## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14284314

Phase

Catalog #: 00536XT3E184TC

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

Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW)

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

Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 134 lb

Ailitude		. 1000 III.a.s.i.	Approx. weigi		
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	<b>/</b> 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	e [%]	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)			
Noise level <sup>2</sup>		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

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

0.89

Bearing type : 6307 2RS 6206 2RS Max. traction : 131 lb Sealing : Oil Seal Lip Seal Max. compression : 265 lb

0.86

Lubrication interval : - - Lubricant amount : - Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 13.5A SF 1.15 SFA 15.5A

100%

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.

0.88

0.86

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# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer		

#### Thermal protection

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

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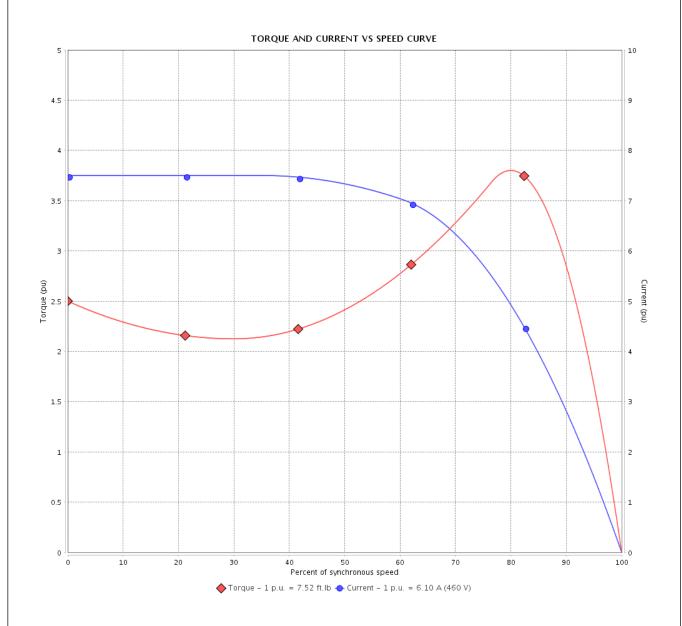
## Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14284314

Catalog #: 00536XT3E184TC



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)
Rated torque	: 7.52 ft.lb	Insulation class	:F
Locked rotor torque	: 250 %	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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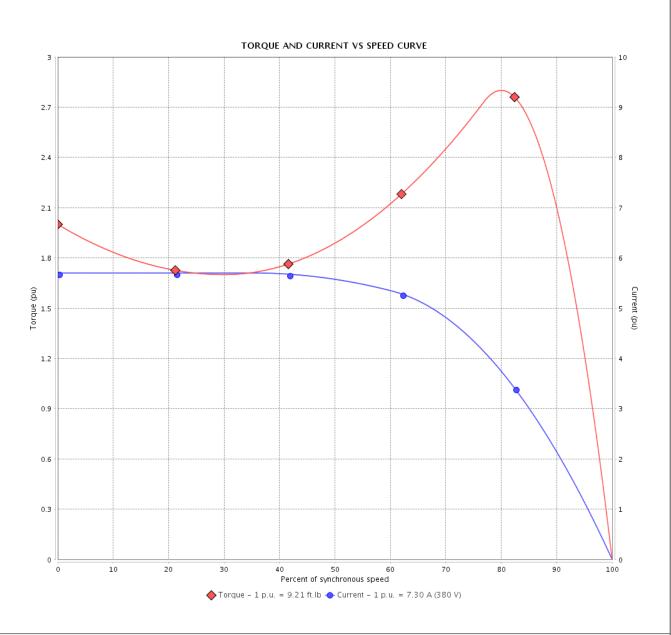
Customer :

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

Phase

Product code: 14284314

Catalog #: 00536XT3E184TC



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

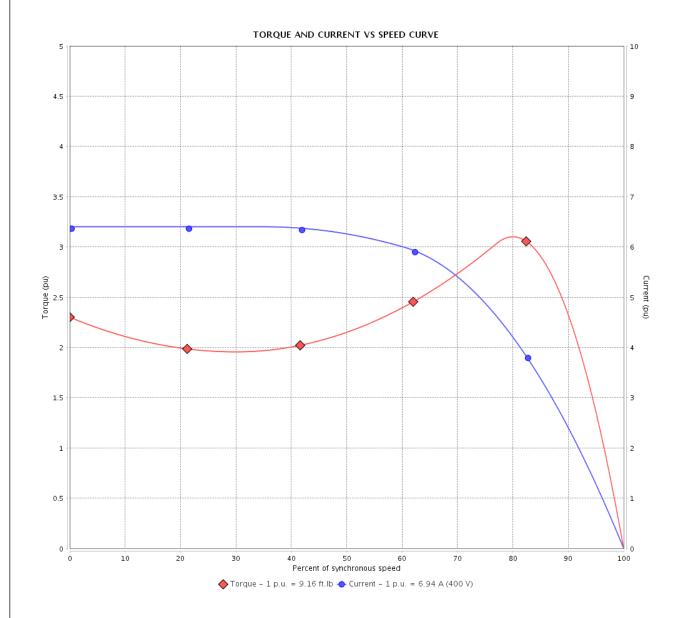
Locked rotor time : 46s (cold) 26s (hot)

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### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 14284314 Catalog #: 00536XT3E184TC



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) Insulation class : F Rated torque : 9.16 ft.lb Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 310 % Temperature rise : 80 K : B Rated speed : 2865 rpm Design Locked rotor time : 46s (cold) 26s (hot)

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### Three Phase Induction Motor - Squirrel Cage



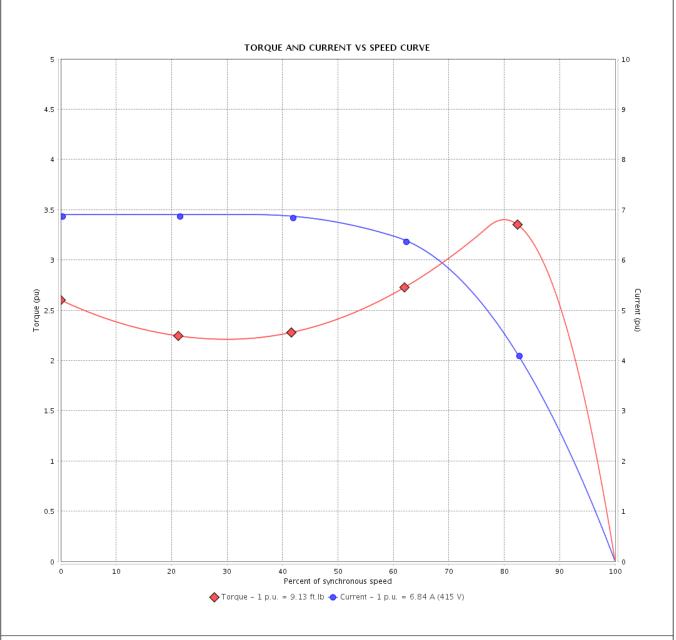
Customer :

Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 14284314

Catalog #: 00536XT3E184TC



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) : F Insulation class Rated torque : 9.13 ft.lb Service factor Locked rotor torque : 260 % : 1.00 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 2875 rpm Design : B

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

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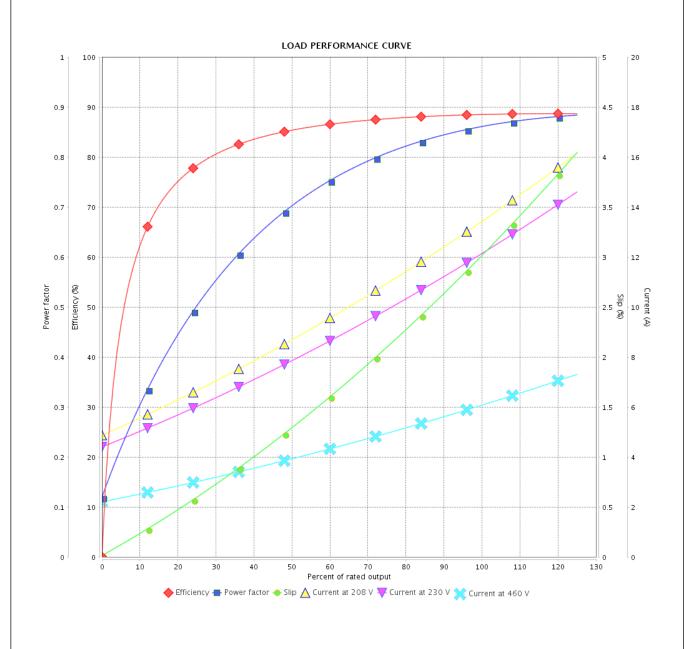


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14284314

Phase

Catalog #: 00536XT3E184TC



Performance	: 2	30/460 V 60 Hz 2P				
Rated current	: 1	2.2/6.10 A	Moment o	f inertia (J)	: 0.1889 sq.ft.lb	
LRC	: 7	.5	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 7	.52 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	50 %	Service fa	ctor	: 1.15	
Breakdown torque : 380 % Temperat		Temperature rise : 80 K				
Rated speed	: 3	490 rpm	Design		: B	
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

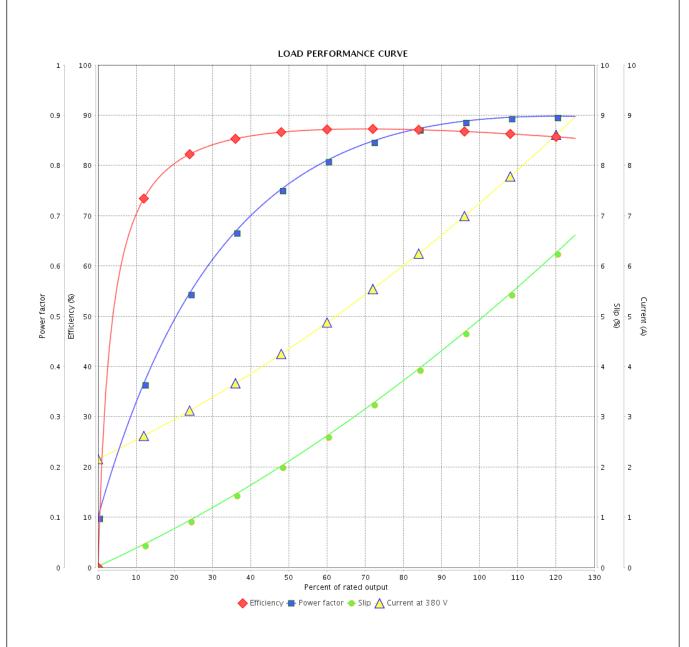
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Performance	: 380 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed		Moment of inertia (J) : 0.1889 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B		b	
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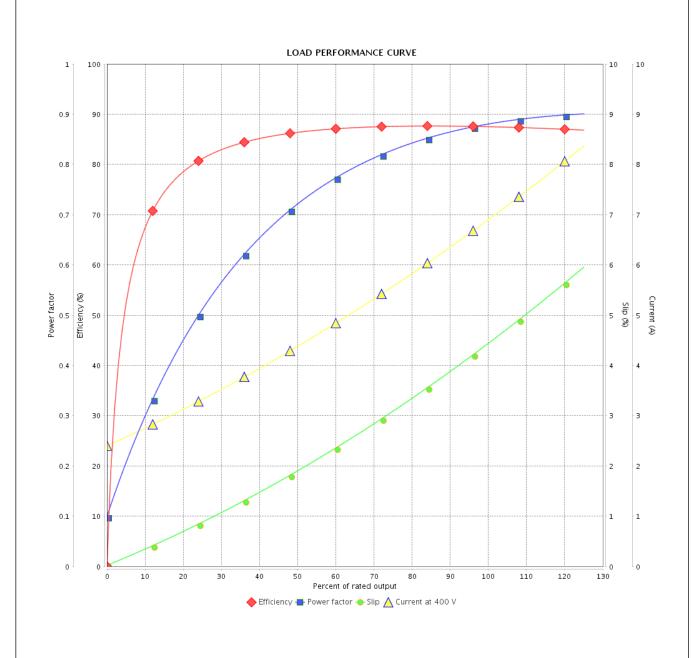


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Product line : NEMA Premium Efficiency Three- Product code : 14284314

Phase

Catalog #: 00536XT3E184TC



Darfarmana		00 V/ 50 LI= 2D IF2				
Performance	. 4	00 V 50 Hz 2P IE2	ı			
Rated current	: 6.94 A Moment		Moment o	f inertia (J)	: 0.1889 sq.ft.	lb
LRC	: 6	5.4	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 9	).16 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	29 %	Service fa	ctor	: 1.00	
Breakdown torque	: 3	310 %	Temperature rise		: 80 K	
Rated speed	: 2	.865 rpm	Design		: B	
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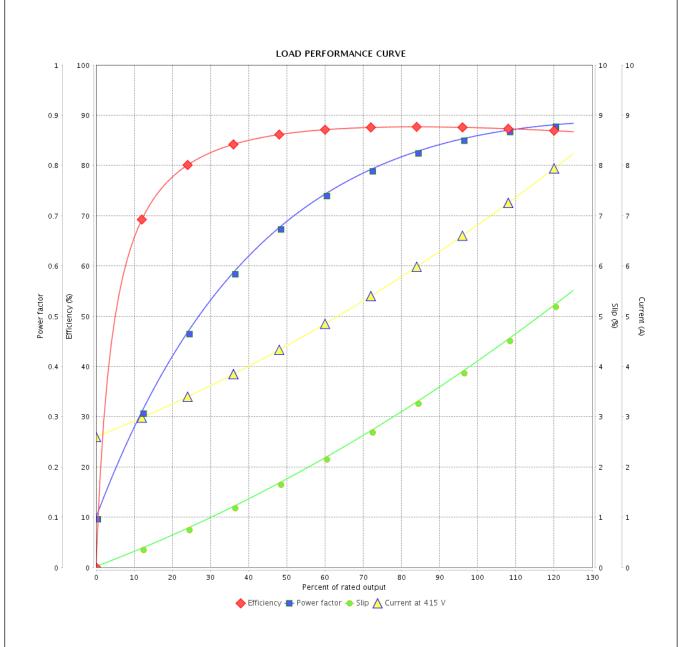
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Product line : NEMA Premium Efficiency Three- Product of

Phase

Product code: 14284314

Catalog #: 00536XT3E184TC



Performance	: 415 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.84 A : 6.9 : 9.13 ft.lb : 260 % : 340 % : 2875 rpm	Moment of inertia (J) : 0.1889 sq.ft.lb  Duty cycle : Cont.(S1)  Insulation class : F  Service factor : 1.00  Temperature rise : 80 K  Design : B		0	
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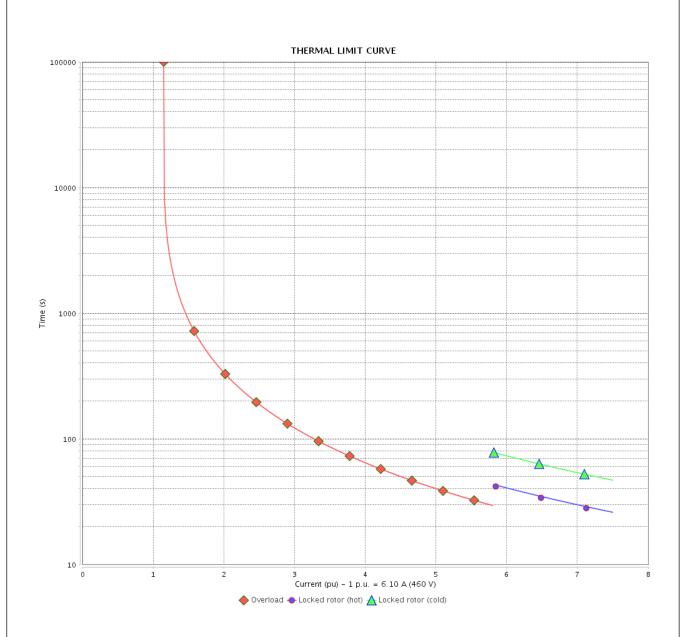


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Product line		NEMA Premium Efficiency	Three-	Product code :	14284314	
Froduct line		Phase				
				Catalog # :	00536XT3E <sup>2</sup>	184TC
Performance		230/460 V 60 Hz 2P				
Rated current LRC		2.2/6.10 A 7.5	Moment o	of inertia (J)	: 0.1889 sq.ft. : Cont.(S1)	lb
Rated torque	: 7	7.52 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		250 % 380 %	Service fa Temperat		: 1.15 : 80 K	
Rated speed		3490 rpm	Design	ure rise	: B	
Heating constan			-			
Cooling constant						
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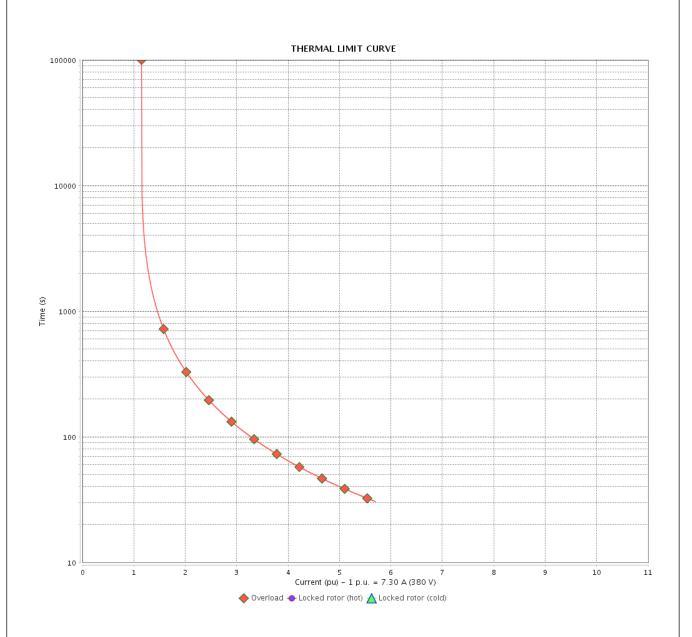


Customer	:					
Product line	:	NEMA Premium Efficiency	Three-	Product code :	14284314	
		Phase		Catalog # :	00536XT3E <sup>2</sup>	184TC
Performance Rated current RC Rated torque ocked rotor toro	: 7 : 5 : 9 que : 2	7.30 A 5.7 9.21 ft.lb	Duty cycle Insulation Service fa	class actor	: 0.1889 sq.ft. : Cont.(S1) : F : 1.00	lb
Breakdown torqu Rated speed Heating constan	: 2	280 % 2850 rpm	Temperat Design	ure rise	: 80 K : B	
Cooling constant						
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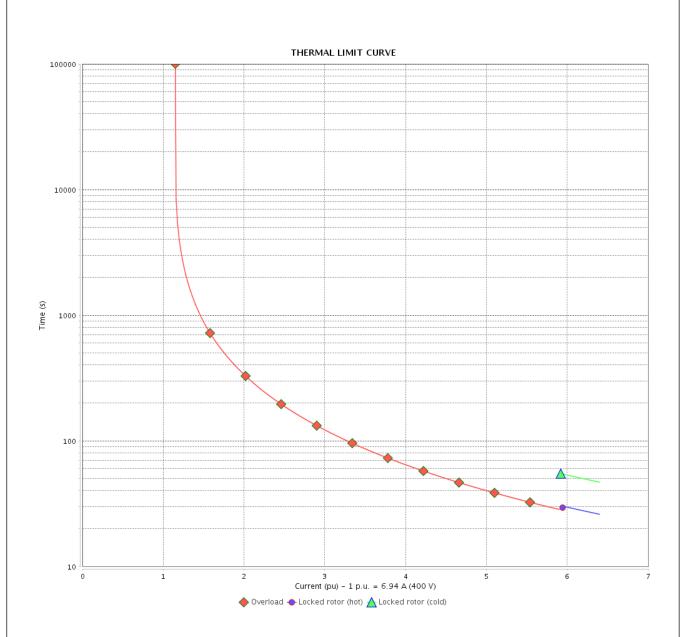


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Product line		NEMA Premium Efficiency	Three-	Product code :	14284314	
1 Toddot IIITo		hase				
				Catalog # :	00536XT3E1	1841C
Donformon		00 V 50 H= 2D IF2				
Performance Rated current		00 V 50 Hz 2P IE2 .94 A	Moment o	of inertia (J)	: 0.1889 sq.ft.	lh
LRC	: 6	.4	Duty cycle	Э	: Cont.(S1)	iD
Rated torque Locked rotor tord		.16 ft.lb 29 %	Insulation Service fa		: F : 1.00	
Breakdown torqi		29 % 10 %	Temperat		: 80 K	
Rated speed		865 rpm	Design		: B	
Heating constan	t					
Cooling constan	t			,		
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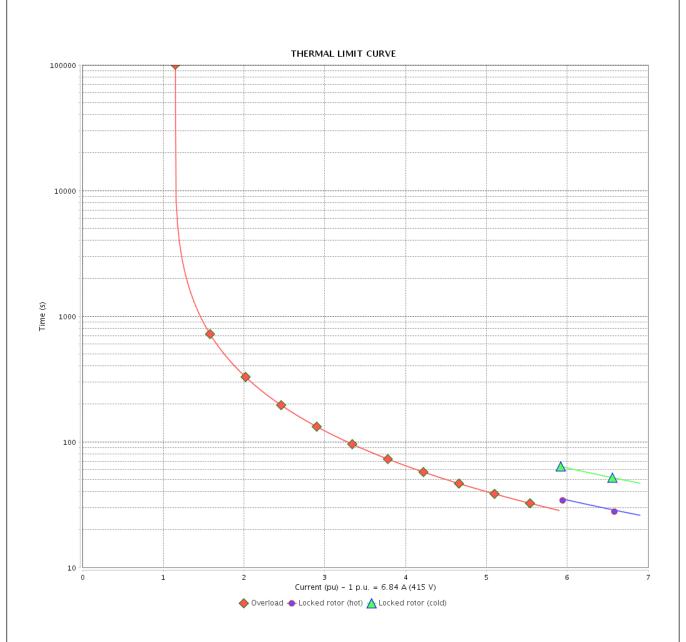


Customer	:					
Product line	: I P	NEMA Premium Efficiency hase		Product code : Catalog # :	14284314 00536XT3E	184TC
Performance	: 4	15 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 9. que : 26 ue : 34	.84 A 9 .13 ft.lb 60 % 40 % 875 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ictor	: 0.1889 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : B	lb
Heating constant						
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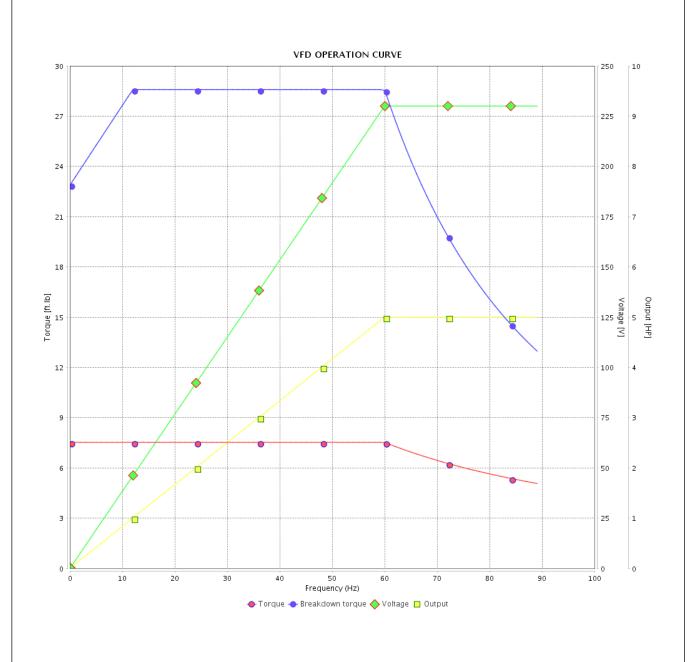


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14284314

Phase

Catalog #: 00536XT3E184TC



Performance	:	230/460 V 60 Hz 2P				
Rated current	I current : 12.2/6.10 A		Moment o	Moment of inertia (J)		b
LRC	:	7.5	Duty cycle	<b>;</b>	: 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	ıre rise	: 80 K	
Rated speed	:	3490 rpm	Design		: B	
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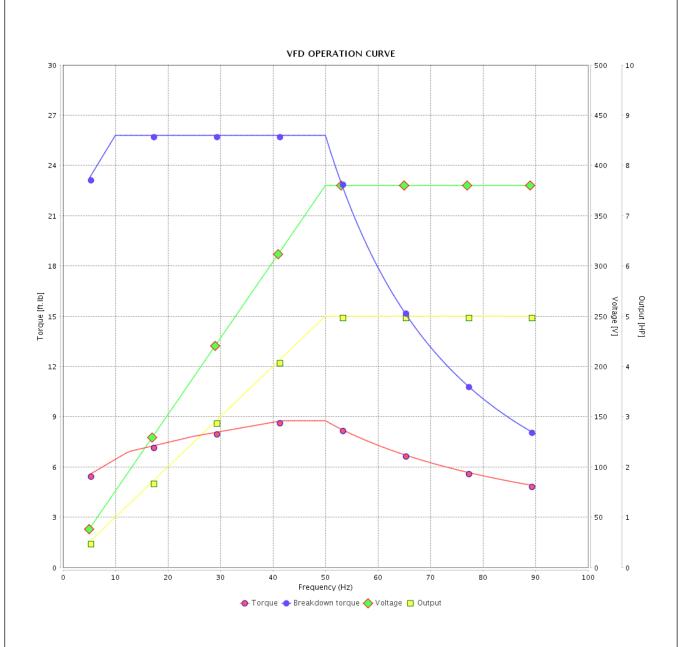
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14284314

Catalog #: 00536XT3E184TC



Performance	: 380 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.30 A : 5.7 : 9.21 ft.lb : 200 % : 280 % : 2850 rpm	5.7 Duty cycle 9.21 ft.lb Insulation class 200 % Service factor 280 % Temperature ris		: Cont.(S1) class : F tor : 1.00	
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### Three Phase Induction Motor - Squirrel Cage



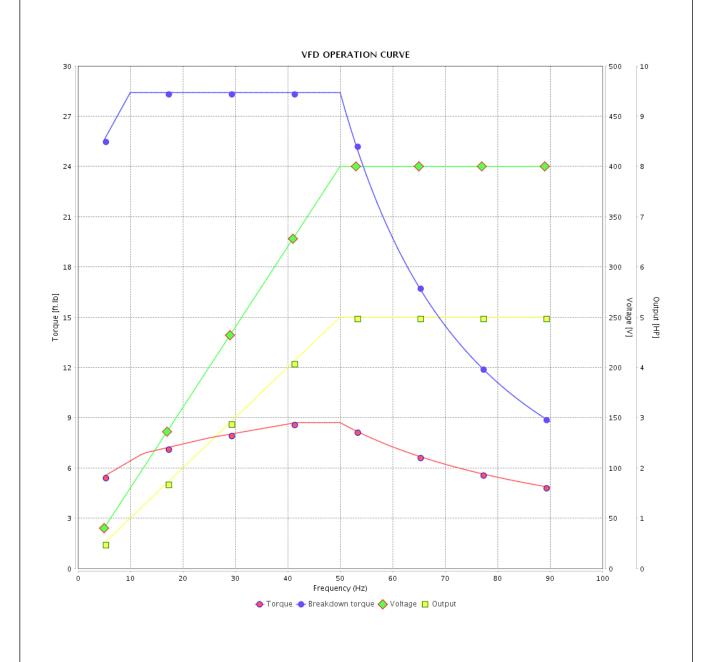
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00536XT3E184TC

14284314



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



Customer

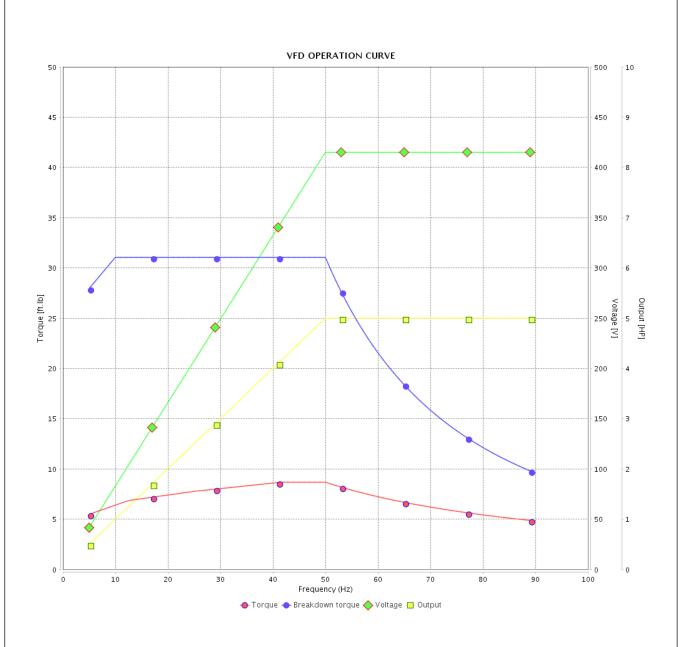
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Product line : NEMA Premium Efficiency Three-

Product code: 14284314

Catalog #: 00536XT3E184TC



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

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