DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12445703

Catalog #: 00152ET3E182T-W22

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 Ambient temperature Starting method : Direct On Line

: 1000 m.a.s.l. Approx. weight³ : 91.7 lb Altitude

Protection degree		: IP55 Moment o		of inertia (J) : 0.4879 sq.ft.lb			
Design		: B					
Output [HP]		1.5	1.5	1.5	1.5		
Poles		6	6	6	6		
Frequency [Hz]	Frequency [Hz]		50	50	50		
Rated voltage [V]		230/460	380	400	415		
Rated current [A]		5.08/2.54	2.68	2.62	2.64		
L. R. Amperes [A]		39.6/19.8	16.9	18.1	19.5		
LRC [A]		7.8x(Code M)	6.3x(Code J)	6.9x(Code K)	7.4x(Code L)		
No load current [A]	3.25/1.63	1.60	1.71	1.80		
Rated speed [RPN	<i>/</i> I]	1170	955	960	965		
Slip [%]		2.50	4.50	4.00	3.50		
Rated torque [ft.lb]		6.73	8.25	8.21	8.16		
Locked rotor torque [%]		320	250	300	330		
Breakdown torque	[%]	400	290	330	370		
Service factor		1.25	1.00	1.00 1.00			
Temperature rise		80 K	80 K	80 K	80 K		
Locked rotor time		28s (cold) 16s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)		
Noise level ²		52.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)		
	25%						
Efficiency (%)	50%	84.0	85.5	84.5	84.0		
Liliciency (70)	75%	86.5	86.5	86.5	85.5		
100%		87.5	85.5	86.5	86.5		
	25%						
Power Factor	50%	0.45	0.52	0.48	0.45		
I OWEI Facioi	75%	0.54	0.63	0.60	0.57		
	100%	0.62	0.73	0.70	0.67		

Drive end Non drive end Foundation loads

Bearing type 6207 ZZ 6206 ZZ Max. traction : 147 lb Sealing V'Ring V'Ring Max. compression : 239 lb

Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 5.62A SF 1.15 SFA 6.46A

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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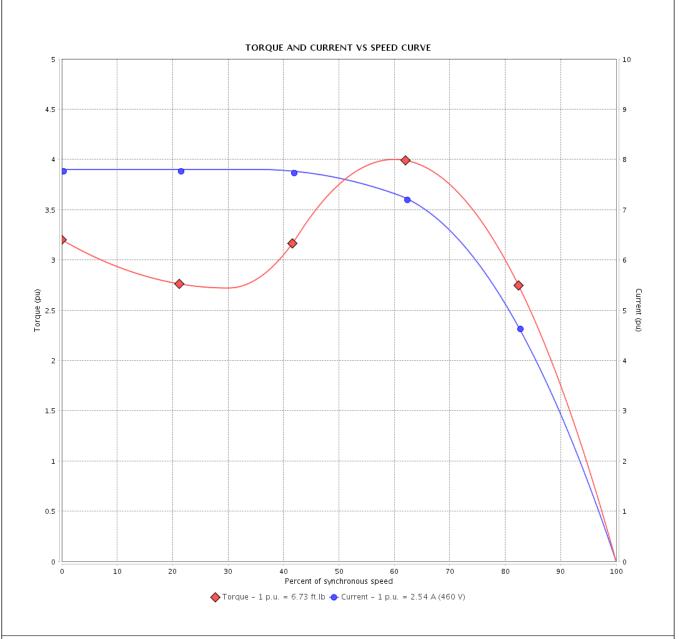
Customer :

Product line : NEMA Premium Efficiency Three- Product of

Phase

Product code: 12445703

Catalog #: 00152ET3E182T-W22



Performance : 230/460 V 60 Hz 6P Rated current : 5.08/2.54 A Moment of inertia (J) : 0.4879 sq.ft.lb **LRC** : 7.8 Duty cycle : Cont.(S1) : F : 6.73 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 320 % : 1.25 Breakdown torque : 400 % Temperature rise : 80 K Rated speed : 1170 rpm Design : B

Locked rotor time : 28s (cold) 16s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12445703 Catalog #: 00152ET3E182T-W22 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. = 8.25 ft.lb ◆ Current - 1 p.u. = 2.68 A (380 V) Performance : 380 V 50 Hz 6P IE4 Rated current : 2.68 A Moment of inertia (J) : 0.4879 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 8.25 ft.lb Locked rotor torque : 250 % Service factor : 1.00 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 955 rpm Design : B Locked rotor time : 25s (cold) 14s (hot) Date Rev. Performed Checked **Changes Summary**

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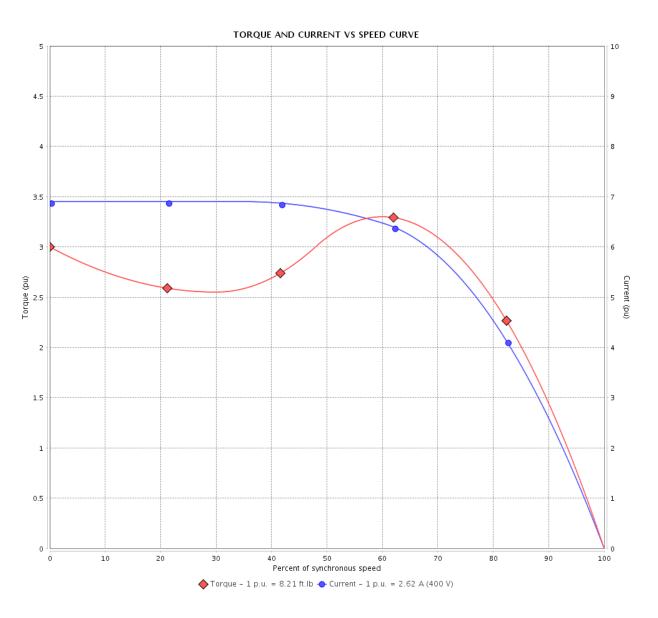


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12445703

Phase

Catalog #: 00152ET3E182T-W22



Performance : 400 V 50 Hz 6P IE4 Rated current : 2.62 A Moment of inertia (J) : 0.4879 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 8.21 ft.lb Service factor Locked rotor torque : 300 % : 1.00 Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 960 rpm Design : B

Locked rotor time : 25s (cold) 14s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12445703 Catalog #: 00152ET3E182T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Current Torque (pu) 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 8.16 ft.lb ◆ Current - 1 p.u. = 2.64 A (415 V) Performance : 415 V 50 Hz 6P IE4 Rated current : 2.64 A Moment of inertia (J) : 0.4879 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 8.16 ft.lb Insulation class : F Rated torque : 330 % Locked rotor torque Service factor : 1.00 Breakdown torque : 370 % Temperature rise : 80 K Rated speed : 965 rpm Design : B Locked rotor time : 25s (cold) 14s (hot) Date Rev. Performed Checked **Changes Summary**

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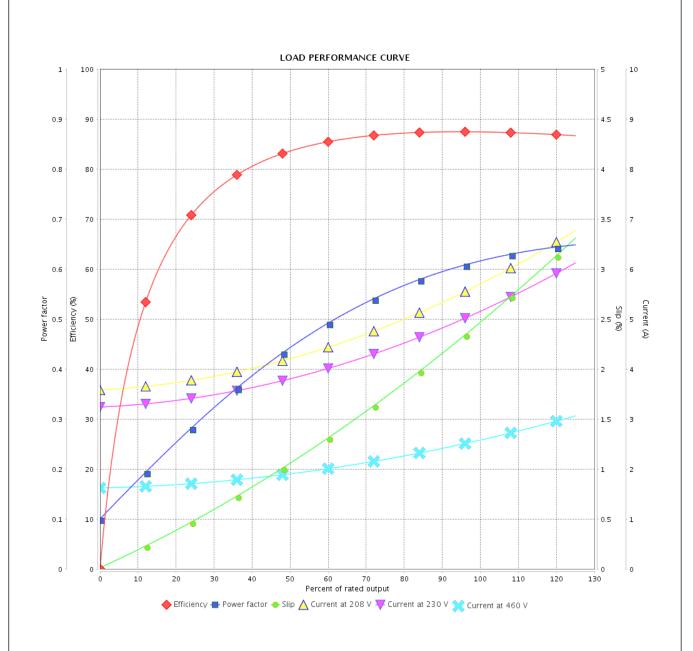


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12445703

Phase

Catalog #: 00152ET3E182T-W22



Performance	: 230/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5.08/2.54 A : 7.8 : 6.73 ft.lb : 320 % : 400 % : 1170 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.4879 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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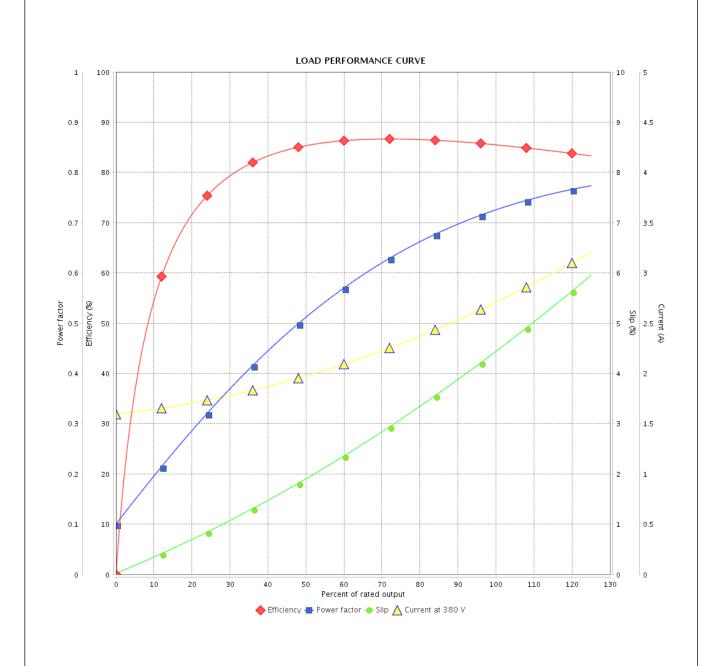


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12445703

Phase

Catalog #: 00152ET3E182T-W22



Performance : 380 V 50 Hz 6P IE4							
Rated current	: 2	.68 A	Moment o	f inertia (J)	: 0.4879 sq.ft.lb		
LRC	: 6	.3	Duty cycle	!	: Cont.(S1)		
Rated torque : 8.:		.25 ft.lb	Insulation	class	: F		
Locked rotor torque : 25		50 %	Service fa	ctor	: 1.00		
Breakdown torque		90 %	Temperati	Temperature rise		: 80 K	
Rated speed : 9		55 rpm	5 rpm Design		: B		
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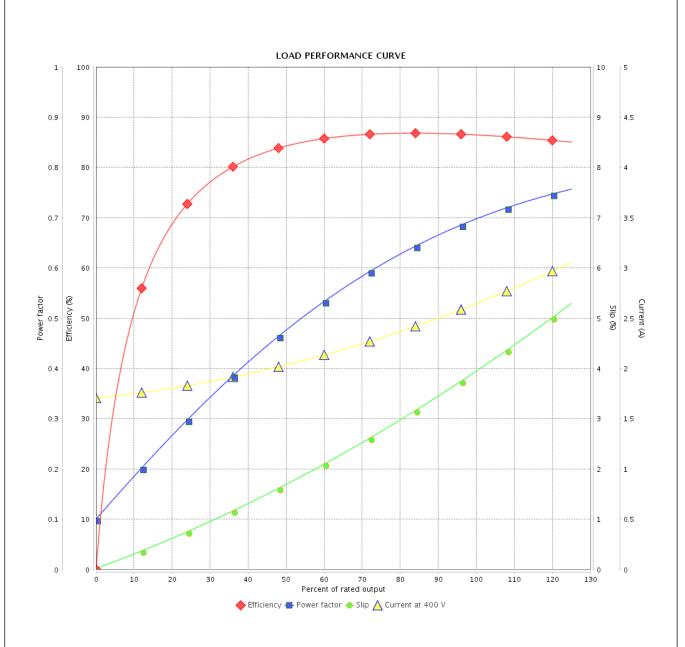
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Performance	: 4	00 V 50 Hz 6P IE4				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		2.62 A Moment of inertia (J) : 0.4879 sq.ft 6.9 Duty cycle : Cont.(S1) 6.21 ft.lb Insulation class : F 600 % Service factor : 1.00 730 % Temperature rise : 80 K 760 rpm Design : B		: F : 1.00 : 80 K	b	
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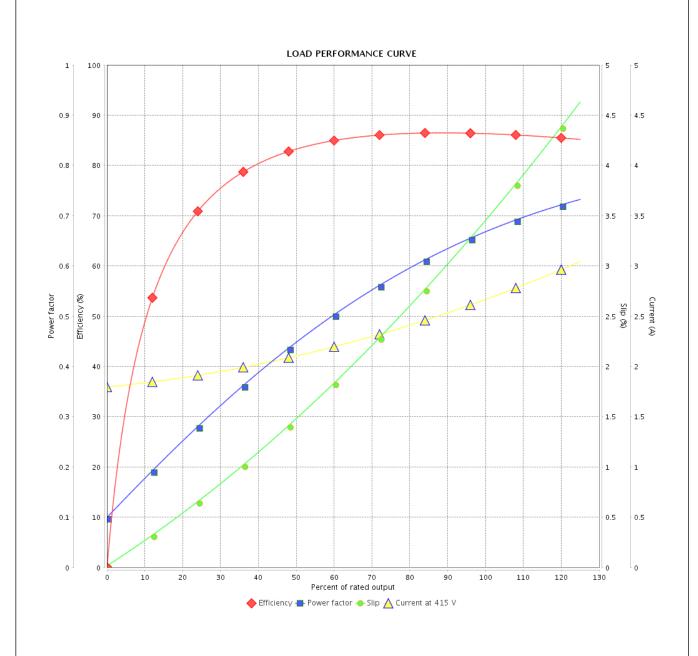
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Performance	formance : 415 V 50 Hz 6P IE4				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.64 A : 7.4 : 8.16 ft.lb : 330 % : 370 % : 965 rpm	Duty cycle : Cont Insulation class : F Service factor : 1.00 Temperature rise : 80 K		: 1.00 : 80 K)
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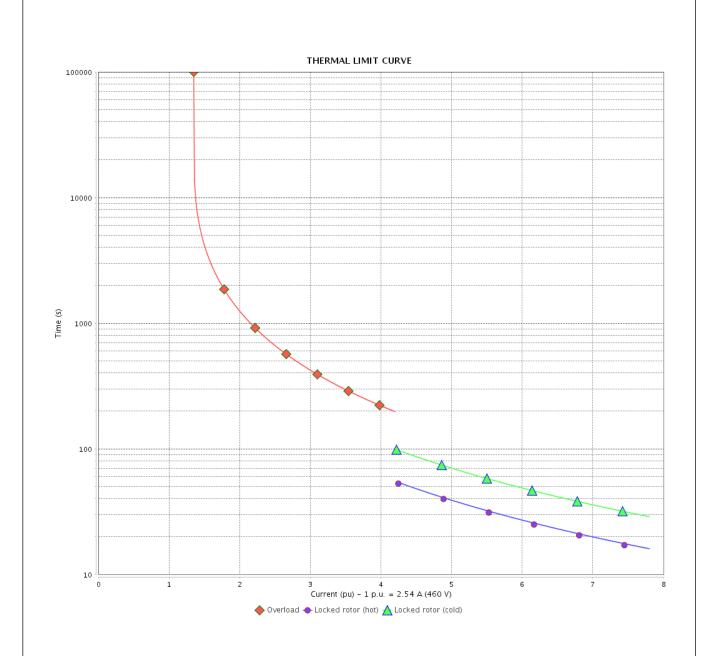


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Product line	: NEMA Premium Efficier	ncv Three-	Product code :	12445703	
	Phase	,			
			Catalog # :	00152ET3E	182T-W22
Performance	: 230/460 V 60 Hz 6P				
Rated current	: 5.08/2.54 A	Moment of	of inertia (J)	: 0.4879 sq.ft.	lb
LRC	: 7.8	Duty cycl	е	: Cont.(S1)	
Rated torque Locked rotor torque	: 6.73 ft.lb : 320 %	Insulation Service fa		: F : 1.25	
Breakdown torque	: 400 %	Temperat		: 80 K	
Rated speed	: 1170 rpm	Design		: B	
Heating constant					
Cooling constant					
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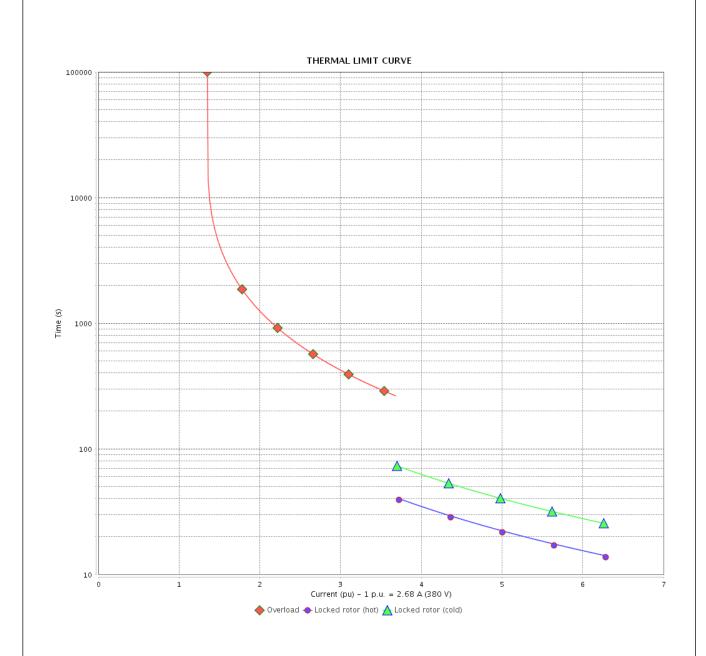


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Product line		NEMA Premium Efficiency Thase		Product code :	12445703 00152ET3E1	82T-W22
Performance		80 V 50 Hz 6P IE4				
Rated current LRC	: 6.		Moment of Duty cycle		: 0.4879 sq.ft.ll : Cont.(S1)	0
Rated torque Locked rotor torc	que : 2	.25 ft.lb 50 %	Insulation Service fac	ctor	: F : 1.00	
Breakdown torqu Rated speed		90 % 55 rpm	Temperatu Design	ire rise	: 80 K : B	
Heating constant						
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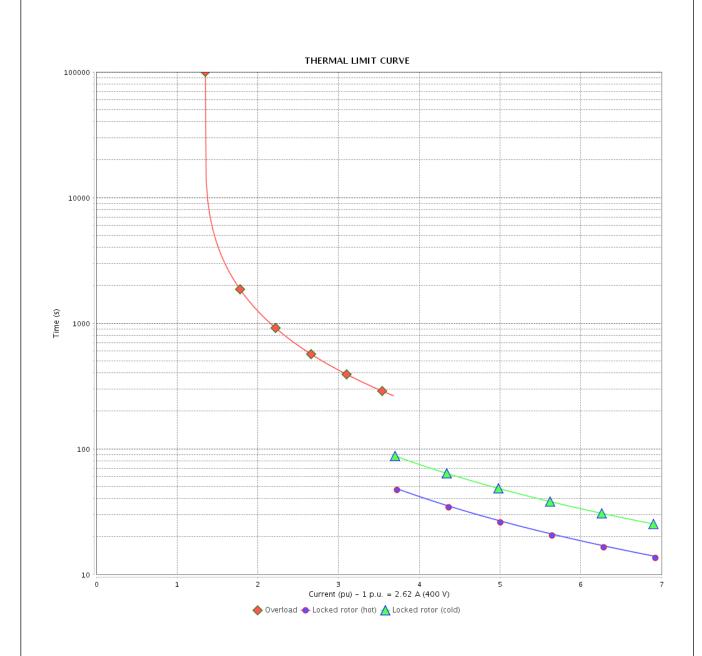


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12445703 00152ET3E1	82T-W22
Performance		: 400 V 50 Hz 6P IE4				
Rated current LRC		: 2.62 A : 6.9	Moment of Duty cycle	of inertia (J) e	: 0.4879 sq.ft.l : Cont.(S1)	b
Rated torque Locked rotor tord		: 8.21 ft.lb : 300 %	Insulation Service fa	class	: F : 1.00	
Breakdown torqu	ue	: 330 %	Temperat		: 80 K	
Rated speed		: 960 rpm	Design		: B	
Heating constan						
Cooling constant	t 	Changes Summary		Performed	Checked	Date
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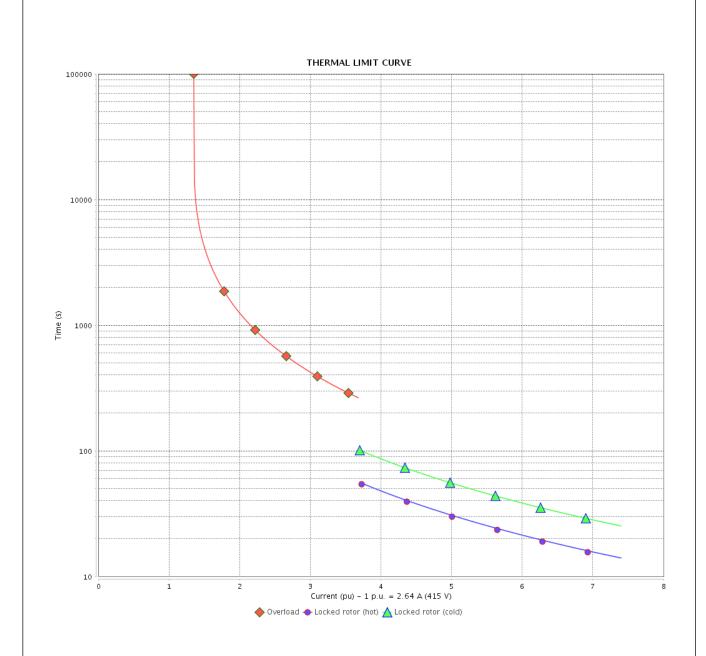


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Customer	:					
Product line		NEMA Premium Efficiency Thase	Γhree- I	Product code :	12445703	
		11430	(Catalog # :	00152ET3E18	32T-W22
Performance		15 V 50 Hz 6P IE4				
Rated current LRC Rated torque	: 7. : 8.	16 ft.lb	Moment of Duty cycle Insulation	class	: 0.4879 sq.ft.lk : Cont.(S1) : F	
Locked rotor torq Breakdown torqu Rated speed	e : 37	30 % 70 % 65 rpm	Service fac Temperatu Design		: 1.00 : 80 K : B	
Heating constant Cooling constant						
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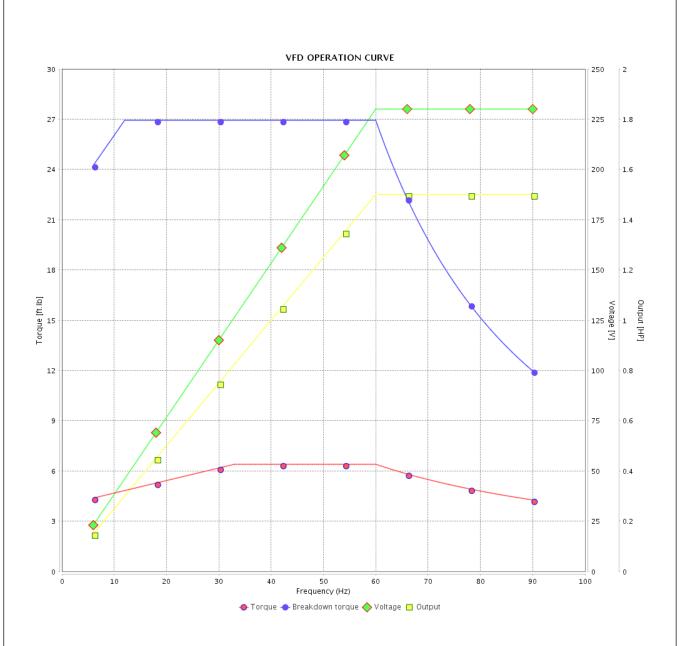
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12445703

Catalog #: 00152ET3E182T-W22



Performance : 230/460 V 60 Hz 6P Rated current : 5.08/2.54 A Moment of inertia (J) : 0.4879 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 7.8 : 6.73 ft.lb Insulation class Rated torque : F Locked rotor torque : 320 % Service factor : 1.25 Breakdown torque : 400 % Temperature rise : 80 K Rated speed : 1170 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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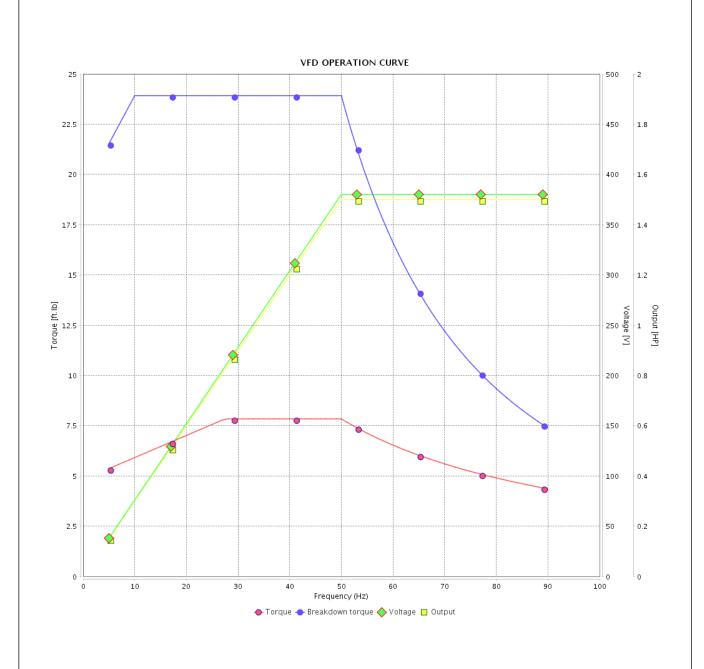


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12445703

Phase

Catalog #: 00152ET3E182T-W22



Performance	· 3	30 V 50 Hz 6P IE4				
Rated current		68 A	Moment of inertia (J)		: 0.4879 sq.ft.lb	
LRC	: 6.	· -	Duty cycle		: Cont.(S1)	
Rated torque		25 ft.lb	Insulation class		: F	
Locked rotor torqu	ue : 25	50 %	Service fa	ctor	: 1.00	
Breakdown torque	: 29	90 %	Temperature rise		: 80 K	
Rated speed	: 99	Design			: B	
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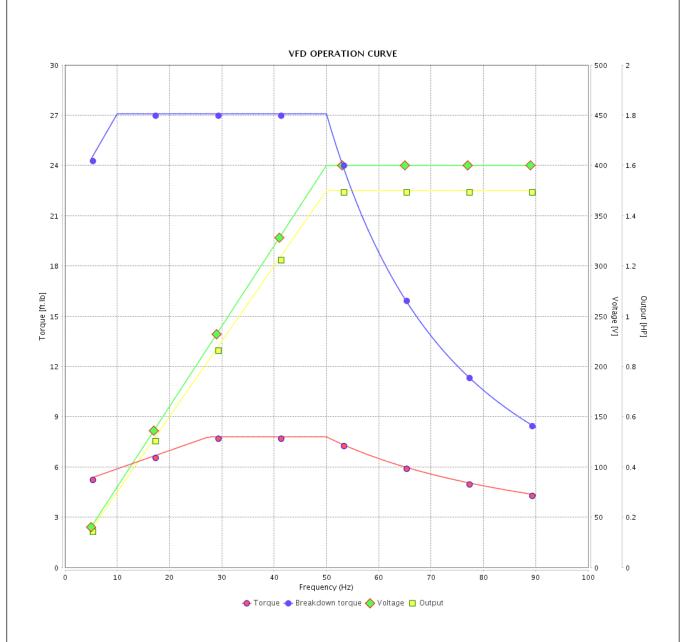
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Performance	: 400 V 50 Hz 6P IE4					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.62 A : 6.9 : 8.21 ft.lb : 300 % : 330 % : 960 rpm	Duty cycle : Co Insulation class : F Service factor : 1.0		: 1.00 : 80 K	Cont.(S1) F 1.00 80 K	
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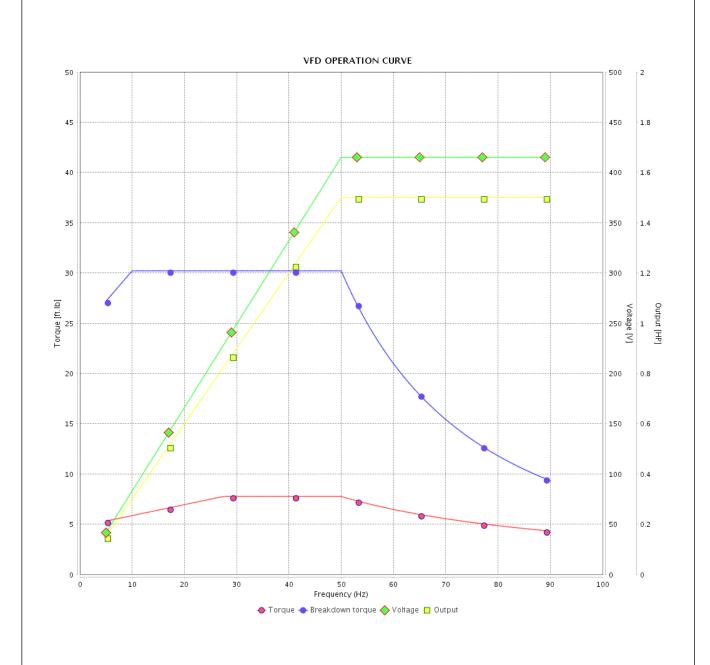
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Phase

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Performance	: 415 V 50 Hz 6P IE4				
Rated current	: 2.64 A	Moment of inertia (J)		: 0.4879 sq.ft.lb	
LRC	: 7.4	Duty cycle		: Cont.(S1)	
Rated torque	: 8.16 ft.lb	Insulation class		: F	
Locked rotor torque	: 330 %	Service factor		: 1.00	
Breakdown torque	: 370 %	Temperature rise		: 80 K	
Rated speed	: 965 rpm	: 965 rpm Design		: B	
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