DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11452806

00159ET3E184T-W22 Catalog #:

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

Insulation class Mounting : F-1

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. Altitude Approx. weight3 : 99.3 lb

Ailliude		. 1000 III.a.S.I.	Approx. weigi		. 99.3 ID		
Protection degre	е	: IP55	Moment of ine	ertia (J) : 0.57	66 sq.ft.lb		
Design		: B					
Output [HP]		1.5	1.5	1.5	1.5		
Poles		8	8	8	8		
Frequency [Hz]		60	50	50	50		
Rated voltage [V]		230/460	380	400	415		
Rated current [A]		5.40/2.70	3.04	3.01	2.99		
L. R. Amperes [A]		31.9/15.9	15.2	16.6	17.9		
LRC [A]		5.9x(Code K)	5.0x(Code H)	5.5x(Code J)	6.0x(Code K)		
No load current [A]	4.00/2.00	1.90	2.00	2.10		
Rated speed [RPM]		865	705	710	715		
Slip [%]		3.89	6.00	5.33	4.67		
Rated torque [ft.lb]		9.11	11.2	11.1	11.0		
Locked rotor torque [%]		290	229	260	290		
Breakdown torque	Breakdown torque [%]		260	290	320		
Service factor		1.25	1.00	1.00	1.00		
Temperature rise		80 K	80 K	80 K	80 K		
Locked rotor time		30s (cold) 17s (hot)					
Noise level ²		50.0 dB(A)	46.0 dB(A)	46.0 dB(A)	46.0 dB(A)		
	25%						
Efficiency (%)	50%	80.0	80.0	78.5	77.0		
Efficiency (70)	75%	82.5	80.0	80.0	80.0		
	100%	82.5	78.5	80.0	80.0		
	25%						
Power Factor	50%	0.43	0.51	0.47	0.44		
I OWEI FACIOI	75%	0.54	0.62	0.58	0.55		
	100%	0.62	0.70	0.66	0.64		

Non drive end Foundation loads Drive end

Bearing type 6207 ZZ 6206 ZZ Max. traction : 175 lb Sealing V'Ring V'Ring Max. compression : 275 lb

Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 5.97A SF 1.15 SFA 6.87A

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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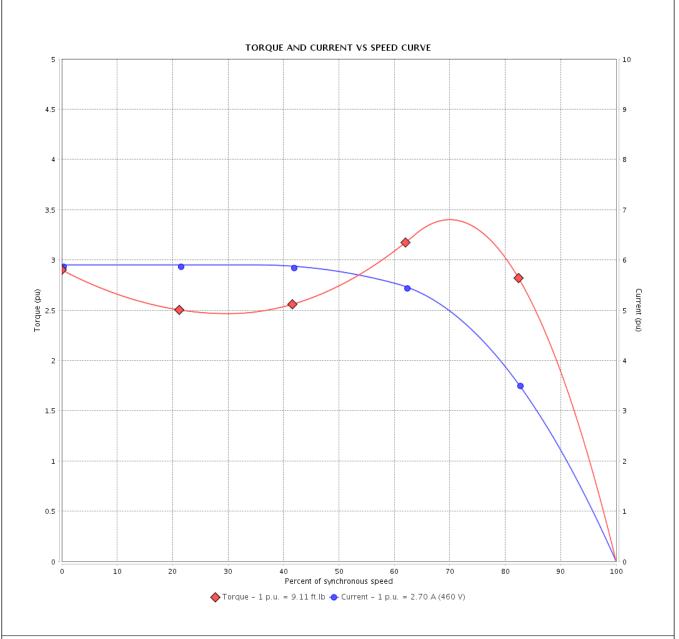
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11452806

Catalog #: 00159ET3E184T-W22



Performance : 230/460 V 60 Hz 8P Rated current : 5.40/2.70 A Moment of inertia (J) : 0.5766 sq.ft.lb **LRC** : 5.9 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 9.11 ft.lb Service factor Locked rotor torque : 290 % : 1.25 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 865 rpm Design : B

Locked rotor time : 30s (cold) 17s (hot)

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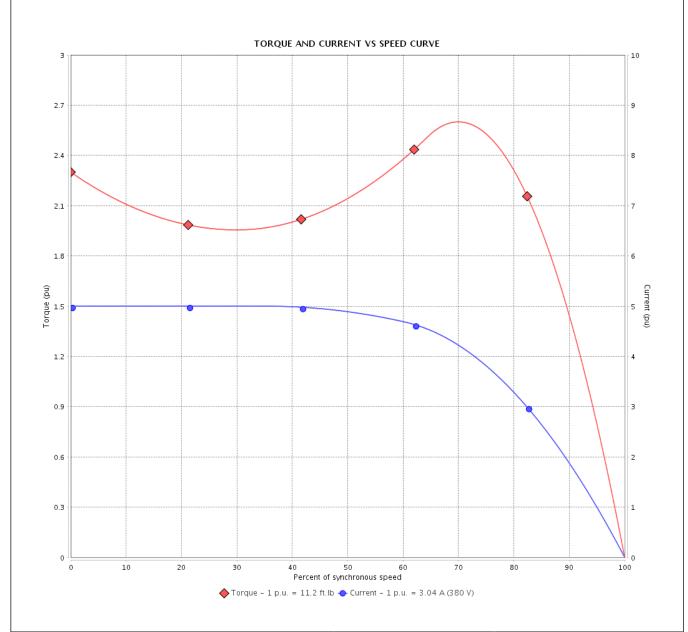
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Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11452806

Catalog #: 00159ET3E184T-W22



Performance	: 380 V 50 Hz 8P IE3			
Rated current	: 3.04 A	Moment of inertia (J)	: 0.5766 sq.ft.lb	
LRC	: 5.0	Duty cycle	: Cont.(S1)	
Rated torque	: 11.2 ft.lb	Insulation class	:F	
Locked rotor torque	: 229 %	Service factor	: 1.00	
Breakdown torque	: 260 %	Temperature rise	: 80 K	
Rated speed	: 705 rpm	Design	: B	
Locked rotor time	: 30s (cold) 17s (hot)	L		

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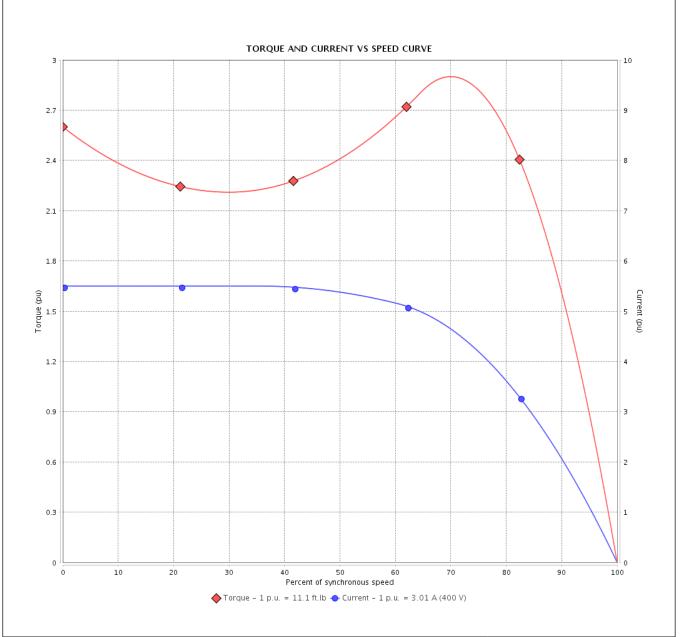
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11452806

Catalog #: 00159ET3E184T-W22



Performance	: 400 V 50 Hz 8P IE3		
Rated current	: 3.01 A	Moment of inertia (J)	: 0.5766 sq.ft.lb
LRC	: 5.5	Duty cycle	: Cont.(S1)
Rated torque	: 11.1 ft.lb	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.00
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 710 rpm	Design	: B
Locked roter time	: 30s (cold) 17s (bot)		

Locked rotor time : 30s (cold) 17s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11452806 Catalog #: 00159ET3E184T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 11.0 ft.lb ◆ Current - 1 p.u. = 2.99 A (415 V) Performance : 415 V 50 Hz 8P IE3 Rated current : 2.99 A Moment of inertia (J) : 0.5766 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 11.0 ft.lb : 290 % Locked rotor torque Service factor : 1.00 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 715 rpm Design : B Locked rotor time : 30s (cold) 17s (hot) Rev. Performed Checked Date **Changes Summary** Performed by

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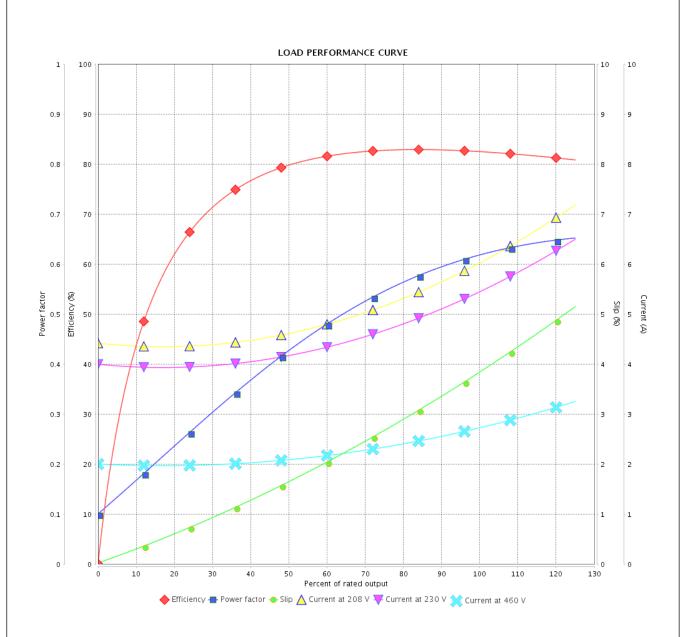
Product line : NEMA Premium Efficiency Three- Product code :

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Catalog #: 00159ET3E184T-W22

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	-				
Performance	: 230/460 V 60 Hz 8P				
Rated current LRC	: 5.40/2.70 A : 5.9	Moment of inertia (J) Duty cycle		: 0.5766 sq.ft. : Cont.(S1)	lb
Rated torque Locked rotor torque Breakdown torque	: 9.11 ft.lb : 290 % : 340 %	Insulation class Service factor Temperature rise		: F : 1.25 : 80 K	
Rated speed	: 865 rpm			: B	
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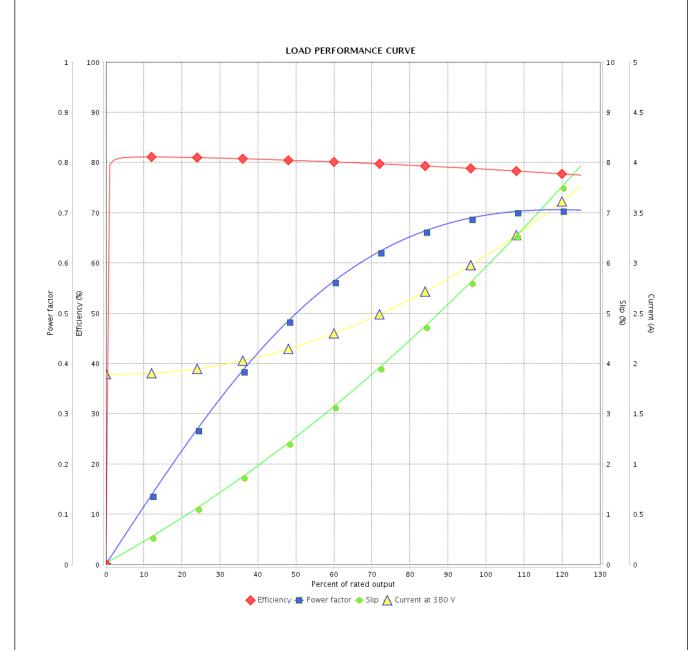
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Performance		: 380 V 50 Hz 8	BP IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 3.04 A : 5.0 : 11.2 ft.lb : 229 % : 260 % : 705 rpm		Moment o Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.5766 sq.ft : Cont.(S1) : F : 1.00 : 80 K : B	lb
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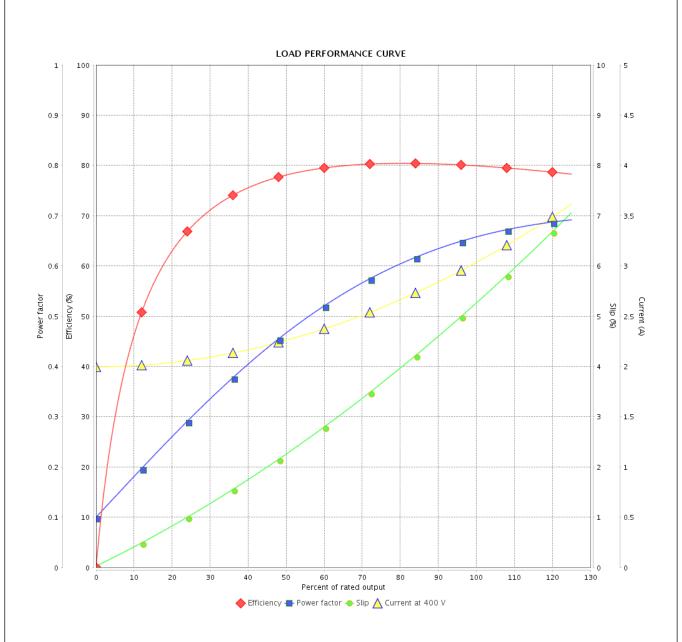
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Performance	: 400 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.01 A : 5.5 : 11.1 ft.lb : 260 % : 290 % : 710 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.5766 sq.ft.I : Cont.(S1) : F : 1.00 : 80 K : B	b
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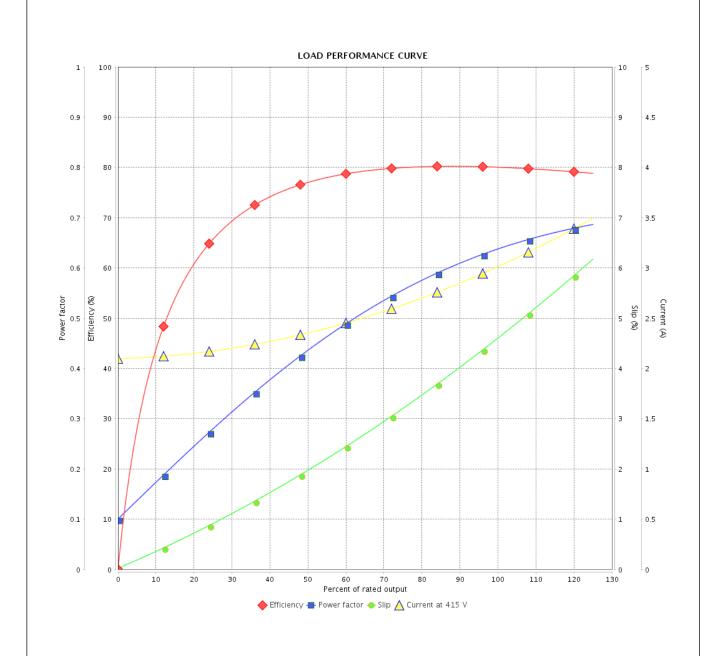
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 11452806

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Performance	:	: 415 V 50 Hz 8P IE3				
Rated current	:	2.99 A	Moment o	f inertia (J)	: 0.5766 sq.ft.lb	
LRC	:	6.0	Duty cycle)	: Cont.(S1)	
Rated torque	:	11.0 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	290 %	Service fa	ctor	: 1.00	
Breakdown torque	:	320 %	Temperature rise		: 80 K	
Rated speed	:	715 rpm	Design		: B	
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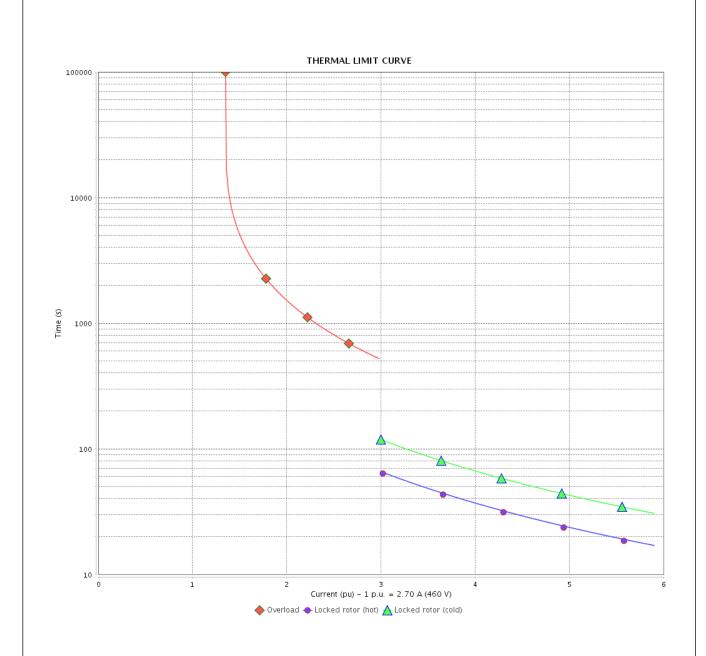


Customer	:					
Product line		NEMA Premium Efficiency ⁻ hase		Product code :	11452806 00159ET3E18	34T-W22
Performance	: 2	30/460 V 60 Hz 8P				
Rated current LRC Rated torque	: 5	.40/2.70 A .9 .11 ft.lb	Moment of Duty cycle Insulation	f inertia (J) class	: 0.5766 sq.ft.lb : Cont.(S1) : F)
Locked rotor torque Breakdown torque		90 % 40 %	Service fa	ctor	: 1.25 : 80 K	
Rated speed		65 rpm	Design		: B	
Heating constant Cooling constant						
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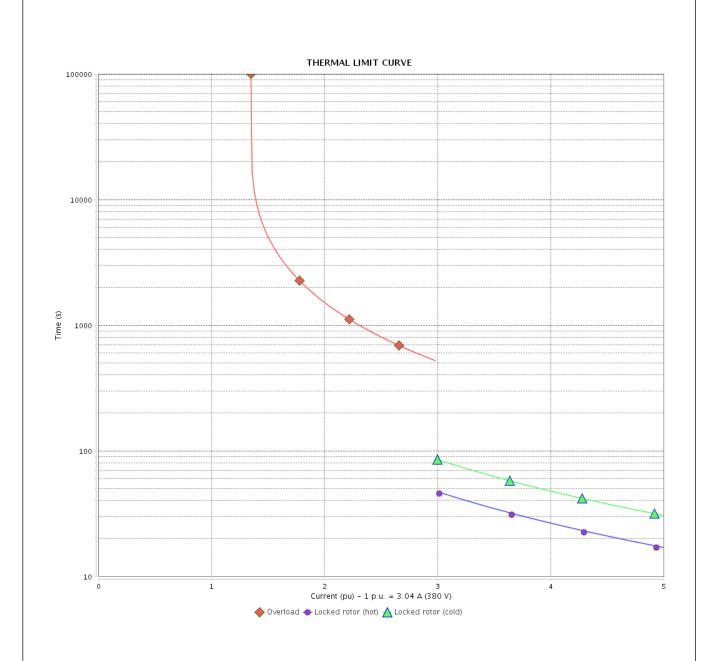


Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	11452806	
		Thase		Catalog # :	00159ET3E1	84T-W22
Performance	:	380 V 50 Hz 8P IE3				
Rated current		3.04 A		f inertia (J)	: 0.5766 sq.ft.l	0
LRC Rated torque		5.0 11.2 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torq	que :	229 %	Service fa	ctor	: 1.00	
Breakdown torqu		260 %	Temperatu	ure rise	: 80 K : B	
Rated speed		705 rpm	Design		. Б	
Heating constant						
Cooling constant Rev.	<u>.</u>	Changes Summary		Performed	Checked	Date
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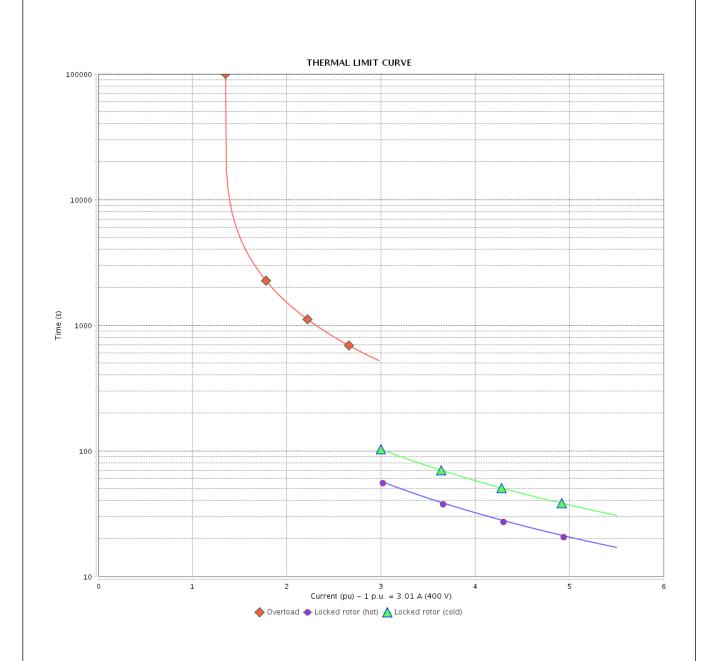


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Product line	: NE Pha	EMA Premium Efficiency ^a ase		Product code :	11452806 00159ET3E1	34T-W22
Performance	: 400	V 50 Hz 8P IE3				
Rated current LRC	: 3.0° : 5.5	1 A	Moment of Duty cycle	f inertia (J)	: 0.5766 sq.ft.lt : Cont.(S1)	
Rated torque Locked rotor torqu	: 11.1		Insulation Service fa	class	: F : 1.00	
Breakdown torque	: 290	1 %	Temperatu		: 80 K	
Rated speed	: 710	rpm	Design		: B	
Heating constant						
Cooling constant Rev.	C	Changes Summary		Performed	Checked	Date
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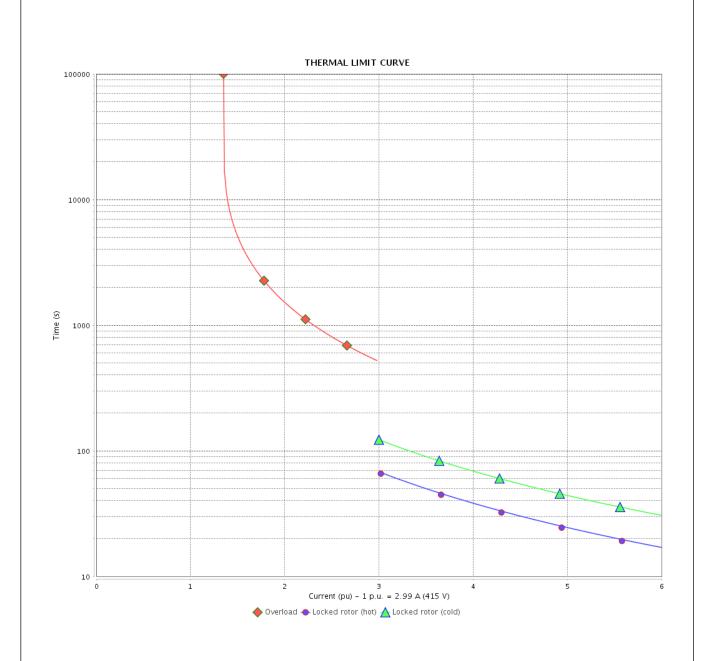


					<u>'</u>
Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	11452806 00159ET3E1	84T-W22
			-		
Performance	: 415 V 50 Hz 8P IE3	-			
Rated current	: 2.99 A	Moment o	f inertia (J)	: 0.5766 sq.ft.l	b
LRC Rated torque	: 6.0 : 11.0 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torque	: 290 %	Service fa	ctor	: 1.00	
Breakdown torque Rated speed	: 320 % : 715 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constant					
Cooling constant					
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Phase

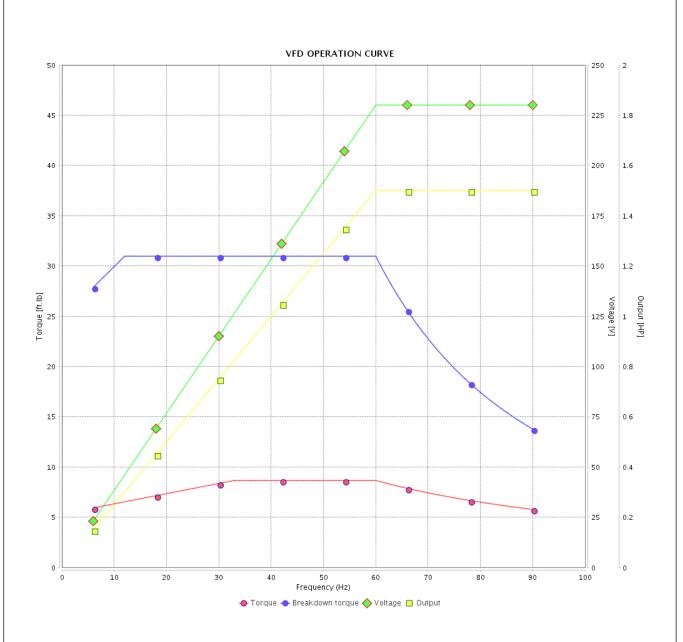
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Performance		: 230/460 V	60 Hz 8P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 5.40/2.70 A : 5.9 : 9.11 ft.lb : 290 % : 340 % : 865 rpm	A	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.5766 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
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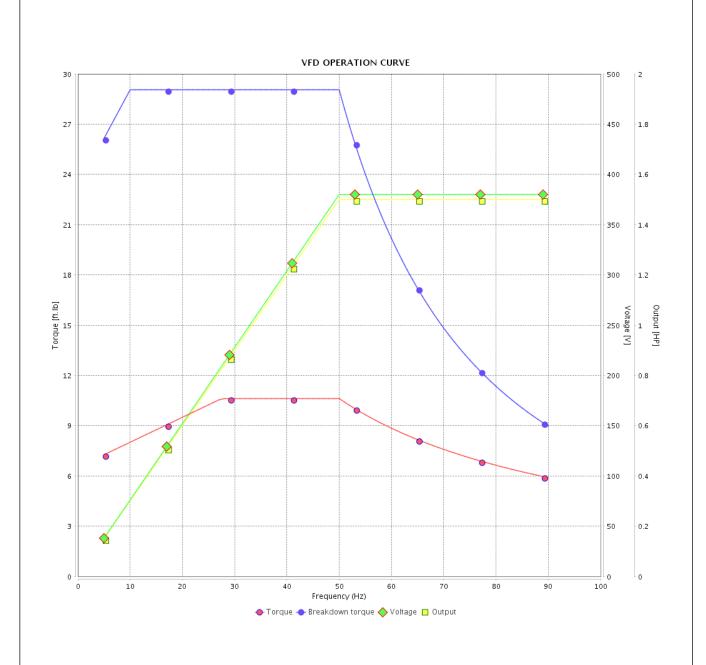
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Performance	: 380 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.04 A : 5.0 : 11.2 ft.lb : 229 % : 260 % : 705 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.5766 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : B	lb
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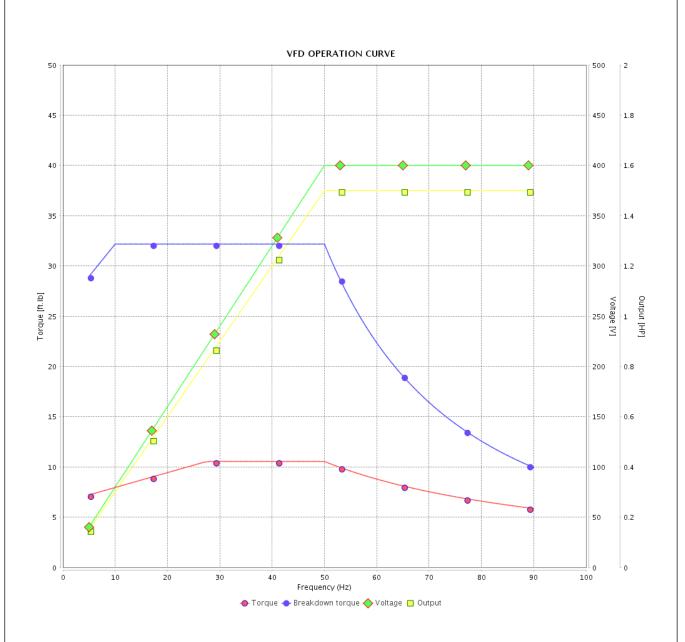
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11452806

Catalog #: 00159ET3E184T-W22



Performance	: 400 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.01 A : 5.5 : 11.1 ft.lb : 260 % : 290 % : 710 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.5766 sq.ft : Cont.(S1) : F : 1.00 : 80 K : B	lb
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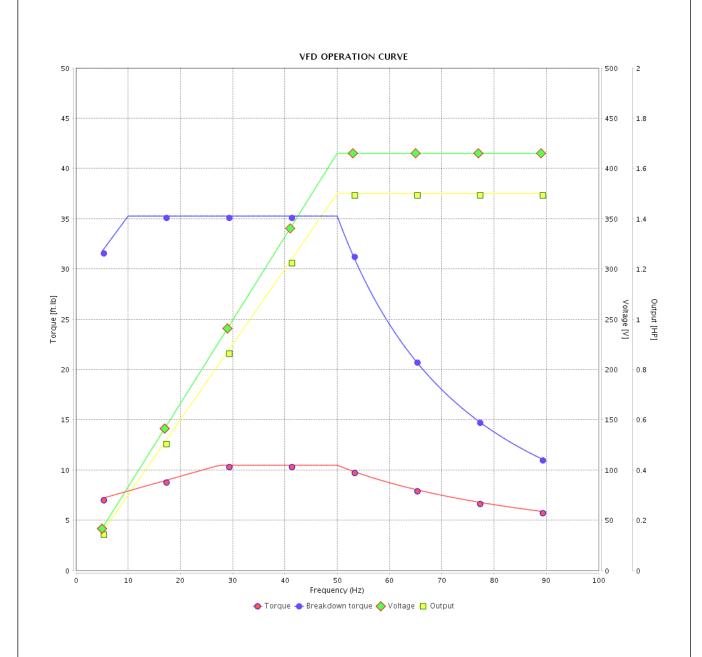
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Performance	: 415 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.0 Duty cycle Insulation class tor torque : 320 % Service factor Temperature rise		uty cycle : Cont.(S1) sulation class : F ervice factor : 1.00 emperature rise : 80 K		b
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