DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12408376

Phase

Catalog # : 12512XT3G445T

Frame : 444/5T 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 : 2263 lb

Altitude : 1000 m.a.s.l. Approx. weight³ : 2263 lb

Protection degree : IP55 Moment of inertia (J) : 104 sq.ft.lb

		. 11 33	Monient of the	51 tia (5) . 104	34.11.10
Design		: B			
Output [HP]		125	100	100	100
Poles		6	6	6	6
Frequency [Hz]		60	50	50	50
Rated voltage [V]		460	380	400	415
Rated current [A]		150	147	141	140
L. R. Amperes [A]		1110	1014	1086	1162
LRC [A]		7.4x(Code H)	6.9x(Code H)	7.7x(Code J)	8.3x(Code K)
No load current [A]	65.0	65.0	69.0	72.3
Rated speed [RPN	/ 1]	1185	985	985	985
Slip [%]	Slip [%]		1.50	1.50	1.50
Rated torque [ft.lb]		554	533	533	533
Locked rotor torque [%]		229	210	229	250
Breakdown torque	Breakdown torque [%]		229	260	280
Service factor		1.15	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		73s (cold) 41s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)
Noise level ²		70.0 dB(A)	66.0 dB(A)	66.0 dB(A)	66.0 dB(A)
	25%	94.4	94.4	93.8	94.0
Efficiency (%)	50%	94.5	94.5	94.0	94.1
Lilloleticy (70)	75%	95.0	94.5	94.5	94.5
100%		95.0	94.5	94.5	94.5
	25%	0.41	0.41	0.37	0.35
Power Factor	50%	0.67	0.68	0.64	0.61
1 OWELL ACIOI	75%	0.76	0.77	0.74	0.72

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

0.82

Bearing type : 6219 C3 6316 C3 Max. traction : 2848 lb Sealing : Viton Viton Seal Max. compression : 5111 lb

Oil Seal

0.82

Lubrication interval:12202 h12823 hLubricant amount:28 g34 gLubricant type:Mobil Polyrex EM

100%

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.

0.81

0.79

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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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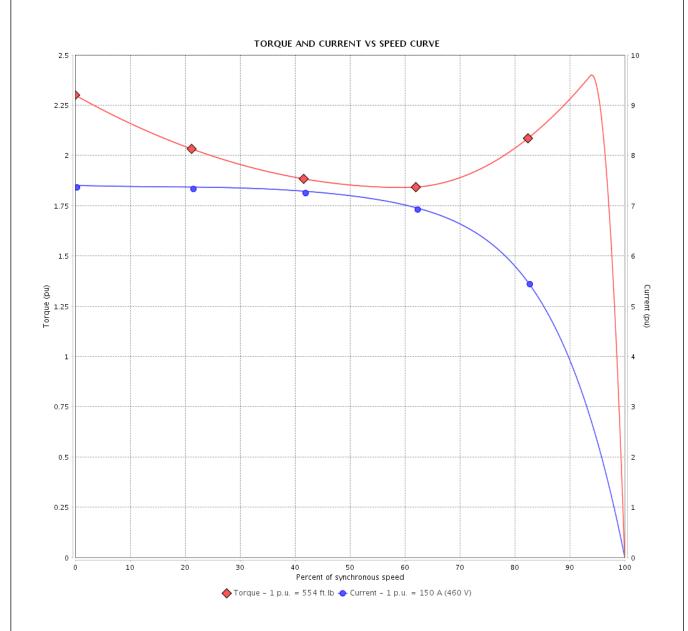


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12408376

Phase

Catalog #: 12512XT3G445T



Performance	: 460 V 60 Hz 6P			
Rated current	: 150 A	Moment of inertia (J)	: 104 sq.ft.lb	
LRC	: 7.4	Duty cycle	: Cont.(S1)	
Rated torque	: 554 ft.lb	Insulation class	: F	
Locked rotor torque	: 229 %	Service factor	: 1.15	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 1185 rpm	Design	: B	
Locked rotor time	· 73s (cold) 41s (hot)	I	<u>.</u>	

Locked rotor time : 73s (cold) 41s (hot)

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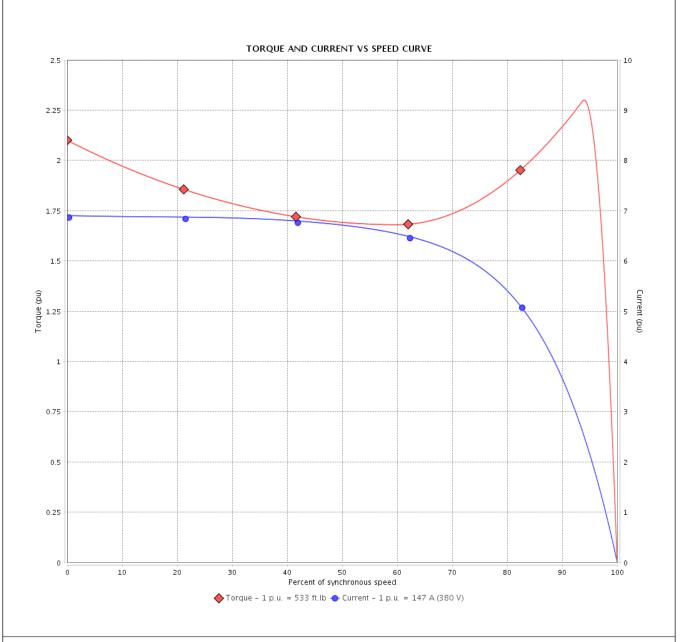
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12408376

Catalog #: 12512XT3G445T



Performance : 380 V 50 Hz 6P IE2 Rated current : 147 A Moment of inertia (J) : 104 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 533 ft.lb Service factor Locked rotor torque : 210 % : 1.00 : 229 % Breakdown torque Temperature rise : 80 K Rated speed : 985 rpm Design : B

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

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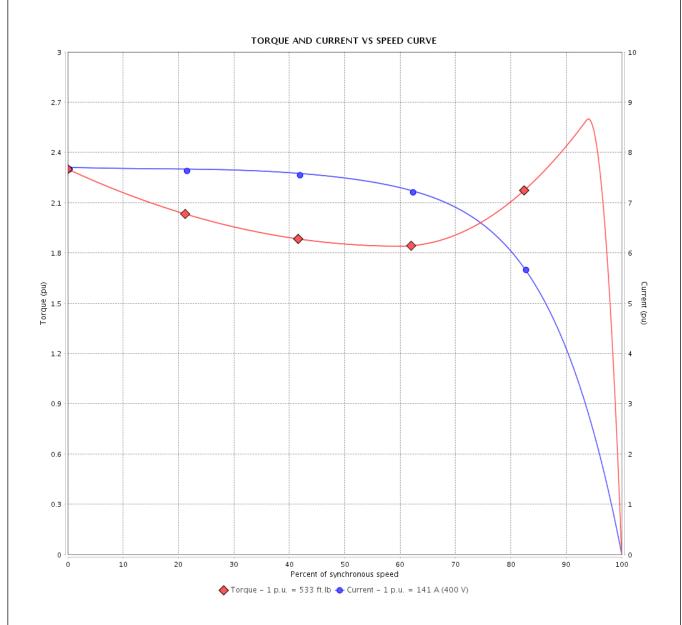
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12408376

Catalog #: 12512XT3G445T



Performance	: 400 V 50 Hz 6P IE2			
Rated current	: 141 A	Moment of inertia (J)	: 104 sq.ft.lb	
LRC	: 7.7	Duty cycle	: Cont.(S1)	
Rated torque	: 533 ft.lb	Insulation class	: F	
Locked rotor torque	: 229 %	Service factor	: 1.00	
Breakdown torque	: 260 %	Temperature rise	: 80 K	
Rated speed	: 985 rpm	Design	: B	
Locked rotor time	: 36s (cold) 20s (hot)			

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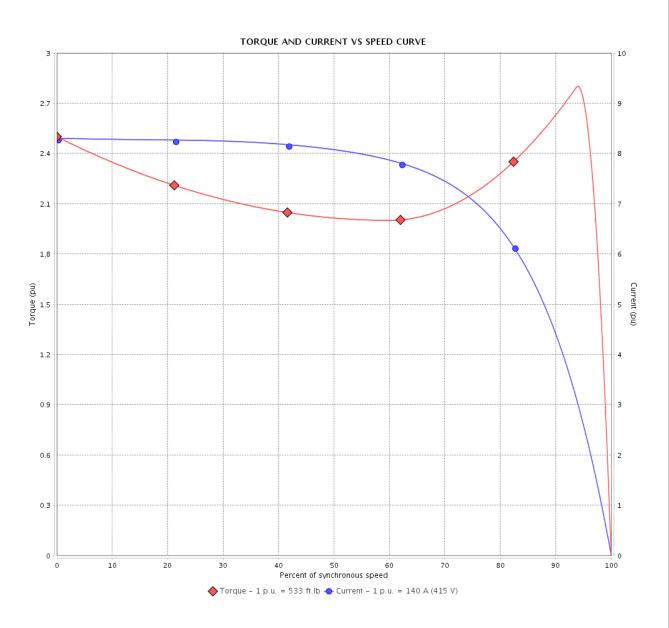
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12408376

Catalog #: 12512XT3G445T



Performance : 415 V 50 Hz 6P IE2 Rated current : 140 A Moment of inertia (J) : 104 sq.ft.lb **LRC** : 8.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 533 ft.lb : F Locked rotor torque : 250 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 985 rpm Design : B

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

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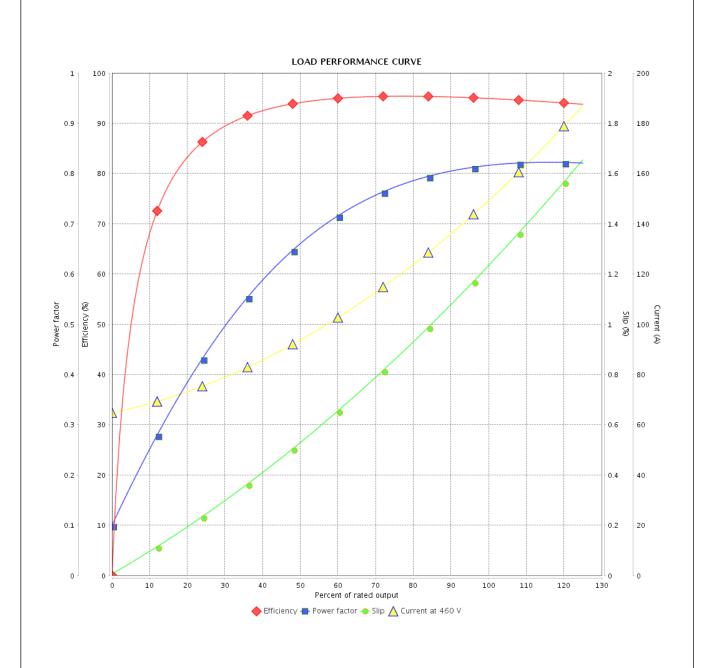


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12408376

Phase

Catalog #: 12512XT3G445T



Performance	: 4	60 V 60 Hz 6P				
Rated current	: 1	50 A	Moment o	f inertia (J)	: 104 sq.ft.lb	
LRC	: 7	' .4	Duty cycle	;	: Cont.(S1)	
Rated torque	: 5	554 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	229 %	Service fa	ctor	: 1.15	
Breakdown torque	: 2	240 %	Temperati	ıre rise	: 80 K	
Rated speed	: 1	185 rpm	Design		: B	
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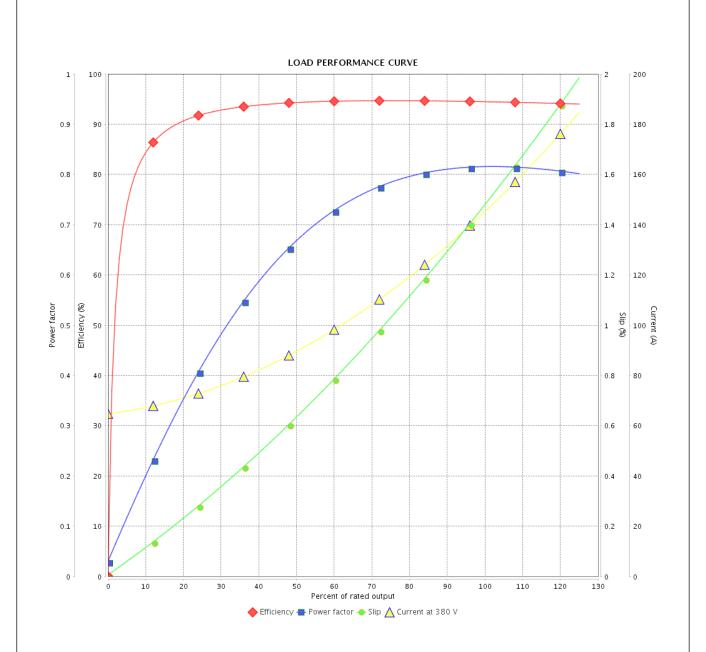
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Product line : NEMA Premium Efficiency Three- Product code : 12408376

Phase

Catalog #: 12512XT3G445T



Performance		: 380 V 50 Hz 6P IE2				
Rated current LRC		: 147 A : 6.9	Moment of Duty cycle	of inertia (J)	: 104 sq.ft.lb : Cont.(S1)	
Rated torque		: 533 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torgu	•	: 210 % : 229 %	Service fa		: 1.00 : 80 K	
Rated speed		: 985 rpm	Design	ure rise	: B	
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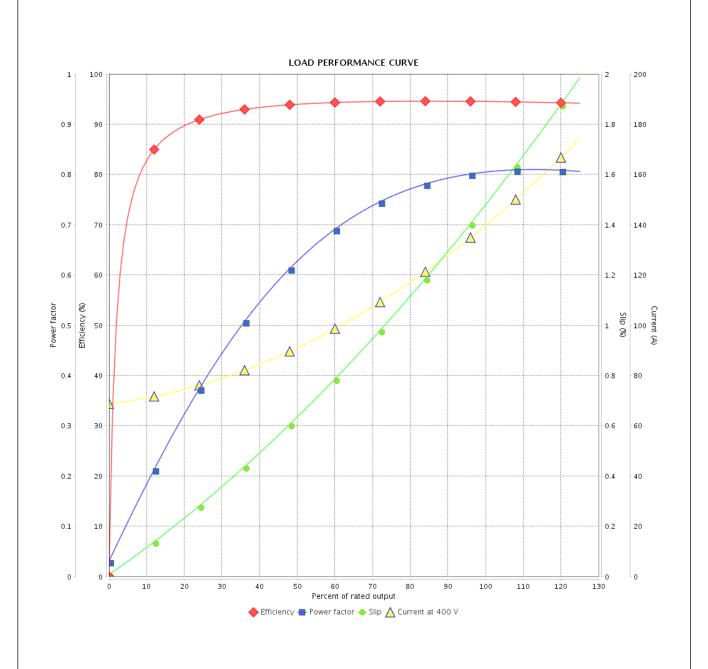


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12408376

Phase

Catalog #: 12512XT3G445T



Dorformana	. /	100 \ / E0 H= 6D IE3	1		·	
Performance	. 4	100 V 50 Hz 6P IE2	<u>'</u>			
Rated current	: 1	141 A	Moment o	f inertia (J)	: 104 sq.ft.lb	
LRC	: 7	7.7	Duty cycle)	: Cont.(S1)	
Rated torque	: 5	533 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	229 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	260 %	Temperati	ıre rise	: 80 K	
Rated speed	: 9	985 rpm	Design		: B	
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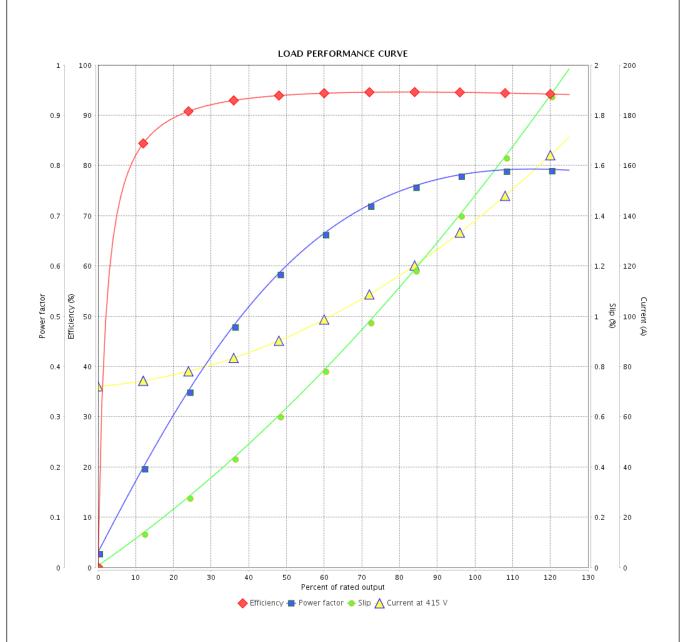
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12408376

Catalog #: 12512XT3G445T



					1	
Performance	:	415 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : : : : : : :	140 A 8.3 533 ft.lb 250 % 280 % 985 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 104 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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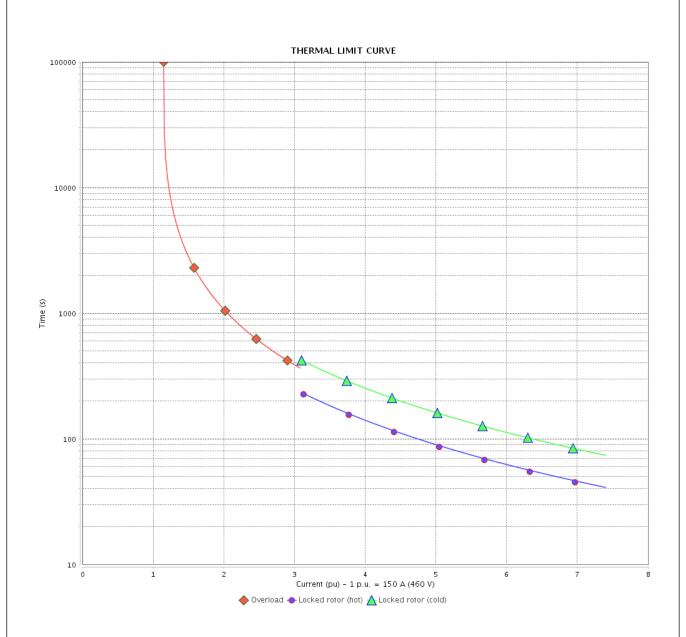


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Product line		NEMA Premium Efficiency hase		Product code :	12408376	
				Catalog # :	12512XT3G4	451
2. (22.1/22.11.25				
Performance Rated current LRC Rated torque	: 1! : 7. : 5!	54 ft.lb	Duty cycle Insulation	class	: 104 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord Breakdown torqu Rated speed	: 24 : 11	29 % 40 % 185 rpm	Service fa Temperati Design		: 1.15 : 80 K : B	
Heating constant Cooling constant						
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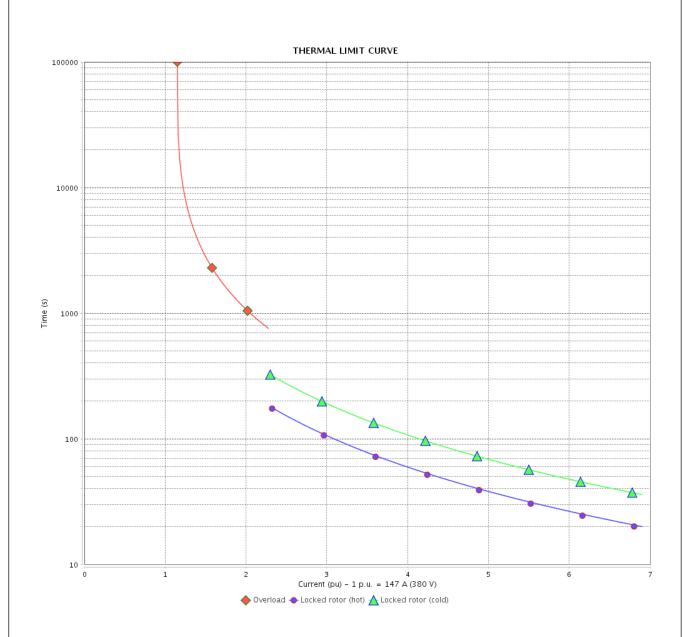


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Product line		NEMA Premium Efficiency Th hase		Product code :	12408376	
				Catalog # :	12512XT3G4	145T
Performance Rated current LRC Rated torque Locked rotor toro Breakdown torque Rated speed	: 1 : 6 : 5 que : 2	.9 [I 33 ft.lb I 10 % 5	Moment of Duty cycle nsulation Service faremperation Design	class ctor	: 104 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant	t		Design			
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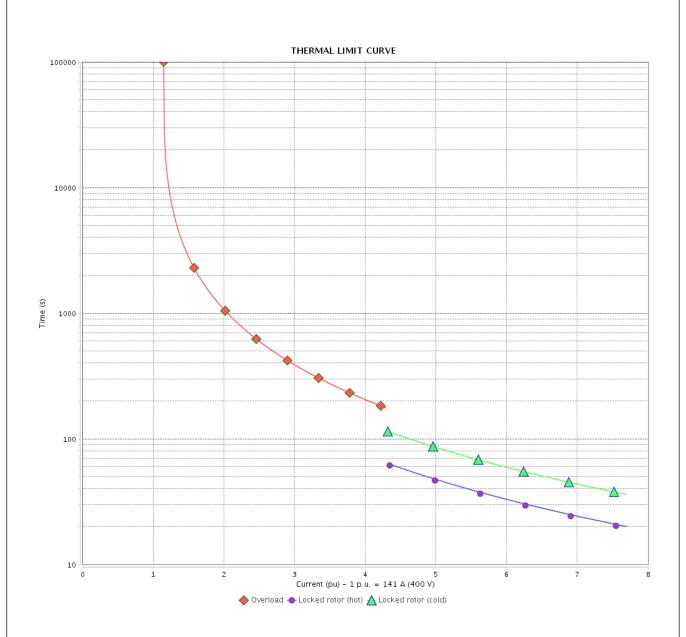


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code : Catalog # :	12408376 12512XT3G4	145T
Performance		00 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7. : 53 que : 22 ue : 26	41 A 7 33 ft.lb 29 % 60 % 35 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ictor	: 104 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant						
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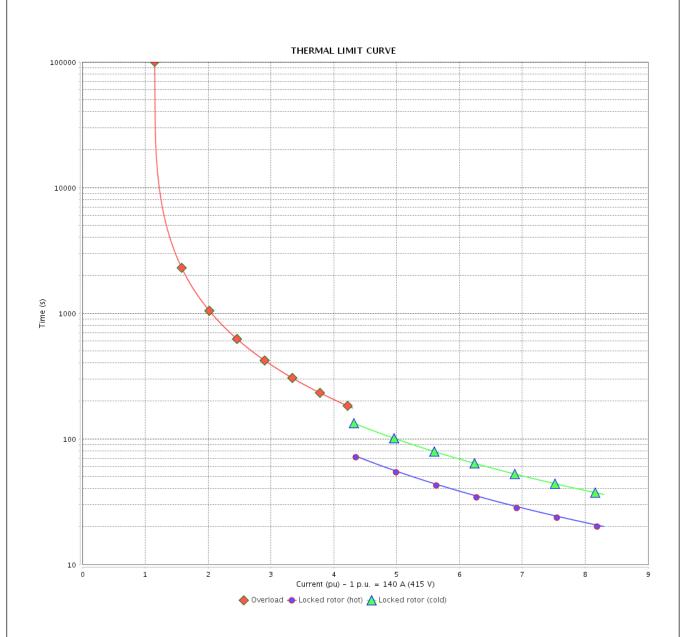


Product line	:	NEMA Premium Efficiency	Three-	Product code :	12408376	
	Р	hase		Catalog # :	12512XT3G4	145T
Rated current LRC Rated torque Locked rotor tord Breakdown torqu	: 1 : 8 : 5 que : 2	15 V 50 Hz 6P IE2 40 A .3 33 ft.lb 50 % 80 % 85 rpm	Moment of Duty cycle Insulation Service for Temperat Design	n class actor	: 104 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Performance Rated current LRC Rated torque Locked rotor torque Rated speed Heating constan	: 1. : 8 : 5 que : 2 : 9	40 A .3 33 ft.lb 50 % 80 %	Duty cycle Insulation Service fa Temperat	e n class actor	: Cont.(S1) : F : 1.00 : 80 K	
Rated current RC Rated torque cocked rotor torque Rated speed Reating constan Cooling constan	: 1. : 8 : 5 que : 2 : 9	40 A .3 33 ft.lb 50 % 80 % 85 rpm	Duty cycle Insulation Service fa Temperat	e n class actor ture rise	: Cont.(S1) : F : 1.00 : 80 K : B	
Rated current RC Rated torque ocked rotor tord Breakdown torque Rated speed	: 1. : 8 : 5 que : 2 : 9	40 A .3 33 ft.lb 50 % 80 %	Duty cycle Insulation Service fa Temperat	e n class actor	: Cont.(S1) : F : 1.00 : 80 K	Date
Rated current RC Rated torque ocked rotor torq Breakdown torqu Rated speed Heating constan Cooling constan	: 1. : 8 : 5 que : 2 : 9	40 A .3 33 ft.lb 50 % 80 % 85 rpm	Duty cycle Insulation Service fa Temperat	e n class actor ture rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date
Rated current RC Rated torque cocked rotor torque Rated speed Reating constan Cooling constan	: 1. : 8 : 5 que : 2 : 9	40 A .3 33 ft.lb 50 % 80 % 85 rpm	Duty cycle Insulation Service fa Temperat	e n class actor ture rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date
Rated current RC Rated torque ocked rotor tord Breakdown torque Rated speed Heating constan Cooling constan Rev.	: 1. : 8 : 5 que : 2 : 9	40 A .3 33 ft.lb 50 % 80 % 85 rpm	Duty cycle Insulation Service fa Temperat	e n class actor ture rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date

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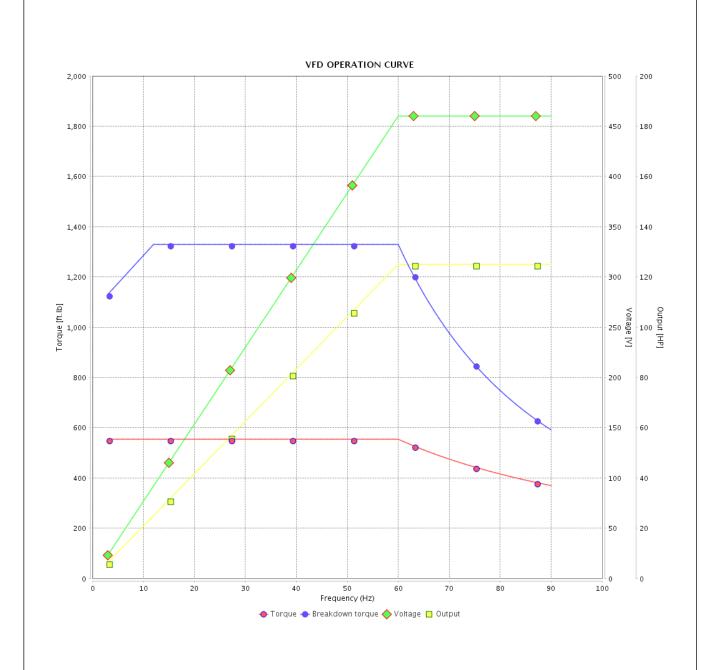
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Product line : NEMA Premium Efficiency Three- Product code : 12408376

Phase

Catalog #: 12512XT3G445T



Performance	: 460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 150 A : 7.4 : 554 ft.lb : 229 % : 240 % : 1185 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 104 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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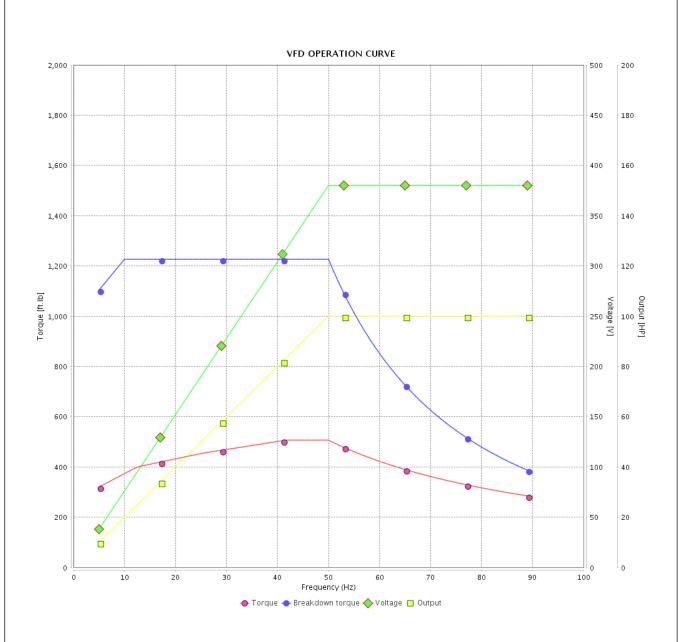
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12408376

Catalog #: 12512XT3G445T



Performance	: 380 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 147 A : 6.9 : 533 ft.lb : 210 % : 229 % : 985 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 104 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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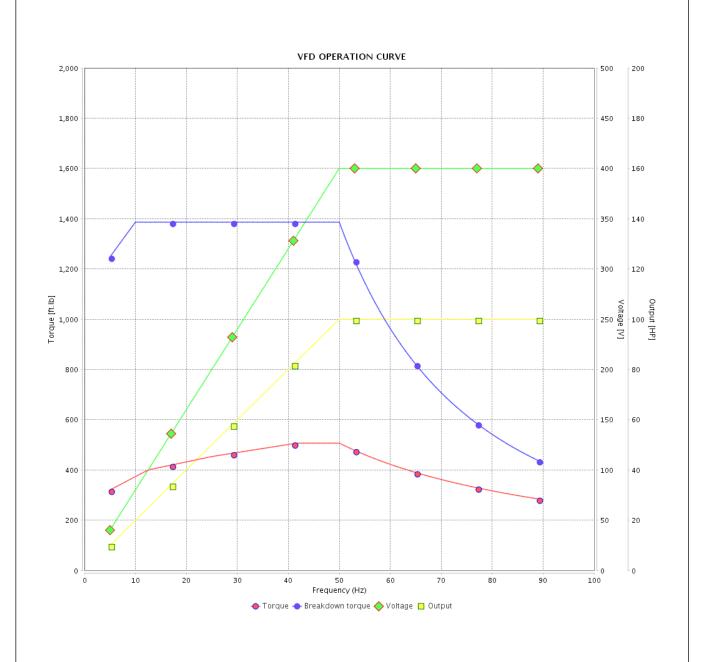


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12408376

Phase

Catalog #: 12512XT3G445T



Performance	: 400 V 50 Hz 6P IE2				
Rated current	: 141 A	Moment of inertia (J)		: 104 sq.ft.lb	
LRC	: 7.7 Duty cyc		!	: Cont.(S1)	
Rated torque			class	:F	
Locked rotor torque	: 229 %	Service fa	ctor	: 1.00	
Breakdown torque	: 260 %	Temperature rise Design		: 80 K	
Rated speed	: 985 rpm			: B	
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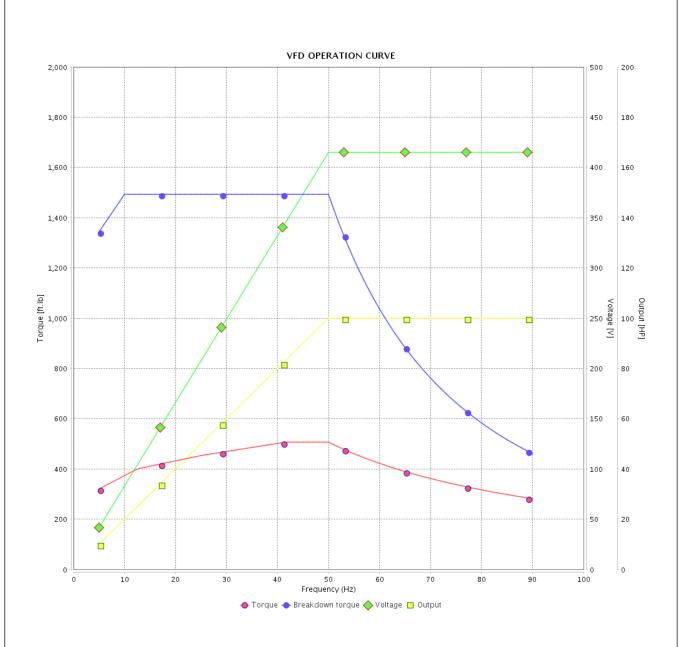
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12408376

Catalog #: 12512XT3G445T



Performance	: 418	5 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	ue : 250 e : 280	3 ft.lb 0 %	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 104 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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