### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12408375

Catalog #: 10036XT3G405TS

Frame : 404/5TS Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

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

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

Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 1186 lb Protection degree : IP55 Moment of inertia (J) : 13.2 sq.ft.lb

Design	C	: B	Women of the	. 10.2	54.11.10
Output [HP]		100	75	75	75
Poles		2	2	2	2
Frequency [Hz]		60	50	50	50
Rated voltage [V]		460	380	400	415
Rated current [A]		110	98.3	94.4	91.0
L. R. Amperes [A]		715	649	699	728
LRC [A]		6.5x(Code G)	6.6x(Code G)	7.4x(Code H)	8.0x(Code H)
No load current [A	.]	25.0	26.0	27.0	28.0
Rated speed [RPN	Л]	3550	2955	2960	2965
Slip [%]		1.39	1.50	1.33	1.17
Rated torque [ft.lb]		148	133	133	133
Locked rotor torque [%]		250	200	220	240
Breakdown torque	: [%]	280	280	310	330
Service factor		1.15	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		37s (cold) 21s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)
Noise level <sup>2</sup>		85.0 dB(A)	82.0 dB(A)	82.0 dB(A)	82.0 dB(A)
	25%	93.4	93.0	93.4	93.4
Locked rotor time	50%	93.6	93.6	93.6	93.6
	75%	95.0	94.0	94.5	94.5
	100%	95.0	94.5	94.5	94.5
Power Factor	25%	0.62	0.59	0.57	0.55
	50%	0.85	0.84	0.82	0.80
I OWEI FACIOI	75%	0.89	0.88	0.87	0.87
	100%	0.90	0.90	0.89	0.89

Non drive end Foundation loads **Drive** end

Bearing type 6314 C3 6314 C3 Max. traction : 721 lb Sealing Oil Seal Lip Seal Max. compression : 1907 lb

Lubrication interval 3604 h 3604 h Lubricant amount 27 g 27 g Mobil Polyrex EM

Lubricant type

Notes

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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#### 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: 12408375 Catalog #: 10036XT3G405TS TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 Current Torque (pu) 1.2 0.6 0.3 40 50 60 Percent of synchronous speed ◆ Torque - 1 p.u. = 148 ft.lb ◆ Current - 1 p.u. = 110 A (460 V) : 460 V 60 Hz 2P Performance Rated current : 110 A Moment of inertia (J) : 13.2 sq.ft.lb LRC : 6.5 Duty cycle : Cont.(S1) Rated torque : 148 ft.lb Insulation class

e : 28	0 %	Service factor Temperature rise Design	е	: 1.15 : 80 K : B	
: 37	7s (cold) 21s (hot)		·		
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	e : 28 : 35 e : 3	e : 280 % : 3550 rpm  e : 37s (cold) 21s (hot)  Changes Summary	e : 280 % Temperature rise : 3550 rpm Design  e : 37s (cold) 21s (hot)  Changes Summary P	e : 280 % Temperature rise Design  : 37s (cold) 21s (hot)  Changes Summary Performed	e : 280 % Temperature rise : 80 K : 3550 rpm Design : B  e : 37s (cold) 21s (hot)  Changes Summary Performed Checked

### Three Phase Induction Motor - Squirrel Cage

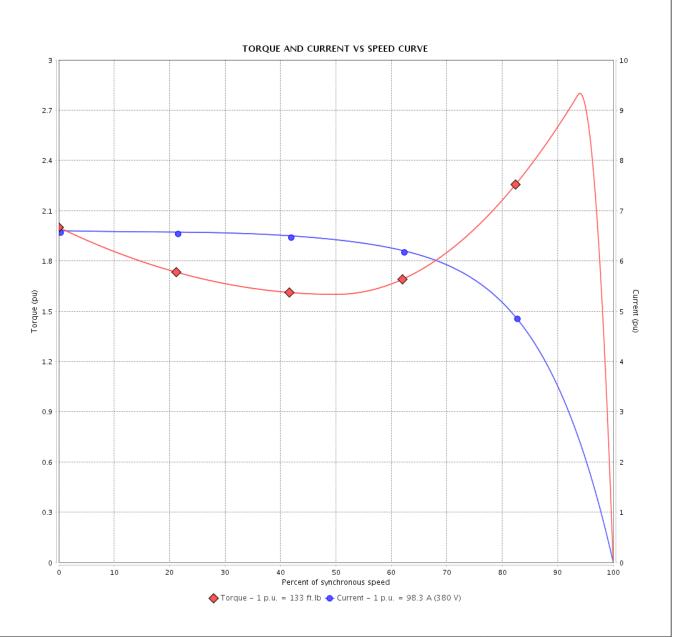


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12408375

Phase

Catalog #: 10036XT3G405TS



Performance	: 380 V 50 Hz 2P IE3		
Rated current	: 98.3 A	Moment of inertia (J)	: 13.2 sq.ft.lb
LRC	: 6.6	Duty cycle	: Cont.(S1)
Rated torque	: 133 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 2955 rpm	Design	: B
Locked roter time	: 32c (cold) 18c (bot)	1	

Locked rotor time : 32s (cold) 18s (hot)

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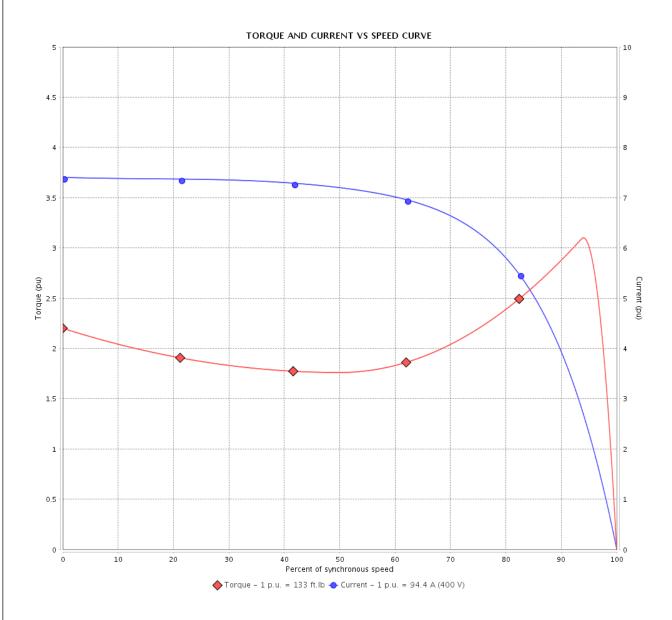


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12408375

Phase

Catalog #: 10036XT3G405TS



Performance : 400 V 50 Hz 2P IE3 Rated current : 94.4 A Moment of inertia (J) : 13.2 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 133 ft.lb Insulation class : F Rated torque : 220 % : 1.00 Locked rotor torque Service factor : 80 K Breakdown torque : 310 % Temperature rise : B Rated speed : 2960 rpm Design

Locked rotor time : 32s (cold) 18s (hot)

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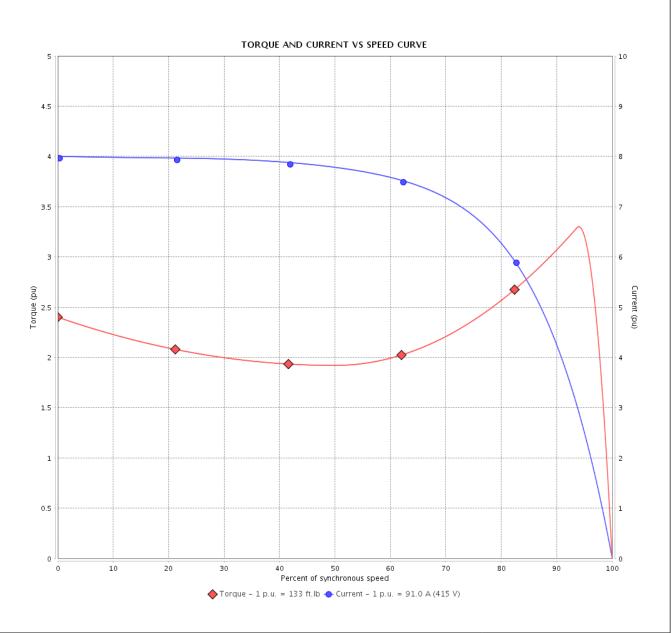
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12408375

Catalog #: 10036XT3G405TS



Performance : 415 V 50 Hz 2P IE3 Rated current : 91.0 A Moment of inertia (J) : 13.2 sq.ft.lb **LRC** : 8.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 133 ft.lb : F Service factor Locked rotor torque : 240 % : 1.00 Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 2965 rpm Design : B

Locked rotor time : 32s (cold) 18s (hot)

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Customer

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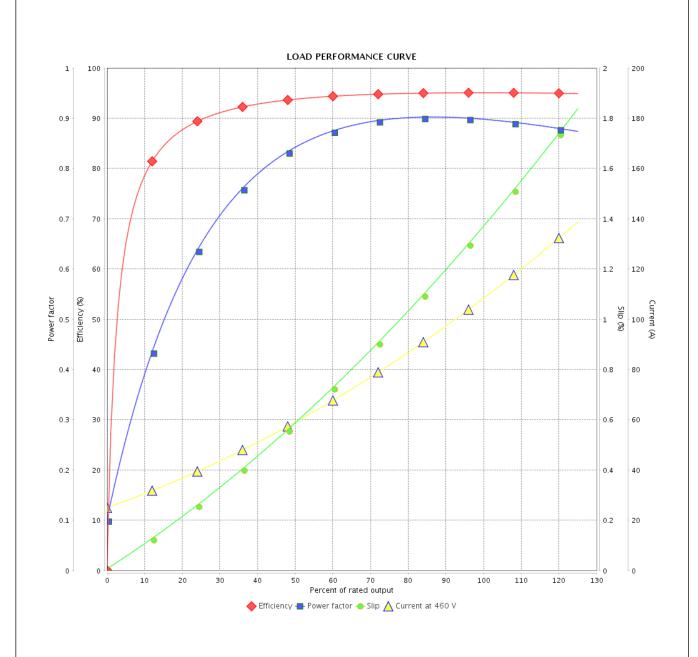
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Product line : NEMA Premium Efficiency Three- Product code : 12408375

Phase

Catalog #: 10036XT3G405TS



Performance	: 460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 6.5 Duty cycle : 148 ft.lb Insulation class : 250 % Service factor : 280 % Temperature ris		: Cont.(S1) class : F ctor : 1.15	
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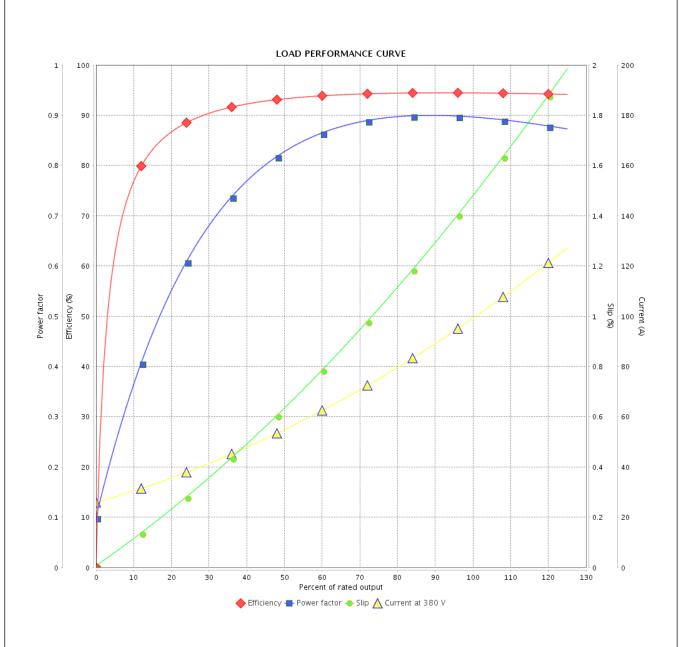
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Product line : NEMA Premium Efficiency Three- Produc

Phase

Product code: 12408375

Catalog #: 10036XT3G405TS



Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 98.3 A : 6.6 : 133 ft.lb : 200 % : 280 % : 2955 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 13.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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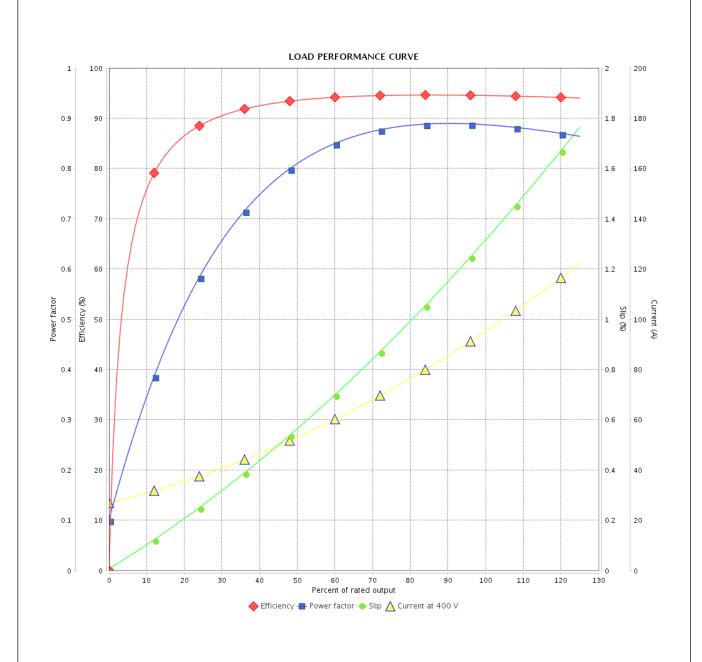


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12408375

Phase

Catalog #: 10036XT3G405TS



Performance	. 4	00 V 50 Hz 2P IE3				
			<b>6</b>	40.0 6.11		
Rated current	: 9	: 94.4 A Moment of inertia (		f inertia (J)	: 13.2 sq.ft.lb	
LRC	: 7	.4	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 1	33 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	20 %	Service fa	Service factor		
Breakdown torque	: 3	10 %	Temperati	Temperature rise		
Rated speed	: 2	960 rpm Design		: B		
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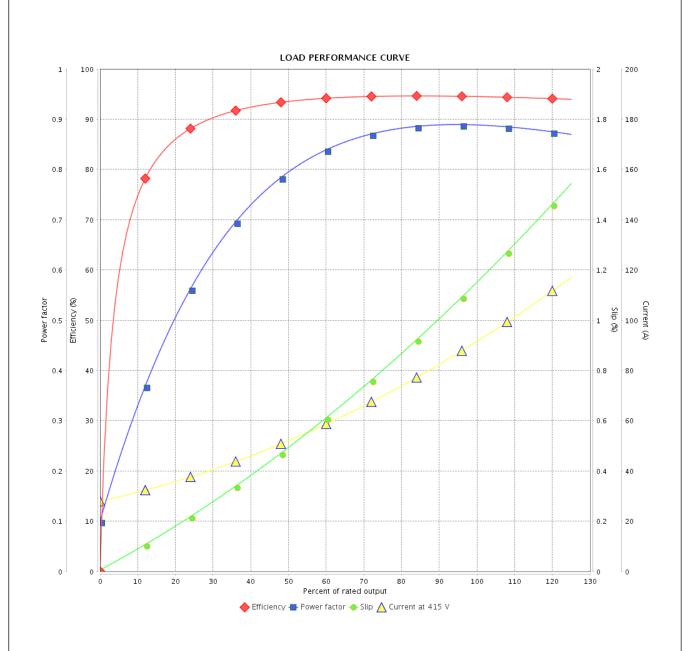


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12408375

Phase

Catalog #: 10036XT3G405TS



Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 91.0 A : 8.0 : 133 ft.lb : 240 % : 330 % : 2965 rpm	Moment of in Duty cycle Insulation cla Service facto Temperature Design	ass or	: 13.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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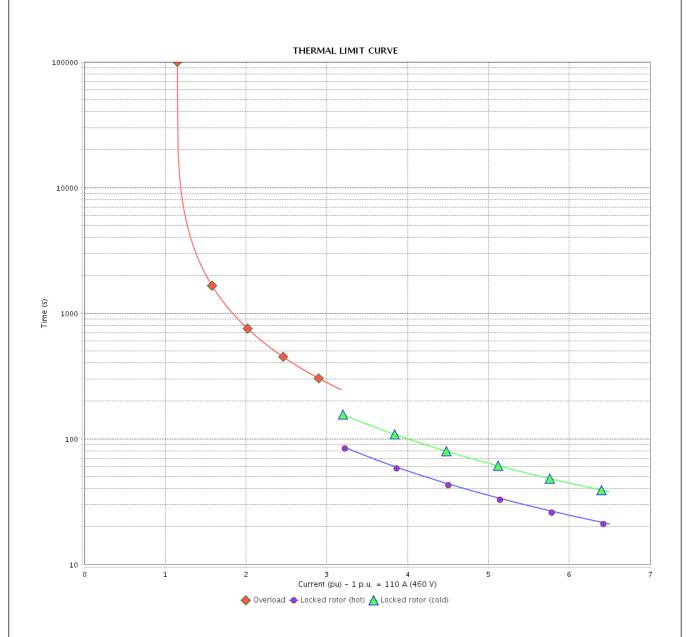


Product line	:	NEMA Premium Efficiency T	hree-	Product code :	12408375	
	F	hase		Catalog # :	10036XT3G4	105TS
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 1 : 6 : 1 que : 2 ue : 2 : 3	.5 48 ft.lb 50 % 80 %	Moment o Duty cycle Insulation Service fa Temperati Design	class ctor	: 13.2 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed Heating constant	: 1 : 6 : 1 que : 2 ue : 2 : 3	10 A .5 48 ft.lb 50 %	Duty cycle Insulation Service fa Temperati	e class ictor	: Cont.(S1) : F : 1.15 : 80 K	
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 1 : 6 : 1 que : 2 ue : 2 : 3	10 A .5 48 ft.lb 50 %	Duty cycle Insulation Service fa Temperati	e class ictor	: Cont.(S1) : F : 1.15 : 80 K	Date
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed Heating constant Cooling constant	: 1 : 6 : 1 que : 2 ue : 2 : 3	10 A .5 48 ft.lb 50 % 80 % 550 rpm	Duty cycle Insulation Service fa Temperati	class ctor ure rise	: Cont.(S1) : F : 1.15 : 80 K : B	Date
Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed Heating constant	: 1 : 6 : 1 que : 2 ue : 2 : 3	10 A .5 48 ft.lb 50 % 80 % 550 rpm	Duty cycle Insulation Service fa Temperati	class ctor ure rise	: Cont.(S1) : F : 1.15 : 80 K : B	Date
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed Heating constant Cooling constant Rev.	: 1 : 6 : 1 que : 2 ue : 2 : 3	10 A .5 48 ft.lb 50 % 80 % 550 rpm	Duty cycle Insulation Service fa Temperati	class ctor ure rise	: Cont.(S1) : F : 1.15 : 80 K : B	Date

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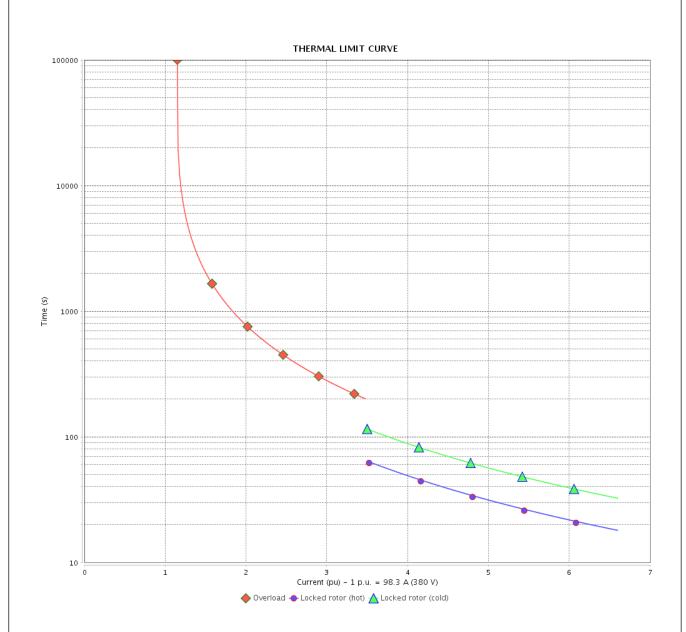


Product line	:	NEMA Premium Efficiency 1	Γhree-	Product code :	12408375	
		hase		Catalog # :	10036XT3G4	INSTS
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed	: 9 : 6 : 1 rque : 2 ; 2 : 2	80 V 50 Hz 2P IE3 8.3 A .6 33 ft.lb 00 % 80 % 955 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	ı class actor	: 13.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Performance Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar	: 9 : 6 : 1: rque : 2 : 2 : 2	8.3 A .6 33 ft.lb 00 % 80 %	Duty cycle Insulation Service fa Temperat	e ı class actor	: Cont.(S1) : F : 1.00 : 80 K	
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar Cooling constar	: 9 : 6 : 1: rque : 2 : 2 : 2	8.3 A .6 33 ft.lb 00 % 80 % 955 rpm	Duty cycle Insulation Service fa Temperat	e I class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed	: 9 : 6 : 1: rque : 2 : 2 : 2	8.3 A .6 33 ft.lb 00 % 80 %	Duty cycle Insulation Service fa Temperat	e ı class actor	: Cont.(S1) : F : 1.00 : 80 K	Date
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar Cooling constar Rev.	: 9 : 6 : 1: rque : 2 : 2 : 2	8.3 A .6 33 ft.lb 00 % 80 % 955 rpm	Duty cycle Insulation Service fa Temperat	e I class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar Cooling constar	: 9 : 6 : 1: rque : 2 : 2 : 2	8.3 A .6 33 ft.lb 00 % 80 % 955 rpm	Duty cycle Insulation Service fa Temperat	e I class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date

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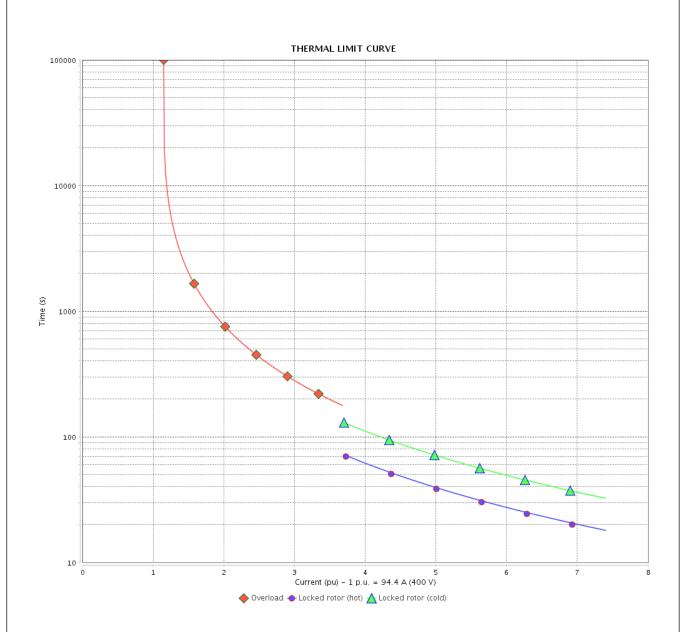


Product line	:	NEMA Premium Efficiency 1	Γhree-	Product code :	12408375	
		Phase		Catalog # :	10036XT3G4	INSTS
				Saulog # .		
Performance Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed	: 9 : 7 : 1 que : 2 ue : 3	100 V 50 Hz 2P IE3 04.4 A 7.4 133 ft.lb 120 % 1310 % 1960 rpm	Moment of Duty cycle Insulation Service fa Temperati Design	class actor	: 13.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed	: 9 : 7 : 1 que : 2 ue : 3 : 2	94.4 A 7.4 133 ft.lb 220 % 810 %	Duty cycle Insulation Service fa Temperate	e class actor	: Cont.(S1) : F : 1.00 : 80 K	
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed	: 9 : 7 : 1 que : 2 ue : 3 : 2	94.4 A 7.4 133 ft.lb 220 % 810 %	Duty cycle Insulation Service fa Temperate	e class actor	: Cont.(S1) : F : 1.00 : 80 K	Date
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar Cooling constan	: 9 : 7 : 1 que : 2 ue : 3 : 2	94.4 A 7.4 133 ft.lb 220 % 810 % 2960 rpm	Duty cycle Insulation Service fa Temperate	e class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar Cooling constan	: 9 : 7 : 1 que : 2 ue : 3 : 2	94.4 A 7.4 133 ft.lb 220 % 810 % 2960 rpm	Duty cycle Insulation Service fa Temperate	e class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constan Cooling constan Rev.	: 9 : 7 : 1 que : 2 ue : 3 : 2	94.4 A 7.4 133 ft.lb 220 % 810 % 2960 rpm	Duty cycle Insulation Service fa Temperate	e class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date

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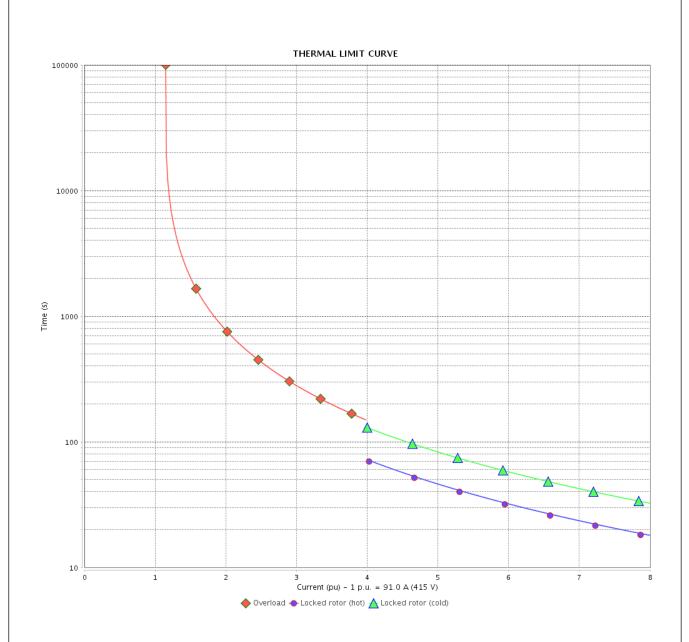


Product line	·	NEMA Premium Efficiency 1	Three-	Product code :	12408375	
		Phase				10579
				Catalog # :	10036XT3G4	405TS
Rated current LRC Rated torque Locked rotor tor Breakdown torq	: 9 : 8 : 1 que : 2 ue : 3	33 ft.lb 40 % 30 %	Duty cycle Insulation Service fa Temperate	class actor	: 13.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Performance Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constan	: 9 : 8 : 1 que : 2 ue : 3 : 2	1.0 A .0 33 ft.lb 40 %	Duty cycle Insulation Service fa	e class actor	: Cont.(S1) : F : 1.00	
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar Cooling constan	: 9 : 8 : 1 que : 2 ue : 3 : 2	1.0 A .0 33 ft.lb 40 % 30 % 965 rpm	Duty cycle Insulation Service fa Temperate	e class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed	: 9 : 8 : 1 que : 2 ue : 3 : 2	1.0 A .0 33 ft.lb 40 % 30 %	Duty cycle Insulation Service fa Temperate	e class actor	: Cont.(S1) : F : 1.00 : 80 K	Date
Rated current .RC Rated torque .ocked rotor tor Breakdown torq Rated speed Heating constar Cooling constan Rev.	: 9 : 8 : 1 que : 2 ue : 3 : 2	1.0 A .0 33 ft.lb 40 % 30 % 965 rpm	Duty cycle Insulation Service fa Temperate	e class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date
Rated current .RC Rated torque .ocked rotor tor Breakdown torq Rated speed Heating constar Cooling constar	: 9 : 8 : 1 que : 2 ue : 3 : 2	1.0 A .0 33 ft.lb 40 % 30 % 965 rpm	Duty cycle Insulation Service fa Temperate	e class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date

#### Three Phase Induction Motor - Squirrel Cage



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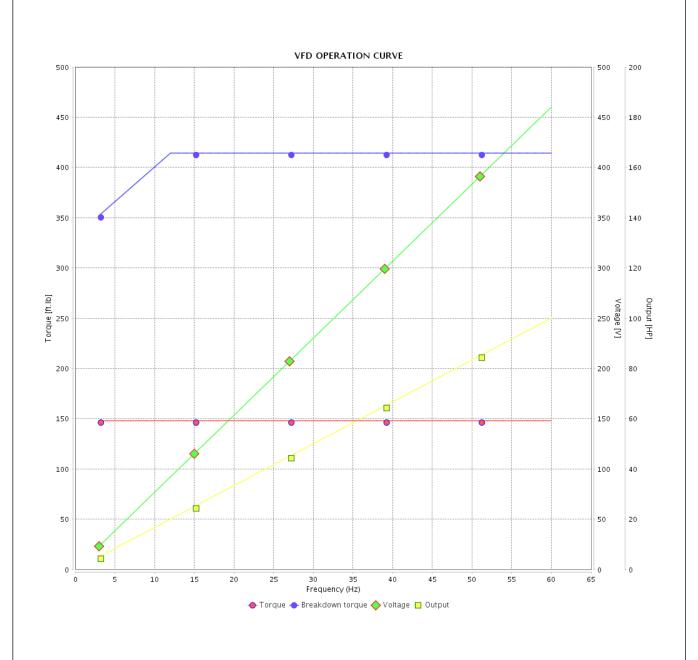


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12408375

Phase

Catalog #: 10036XT3G405TS



Performance	: 460 V 60 Hz 2P	: 460 V 60 Hz 2P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 110 A : 6.5 : 148 ft.lb : 250 % : 280 % : 3550 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		
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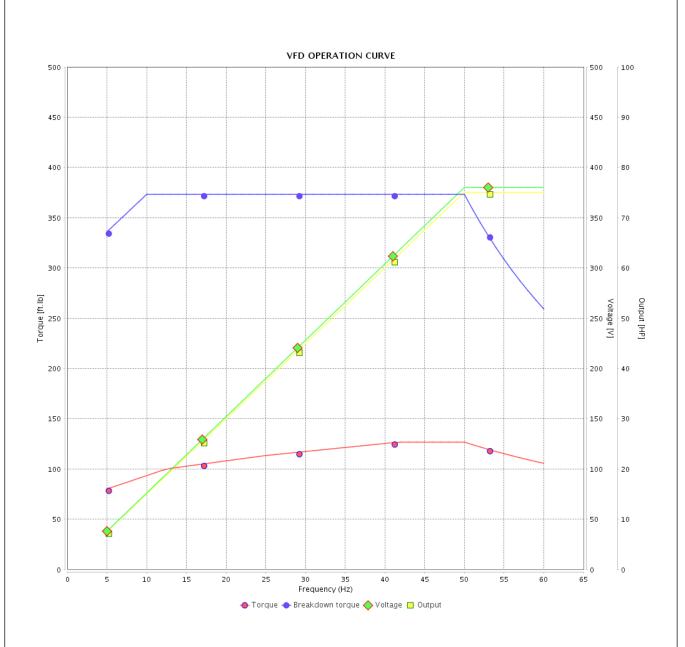
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12408375

Catalog #: 10036XT3G405TS



Performance	:	: 380 V 50 Hz 2I	P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed		: 98.3 A : 6.6 : 133 ft.lb : 200 % : 280 % : 2955 rpm	Ir S T	Moment of Duty cycle nsulation Service factoriate factoriate Design	class ctor	: 13.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer

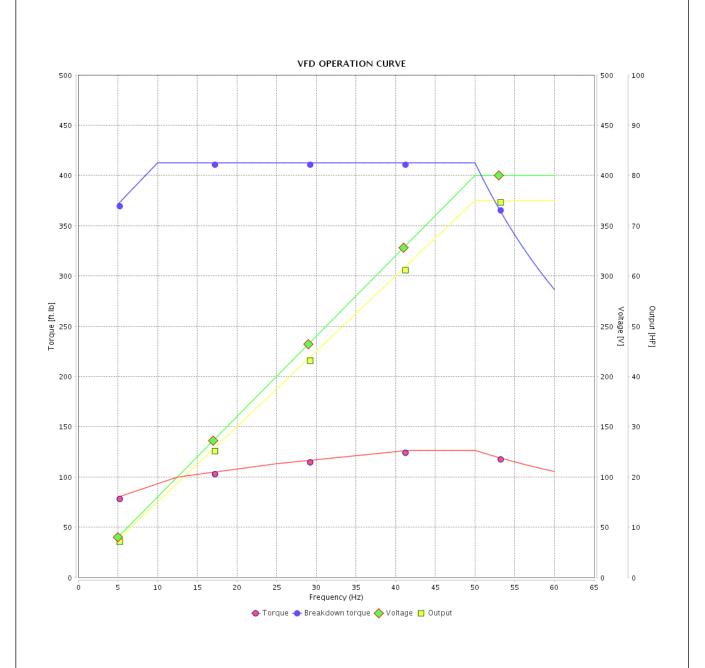
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Phase

Catalog #: 10036XT3G405TS

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Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 94.4 A : 7.4 : 133 ft.lb : 220 % : 310 % : 2960 rpm	Moment of i Duty cycle Insulation of Service fact Temperature Design	lass	: 13.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Customer :

Date

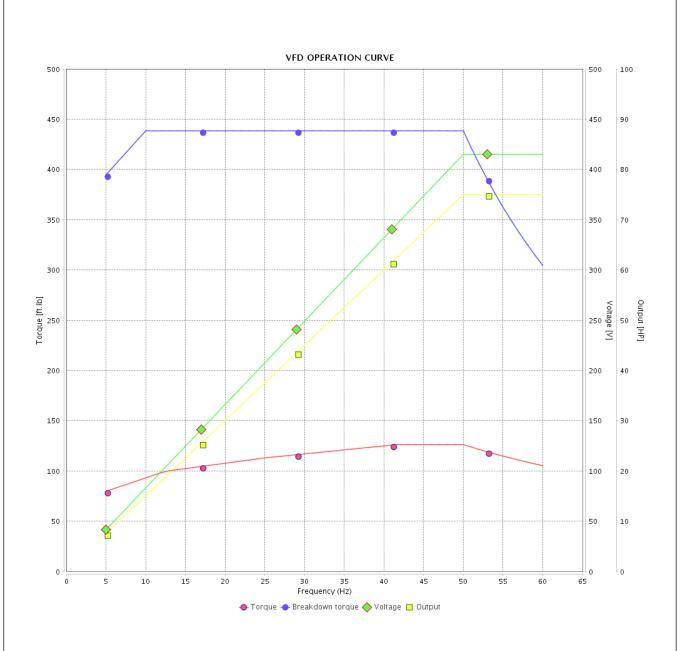
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12408375

Catalog #: 10036XT3G405TS



Performance : 415 V 50 Hz 2P IE3 Rated current : 91.0 A Moment of inertia (J) : 13.2 sq.ft.lb **LRC** : 8.0 Duty cycle : Cont.(S1) Insulation class : 133 ft.lb : F Rated torque Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 2965 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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