DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14276569

Catalog #: 00518XT3ER184TC

Frame : 182/4TC Cooling method : IC411 - TEFC

Insulation class Mounting : W-6

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

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

: 1000 m.a.s.l. Approx. weight³ : 132 lb Altitude

: IP55 Protection degree Moment of inertia (J) : 0.3695 sq.ft.lb

1			11101110111		
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]			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 torque [%]		210	229	250
Breakdown torque	Breakdown torque [%]		229	270	290
Service factor		1.15	1.00		
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		30s (cold) 17s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (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
	25%	0.36	0.43	0.39	0.35
Power Factor	50%	0.59	0.67	0.63	0.59
1 OWELL ACTOR	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 : 271 lb Sealing Oil Seal Lip Seal Max. compression : 403 lb

Lubrication interval Lubricant amount Mobil Polyrex EM

Lubricant type 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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Customer	

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: 14276569 Catalog #: 00518XT3ER184TC TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 15.0 ft.lb ◆ Current - 1 p.u. = 6.57 A (460 V) : 230/460 V 60 Hz 4P Performance 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 : 250 % Service factor : 1.15 : 80 K Breakdown torque : 330 % Temperature rise Rated speed : B : 1750 rpm Design

Locked rotor time	e : 30	0s (cold) 17s (hot)				
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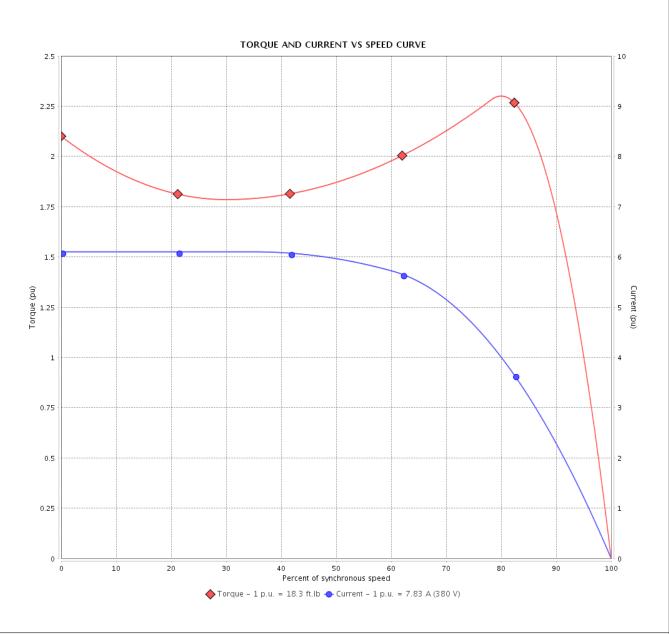
Customer :

Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

Product code: 14276569

Catalog #: 00518XT3ER184TC



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

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

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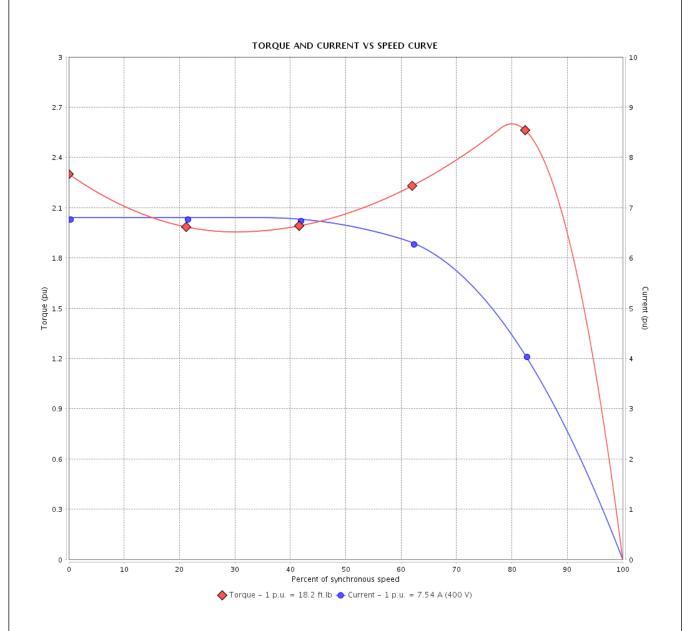


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14276569

Phase

Catalog #: 00518XT3ER184TC



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	: 270 %	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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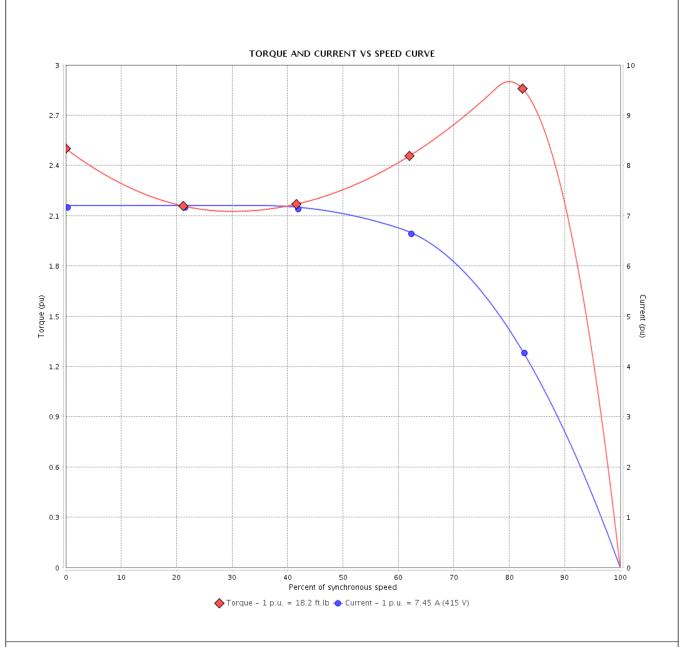
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14276569

Catalog #: 00518XT3ER184TC



Locked rotor torque: 250 %Service factor: 1.00Breakdown torque: 290 %Temperature rise: 80 KRated speed: 1445 rpmDesign: B

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

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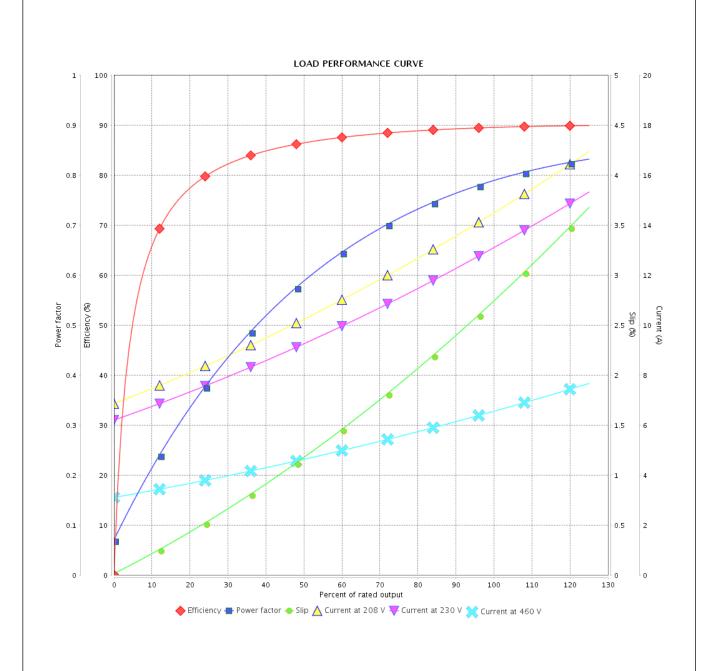
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 14276569

00518XT3ER184TC Catalog #:



Performance	: 2	230/460 V 60 Hz 4P				
Rated current :		13.1/6.57 A	Moment o	Moment of inertia (J)		.lb
LRC	: 7	7.1	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	15.0 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 2	250 %	Service fa	ctor	: 1.15	
Breakdown torque		330 %	Temperati	Temperature rise		
Rated speed	: 1	1750 rpm	Design		: B	
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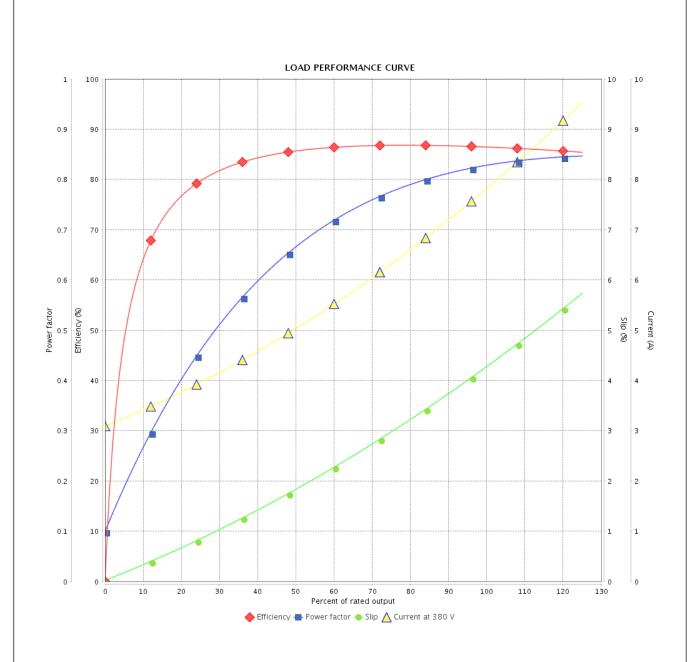
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 00518XT3ER184TC

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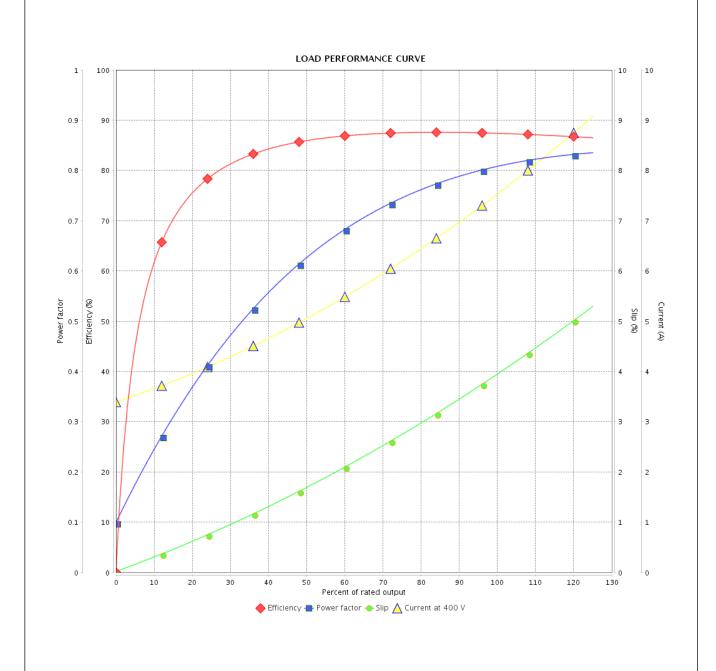


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14276569

Phase

Catalog #: 00518XT3ER184TC



Performance	:	400 V 50 Hz 4P IE2				
Rated current	:	7.54 A	Moment o	f inertia (J)	: 0.3695 sq.ft	.lb
LRC	:	6.8	Duty cycle	` '	: Cont.(S1)	
Rated torque	:	18.2 ft.lb	Insulation		: F ` ´	
Locked rotor tord	que :	229 %	Service fa	ctor	: 1.00	
Breakdown torqu	ie :	270 %	Temperati	ure rise	: 80 K	
Rated speed	:	1440 rpm	Design		: B	
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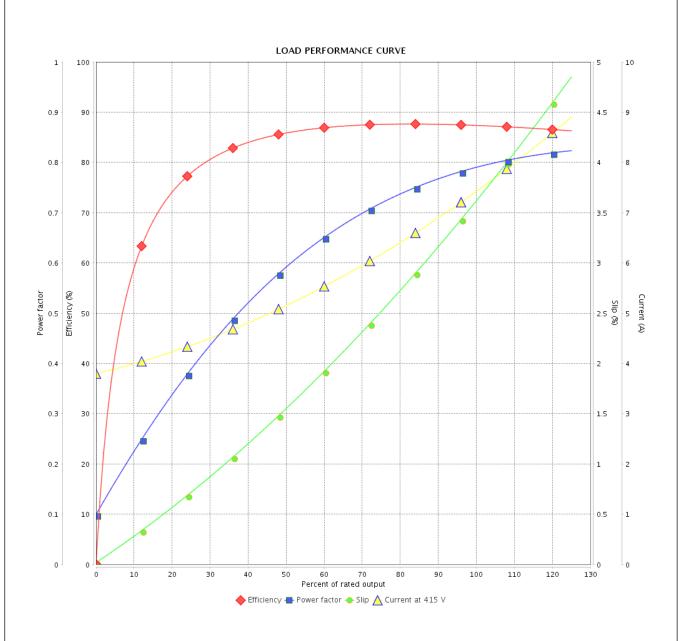
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Product line : NEMA Premium Efficiency Three- Prod

Phase

Product code: 14276569

Catalog #: 00518XT3ER184TC



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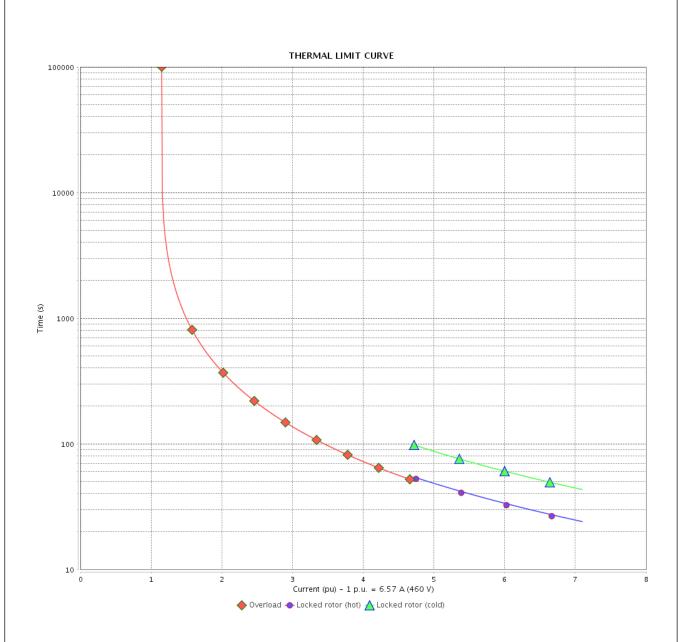


Customer	:					
Product line		NEMA Premium Efficiency ⁻ hase		Product code : Catalog # :	14276569 00518XT3E	R184TC
Performance Rated current LRC Rated torque Locked rotor tord	: 13 : 7. : 15	30/460 V 60 Hz 4P 3.1/6.57 A .1 5.0 ft.lb 50 %	Moment of Duty cycle Insulation Service fa	class	: 0.3695 sq.ft. : Cont.(S1) : F : 1.15	lb
Breakdown torqu Rated speed	ie : 33	50 % 30 % 750 rpm	Temperati Design		: 1.15 : 80 K : B	
Heating constant						
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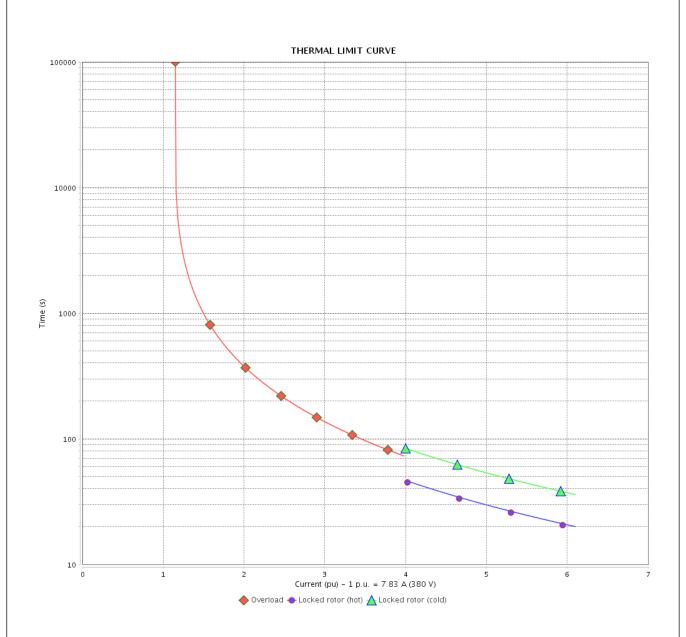


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Product line	:	NEMA Premium Efficiency T	hree-	Product code :	14276569	
	Р	Phase		Catalog # :	00518XT3EF	R184TC
				Catalog # .		
Performance		80 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 1 que : 2 ie : 2	8.3 ft.lb 10 %	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.3695 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : B	lb
Heating constant	t					
Cooling constant						
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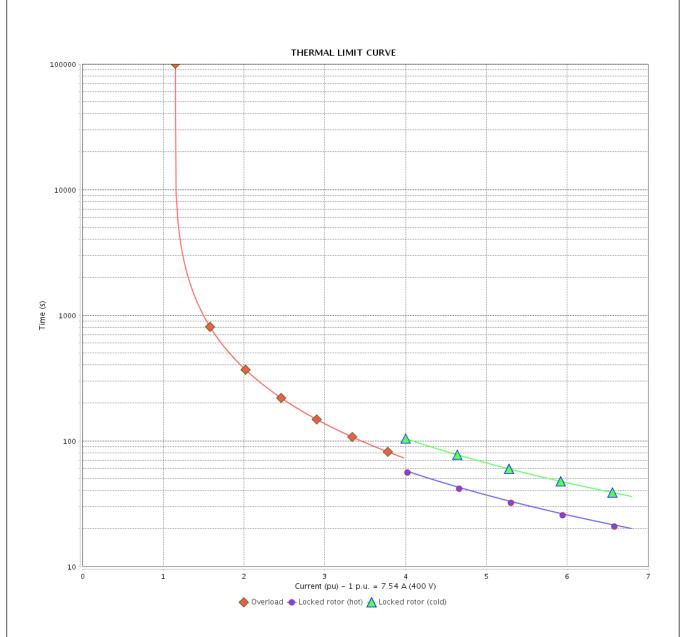


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Product line	: l Pi	NEMA Premium Efficiency hase		Product code : Catalog # :	14276569 00518XT3E	R184TC
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: 7. : 6. : 18 que : 22	00 V 50 Hz 4P IE2 54 A 8 8.2 ft.lb 29 % 70 % 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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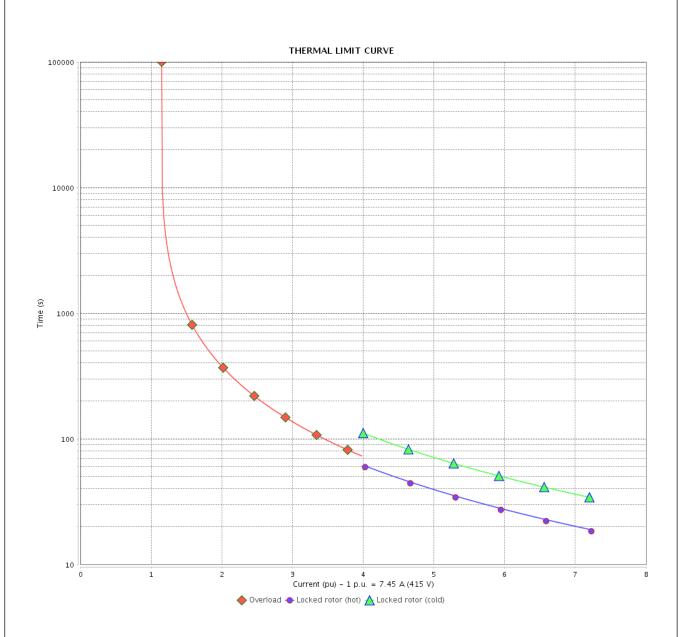


Customer	:					
Product line		NEMA Premium Efficiency [·] hase		Product code : Catalog # :	14276569 00518XT3E	R184TC
Performance Rated current		15 V 50 Hz 4P IE2 .45 A	Moment o	of inertia (J)	: 0.3695 sq.ft.	lh
LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: 7. : 18 que : 29 ue : 29		Duty cycle Insulation Service fa Temperate Design	e class ctor	: Cont.(S1) : F : 1.00 : 80 K : B	
Heating constan	t					
Cooling constant	t					
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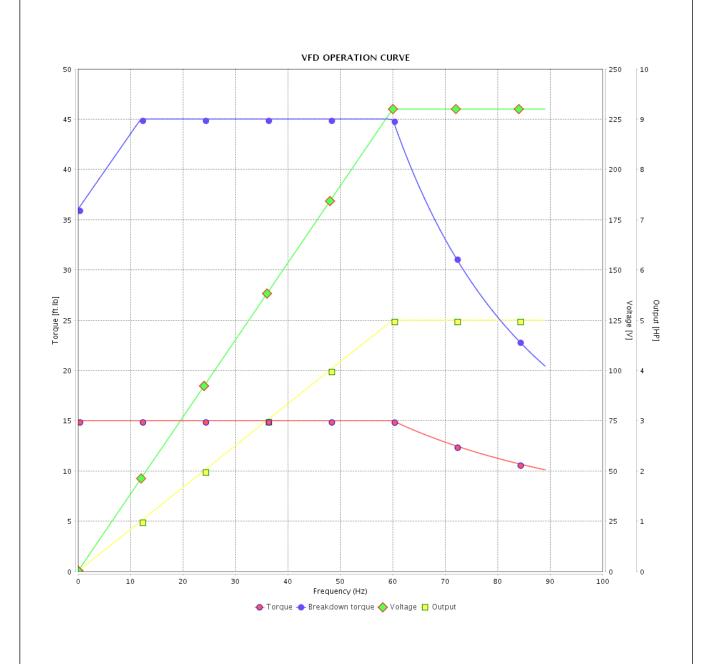


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14276569

Phase

Catalog #: 00518XT3ER184TC



Performance	: 230/460 V 60 Hz 4P				
Rated current LRC	: 13.1/6.57 A : 7.1	Moment of inertia (J)		: 0.3695 sq.ft.	lb
Rated torque	. 7.1 : 15.0 ft.lb	Duty cycle Insulation class	;	: Cont.(S1) : F	
Locked rotor torque	: 250 %	Service factor		: 1.15	
Breakdown torque	: 330 %	Temperature ris	se	: 80 K	
Rated speed	: 1750 rpm	Design		: B	
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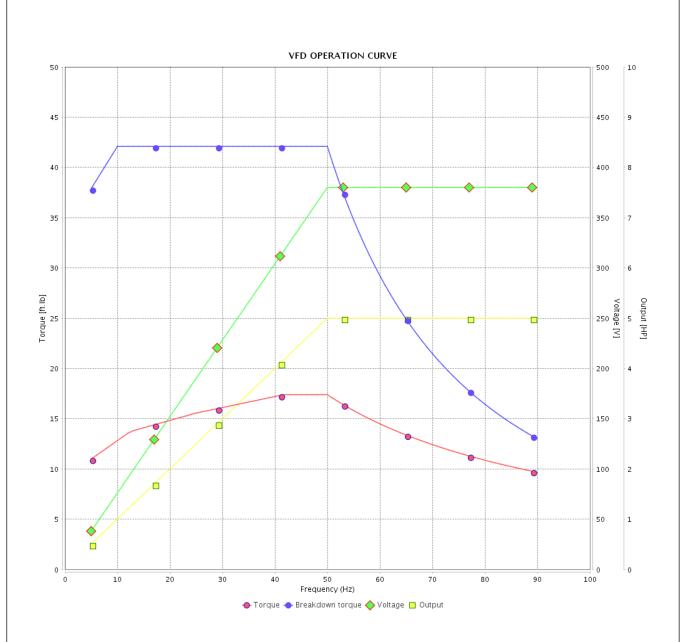
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14276569

Catalog #: 00518XT3ER184TC



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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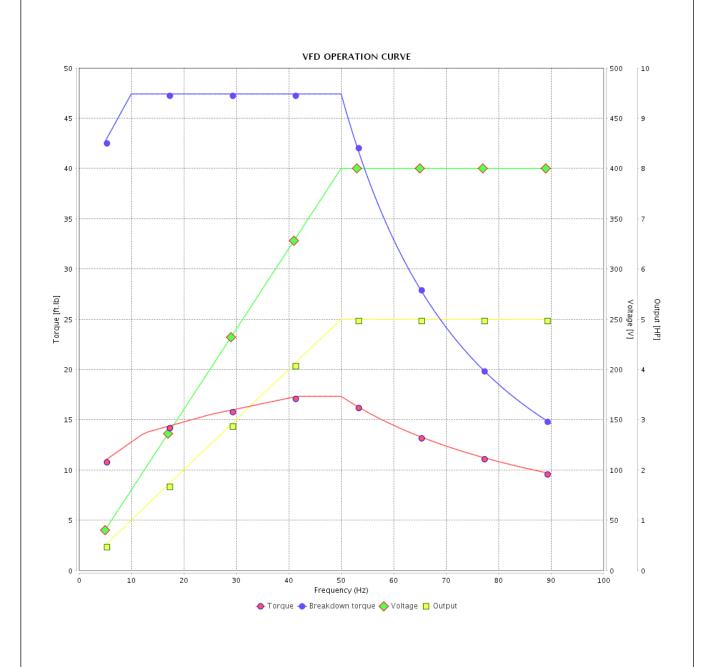
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00518XT3ER184TC

14276569



Performance :		: 400 V 50 Hz 4P IE2					
Rated current	: 7	7.54 A Moment of		inertia (J) : 0.3695 sq.ft.lb		.lb	
LRC	: 6	.8 Duty cycle		: Cont.(S1)			
Rated torque	: 1	8.2 ft.lb Insulation class		: F			
Locked rotor torque	e : 2	29 %	Service factor		: 1.00		
Breakdown torque	: 2	70 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 1	440 rpm	Design	Design			
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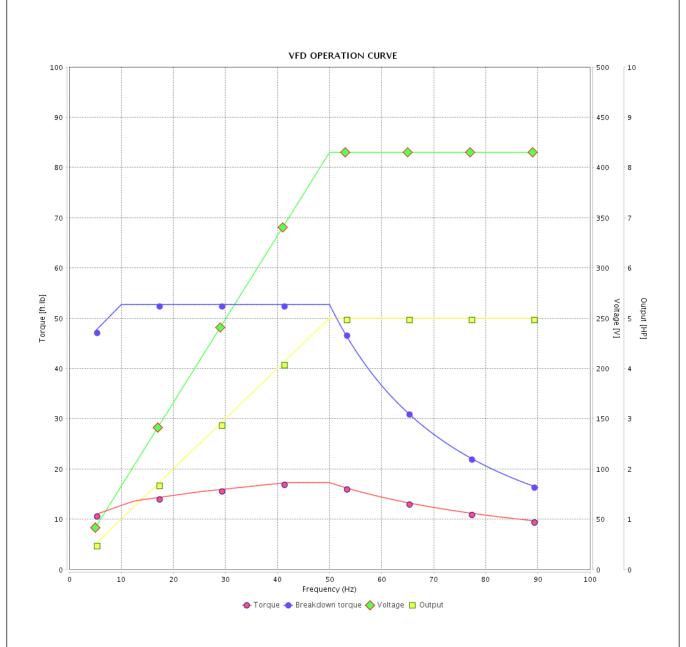
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Phase

Product code: 14276569

Catalog #: 00518XT3ER184TC



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** Performed by

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