DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11165650

10012ET3ERB444T-W22 Catalog #:

Frame : 444/5T 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

Altitude : 1000 m.a.s.l. Approx. weight³ : 1678 lb Protection degree : IP55 Moment of inertia (J) : 87.3 sq.ft.lb

Design	-	: B		Monie	it of inertia (3)	. 0	7.5 Sq.II.ID	
Output [HP]		100	75	75	75	100	100	100
Poles		6	6	6	6	6	6	6
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		242/121	107	104	102	145	139	135
L. R. Amperes [A]		1500/750	706	749	785	725	765	810
LRC [A]		6.2x(Code G)	6.6x(Code G)	7.2x(Code H)	7.7x(Code J)	5.0x(Code E)	5.5x(Code F)	6.0x(Code G)
No load current [A	1	90.0/45.0	45.0	48.0	50.0	45.0	48.0	50.0
Rated speed [RPN		1185	985	990	990	980	985	985
Slip [%]		1.25	1.50	1.00	1.00	2.00	1.50	1.50
Rated torque [ft.lb]		443	400	398	398	536	533	533
Locked rotor torqu	e [%]	220	229	250	270	170	190	200
Breakdown torque	[%]	250	280	310	340	210	229	250
Service factor		1.25	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K	105 K	105 K	105 K
Locked rotor time		36s (cold)	27s (cold)	27s (cold)	27s (cold)	27s (cold)	27s (cold)	27s (cold)
		20s (hot)	15s (hot)	15s (hot)	15s (hot)	15s (hot)	15s (hot)	15s (hot)
Noise level ²		69.0 dB(A)	65.0 dB(A)	65.0 dB(A)	65.0 dB(A)	65.0 dB(A)	65.0 dB(A)	65.0 dB(A)
	25%	94.4	93.7	93.7	93.5	94.8	94.8	94.8
Efficiency (%)	50%	94.5	93.8	93.8	93.7	94.5	94.5	94.5
Lilloleticy (70)	75%	95.0	94.3	94.6	94.6	94.0	94.5	94.5
	100%	95.0	94.2	94.5	94.6	93.6	94.0	94.0
	25%	0.44	0.40	0.37	0.34	0.50	0.46	0.44
Power Factor	50%	0.68	0.64	0.60	0.57	0.74	0.71	0.68
I OWELL ACTOL	75%	0.78	0.77	0.74	0.71	0.82	0.80	0.78
	100%	0.82	0.83	0.81	0.79	0.84	0.83	0.82

Drive end Non drive end Foundation loads

16000 h

Bearing type NU-319 C3 6316 C3 Max. traction : 2714 lb Sealing WSeal WSeal : 4392 lb Max. compression

Lubricant amount 45 g 34 g Lubricant type Mobil Polyrex EM

9000 h

Notes

Lubrication interval

USABLE @208V 268A SF 1.10 SFA 294A

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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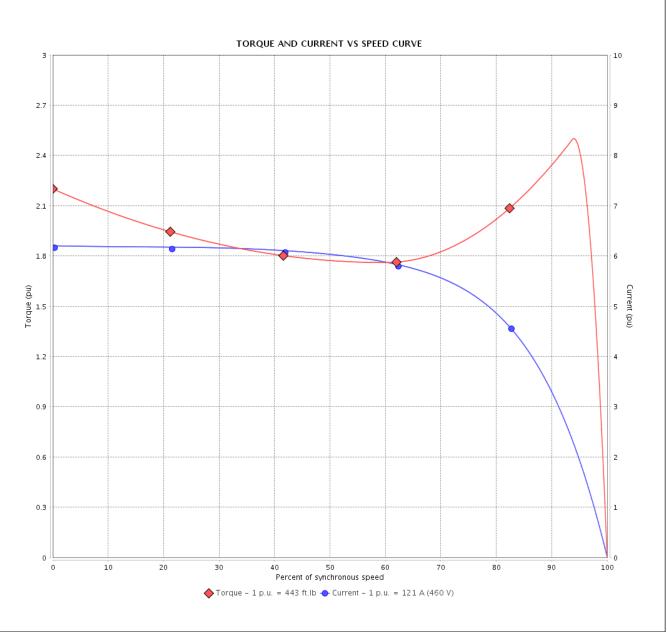


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11165650

Phase

Catalog #: 10012ET3ERB444T-W22



Performance	: 230/460 V 60 Hz 6P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 242/121 A : 6.2 : 443 ft.lb : 220 % : 250 % : 1185 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 87.3 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Locked rotor time	: 36s (cold) 20s (hot)			

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Torque (pu)

1.2

0.6

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11165650 Catalog #: 10012ET3ERB444T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1

و ا									
0	10	20 3		50 It of synchronous s	60 peed	70	80	90	100
		♦ T	orque – 1 p.u. = 400	·		(380 V)			
Performance		: 380 V 50	Hz 6P IE3						
Rated current		: 107 A		l l	of inertia (J	1)	: 87.3 s	•	
				Duty cyc	בור		: Cont.(S1)	
LRC		: 6.6		Duty Cyt) C			/	
		: 6.6 : 400 ft.lb		Insulation			: F	- ',	
LRC	ue			, ,	n class		•	- ',	
LRC Rated torque		: 400 ft.lb		Insulation Service	n class		: F	,	

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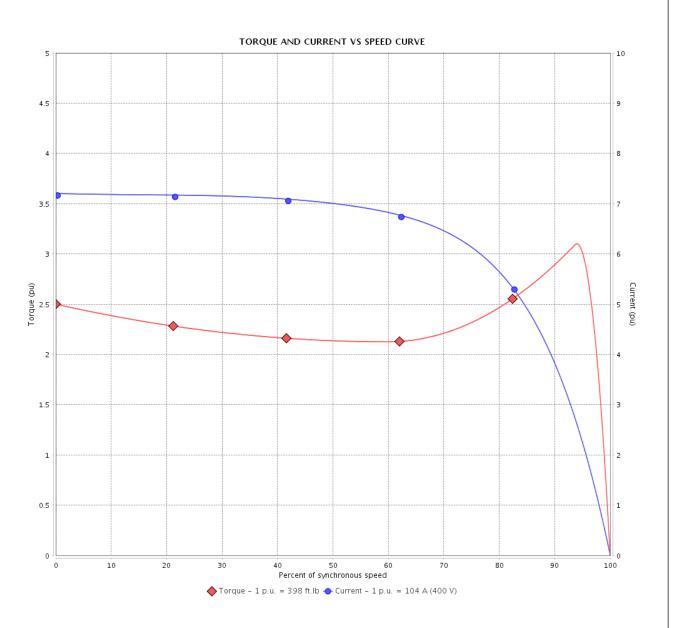


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11165650

Phase

Catalog #: 10012ET3ERB444T-W22



Performance : 400 V 50 Hz 6P IE3 Rated current : 104 A Moment of inertia (J) : 87.3 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 398 ft.lb : F Locked rotor torque : 250 % Service factor : 1.00 : 310 % Breakdown torque Temperature rise : 80 K Rated speed : 990 rpm Design : B

Locked rotor time : 27s (cold) 15s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11165650 Catalog #: 10012ET3ERB444T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 398 ft.lb ◆ Current - 1 p.u. = 102 A (415 V) Performance : 415 V 50 Hz 6P IE3 Rated current : 102 A Moment of inertia (J) : 87.3 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) : 398 ft.lb Insulation class Rated torque : F : 270 % Locked rotor torque Service factor : 1.00 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 990 rpm Design : B Locked rotor time : 27s (cold) 15s (hot) Rev. Performed Checked Date **Changes Summary**

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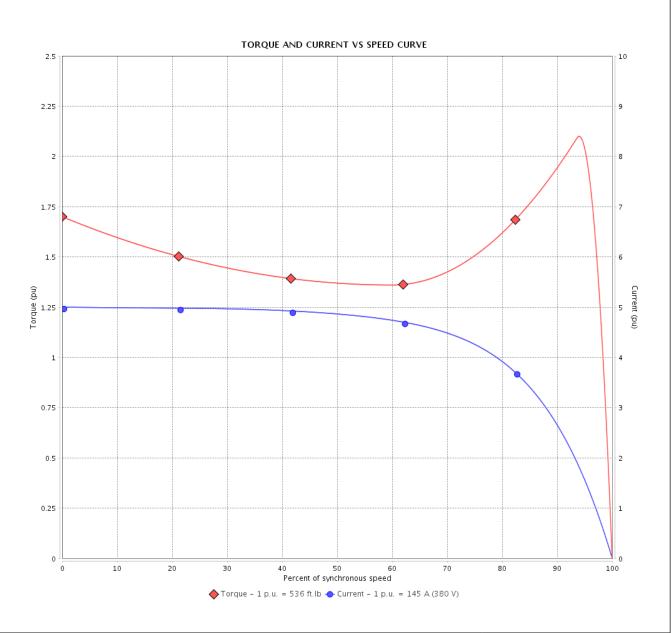
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 11165650

Catalog #: 10012ET3ERB444T-W22



Performance	: 380 V 50 Hz 6P IE1		
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 145 A : 5.0 : 536 ft.lb : 170 % : 210 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise	: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K
-			

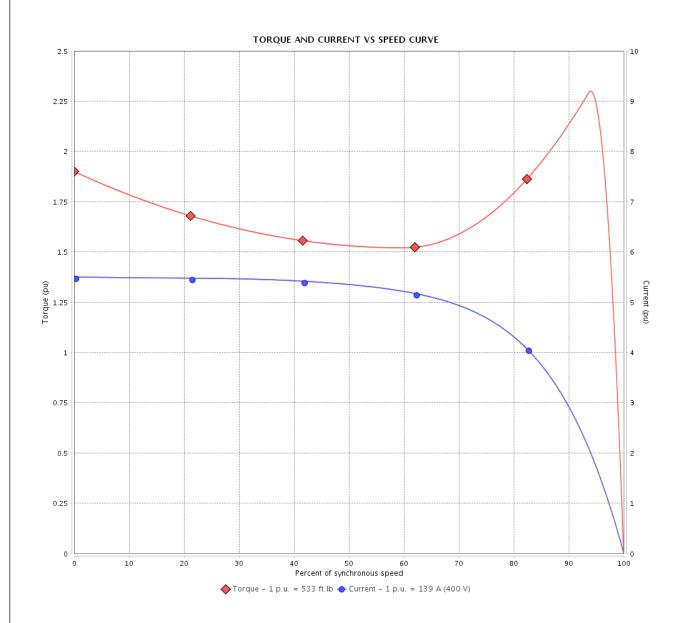
Locked rotor time : 27s (cold) 15s (hot)

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Customer Product line : NEMA Premium Efficiency Three-Product code: 11165650 Catalog #: 10012ET3ERB444T-W22



Performance	: 400 V 50 Hz 6P IE2			
Rated current	: 139 A	Moment of inertia (J)	: 87.3 sq.ft.lb	
LRC	: 5.5	Duty cycle	: Cont.(S1)	
Rated torque	: 533 ft.lb	Insulation class	: F	
Locked rotor torque	: 190 %	Service factor	: 1.00	
Breakdown torque	: 229 %	Temperature rise	: 105 K	
Rated speed	: 985 rpm	Design	: B	
Locked rotor time	: 27s (cold) 15s (hot)			

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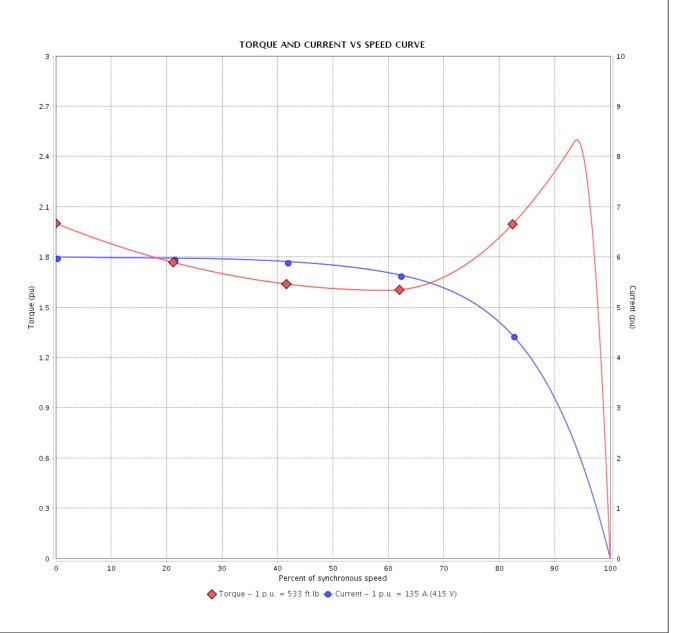


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11165650

Phase

Catalog #: 10012ET3ERB444T-W22



Performance	: 415 V 50 Hz 6P IE2		
Rated current	: 135 A	Moment of inertia (J)	: 87.3 sq.ft.lb
LRC	: 6.0	Duty cycle	: Cont.(S1)
Rated torque	: 533 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 105 K
Rated speed	: 985 rpm	Design	: B
Locked roter time	: 27s (cold) 15s (bot)		

Locked rotor time : 27s (cold) 15s (hot)

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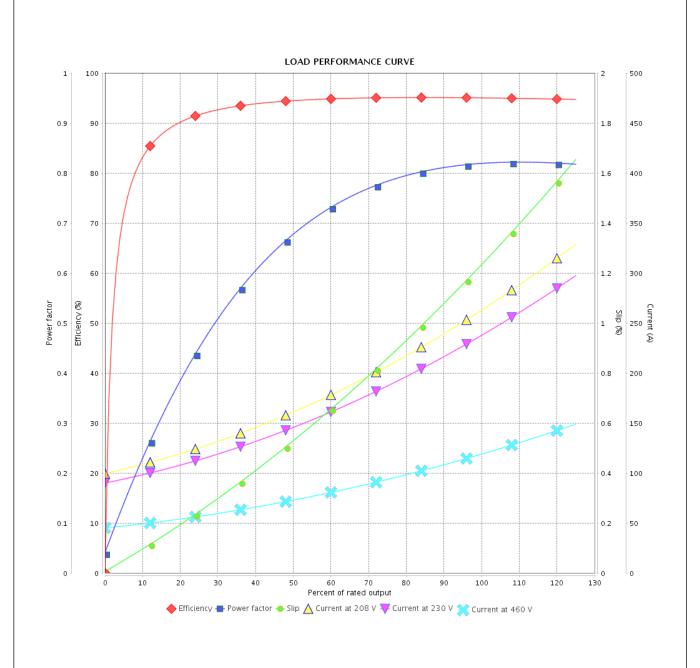


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11165650

Phase

Catalog #: 10012ET3ERB444T-W22



Performance	: 2	230/460 V 60 Hz 6P				
Rated current	ted current : 242/121 A		Moment o	f inertia (J)	: 87.3 sq.ft.lb	
LRC	: 6	3.2	Duty cycle	}	: Cont.(S1)	
Rated torque	: 4	143 ft.lb	Insulation	class	: F	
Locked rotor torque		220 %	Service fa	ctor	: 1.25	
Breakdown torque	: 2	250 %	Temperatu	Temperature rise : 80 K		
Rated speed	: 1	1185 rpm	Design		: B	
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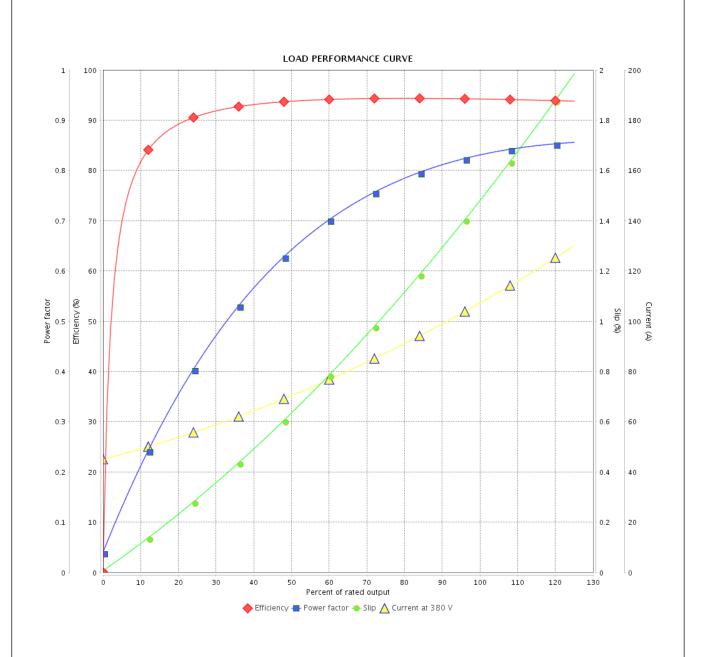
Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11165650

Phase

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Performance	: 380 V 50 Hz 6P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 107 A : 6.6 : 400 ft.lb : 229 % : 280 % : 985 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 87.3 sc : Cont.(S : F : 1.00 : 80 K : B	•
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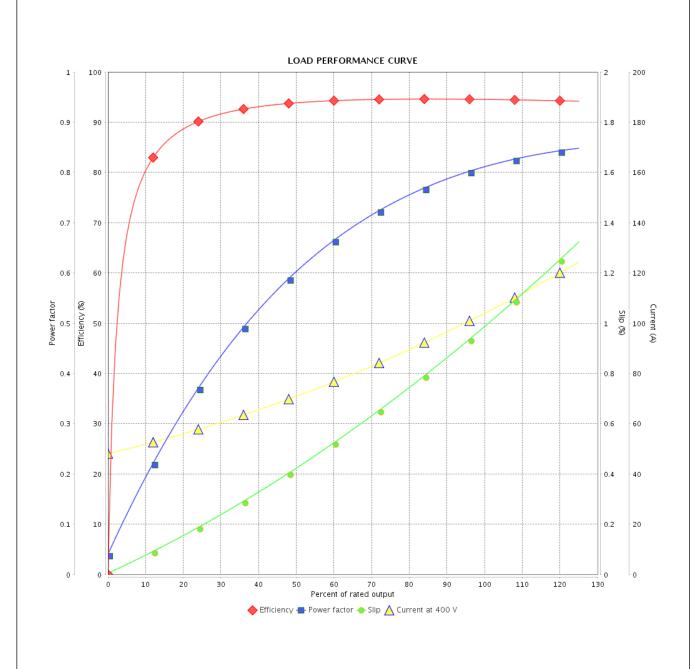


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Product line : NEMA Premium Efficiency Three- Product code : 11165650

Phase

Catalog #: 10012ET3ERB444T-W22



Performance	:	400 V 50 Hz 6P IE3				
Rated current	:	104 A	Moment o	f inertia (J)	: 87.3 sq.ft.lb	
LRC	:	7.2	Duty cycle	;	: Cont.(S1)	
Rated torque	:	398 ft.lb	Insulation	class	: F	
Locked rotor torque	:	250 %	Service fa	Service factor : 1.00 Temperature rise : 80 K		
Breakdown torque	:	310 %	Temperati			
Rated speed	:	990 rpm	Design		: B	
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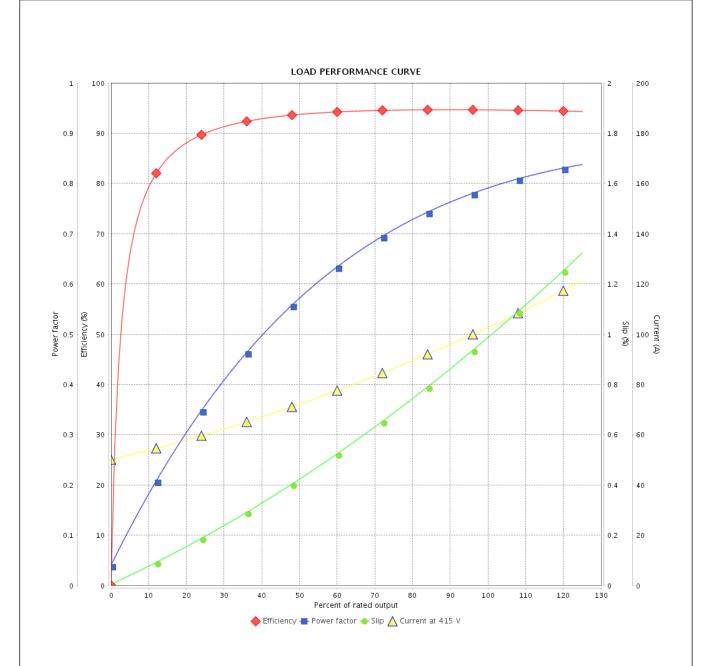
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Performance		: 415 V 50 Hz	6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 102 A : 7.7 : 398 ft.lb : 270 % : 340 % : 990 rpm		Moment of Duty cycle Insulation Service far Temperation Design	class ctor	: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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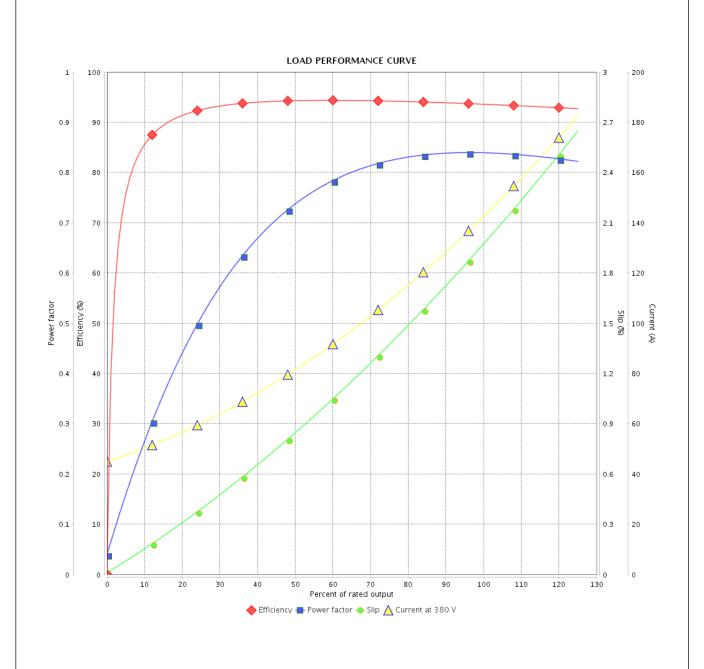
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 11165650

Catalog #: 10012ET3ERB444T-W22



Performance	: 3	80 V 50 Hz 6P IE1				
Rated current	ated current : 145 A		Moment o	f inertia (J)	: 87.3 sq.ft.lb	
LRC	: 5	.0	Duty cycle)	: Cont.(S1)	
Rated torque	: 5	36 ft.lb	Insulation	class	: F	
Locked rotor torque		70 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	10 %	Temperati	Temperature rise : 105 K		
Rated speed	: 9	80 rpm	Design		: B	
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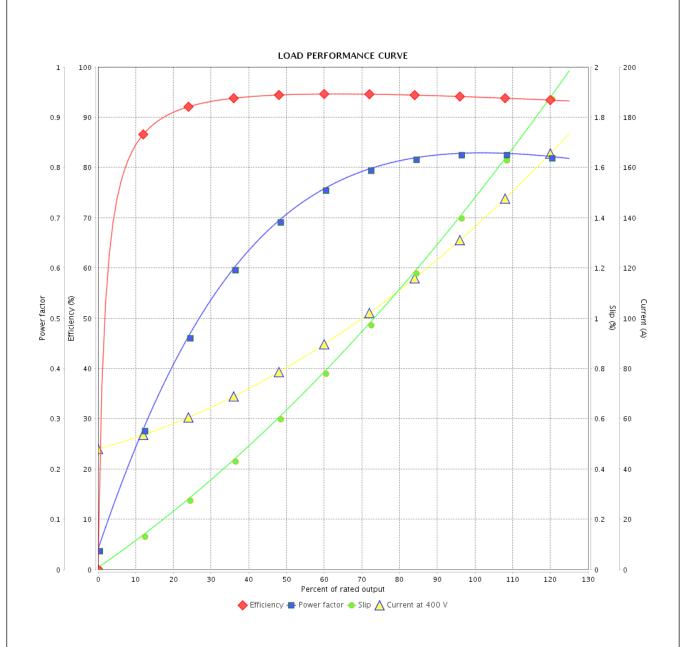
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Performance	: 4	00 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5 : 5 : 5 : 5 : 1 : 2	39 A 5.5 333 ft.lb 90 % 229 % 85 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ector	: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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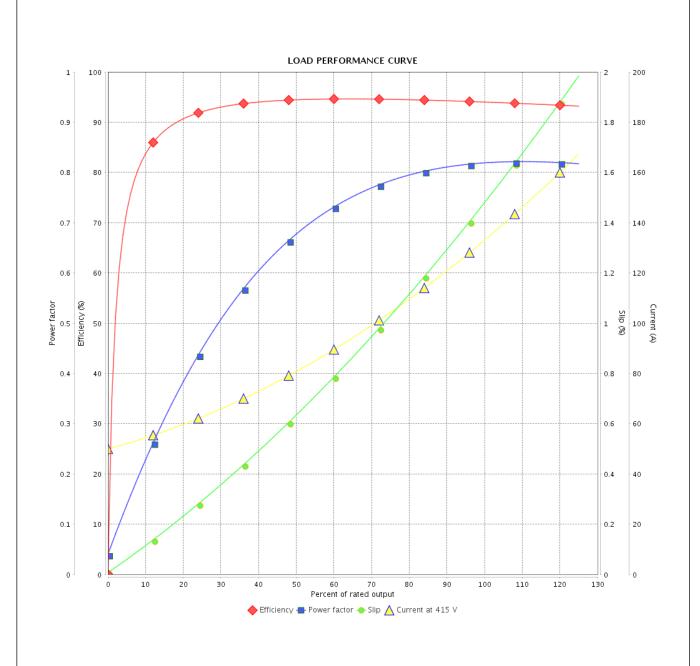


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11165650

Phase

Catalog #: 10012ET3ERB444T-W22



Performance	: 4	15 V 50 Hz 6P IE2	2			
Rated current	: 1	: 135 A Moment o		f inertia (J)	: 87.3 sq.ft.lb	
LRC	: 6	5.0	Duty cycle)	: Cont.(S1)	
Rated torque	: 5	33 ft.lb	Insulation	class	: F	
Locked rotor torqu	Locked rotor torque : 200 %		Service fa	ctor	: 1.00	
Breakdown torque	: 2	50 %	Temperatu	Temperature rise : 105 K		
Rated speed	: 9	85 rpm	Design		: B	
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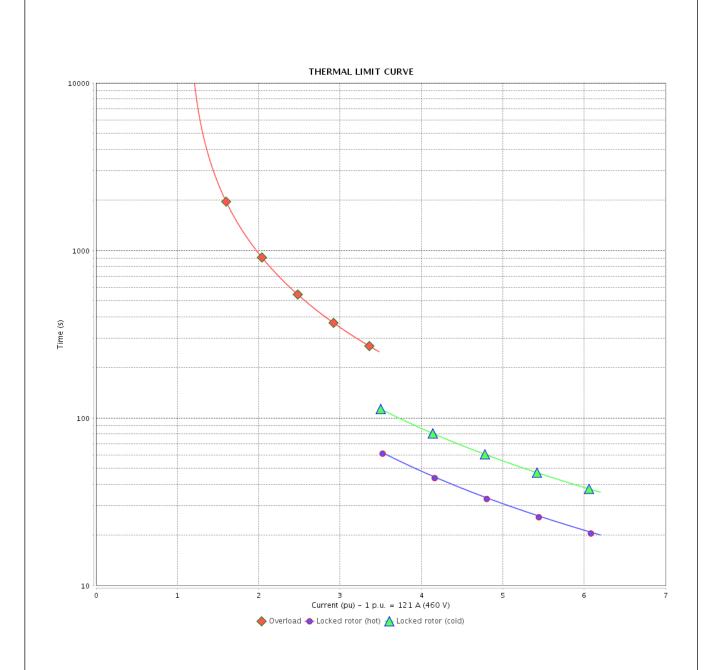


Customer	:				
Product line	: NEMA Premium Efficiency T Phase	Three- F	Product code :	11165650	
	1 11000	(Catalog # :	10012ET3ERI	B444T-W22
Performance	: 230/460 V 60 Hz 6P				
Rated current		Moment of	inertia (J)	: 87.3 sq.ft.lb	
LRC		Duty cycle	-1	: Cont.(S1)	
Rated torque Locked rotor torque		Insulation of Service fac		: F : 1.25	
Breakdown torque	: 250 %	Temperatu		: 80 K	
Rated speed	: 1185 rpm	Design		: B	
Heating constant					
Cooling constant		T			
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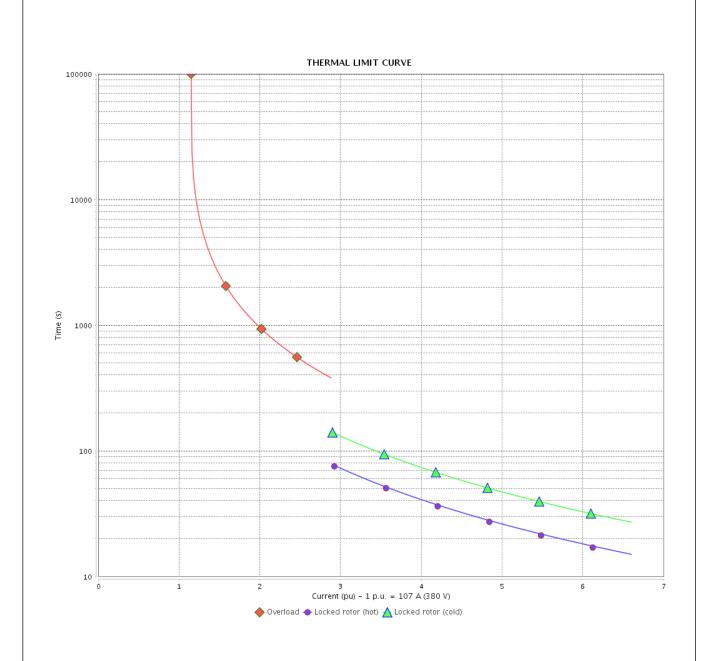


Customer		:				
Product line		: NEMA Premium Efficiency [*] Phase		Product code :	11165650 10012ET3EF	RB444T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed Heating constant Cooling constant	: : : : : : : : :	380 V 50 Hz 6P IE3 107 A 6.6 400 ft.lb 229 % 280 % 985 rpm Changes Summary	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	Date
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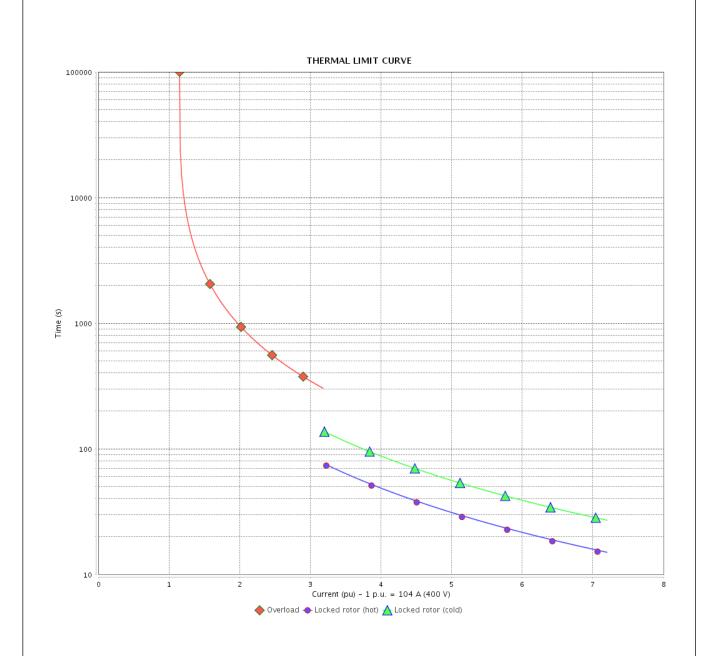


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11165650 10012ET3ERI	3444T W22
					10012213210	J7771-VVZZ
Performance		: 400 V 50 Hz 6P IE3				
Rated current LRC		: 104 A : 7.2	Moment of Duty cycle	of inertia (J)	: 87.3 sq.ft.lb : Cont.(S1)	
Rated torque		: 398 ft.lb	Insulation	class	: F	
Locked rotor tord		: 250 %	Service fa		: 1.00	
Breakdown torqu Rated speed		: 310 % : 990 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constan						
Cooling constant						
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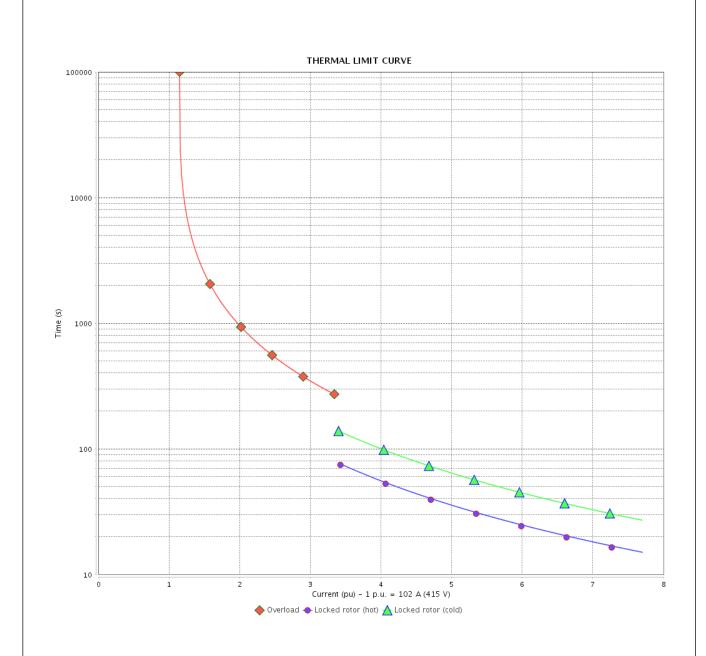


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	11165650	
				Catalog # :	10012ET3ERI	B444T-W22
Performance		: 415 V 50 Hz 6P IE3			07.0 6.11	
Rated current LRC		: 102 A : 7.7	Moment o	of inertia (J) e	: 87.3 sq.ft.lb : Cont.(S1)	
Rated torque		: 398 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 270 % : 340 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 990 rpm	Design	a. 5 1100	: B	
Heating constan	t					
Cooling constant						
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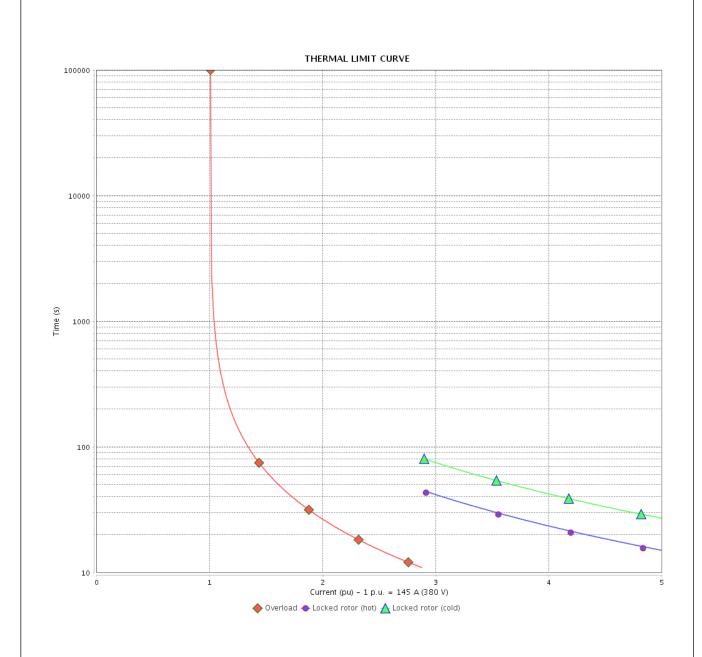


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11165650 10012ET3EF	B444T-W22
Performance		380 V 50 Hz 6P IE1				
Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: : que :	145 A 5.0 536 ft.lb 170 % 210 % 980 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant						
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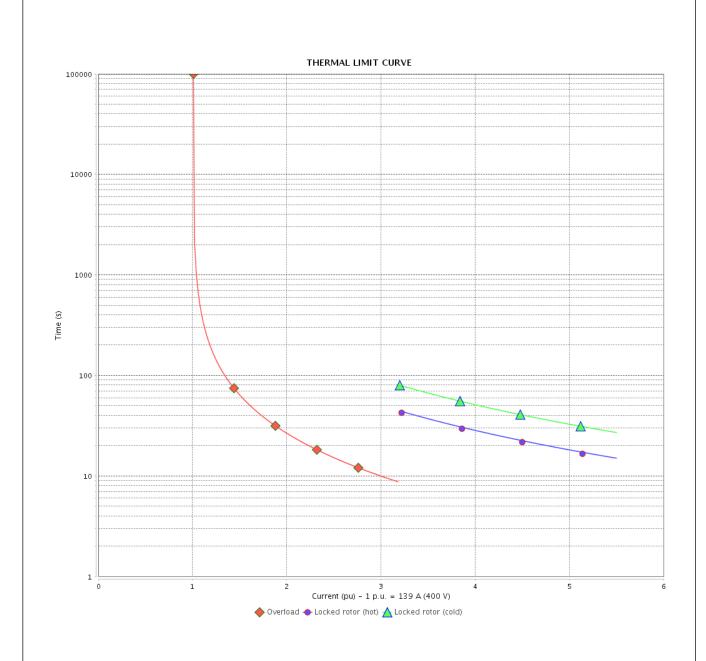


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11165650 10012ET3ERI	B444T-W22
Performance		: 400 V 50 Hz 6P IE2	I			
Rated current LRC		: 139 A : 5.5	Duty cycle		: 87.3 sq.ft.lb : Cont.(S1)	
Rated torque		: 533 ft.lb : 190 %	Insulation Service fa	class	: F : 1.00	
Locked rotor tord Breakdown torqu		: 190 % : 229 %	Temperat		: 1.00 : 105 K	
Rated speed		: 985 rpm	Design		: B	
Heating constan						
Cooling constant	Ţ.	Changes Summary		Performed	Checked	Date
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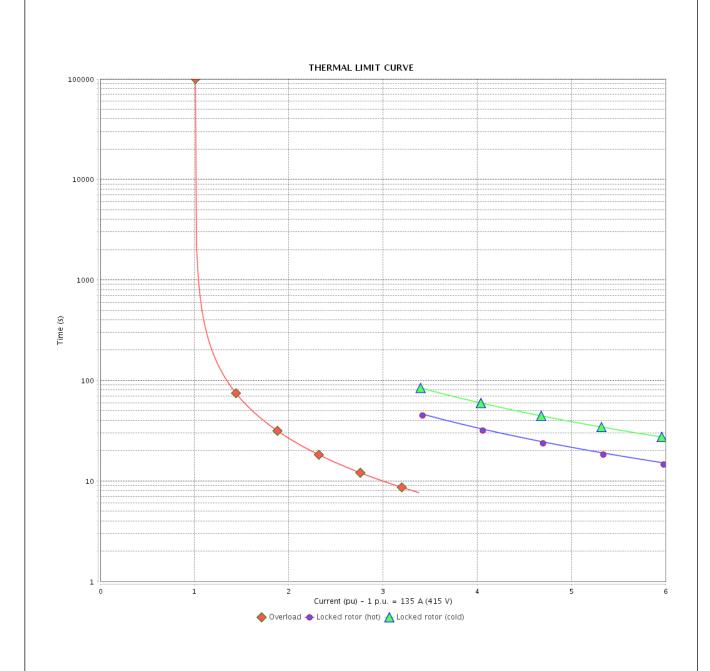


Customer		:				
Product line		: NEMA Premium Efficiency [*] Phase		Product code : Catalog # :	11165650 10012ET3EF	RB444T-W22
Performance	:	415 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: que : ue :	135 A 6.0 533 ft.lb 200 % 250 % 985 rpm	Moment o Duty cycle Insulation Service fa Temperate Design	class ctor	: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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Date

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Product line : NEMA Premium Efficiency Three-

Phase

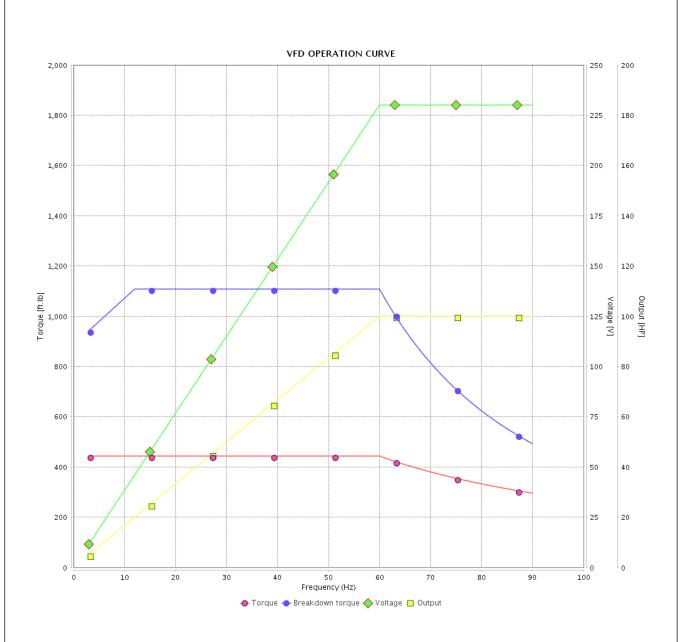
Product code: 11165650

Catalog #: 10012ET3ERB444T-W22

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Performance	: 230/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 242/121 A : 6.2 : 443 ft.lb : 220 % : 250 % : 1185 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 87.3 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
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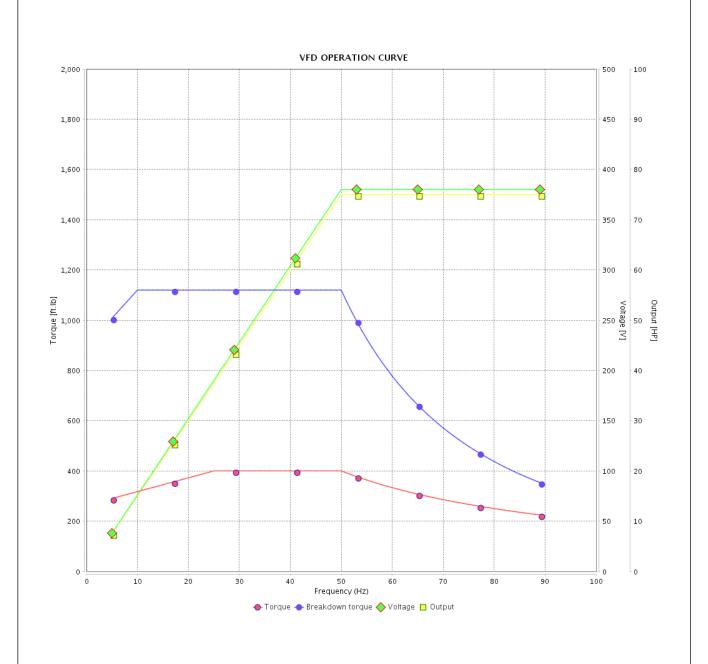
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

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11165650



Dorformonoo	. 20	00 V 50 H= 6D IE3				
Performance	. 30	80 V 50 Hz 6P IE3				
Rated current	: 10	07 A	Moment o	f inertia (J)	: 87.3 sq.ft.lb	
LRC	: 6.	.6	Duty cycle	;	: Cont.(S1)	
Rated torque	: 40	00 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 22	29 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 28	80 %	Temperati	ıre rise	: 80 K	
Rated speed	: 98	85 rpm	Design		: B	
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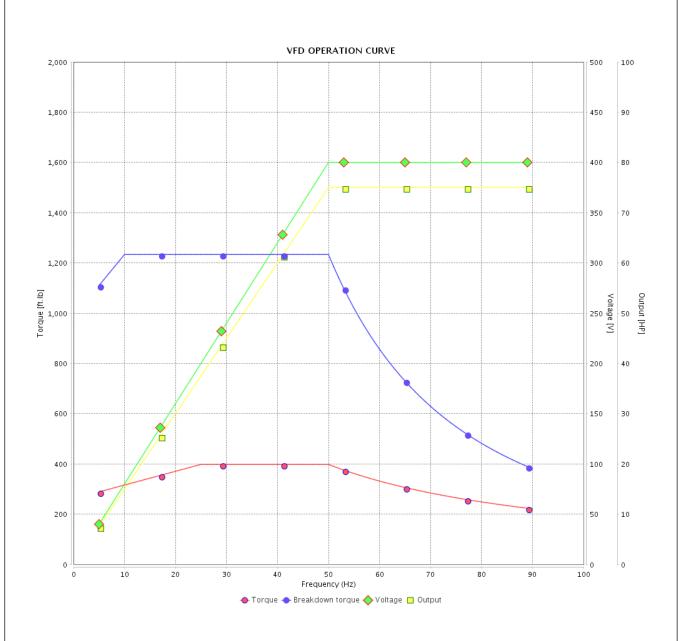
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11165650

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Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 104 A : 7.2 : 398 ft.lb : 250 % : 310 % : 990 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class actor	: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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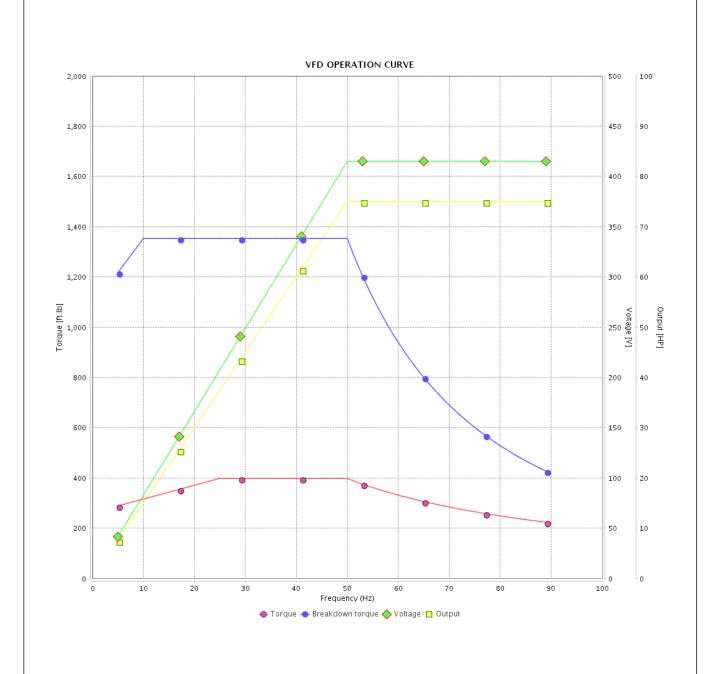


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Product line : NEMA Premium Efficiency Three- Product code : 11165650

Phase

Catalog #: 10012ET3ERB444T-W22



Performance	:	: 415 V 50 Hz 6P IE3						
Rated current	:			of inertia (J)	: 87.3 sq.ft.lb			
LRC	:			Э	: Cont.(\$1) : F : 1.00			
Rated torque	:			class				
Locked rotor tord	que :			actor				
Breakdown torqu	ie :			ure rise	: 80 K			
Rated speed	:			Design				
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Product line : NEMA Premium Efficiency Three-

Phase

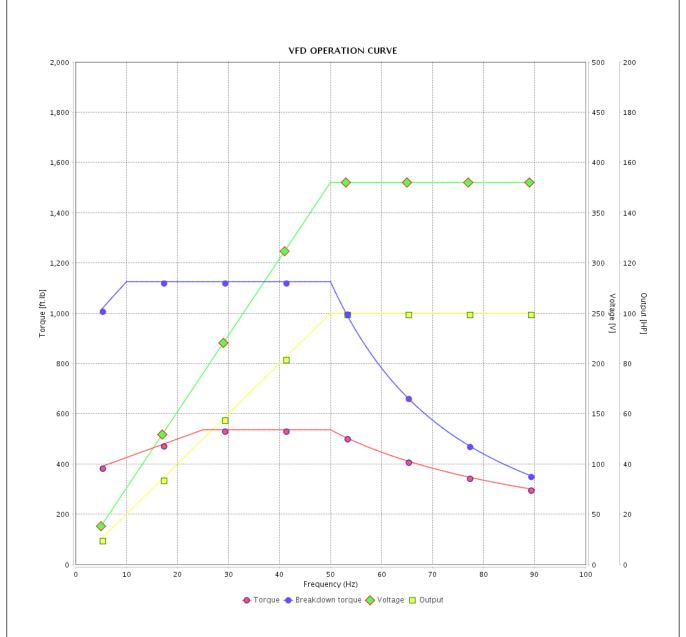
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Performance	: 380 V 50 Hz 6P IE1						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 145 A : 5.0 : 536 ft.lb : 170 % : 210 % : 980 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B			
Rev.	Changes Summary		Performed	Checked	Date		
Performed by							

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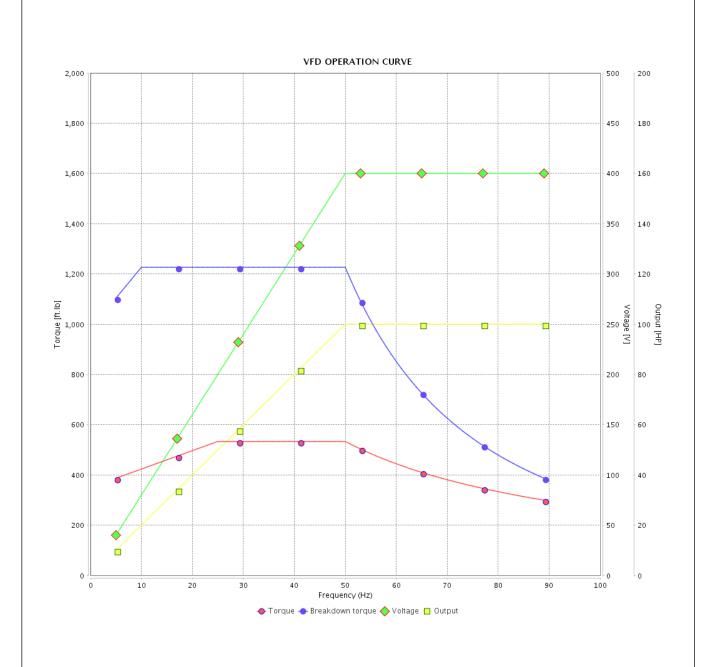


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Product line : NEMA Premium Efficiency Three- Product code : 11165650

Phase

Catalog #: 10012ET3ERB444T-W22



Performance		00 V 50 Hz 6P IE2	2				
Rated current	: 13	Moment of inertia (J)		: 87.3 sq.ft.lb			
LRC	: 5.	.5	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque	: 50	533 ft.lb Insulation		class	: F : 1.00		
Locked rotor torqu	ie : 19	190 % Service factor 229 % Temperature rise	ctor				
Breakdown torque	: 22		Temperati	ure rise	: 105 K		
Rated speed	: 985 rpm		Design	Design			
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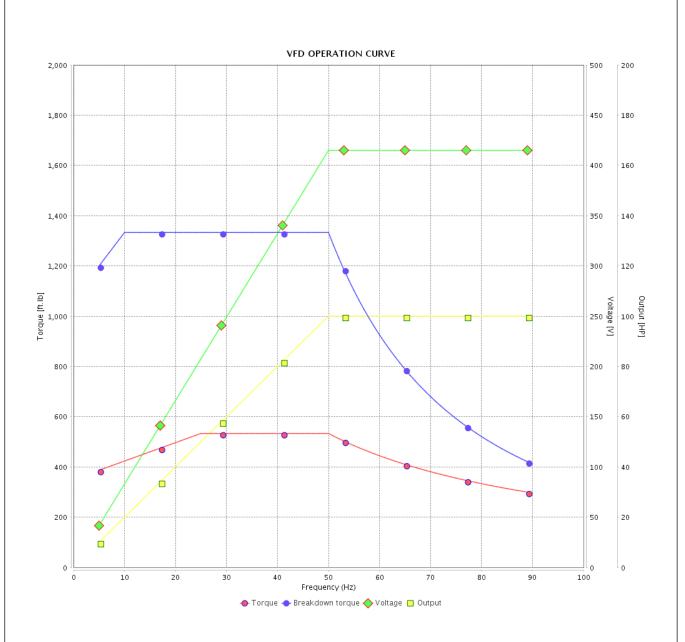
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11165650

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Performance	: 415 V 50 Hz 6P IE2						
Rated current	: 135 A	Moment of inertia (J)		: 87.3 sq.ft.lb			
LRC	: 6.0	Duty cycle Insulation class Service factor Temperature rise Design		: Cont.(S1)			
Rated torque	: 533 ft.lb			: F : 1.00 : 105 K			
Locked rotor torque	: 200 %						
Breakdown torque	: 250 %						
Rated speed	: 985 rpm			: B			
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