DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14303659

Catalog #: 00518XT3E184TC

Frame : 182/4TC 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 : 135 lb

Protection degree : IP55			Moment of ine	Moment of inertia (J) : 0.3695 sq.ft.lb		
Design		: B				
Output [HP]		5	5	5	5	
Poles		4	4	4	4	
Frequency [Hz]		60	50	50	50	
Rated voltage [V]		230/460	380	400	415	
Rated current [A]		13.1/6.57	7.83	7.54	7.45	
L. R. Amperes [A]		93.3/46.6	47.8	51.3	53.6	
LRC [A]		7.1x(Code J)	6.1x(Code G)	6.8x(Code J)	7.2x(Code J)	
No load current [A]]	6.20/3.10	3.10	3.40	3.80	
Rated speed [RPM]		1750	1435	1440	1445	
Slip [%]		2.78	4.33	4.00	3.67	
Rated torque [ft.lb]		15.0	18.3	18.2	18.2	
Locked rotor torqu	e [%]	229	210	229	250	
Breakdown torque	[%]	300	229	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		43s (cold) 24s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	34s (cold) 19s (hot)	
Noise level ²		56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	
	25%	85.3	85.7	85.8	85.8	
Efficiency (%)	50%	86.5	86.0	86.5	86.5	
Linciency (70)	75%	88.5	86.5	87.0	87.0	
	100%	89.5	86.5	87.5	87.5	
Power Factor	25%	0.36	0.43	0.39	0.35	
	50%	0.59	0.67	0.63	0.59	
I OWELL ACIOI	75%	0.71	0.77	0.74	0.72	
	100%	0.79	0.83	0.81	0.79	

Non drive end Foundation loads **Drive** end

6206 2RS Bearing type 6307 2RS Max. traction : 269 lb Sealing Oil Seal Lip Seal Max. compression : 404 lb

Lubrication interval Lubricant amount

Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 14.5A SF 1.15 SFA 16.7A

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

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

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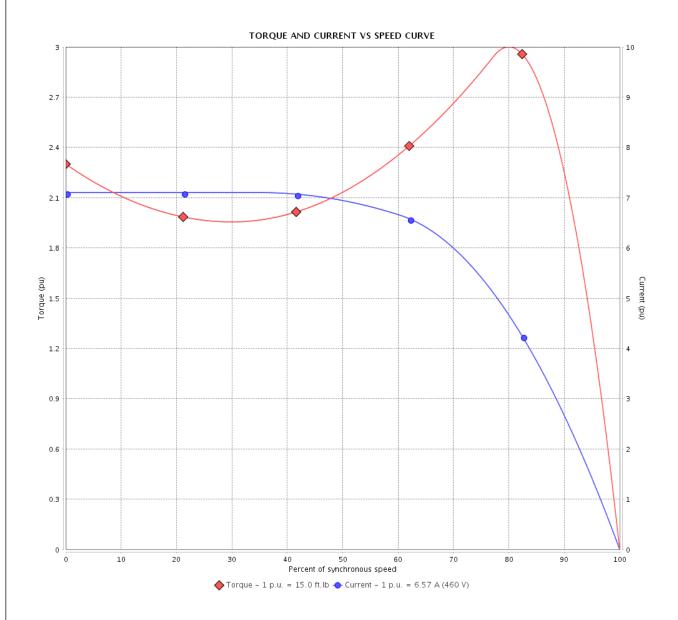


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14303659

Phase

Catalog #: 00518XT3E184TC



Performance	: 230/460 V 60 Hz 4P			
Rated current	: 13.1/6.57 A	Moment of inertia (J)	: 0.3695 sq.ft.lb	
LRC	: 7.1	Duty cycle	: Cont.(S1)	
Rated torque	: 15.0 ft.lb	Insulation class	:F	
Locked rotor torque	: 229 %	Service factor	: 1.15	
Breakdown torque	: 300 %	Temperature rise	: 80 K	
Rated speed	: 1750 rpm	Design	: B	

Locked rotor time : 43s (cold) 24s (hot)

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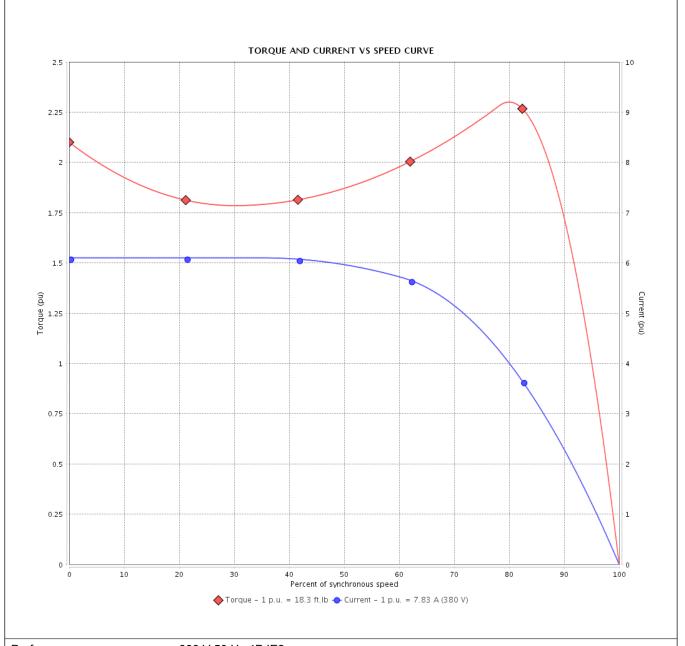
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14303659

Catalog #: 00518XT3E184TC



: F Insulation class Rated torque : 18.3 ft.lb Service factor Locked rotor torque : 210 % : 1.00 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1435 rpm Design : B

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

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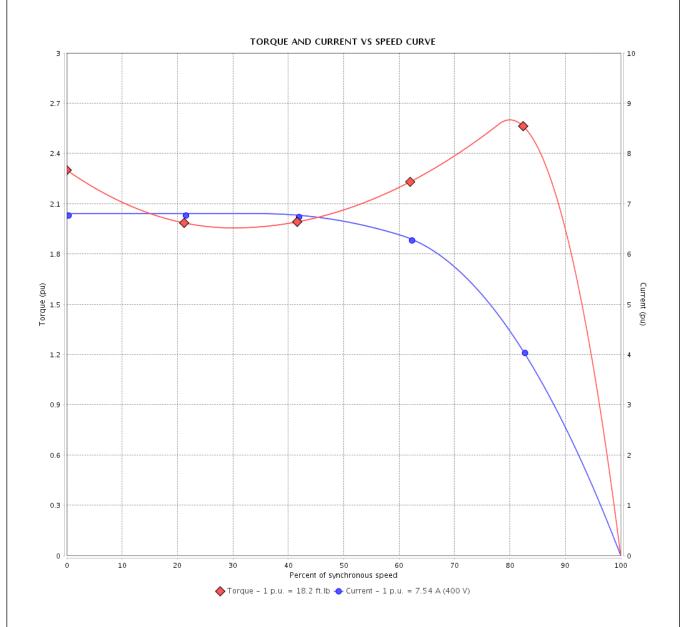


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14303659

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Catalog #: 00518XT3E184TC



Performance	: 400 V 50 Hz 4P IE2		
Rated current	: 7.54 A	Moment of inertia (J)	: 0.3695 sq.ft.lb
LRC	: 6.8	Duty cycle	: Cont.(S1)
Rated torque	: 18.2 ft.lb	Insulation class	:F ` ´
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1440 rpm	Design	: B
Locked rotor time	: 36s (cold) 20s (hot)		

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

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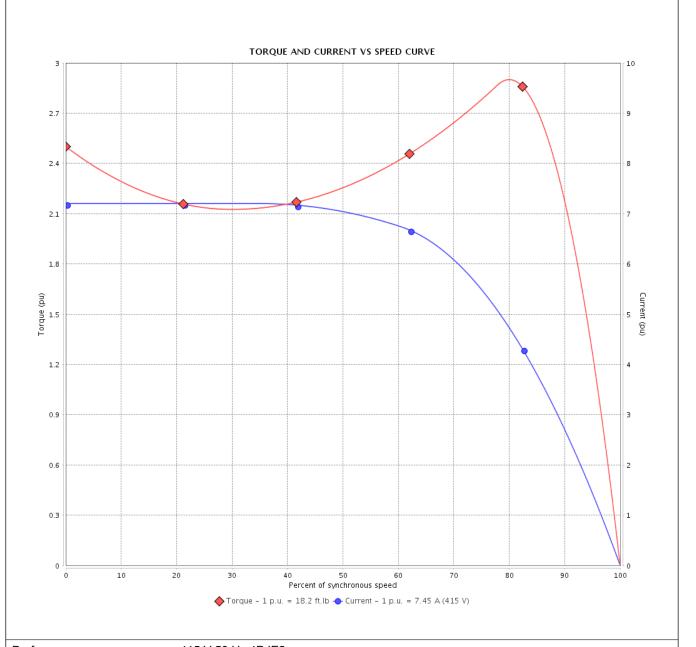


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14303659

Phase

Catalog #: 00518XT3E184TC



Performance : 415 V 50 Hz 4P IE2 Rated current : 7.45 A Moment of inertia (J) : 0.3695 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 18.2 ft.lb Service factor Locked rotor torque : 250 % : 1.00 Breakdown torque : 290 % Temperature rise : 80 K

Design

: B

Locked rotor time : 34s (cold) 19s (hot)

: 1445 rpm

Rated speed

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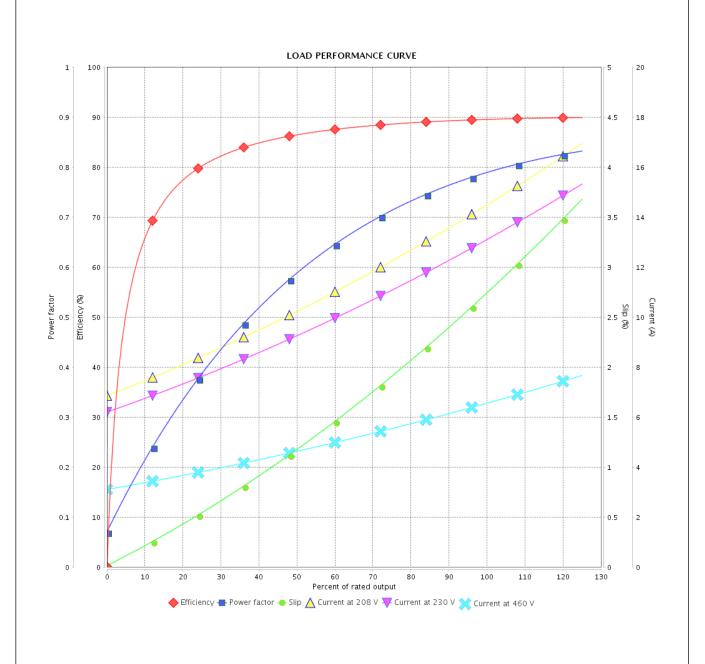


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14303659

Phase

Catalog #: 00518XT3E184TC



Performance	:	230/460 V 60 Hz 4P				
Rated current		13.1/6.57 A	Moment o	f inertia (J)	: 0.3695 sq.ft.lb	
LRC	:	7.1	Duty cycle)	: Cont.(S1)	
Rated torque	:	15.0 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	229 %	Service factor		: 1.15	
Breakdown torque	:	300 %			: 80 K : B	
Rated speed	:	1750 rpm				
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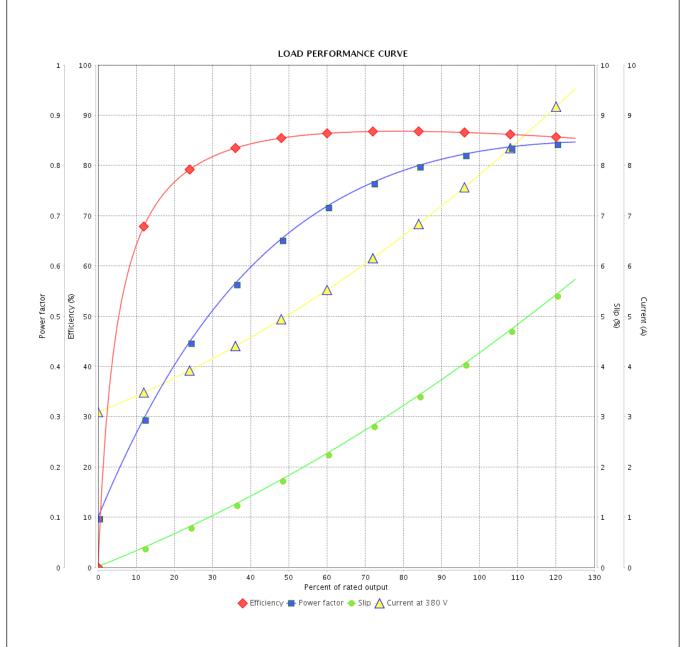
Customer :

Product line : NEMA Premium Efficiency Three- Produc

Phase

Product code: 14303659

Catalog #: 00518XT3E184TC



: 380 V 50 Hz 4P IE2 Performance : 7.83 A Rated current Moment of inertia (J) : 0.3695 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.1 : 18.3 ft.lb Insulation class : F Rated torque Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1435 rpm Design : B Rev. **Changes Summary** Performed Checked Date

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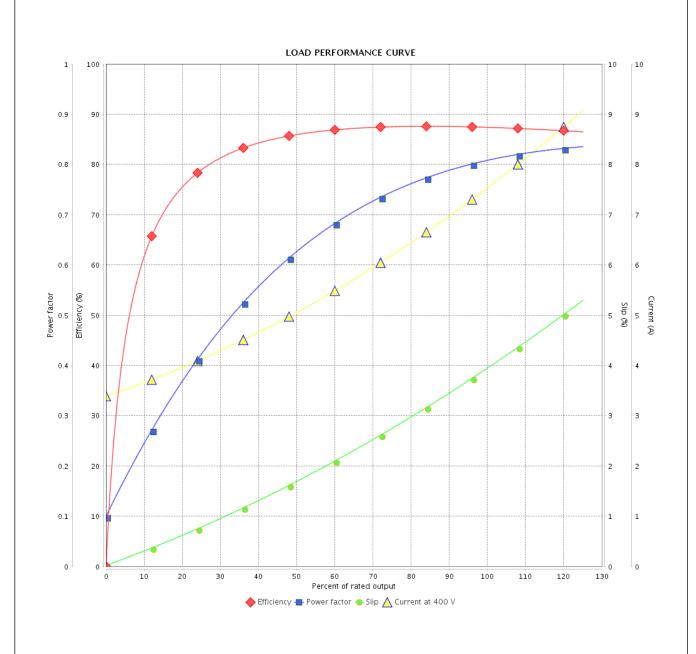
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Performance	: 400 V 50 Hz 4P IE2				
Rated current			` '	: 0.3695 sq.ft.lb)
LRC	: 6.8	Duty cycle)	: Cont.(S1)	
Rated torque	: 18.2 ft.lb	Insulation	class	: F	
Locked rotor torque	: 229 %	Service factor		: 1.00	
Breakdown torque	: 260 %	Temperature rise		: 80 K	
Rated speed	: 1440 rpm	Design		: B	
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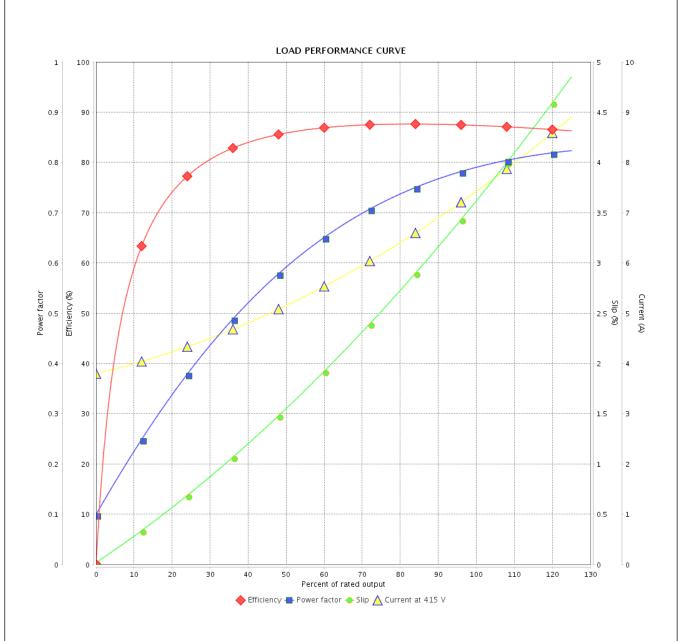
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14303659

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Performance	: 415 V 50 Hz 4P IE2			
Rated current	: 7.45 A	Moment of inertia (J)	: 0.3695 sq.ft	.lb
LRC	: 7.2	Duty cycle	: Cont.(S1)	
Rated torque	: 18.2 ft.lb	Insulation class	: F	
Locked rotor torque	: 250 %	Service factor	: 1.00	
Breakdown torque	: 290 %	Temperature rise	: 80 K	
Rated speed	: 1445 rpm	Design	: B	
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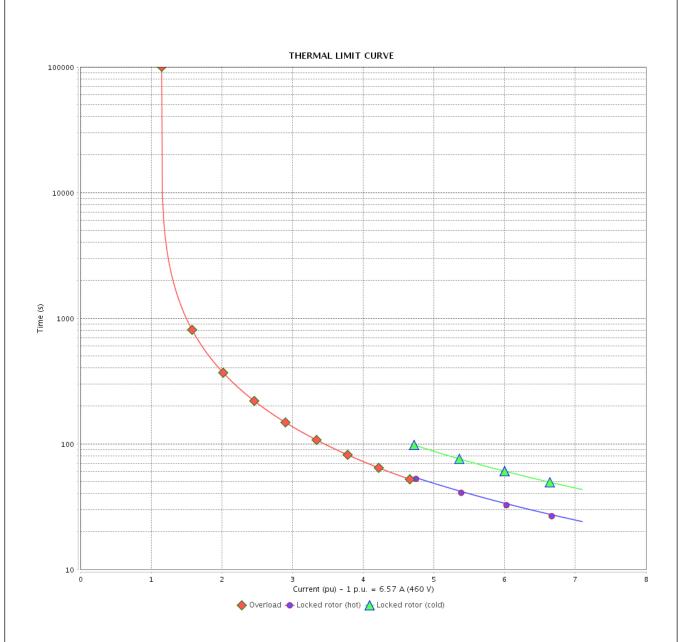


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Product line	: î Pl	NEMA Premium Efficiency ⁻ hase		Product code : Catalog # :	14303659 00518XT3E	184TC
Performance	: 23	30/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7. : 15 que : 22 ue : 30	3.1/6.57 A .1 5.0 ft.lb 29 % 00 % 750 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ictor	: 0.3695 sq.ft. : Cont.(S1) : F : 1.15 : 80 K : B	lb
Heating constant						
Cooling constant		Changes Summary		Performed	Checked	Date
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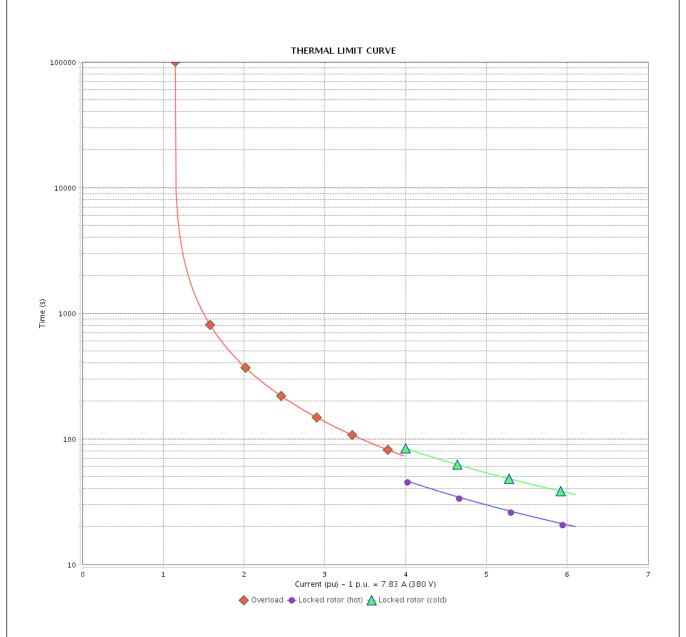


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Product line	: I P	NEMA Premium Efficiency hase		Product code : Catalog # :	14303659 00518XT3E	184TC
Performance	: 38	80 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: 7. : 6. : 18 que : 2'	.83 A	Moment of Duty cycle Insulation Service fa Temperate Design	class ictor	: 0.3695 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : B	lb
Heating constant						
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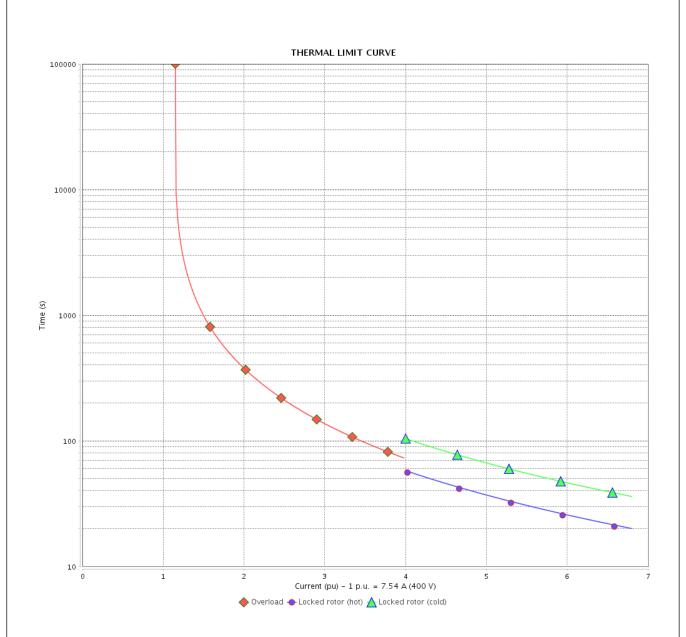


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Product line	: I Pi	NEMA Premium Efficiency hase		Product code : Catalog # :	14303659 00518XT3E	184TC
Performance		00 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 18 que : 22 ue : 26	54 A 8 8.2 ft.lb 29 % 60 % 440 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ictor	: 0.3695 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : B	lb
Heating constan						
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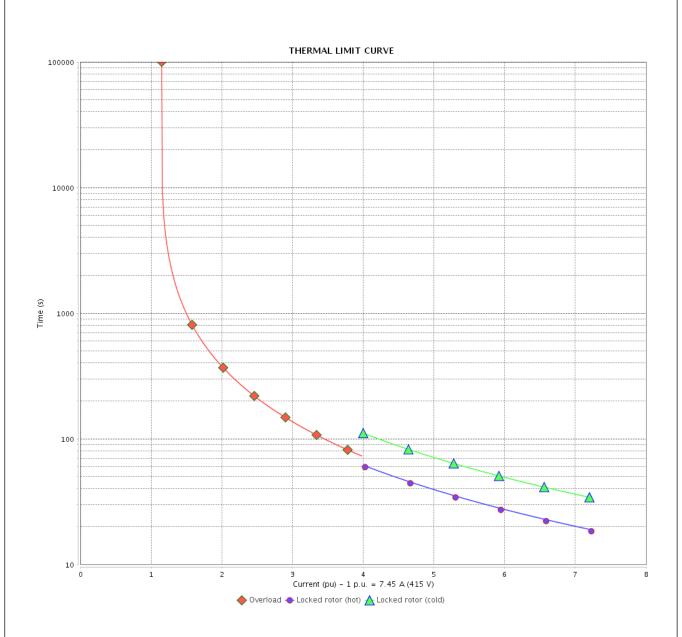


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Product line		NEMA Premium Efficiency	Three-	Product code :	14303659	
1 Toddot IIITo		Phase				10.170
				Catalog # :	00518XT3E1	1841C
Performance	· <u>/</u>	15 V 50 Hz 4P IE2			,	
Rated current		7.45 A	Moment o	of inertia (J)	: 0.3695 sq.ft.	lb
LRC	: 7	7.2	Duty cycle	Э	: Cont.(S1)	-
Rated torque Locked rotor tord		8.2 ft.lb 250 %	Insulation Service fa		: F : 1.00	
Breakdown torqı	ie : 2	90 %	Temperat		: 80 K	
Rated speed		445 rpm	Design		: B	
Heating constan	t					
Cooling constant						
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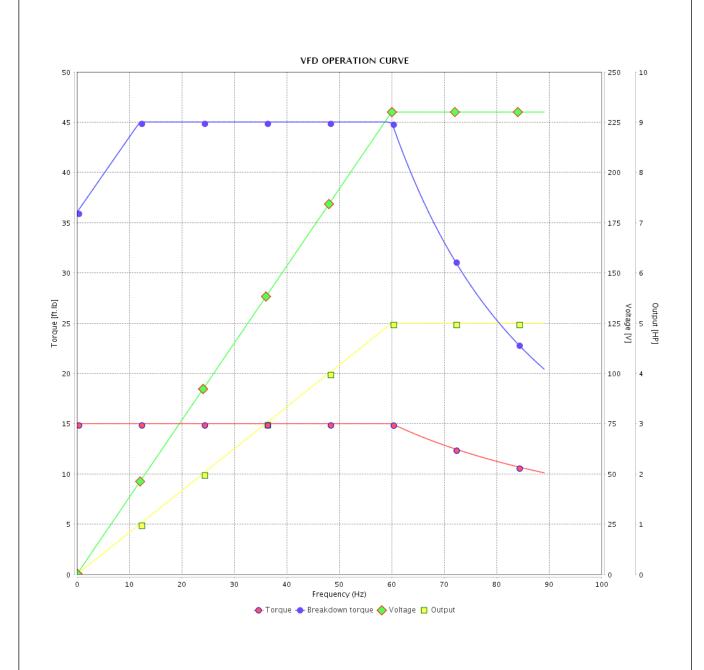


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14303659

Phase

Catalog #: 00518XT3E184TC



Performance	: 230/460 V 60 Hz 4P				
Rated current : 13.1/6.57 A Moment of inertia (J)		f inertia (J)	: 0.3695 sq.ft.	.lb	
LRC	: 7.1	Duty cycle		: Cont.(S1)	
Rated torque	: 15.0 ft.lb	Insulation	class	: F	
Locked rotor torque	: 229 %	Service fa	ctor	: 1.15	
Breakdown torque	: 300 %	Temperature rise		: 80 K	
Rated speed	: 1750 rpm	Design		: B	
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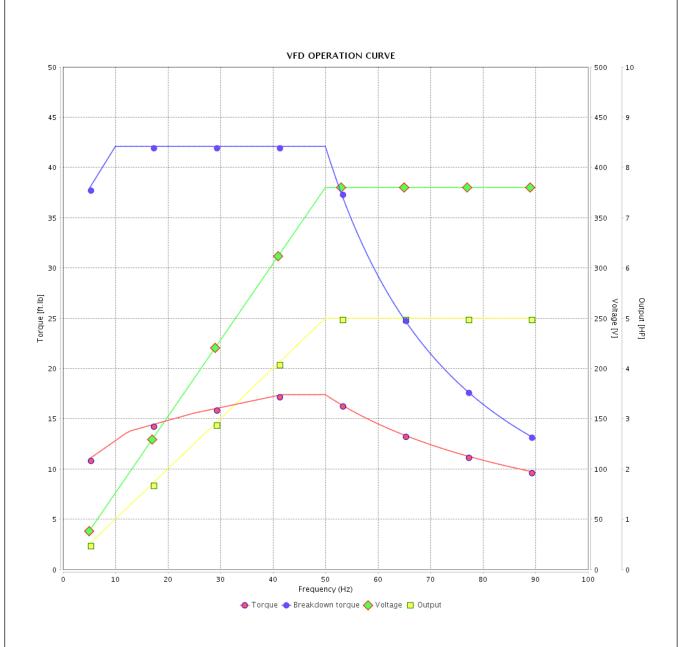
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Phase

Product code: 14303659

Catalog #: 00518XT3E184TC



Performance : 380 V 50 Hz 4P IE2 : 7.83 A Rated current Moment of inertia (J) : 0.3695 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.1 : 18.3 ft.lb Insulation class : F Rated torque Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1435 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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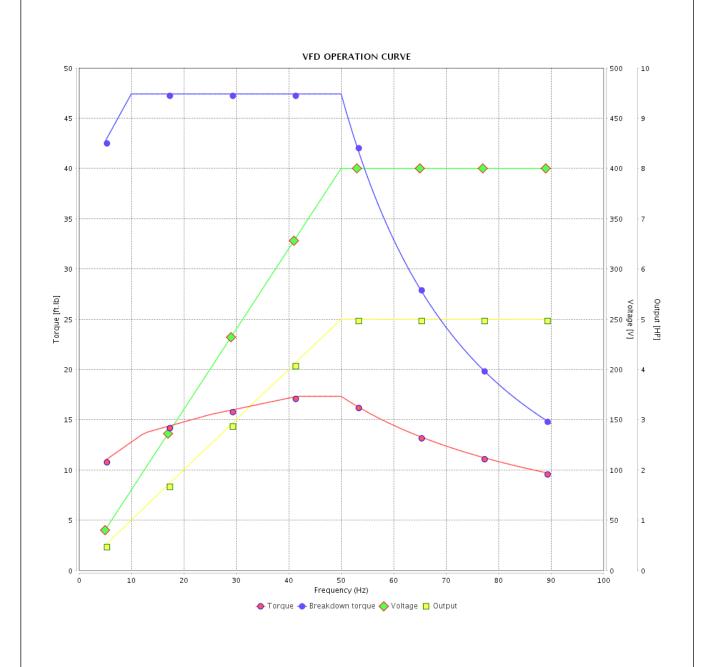


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14303659

Phase

Catalog #: 00518XT3E184TC



Performance		: 400 V 50 Hz 4P IE2				
Rated current	: 7	: 7.54 A Moment of		f inertia (J)	: 0.3695 sq.ft.lb	
LRC	: 6	.8 Duty cycle		: Cont.(S1)		
Rated torque	:1	.2 ft.lb Insulation class		: F		
Locked rotor torqu	e : 2	29 %	Service factor		: 1.00	
Breakdown torque	: 2	60 %	Temperature rise		: 80 K	
Rated speed	: 1	440 rpm	Design	Design		
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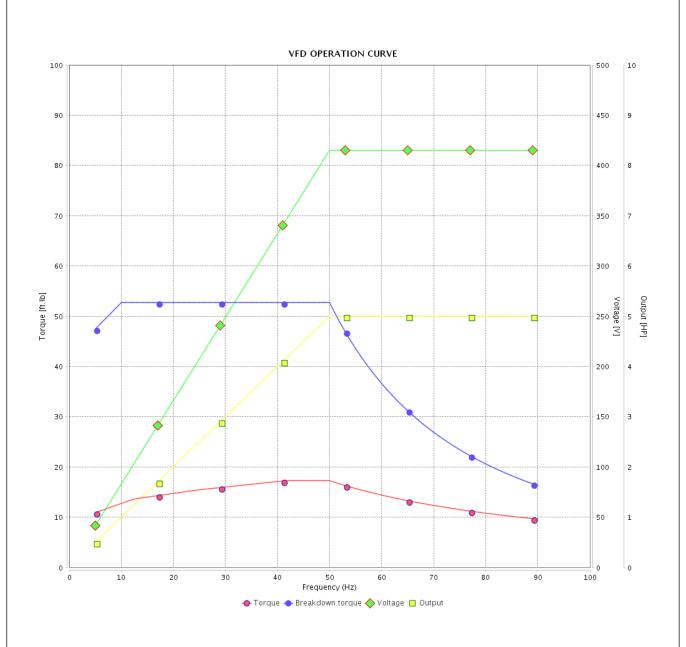
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14303659

Catalog #: 00518XT3E184TC



Performance : 415 V 50 Hz 4P IE2 : 7.45 A Rated current Moment of inertia (J) : 0.3695 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) : 18.2 ft.lb Insulation class : F Rated torque Locked rotor torque : 250 % Service factor : 1.00 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1445 rpm Design : B Rev. Performed Checked Date **Changes Summary**

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