DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14276270

Catalog #: 00536XT3E184T

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

Mounting Insulation class : 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. weigh	Approx. weight ³ : 131 lb			
Protection degre	е	: IP55	Moment of ine	ertia (J) : 0.18	89 sq.ft.lb		
Design		: B					
Output [HP]		5	5	5	5		
Poles		2	2	2	2		
Frequency [Hz]		60	50	50	50		
Rated voltage [V]		230/460	380	400	415		
Rated current [A]		12.2/6.10	7.30	6.94	6.84		
L. R. Amperes [A]		91.5/45.7	41.6	44.4	47.2		
LRC [A]		7.5x(Code J)	5.7x(Code F)	6.4x(Code G)	6.9x(Code H)		
No load current [A	-	4.40/2.20	2.15	2.40	2.60		
Rated speed [RPN	/ 1]	3490	2850	2865	2875		
Slip [%]		3.06	5.00	4.50	4.17		
Rated torque [ft.lb]		7.52	9.21	9.16	9.13		
Locked rotor torqu		250	200	229	260		
Breakdown torque	[%]	380	280	310	340		
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)	46s (cold) 26s (hot)	46s (cold) 26s (hot)	46s (cold) 26s (hot)		
Noise level ²		69.0 dB(A)	64.0 dB(A)	64.0 dB(A)	64.0 dB(A)		
	25%	84.3	86.9	86.1	86.1		
Efficiency (%)	50%	85.5	86.5	86.5	86.5		
Linciency (70)	75%	87.5	87.5	87.5	87.5		
	100%	88.5	86.5	87.5	87.5		
	25%	0.47	0.53	0.48	0.45		
Power Factor	50%	0.70	0.76	0.72	0.69		
1 OWCI I actor	75%	0.81	0.86	0.83	0.80		
	100%	0.86	0.89	0.88	0.86		

Drive end Non drive end Foundation loads

6206 2RS Bearing type 6307 2RS Max. traction : 133 lb Sealing Oil Seal Lip Seal Max. compression : 264 lb

Lubricant amount Lubricant type Mobil Polyrex EM

Notes

Lubrication interval

USABLE @208V 13.5A SF 1.15 SFA 15.5A

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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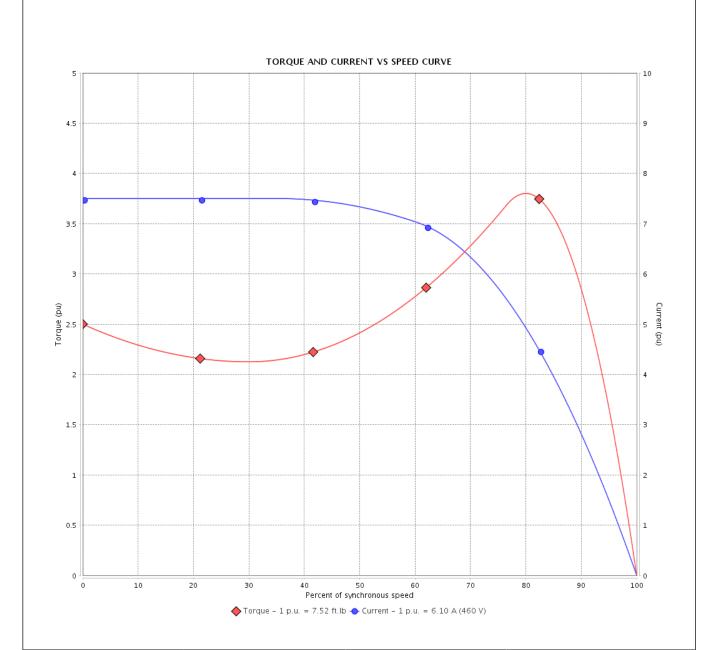


00536XT3E184T

Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14276270

Catalog #:



Performance : 230/460 V 60 Hz 2P Rated current : 12.2/6.10 A Moment of inertia (J) : 0.1889 sq.ft.lb **LRC** : 7.5 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 7.52 ft.lb : 250 % Locked rotor torque Service factor : 1.15 Breakdown torque : 380 % Temperature rise : 80 K Rated speed : 3490 rpm Design : B Locked rotor time : 46s (cold) 26s (hot)

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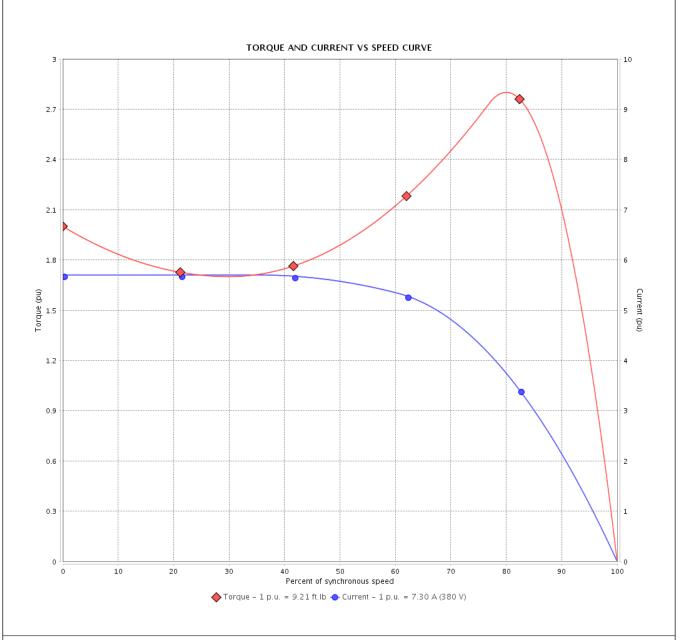
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 14276270

Catalog #: 00536XT3E184T



Performance : 380 V 50 Hz 2P IE2 Rated current : 7.30 A Moment of inertia (J) : 0.1889 sq.ft.lb **LRC** : 5.7 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 9.21 ft.lb Service factor Locked rotor torque : 200 % : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 2850 rpm Design : B

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

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 14276270 Catalog #: 00536XT3E184T TORQUE AND CURRENT VS SPEED CURVE

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3.5										
3		•		•						
									\	
2.5										!
2		•						1		
1.5										
1										
-										
0.5										- :
0	10	20	30	40	50	60	70	80	90	100

Performance : 400 V 50 Hz 2P IE2 Rated current : 6.94 A Moment of inertia (J) : 0.1889 sq.ft.lb LRC : 6.4 Duty cycle : Cont.(S1) Rated torque : 9.16 ft.lb Insulation class : F : 229 % Service factor : 1.00 Locked rotor torque : 310 % : 80 K Breakdown torque Temperature rise : B Rated speed : 2865 rpm Design

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

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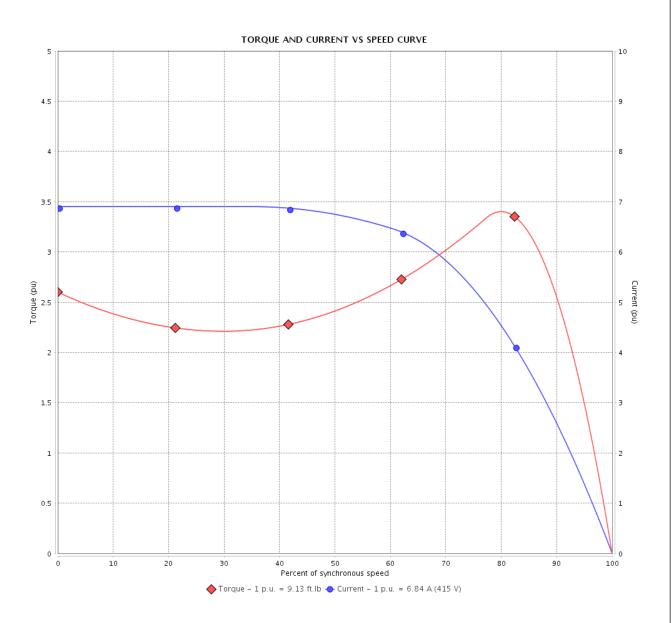
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14276270

Catalog #: 00536XT3E184T



Performance	: 415 V 50 Hz 2P IE2			
Rated current	: 6.84 A	Moment of inertia (J)	: 0.1889 sq.ft.lb	
LRC	: 6.9	Duty cycle	: Cont.(S1)	
Rated torque	: 9.13 ft.lb	Insulation class	: F	
Locked rotor torque	: 260 %	Service factor	: 1.00	
Breakdown torque	: 340 %	Temperature rise	: 80 K	
Rated speed	: 2875 rpm	Design	: B	
Locked rotor time	: 46s (cold) 26s (hot)	I		

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

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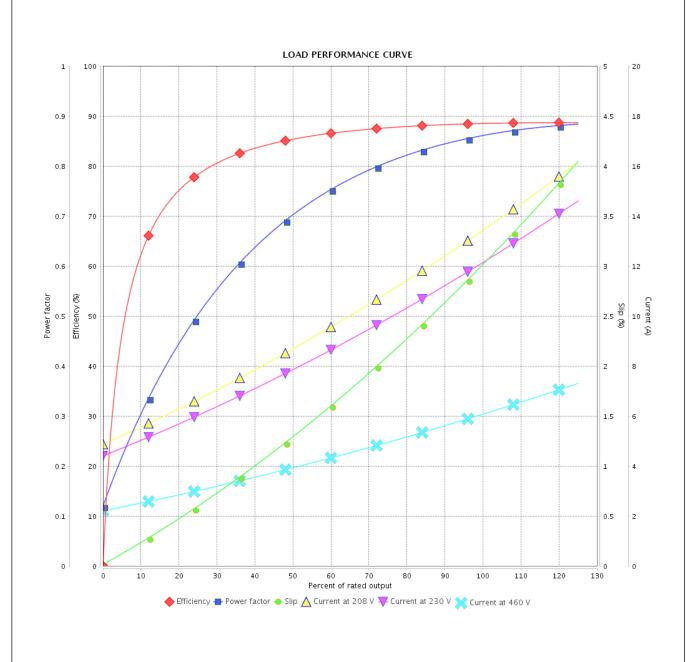


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14276270

Phase

Catalog #: 00536XT3E184T



Performance	:	230/460 V 60 Hz 2P				
Rated current	:	12.2/6.10 A	Moment o	f inertia (J)	: 0.1889 sq.ft.lb	
LRC	:	7.5	Duty cycle)	: Cont.(S1)	
Rated torque	:	7.52 ft.lb	Insulation	class	: F	
Locked rotor torque	e ::	250 %	Service fa	ctor	: 1.15	
Breakdown torque	:	380 %	Temperature rise		: 80 K	
Rated speed	:	3490 rpm	Design		: B	
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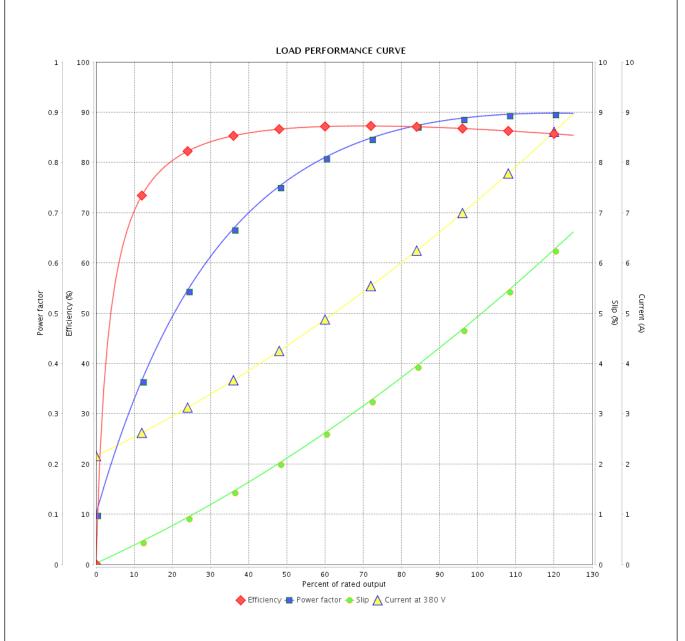
Customer :

Product line : NEMA Premium Efficiency Three- Produc

Phase

Product code: 14276270

Catalog #: 00536XT3E184T



Performance	: 380 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 7.30 A : 5.7 : 9.21 ft.lb : 200 % : 280 %	Moment of inertia (J) : 0.1889 sq.f Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K		lb	
Rated speed	: 2850 rpm	Design		: B	
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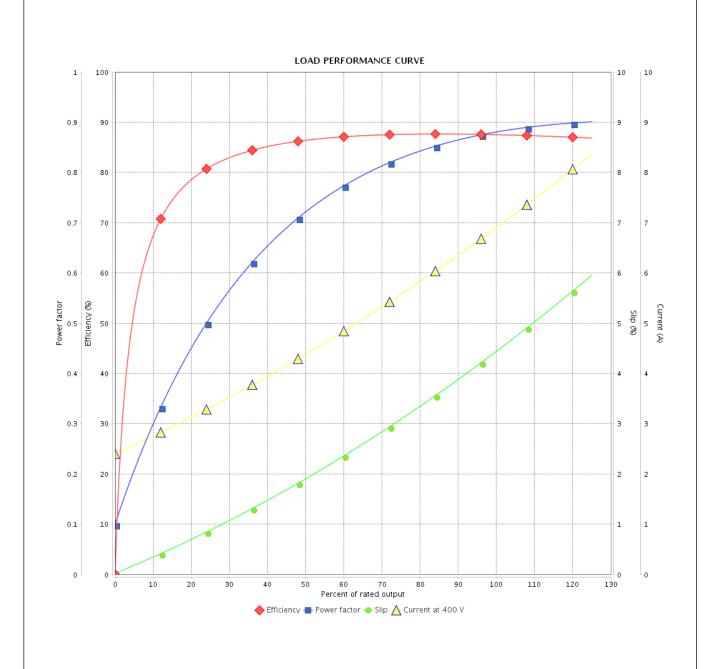
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 14276270

Catalog #: 00536XT3E184T



Performance	: 4	00 V 50 Hz 2P IE2					
Rated current	: 6	: 6.94 A Moment of inertia (J)		f inertia (J)	: 0.1889 sq.ft	.lb	
LRC	: 6	5.4	Duty cycle)	: Cont.(S1)		
Rated torque	: 9).16 ft.lb	Insulation	class	: F		
Locked rotor tord	que : 2	29 %	Service fa	ctor	: 1.00		
Breakdown torque		310 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 2	.865 rpm	Design		: B		
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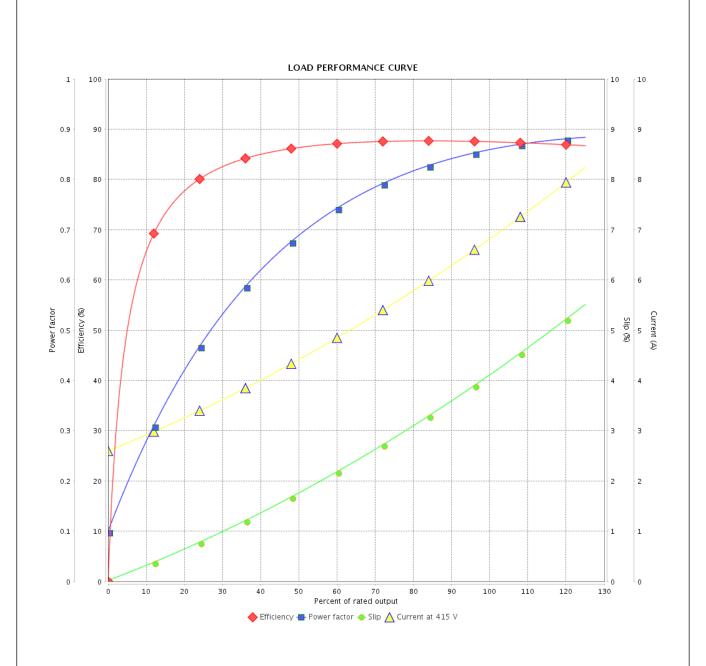
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00536XT3E184T

14276270



Performance : 415 V 50 Hz 2P IE2 : 6.84 A Moment of inertia (J) : 0.1889 sq.ft.lb Rated current **LRC** : Cont.(S1) : 6.9 Duty cycle : 9.13 ft.lb Insulation class : F Rated torque Locked rotor torque : 260 % Service factor : 1.00 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 2875 rpm Design : B

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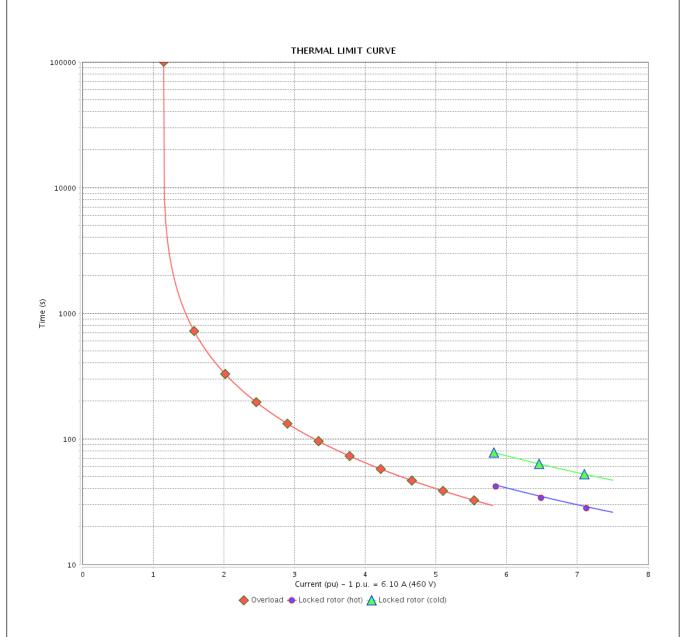


Customer	:					
Product line		NEMA Premium Efficiency ⁻ hase		Product code : Catalog # :	14276270 00536XT3E	184T
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: 12 : 7. : 7. : 7. que : 25 ue : 38	30/460 V 60 Hz 2P 2.2/6.10 A .5 .52 ft.lb 50 % 80 % 490 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ictor	: 0.1889 sq.ft. : Cont.(S1) : F : 1.15 : 80 K : B	lb
Heating constant	t					
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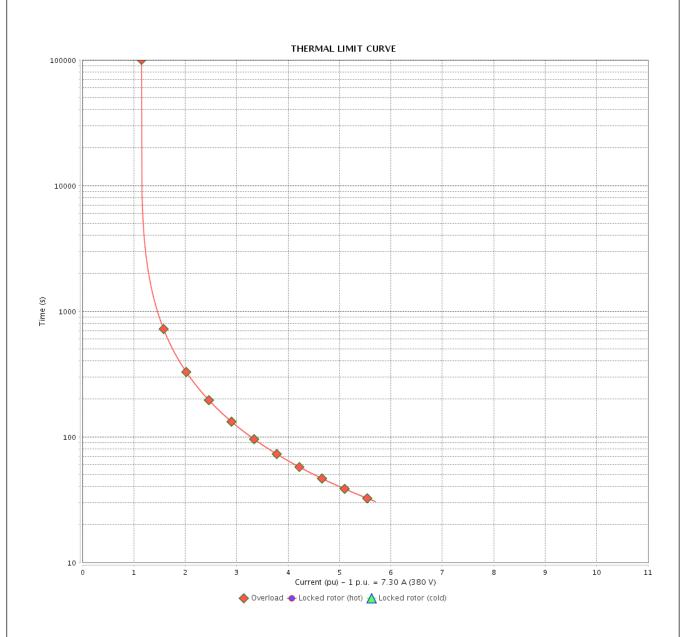


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Product line		NEMA Premium Efficiency	Three-	Product code :	14276270	
1 Toddot IIIIC	F	Phase				_
				Catalog # :	00536XT3E1	84T
Performance		80 V 50 Hz 2P IE2	1			
Rated current LRC	: 7 : 5	.30 A .7	Moment of Duty cycle	of inertia (J)	: 0.1889 sq.ft.ll : Cont.(S1)	b
Rated torque	: 9	.21 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu	que : 2	00 % 80 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		850 rpm	Design	uie lise	: B	
Heating constant						
Cooling constant						
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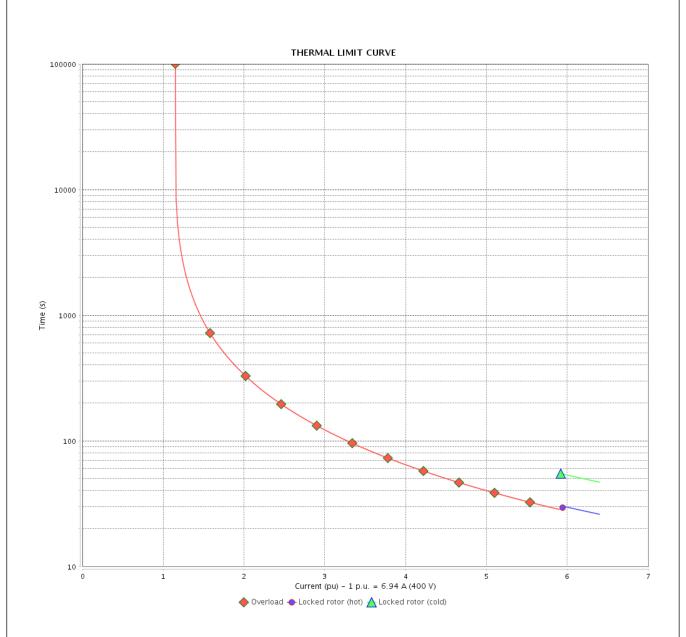


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Product line	:	NEMA Premium Efficiency	Three-	Product code :	14276270	
	F	Phase		Catalog # :	00536XT3E1	184T
Performance Rated current LRC Rated torque Locked rotor torque Rated speed	: 6 : 6 : 9 que : 2 ue : 3 : 2	00 V 50 Hz 2P IE2 .94 A .4 .16 ft.lb 29 % 10 % 865 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 0.1889 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : B	lb
Heating constant Cooling constant						
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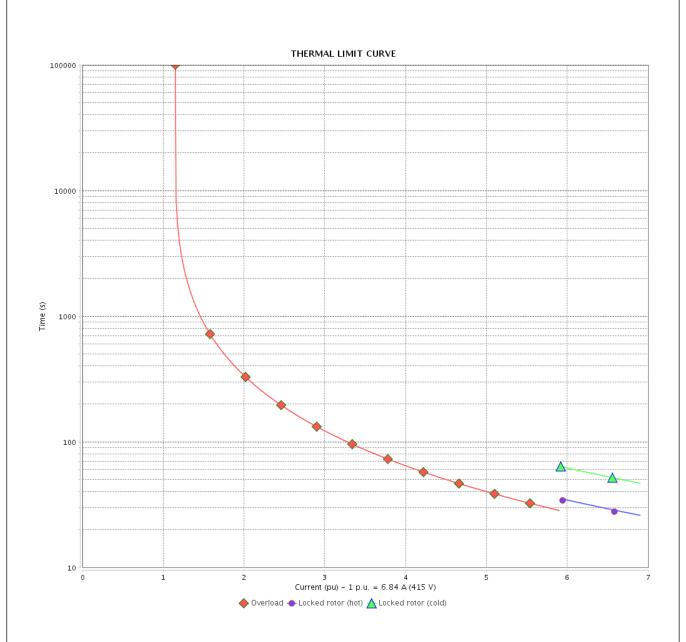


Product line	Customer	:					
Rated current LRC : 6.9 Rated torque : 9.13 ft.lb Locked rotor torque Breakdown torque Rated speed : 2875 rpm Changes Summary Performed by Checked by Moment of inertia (J) : 0.1889 sq.ft.lb : Cont.(S1) : Cont.(S1) : Cont.(S1) : Temperature rise : 80 K Design : B Performed Checked Page Revision	Product line	: I P	NEMA Premium Efficiency hase				184T
Rated current LRC : 6.9 Rated torque : 9.13 ft.lb Locked rotor torque Breakdown torque Rated speed : 2875 rpm Changes Summary Performed by Checked by Moment of inertia (J) : 0.1889 sq.ft.lb : Cont.(S1) : Cont.(S1) : Cont.(S1) : Temperature rise : 80 K Design : B Performed Checked Page Revision							
Rated current LRC : 6.9 Rated torque : 9.13 ft.lb Locked rotor torque Breakdown torque Rated speed : 2875 rpm Changes Summary Performed by Checked by Moment of inertia (J) : 0.1889 sq.ft.lb : Cont.(S1) : Cont.(S1) : Cont.(S1) : Rated sq.ft.lb : Cont.(S1) : F Service factor : 1.00 : 80 K : B Heating constant Checked Performed Checked Page Revision							
Rated current LRC : 6.9 Rated torque : 9.13 ft.lb Locked rotor torque Breakdown torque Rated speed : 2875 rpm Changes Summary Performed by Checked by Moment of inertia (J) : 0.1889 sq.ft.lb : Cont.(S1) : Cont.(S1) : Cont.(S1) : Temperature rise : 80 K Design : B Performed Checked Page Revision							
LRC : 6.9 Duty cycle : Cont.(S1) Rated torque : 9.13 ft.lb Insulation class : F Locked rotor torque : 260 % Service factor : 1.00 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 2875 rpm Design : B Heating constant Cooling constant Rev. Changes Summary Performed Checked Date Performed by Checked by Page Revision							
Cooling constant Rev. Changes Summary Performed Checked Date Performed by Page Revision	LRC Rated torque Locked rotor tord Breakdown torqu	: 6. : 9. que : 26 ue : 34	9 13 ft.lb 60 % 40 %	Duty cycle Insulation Service fa Temperat	e class actor	: Cont.(S1) : F : 1.00 : 80 K	lb
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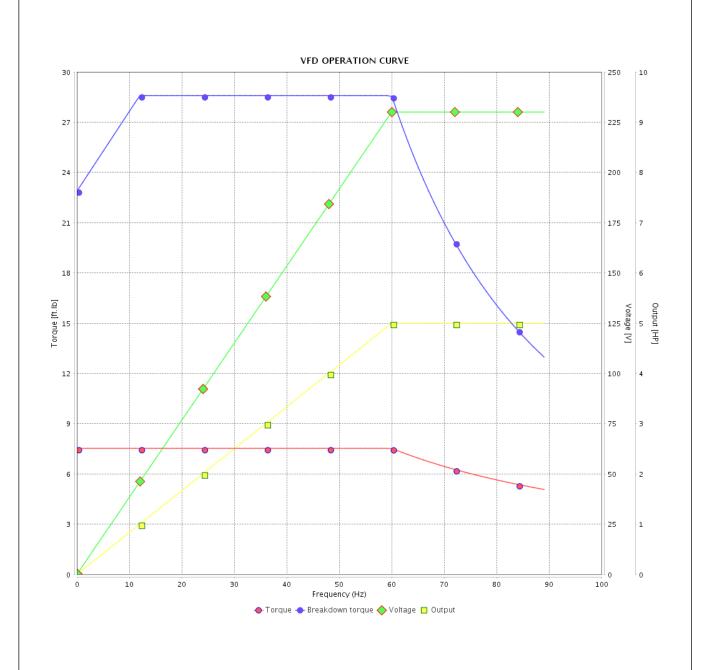
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00536XT3E184T

14276270



Performance	:	230/460 V 60 Hz 2P				
Rated current	:	12.2/6.10 A	Moment o	f inertia (J)	: 0.1889 sq.ft	.lb
LRC	:	7.5	Duty cycle)	: Cont.(S1)	
Rated torque	:	7.52 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	250 %	Service fa	ctor	: 1.15	
Breakdown torque	:	380 %	Temperati	Temperature rise : 80 K		
Rated speed	:	3490 rpm	Design		: B	
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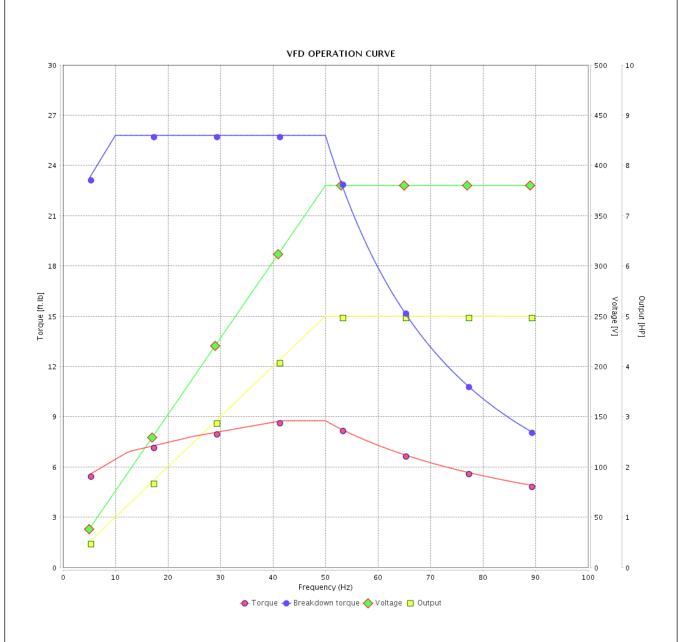
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14276270

Catalog #: 00536XT3E184T



Performance : 380 V 50 Hz 2P IE2 : 7.30 A Rated current Moment of inertia (J) : 0.1889 sq.ft.lb **LRC** : 5.7 Duty cycle : Cont.(S1) Insulation class Rated torque : 9.21 ft.lb : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 2850 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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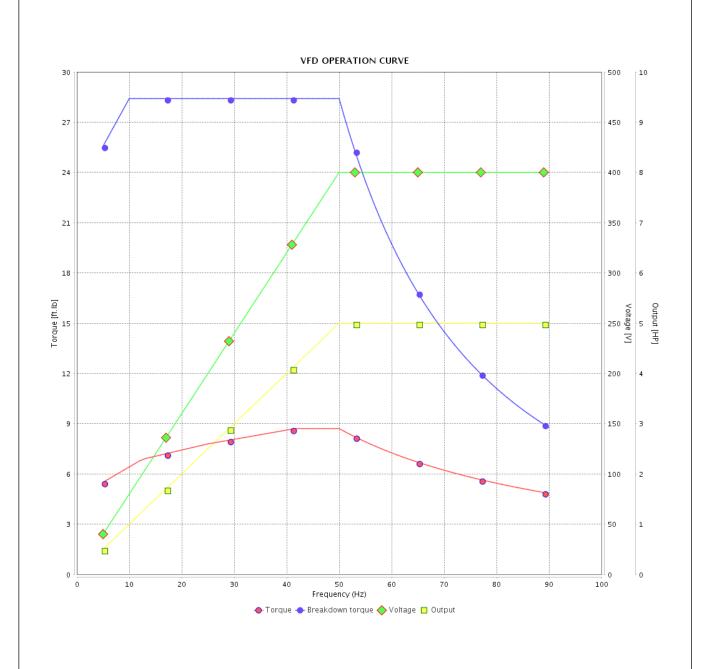
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14276270

Catalog #: 00536XT3E184T



Performance	: 4	: 400 V 50 Hz 2P IE2					
Rated current	: 6	: 6.94 A		Moment of inertia (J)		: 0.1889 sq.ft.lb	
LRC	: 6	5.4	Duty cycle	;	: Cont.(S1)		
Rated torque	: 9	0.16 ft.lb Insulation clas		class	:F		
Locked rotor torc	que : 2	29 %	Service factor		: 1.00		
Breakdown torqu	ie : 3	310 %	Temperature rise		: 80 K		
Rated speed	: 2	.865 rpm	5 rpm Design		: B		
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Customer :

Date

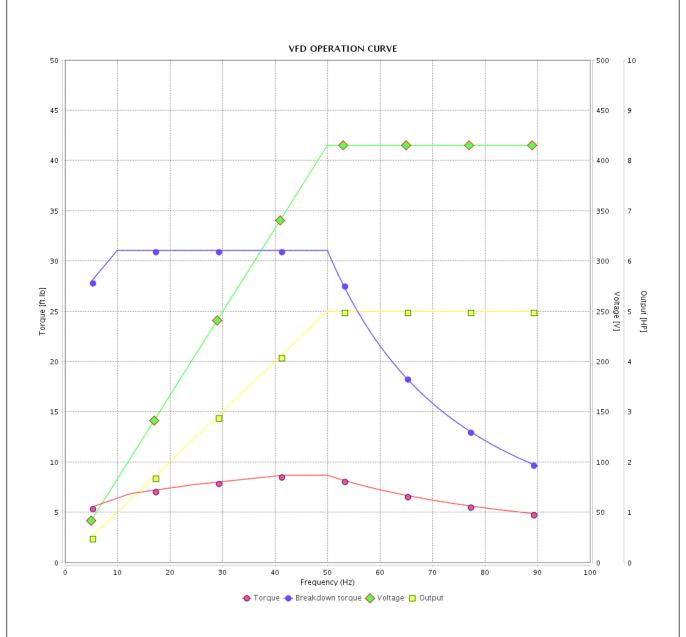
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14276270

Catalog #: 00536XT3E184T



Performance : 415 V 50 Hz 2P IE2 Rated current : 6.84 A Moment of inertia (J) : 0.1889 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.9 Insulation class : 9.13 ft.lb : F Rated torque Locked rotor torque : 260 % Service factor : 1.00 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 2875 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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