DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14407394

Catalog #: 01518XT3ER254TC

Frame : 254TC Cooling method : IC411 - TEFC

Insulation class Mounting : W-6

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 : 338 lb

7 illitude		. 1000 111.0.5.1.	Approx. Weigi		
Protection degree	е	: IP55	Moment of ine	ertia (J) : 2.31	sq.ft.lb
Design		: B			
Output [HP]		15	15	15	15
Poles		4	4	4	4
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		36.8/18.4	22.1	21.3	20.8
L. R. Amperes [A]		269/134	128	136	141
LRC [A]		7.3x(Code J)	5.8x(Code G)	6.4x(Code G)	6.8x(Code H)
No load current [A]]	17.2/8.60	8.40	9.20	9.60
Rated speed [RPN	1]	1770	1455	1460	1465
Slip [%]		1.67	3.00	2.67	2.33
Rated torque [ft.lb]		44.5	54.1	54.0	53.8
Locked rotor torqu	e [%]	300	220	250	270
Breakdown torque	[%]	300	229	250	270
Service factor		1.15	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		46s (cold) 26s (hot)	45s (cold) 25s (hot)	45s (cold) 25s (hot)	45s (cold) 25s (hot)
Noise level ²		69.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)
	25%	89.4	92.1	91.4	90.8
Efficiency (%)	50%	90.2	91.0	91.0	91.0
Efficiency (70)	75%	91.7	91.7	91.7	91.0
	100%	92.4	90.2	91.0	91.0
	25%	0.39	0.45	0.42	0.39
Power Factor	50%	0.65	0.71	0.68	0.64
I OWELL ACTOL	75%	0.75	0.79	0.77	0.75
	100%	0.81	0.84	0.82	0.81

Drive end Non drive end Foundation loads

6309 C3 Bearing type 6209 C3 Max. traction : 527 lb Sealing Oil Seal Lip Seal Max. compression : 865 lb 15700 h

Lubricant amount 13 g 9 g Mobil Polyrex EM Lubricant type

14395 h

Notes

Lubrication interval

USABLE @208V 40.7A SF 1.15 SFA 46.8A

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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Thermal protection

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

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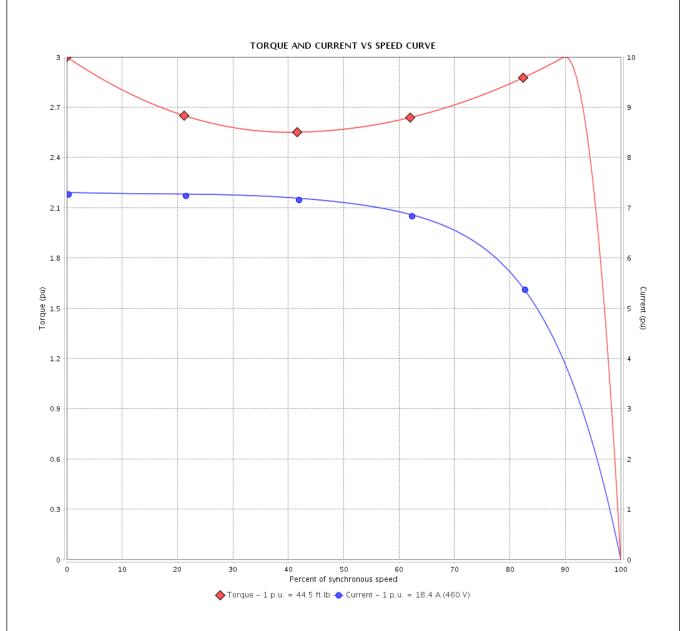
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 01518XT3ER254TC

14407394



Performance	: 230/460 V 60 Hz 4P			
Rated current	: 36.8/18.4 A	Moment of inertia (J)	: 2.31 sq.ft.lb	
LRC	: 7.3	Duty cycle	: Cont.(S1)	
Rated torque	: 44.5 ft.lb	Insulation class	: F	
Locked rotor torque	: 300 %	Service factor	: 1.15	
Breakdown torque	: 300 %	Temperature rise	: 80 K	
Rated speed	: 1770 rpm	Design	: B	
Locked rotor time	: 46s (cold) 26s (hot)			

Locked rotor time : 46s (cold) 26s (hot)

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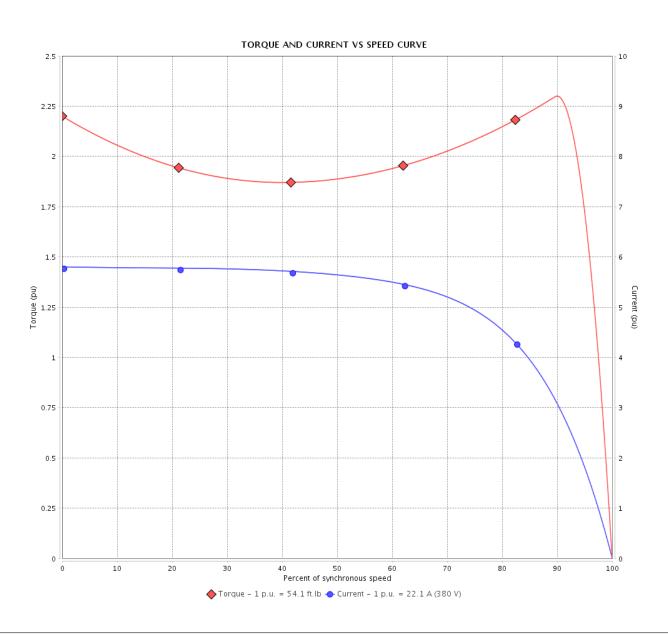
Customer :

Product line : NEMA Premium Efficiency Three- Product of

Phase

Product code: 14407394

Catalog #: 01518XT3ER254TC



Performance : 380 V 50 Hz 4P IE2 Rated current : 22.1 A Moment of inertia (J) : 2.31 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 54.1 ft.lb : F Service factor Locked rotor torque : 220 % : 1.00 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1455 rpm Design : B

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

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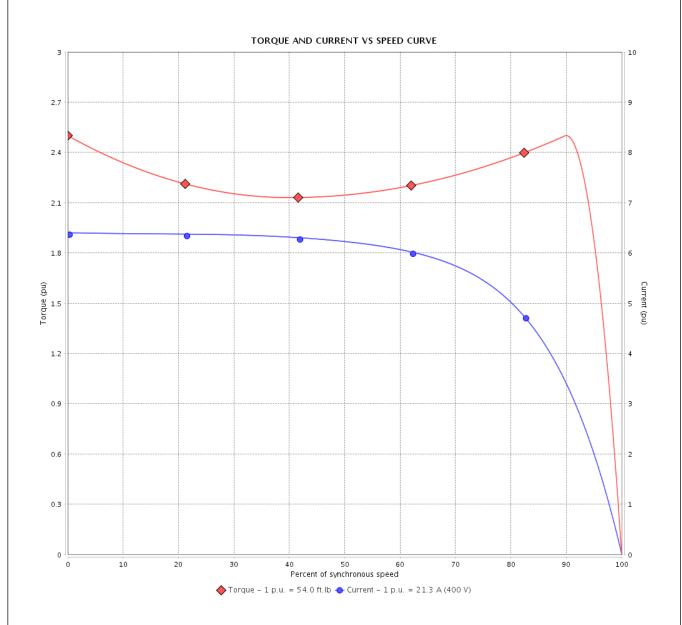
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14407394

Catalog #: 01518XT3ER254TC



Performance	: 400 V 50 Hz 4P IE2			
Rated current	: 21.3 A	Moment of inertia (J)	: 2.31 sq.ft.lb	
LRC	: 6.4	Duty cycle	: Cont.(S1)	
Rated torque	: 54.0 ft.lb	Insulation class	: F	
Locked rotor torque	: 250 %	Service factor	: 1.00	
Breakdown torque	: 250 %	Temperature rise	: 80 K	
Rated speed	: 1460 rpm	Design	: B	
Locked rotor time	: 45s (cold) 25s (hot)		-	

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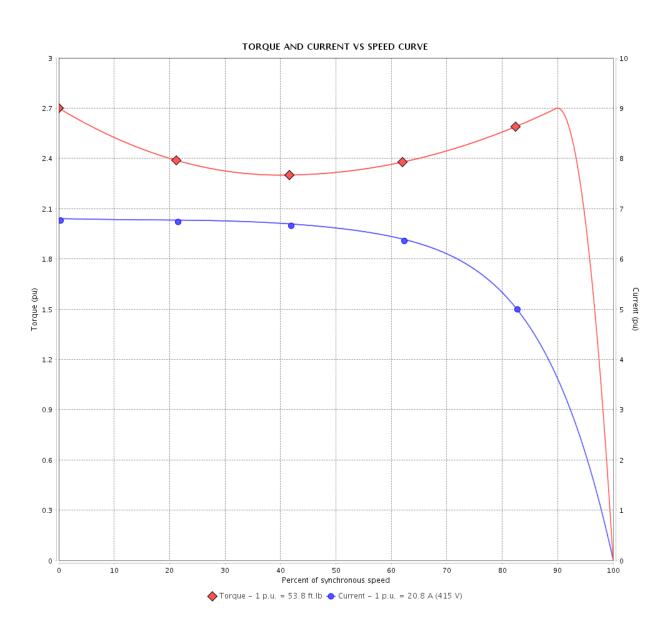
Customer :

Product line : NEMA Premium Efficiency Three- Product code

Phase

Product code: 14407394

Catalog #: 01518XT3ER254TC



Performance : 415 V 50 Hz 4P IE2 Rated current : 20.8 A Moment of inertia (J) : 2.31 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) : 53.8 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 270 % : 1.00 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B

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

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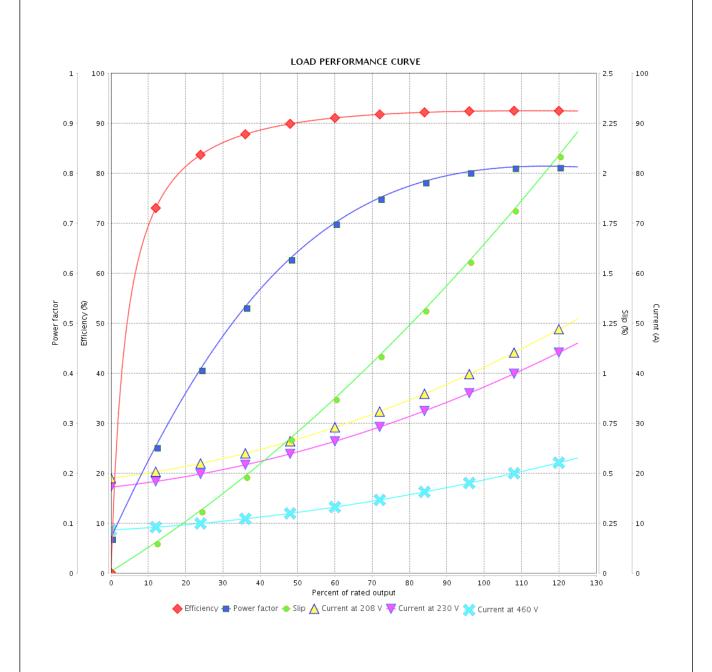


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14407394

Phase

Catalog #: 01518XT3ER254TC



Performance : 230/460 V 60 Hz 4P	
Rated current : 36.8/18.4 A Moment of inertia (J) : 2	.31 sq.ft.lb
LRC : 7.3 Duty cycle : C	Cont.(S1)
Rated torque : 44.5 ft.lb Insulation class : F	
Locked rotor torque : 300 % Service factor : 1	.15
Breakdown torque : 300 % Temperature rise : 8	0 K
Rated speed : 1770 rpm Design : B	,
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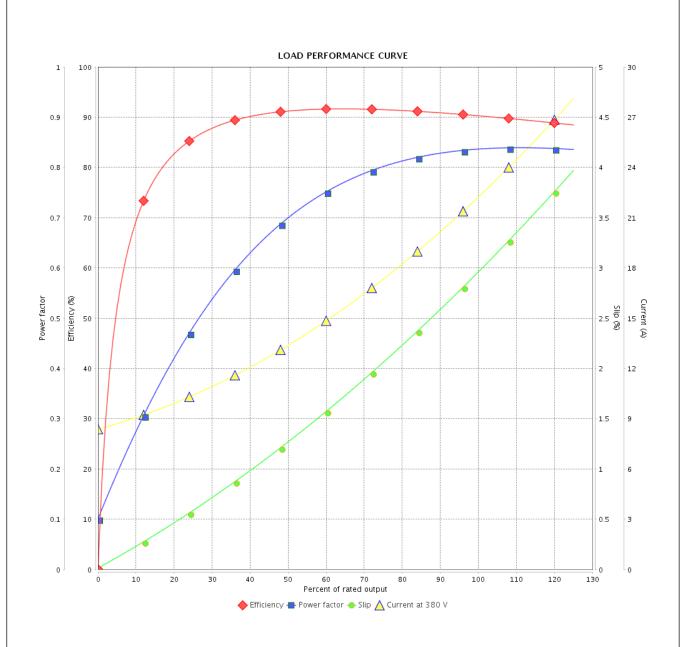
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 01518XT3ER254TC

14407394



Performance : 380 V 50 Hz 4P IE2 : 22.1 A Rated current Moment of inertia (J) : 2.31 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) : 54.1 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1455 rpm Design : B Rev Changes Summary Checked Performed Date

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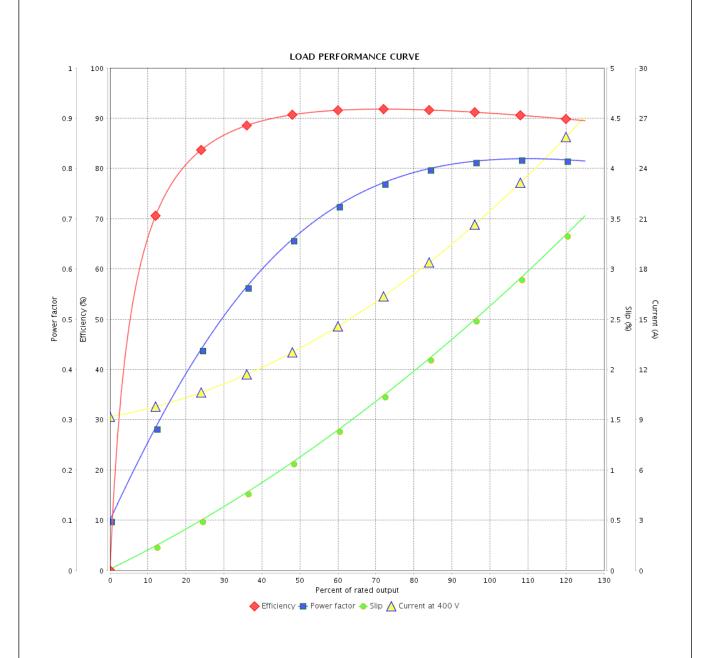


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14407394

Phase

Catalog #: 01518XT3ER254TC



Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 21.3 A : 6.4 : 54.0 ft.lb : 250 % : 250 % : 1460 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.31 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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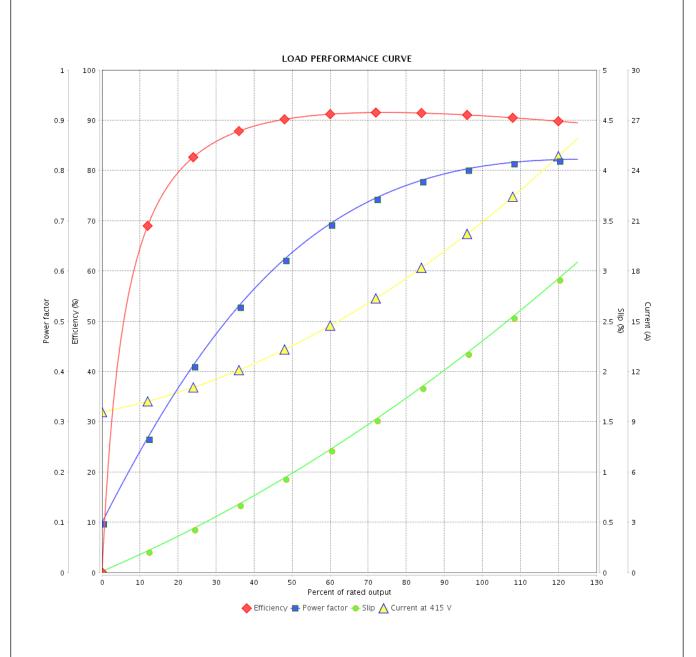


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14407394

Phase

Catalog #: 01518XT3ER254TC



Performance	: 415 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 20.8 A : 6.8 : 53.8 ft.lb : 270 % : 270 % : 1465 rpm	Moment of ir Duty cycle Insulation cla Service facto Temperature Design	ass or	: 2.31 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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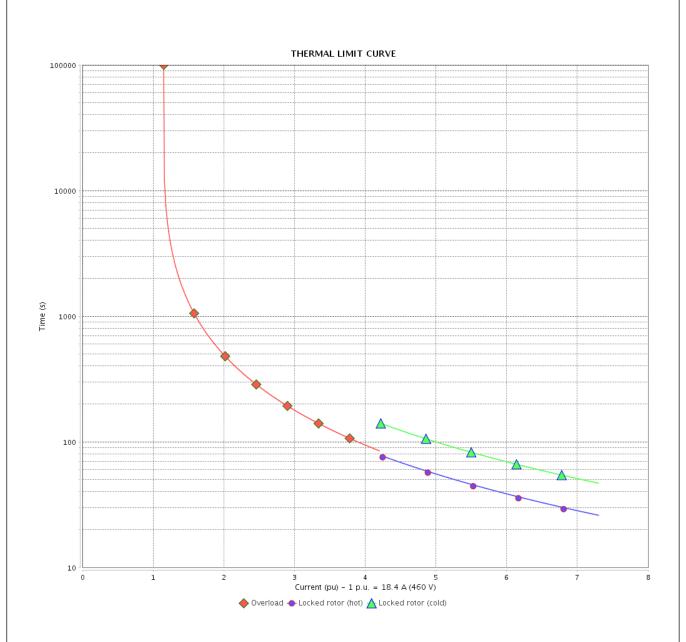


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Customer	:					
Product line	:	NEMA Premium Efficiency Th	nree-	Product code :	14407394	
	r	Tiase		Catalog # :	01518XT3EF	R254TC
Performance	: 2	30/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 3 : 7 : 4 jue : 3 ie : 3	6.8/18.4 A	Moment o Duty cycle nsulation Service fa Temperatu Design	class ctor	: 2.31 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant	 t					
Cooling constant						
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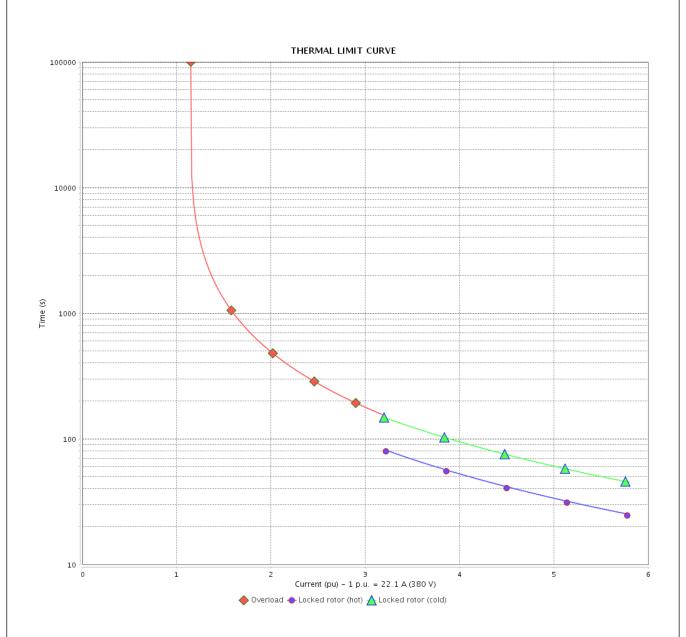


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Product line	: I P	NEMA Premium Efficiency hase		Product code : Catalog # :	14407394 01518XT3EI	R254TC
Performance	: 38	80 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5. : 54 que : 22 ue : 22	2.1 A 8 4.1 ft.lb 20 % 29 % 455 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ictor	: 2.31 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant						
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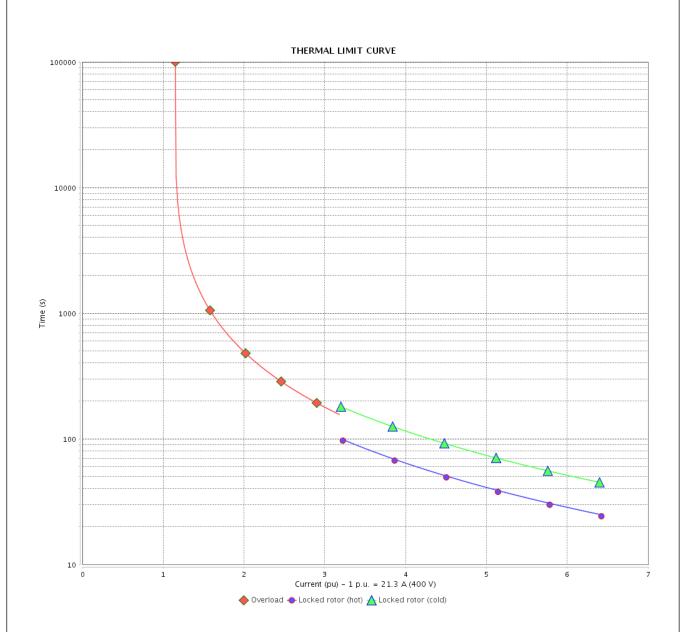


Product line	:	NEMA Premium Efficiency T	hree-	Product code :	14407394	
	F	Phase		Catalog # :	01518XT3EF	R254TC
Performance Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar	: 2 : 6 : 5 que : 2 ue : 2 : 1	.4 4.0 ft.lb 50 % 50 %	Moment of Duty cycle Insulation Service fa Temperate Design	class ictor	: 2.31 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar	: 2 : 6 : 5 que : 2 ue : 2 : 1	1.3 A .4 4.0 ft.lb 50 % 50 %	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 Heating constar	: 2 : 6 : 5 que : 2 ue : 2 : 1	1.3 A .4 4.0 ft.lb 50 % 50 %	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 constar	: 2 : 6 : 5 que : 2 ue : 2 : 1	1.3 A .4 4.0 ft.lb 50 % 50 % 460 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 constar	: 2 : 6 : 5 que : 2 ue : 2 : 1	1.3 A .4 4.0 ft.lb 50 % 50 % 460 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 constar Rev.	: 2 : 6 : 5 que : 2 ue : 2 : 1	1.3 A .4 4.0 ft.lb 50 % 50 % 460 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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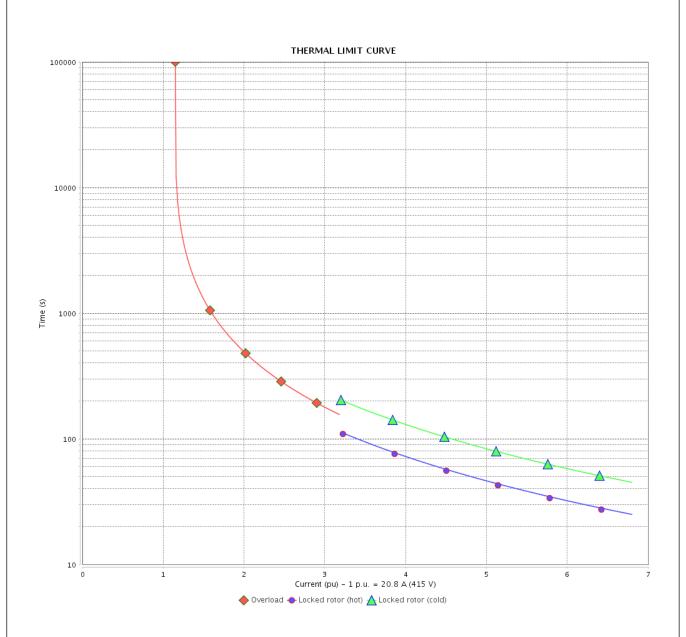


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Product line		NEMA Premium Efficiency `hase		Product code : Catalog # :	14407394 01518XT3EF	R254TC
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 20 : 6. : 50 : 50 : 21 : 21	15 V 50 Hz 4P IE2 0.8 A 8 3.8 ft.lb 70 % 70 % 465 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 2.31 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant						
Cooling constant	•	01 0				
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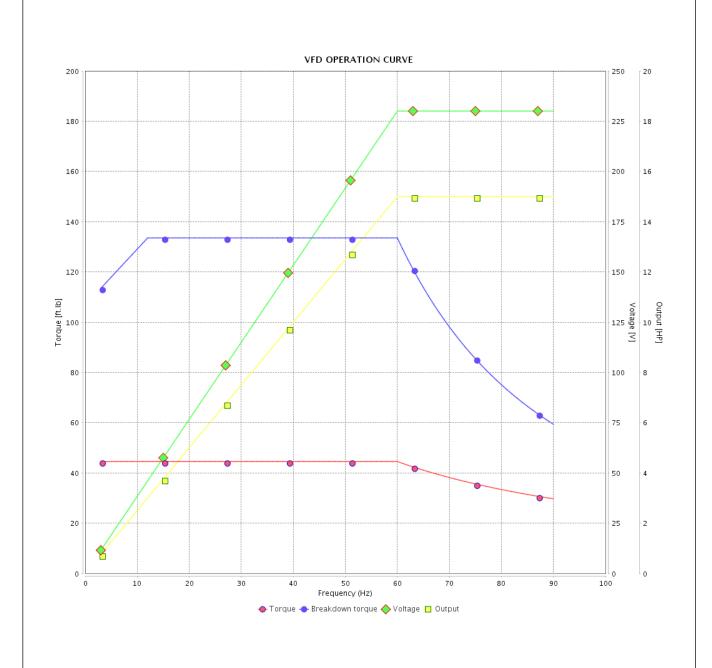
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 14407394

Catalog #: 01518XT3ER254TC



Performance	: 2	30/460 V 60 Hz 4P				
Rated current	: 3	6.8/18.4 A	.8/18.4 A Moment of inertia (J)		: 2.31 sq.ft.lb	
LRC	: 7	.3	Duty cycle		: Cont.(S1)	
Rated torque	: 4	4.5 ft.lb	Insulation class		: F	
Locked rotor tord	que : 3	00 %	Service factor		: 1.15	
Breakdown torqu	ue : 3	00 %	Temperature rise		: 80 K	
Rated speed	: 1	770 rpm	Design		: B	
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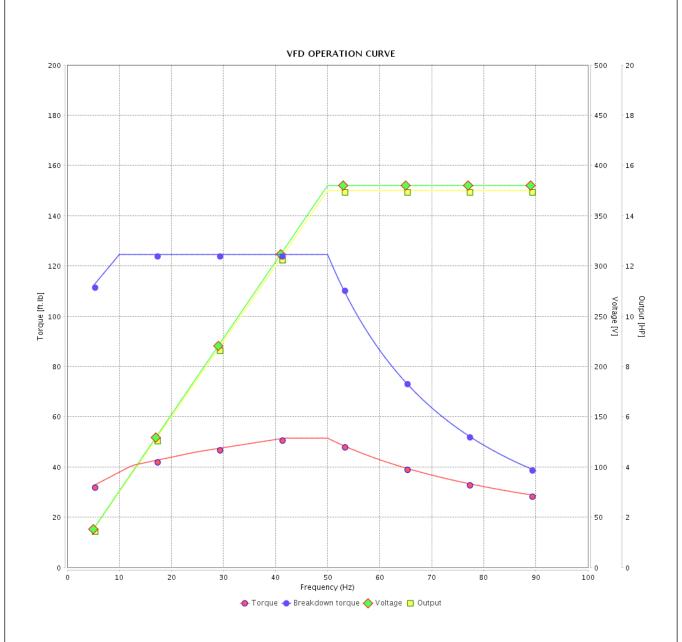
Customer :

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Phase

Product code: 14407394

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Performance : 380 V 50 Hz 4P IE2 Rated current : 22.1 A Moment of inertia (J) : 2.31 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) : 54.1 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1455 rpm Design : B Rev Changes Summary Performed Checked Date

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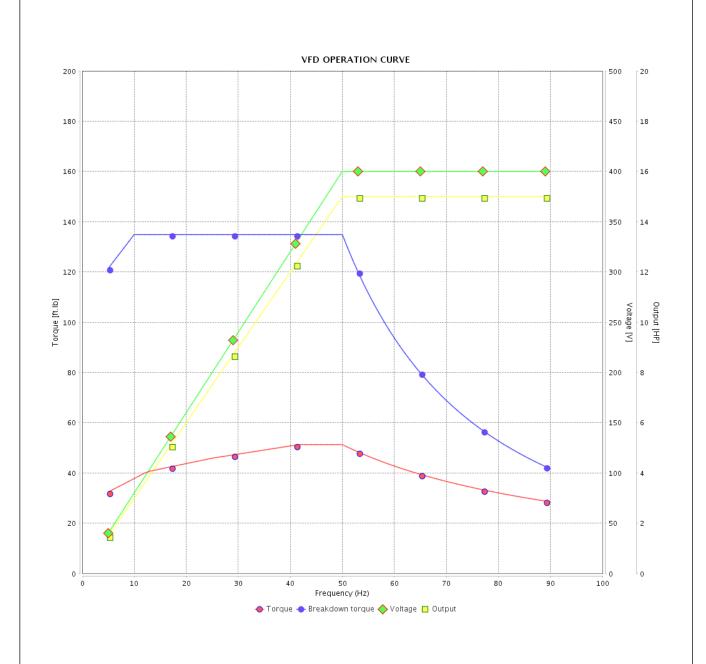
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Phase

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Performance	: 400 V 50 Hz 4P IE2	: 400 V 50 Hz 4P IE2					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 21.3 A : 6.4 : 54.0 ft.lb : 250 % : 250 % : 1460 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.31 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B			
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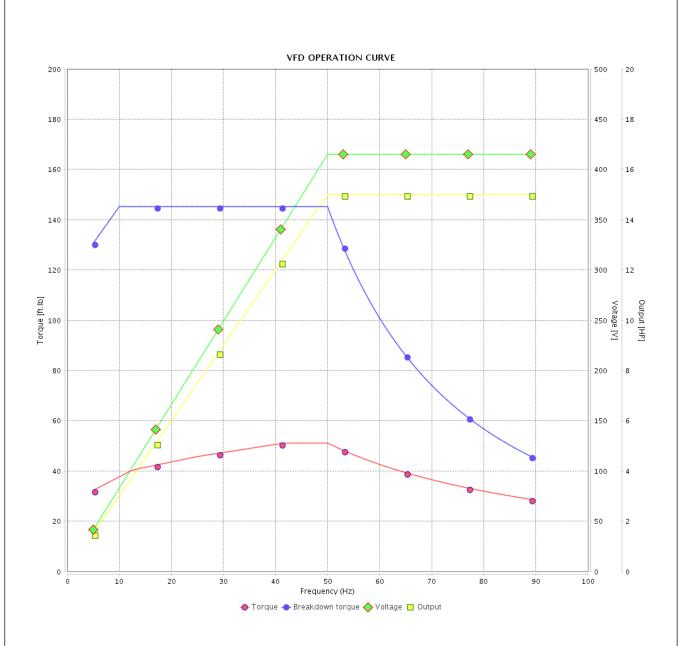
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Product code: 14407394

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Performance : 415 V 50 Hz 4P IE2 : 20.8 A Moment of inertia (J) : 2.31 sq.ft.lb Rated current **LRC** : 6.8 Duty cycle : Cont.(S1) : 53.8 ft.lb Insulation class : F Rated torque Locked rotor torque : 270 % Service factor : 1.00 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B

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