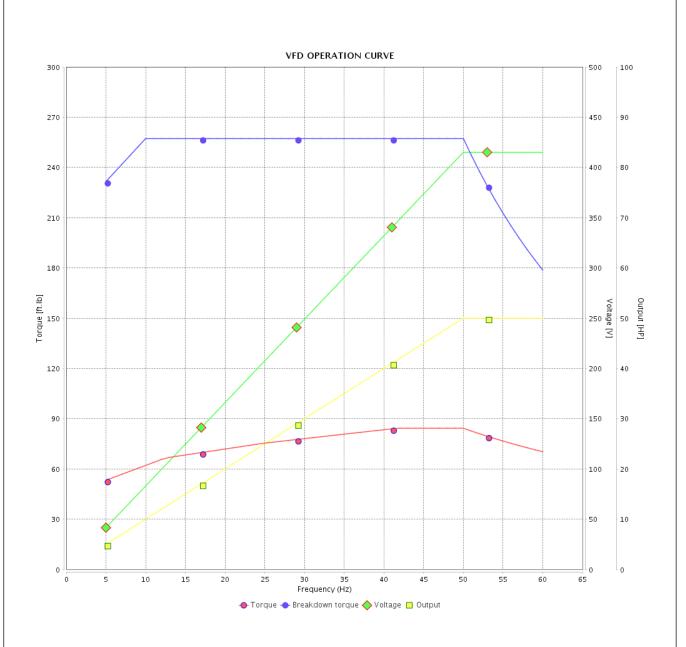
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Product code: 11439680

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Performance : 415 V 50 Hz 2P IE2 Rated current : 63.6 A Moment of inertia (J) : 9.96 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 7.2 Insulation class : 88.7 ft.lb : F Rated torque Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 2960 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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