DATA SHEET

Three Phase Induction Motor - Squirrel Cage



0.70

Customer

Product line : NEMA Premium Efficiency Three-Product code: 12408368

05009XT3E404T Catalog #:

Frame : 404/5T 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 Altitude : 1000 m.a.s.l. Approx. weight³ : 1341 lb

Protection degree Design	е	: IP55 : B	Moment of inertia (J) : 34.6 sq.ft.lb		
Output [HP]		50	40	40	40
Poles		8	8	8	8
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		136/68.0	67.6	65.6	64.1
L. R. Amperes [A]		993/496	466	499	519
LRC [A]		7.3x(Code J)	6.9x(Code J)	7.6x(Code K)	8.1x(Code L)
No load current [A]	55.0/27.5	27.1	29.4	31.3
Rated speed [RPN	Rated speed [RPM]		735	735	740
Slip [%]		1.67	2.00	2.00	1.33
Rated torque [ft.lb]		297	286	286	284
Locked rotor torque [%]		220	200	229	260
Breakdown torque [%]		210	210	229	260
Service factor		1.15	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		21s (cold) 12s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)
Noise level ²		62.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)
	25%	91.7	91.5	91.0	91.0
Efficiency (%)	50%	92.4	91.7	91.7	91.7
Efficiency (%)	75%	93.0	92.4	92.4	92.4
	100%	93.6	92.4	93.0	93.0
	25%	0.42	0.41	0.38	0.35
Power Factor	50%	0.67	0.67	0.63	0.59
I OWEI FACIOI	75%	0.73	0.72	0.70	0.68

Drive end Non drive end Foundation loads

0.73

Bearing type 6217 C3 6314 C3 Max. traction : 1543 lb Sealing Oil Seal Lip Seal Max. compression : 2883 lb

0.73

Lubrication interval 16602 h 17353 h Lubricant amount 27 g 21 g Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 150A SF 1.00 SFA 150A

100%

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.

0.71

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Thermal protection

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

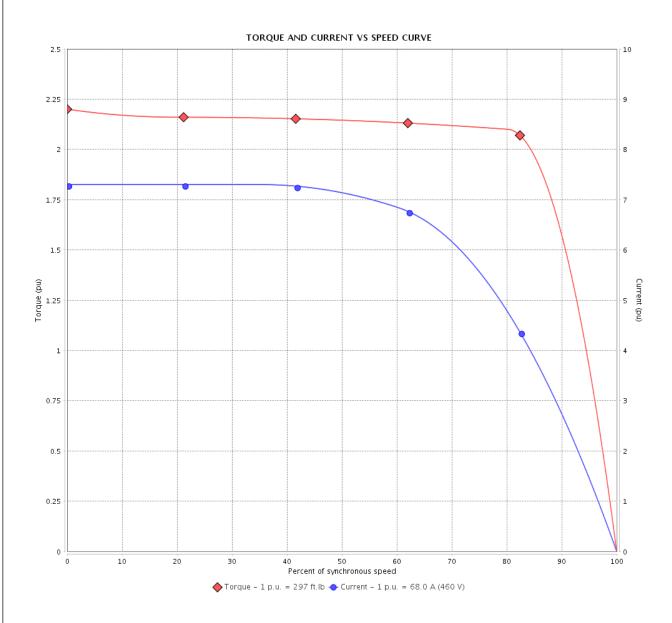
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Customer Product line : NEMA Premium Efficiency Three-Product code: 12408368

> Catalog #: 05009XT3E404T



Performance	: 230/460 V 60 Hz 8P			
Rated current	: 136/68.0 A	Moment of inertia (J)	: 34.6 sq.ft.lb	
LRC	: 7.3	Duty cycle	: Cont.(S1)	
Rated torque	: 297 ft.lb	Insulation class	: F	
Locked rotor torque	: 220 %	Service factor	: 1.15	
Breakdown torque	: 210 %	Temperature rise	: 80 K	
Rated speed	: 885 rpm	Design	: B	
Locked rotor time	: 21s (cold) 12s (hot)			

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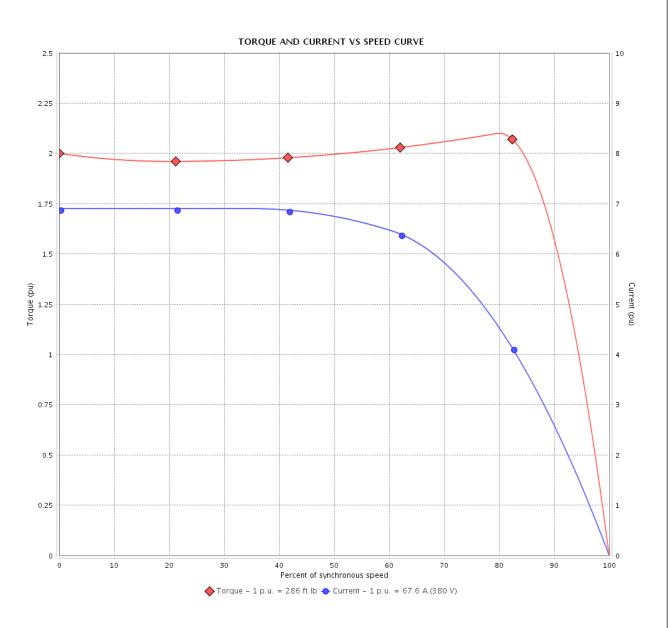


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12408368

Phase

Catalog #: 05009XT3E404T



Performance	: 380 V 50 Hz 8P IE3		
Rated current	: 67.6 A	Moment of inertia (J)	: 34.6 sq.ft.lb
LRC	: 6.9	Duty cycle	: Cont.(S1)
Rated torque	: 286 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 80 K
Rated speed	: 735 rpm	Design	: B

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

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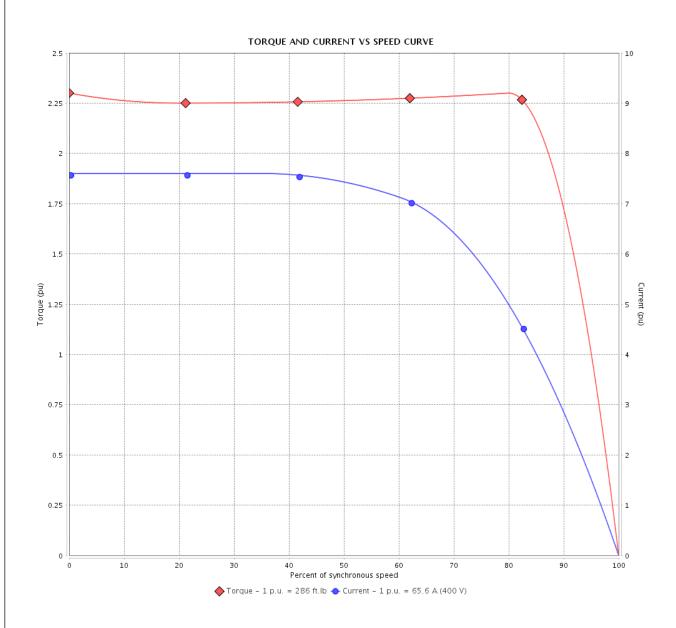


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12408368

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Catalog #: 05009XT3E404T



Performance	: 400 V 50 Hz 8P IE4			
Rated current	: 65.6 A	Moment of inertia (J)	: 34.6 sq.ft.lb	
LRC	: 7.6	Duty cycle	: Cont.(S1)	
Rated torque	: 286 ft.lb	Insulation class	: F	
Locked rotor torque	: 229 %	Service factor	: 1.00	
Breakdown torque	: 229 %	Temperature rise	: 80 K	
Rated speed	: 735 rpm	Design	: B	

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

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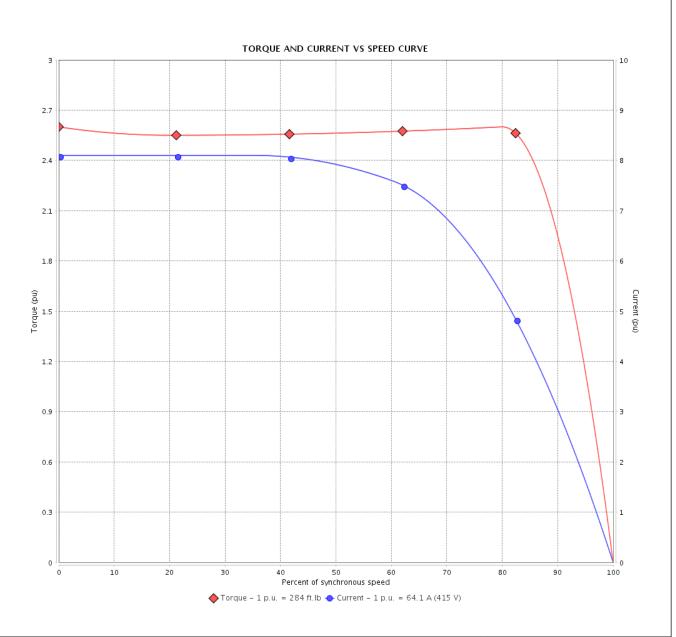


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12408368

Phase

Catalog #: 05009XT3E404T



Performance	: 415 V 50 Hz 8P IE4		
Rated current	: 64.1 A	Moment of inertia (J)	: 34.6 sq.ft.lb
LRC	: 8.1	Duty cycle	: Cont.(S1)
Rated torque	: 284 ft.lb	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 740 rpm	Design	: B
Locked roter time	: 36s (cold) 20s (bot)		

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

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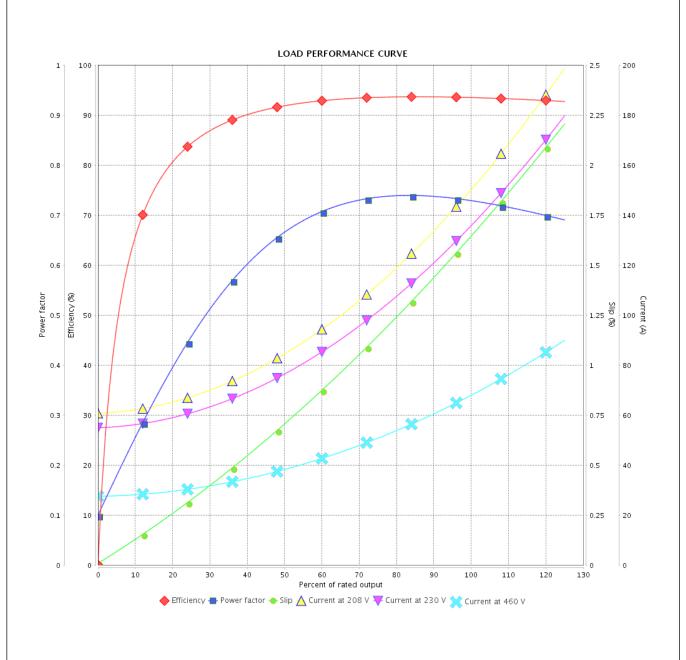
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 05009XT3E404T

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Performance	:	230/460 V 60 Hz 8P				
Rated current	:	136/68.0 A	Moment o	f inertia (J)	: 34.6 sq.ft.lb	
LRC	:	7.3	Duty cycle	}	: Cont.(S1)	
Rated torque	:	297 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	220 %	Service fa	ctor	: 1.15	
Breakdown torque	:	210 %	Temperati	ıre rise	: 80 K	
Rated speed	:	885 rpm	Design		: B	
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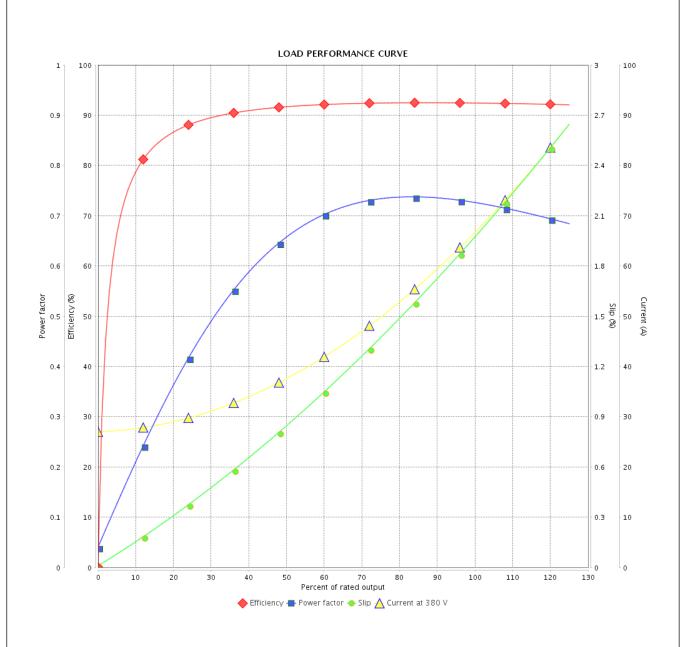
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12408368

Catalog #: 05009XT3E404T



Performance	: 380 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 67.6 A : 6.9 : 286 ft.lb : 200 % : 210 % : 735 rpm	Moment of inc Duty cycle Insulation clas Service factor Temperature Design	ss r	: 34.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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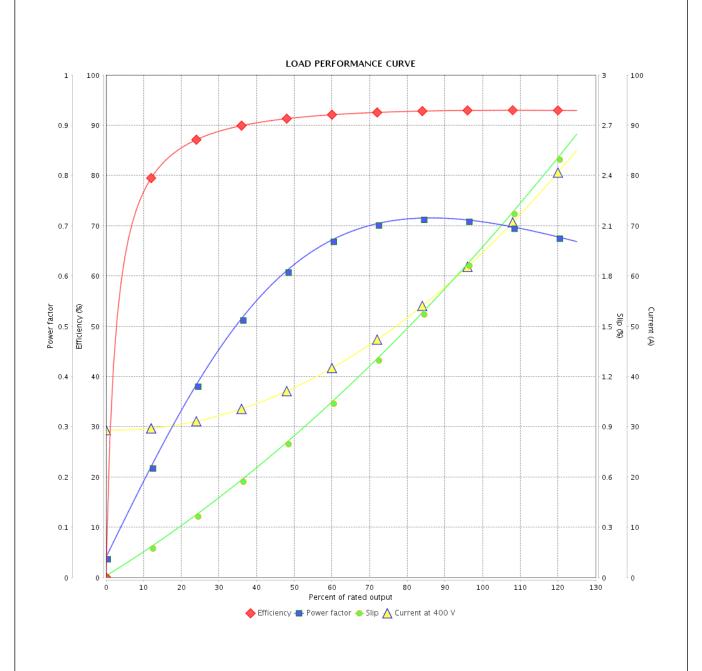
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 05009XT3E404T

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Performance	<u>:</u>	400 V 50 Hz 8P IE4				
Rated current	:	65.6 A	Moment o	f inertia (J)	: 34.6 sq.ft.lb	
LRC	:	7.6	Duty cycle)	: Cont.(S1)	
Rated torque	:	286 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	229 %	Service fa	ctor	: 1.00	
Breakdown torque		229 %	Temperati	Temperature rise		
Rated speed	:	735 rpm	Design		: B	
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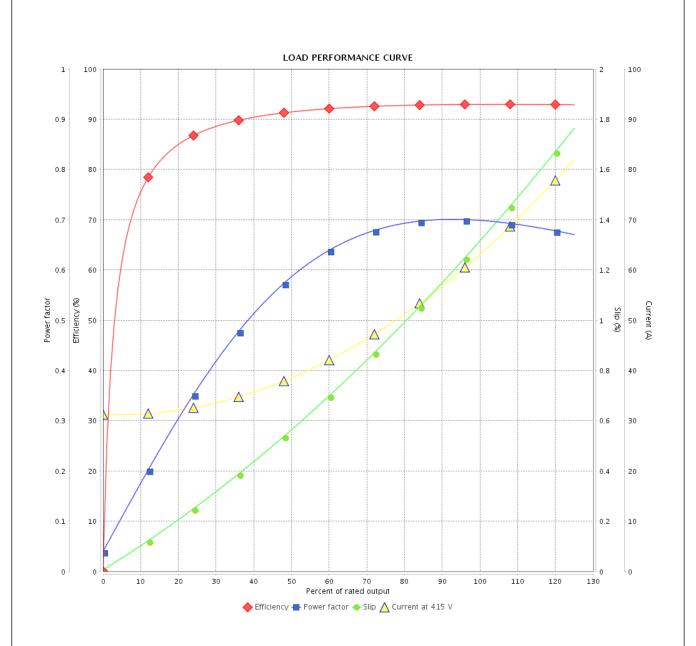
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Performance : 415 V 50 Hz 8P IE4 Rated current : 64.1 A Moment of inertia (J) : 34.6 sq.ft.lb **LRC** : 8.1 Duty cycle : Cont.(S1) : 284 ft.lb Insulation class Rated torque : F Locked rotor torque : 260 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 740 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage

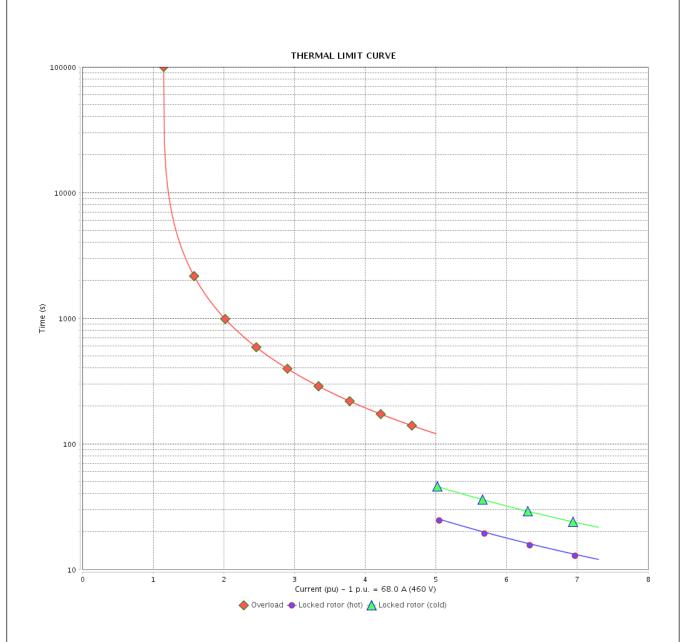


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Product line		NEMA Premium Efficiency [·] hase		Product code : Catalog # :	12408368 05009XT3E4	04T
				Catalog # .	OSOUS X T SEA	
Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: 13 : 7. : 29 que : 22 ue : 27	30/460 V 60 Hz 8P 36/68.0 A 3 97 ft.lb 20 % 10 % 85 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 34.6 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constan						
Cooling constant	<u> </u>					
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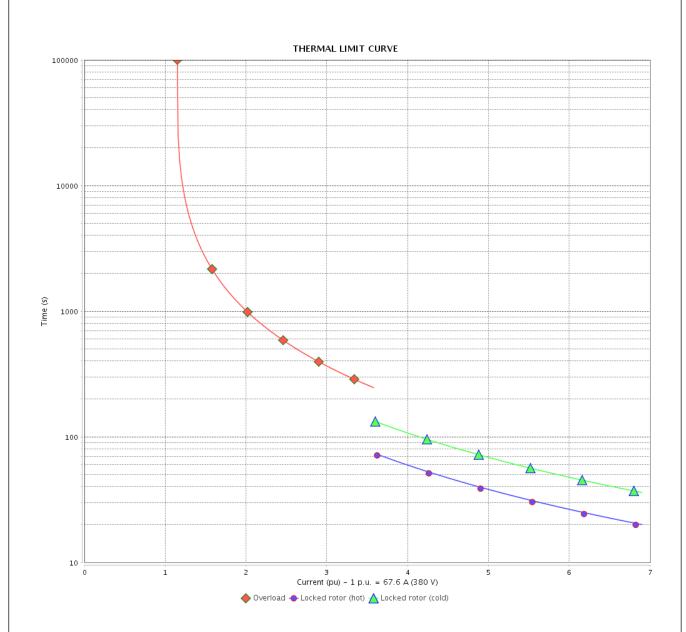


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	-	nase		Catalog # :	05009XT3E4	104T
Performance	. 36	80 V 50 Hz 8P IE3				
Rated current LRC		7.6 A	Moment o	f inertia (J)	: 34.6 sq.ft.lb : Cont.(S1)	
Rated torque	: 28	86 ft.lb	Insulation	class	: F	
Locked rotor tord		00 %	Service fa		: 1.00	
Breakdown torqu Rated speed		10 % 35 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constant						
Cooling constant	<u>. </u>					
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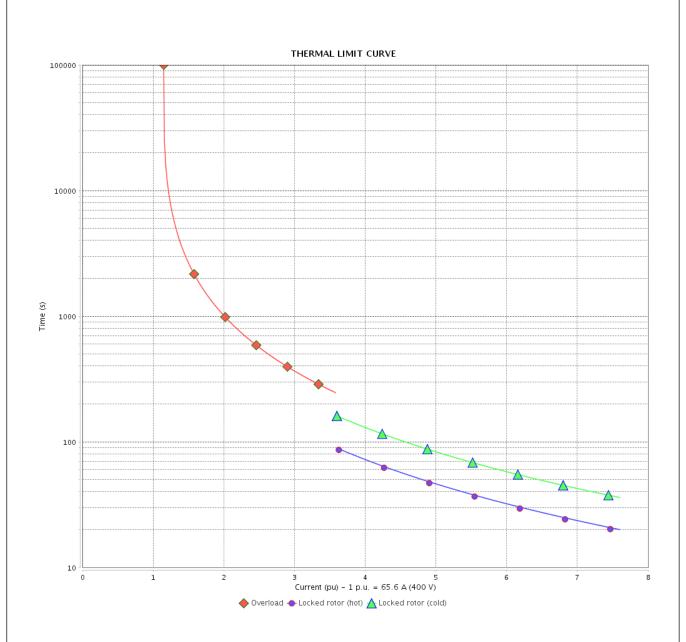


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Product line		NEMA Premium Efficiency [·] hase	Three-	Product code : Catalog # :	12408368 05009XT3E4	.04T
Performance	. 41	00 V 50 Hz 8P IE4				
Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: 69 : 7. : 20 que : 22 ue : 22	5.6 A	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 34.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant						
Cooling constant	<u> </u>					
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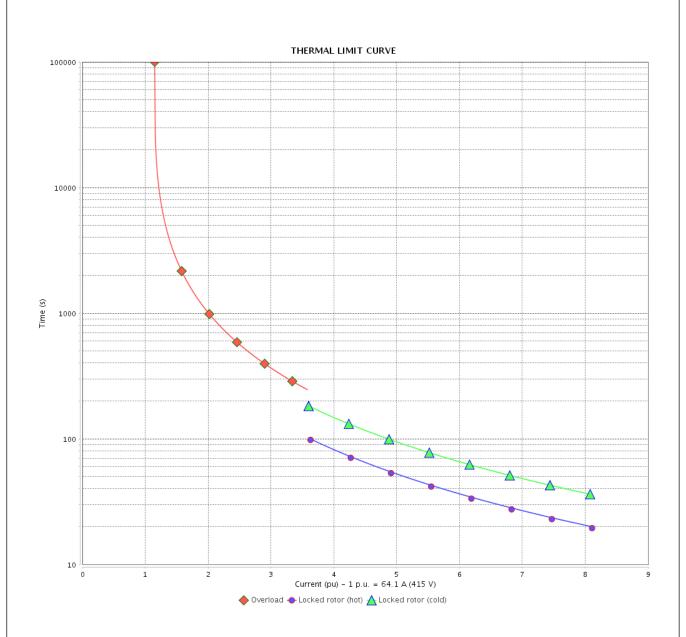


Customer	:					
Product line		NEMA Premium Efficiency ⁻ hase		Product code : Catalog # :	12408368 05009XT3E4	104T
Performance Rated current LRC Rated torque Locked rotor tord	: 6 ² : 8. : 28	15 V 50 Hz 8P IE4 4.1 A .1 84 ft.lb 60 %	Moment of Duty cycle Insulation Service fa	class	: 34.6 sq.ft.lb : Cont.(S1) : F : 1.00	
Breakdown torqu Rated speed	ie : 26 : 74	60 % 40 rpm	Temperati Design		: 80 K : B	
Heating constant						
Cooling constant		Changes Summary		Performed	Checked	Date
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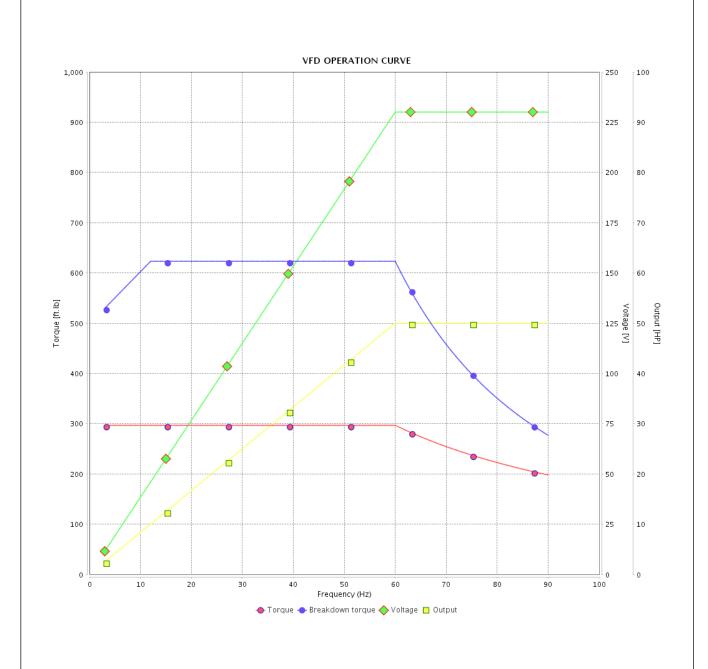
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Performance	: 230/460 V 60 Hz 8P					
Rated current	: 136/68.0 A	Moment of inertia (J)	: 34.6 sq.ft.lb			
LRC Rated torque	: 7.3 : 297 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F : 1.15 : 80 K			
Locked rotor torque	: 220 %	Service factor				
Breakdown torque	: 210 %	Temperature rise				
Rated speed	: 885 rpm	Design	: B			
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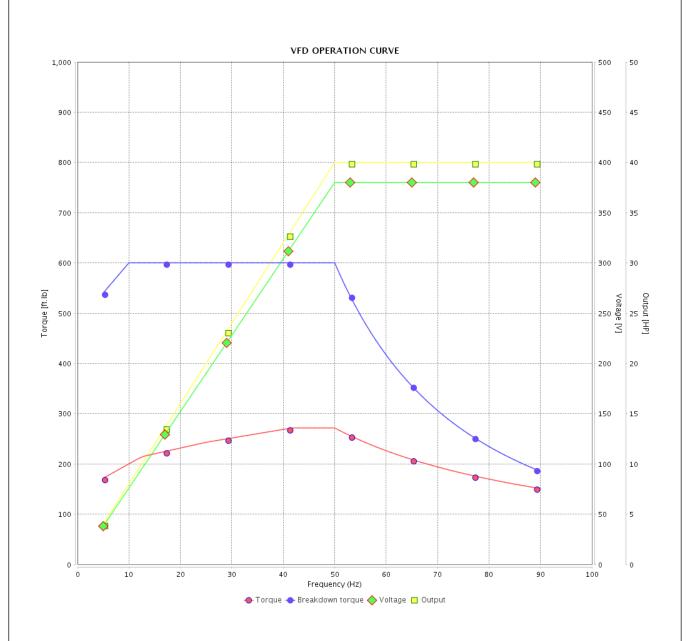
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Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 12408368

Catalog #: 05009XT3E404T



Performance	: 380 V 50 Hz 8P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 6.9 Duty of control of the control		class actor	: 34.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K		
Rated speed	: 735 rpm	Temperature rise Design		: B		
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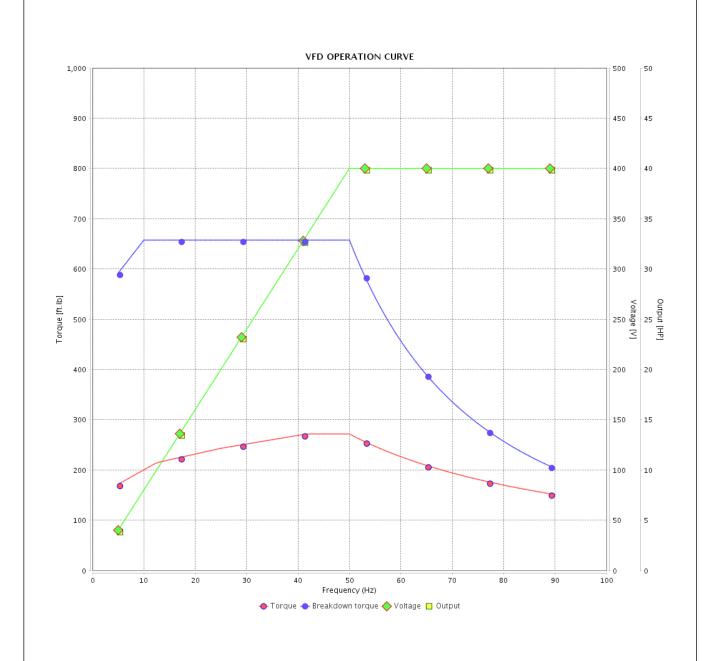


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12408368

Phase

Catalog #: 05009XT3E404T



Performance	:	: 400 V 50 Hz 8P IE4				
Rated current : 65.6 A		65.6 A	Moment o	Moment of inertia (J)		
LRC Rated torque Locked rotor torque		7.6 Duty cycle 286 ft.lb Insulation class 229 % Service factor		;	: Cont.(S1)	
				:F		
				ctor	: 1.00	
Breakdown torque	e :	229 %	Temperate	ure rise	: 80 K	
Rated speed	:	735 rpm	Design		: B	
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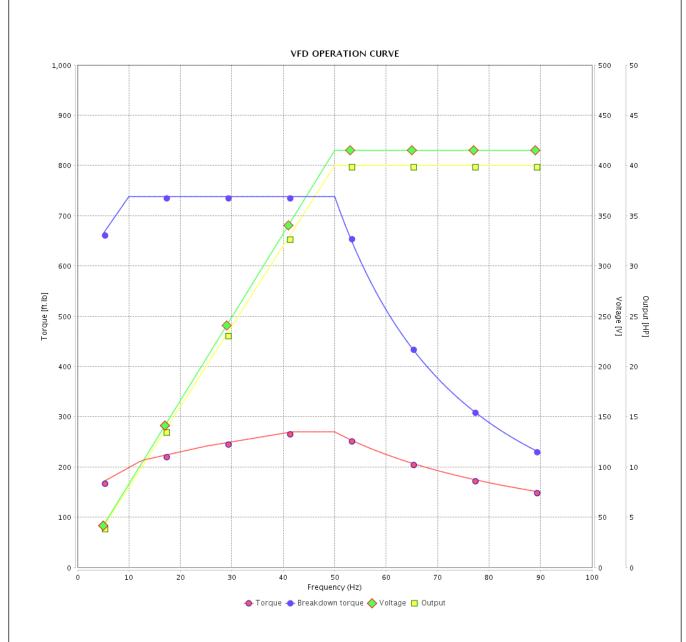
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Phase

Product code: 12408368

Catalog #: 05009XT3E404T



Performance : 415 V 50 Hz 8P IE4 Rated current : 64.1 A Moment of inertia (J) : 34.6 sq.ft.lb **LRC** : 8.1 Duty cycle : Cont.(S1) : 284 ft.lb Insulation class Rated torque : F Locked rotor torque : 260 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 740 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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