DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11355339

Phase

Catalog #: 10012ET3E444T-W22

Frame : 444/5T Cooling method : IC411 - TEFC

Insulation class : F Mounting : 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. weight³ : 1666 lb

Protection degree : IP55 | Moment of inertia (J) : 87.3 sq.ft.lb

Design		: B						
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	6.6x(Code	7.2x(Code H)	7.7x(Code J)	5.0x(Code E)	5.5x(Code F)	6.0x(Code
		G)	G)					G)
No load current [A	•	90.0/45.0	45.0	48.0	50.0	45.0	48.0	50.0
Rated speed [RPN	Л]	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		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
Lincicrity (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
1 OWEN TACKON	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

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

Bearing type : 6319 C3 6316 C3 Max. traction : 2720 lb Sealing : WSeal WSeal Max. compression : 4386 lb Lubrication interval : 13000 h

Lubricant amount : 45 g 34 g Lubricant type : Mobil Polyrex EM

Notes

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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Three Phase Induction Motor - Squirrel Cage

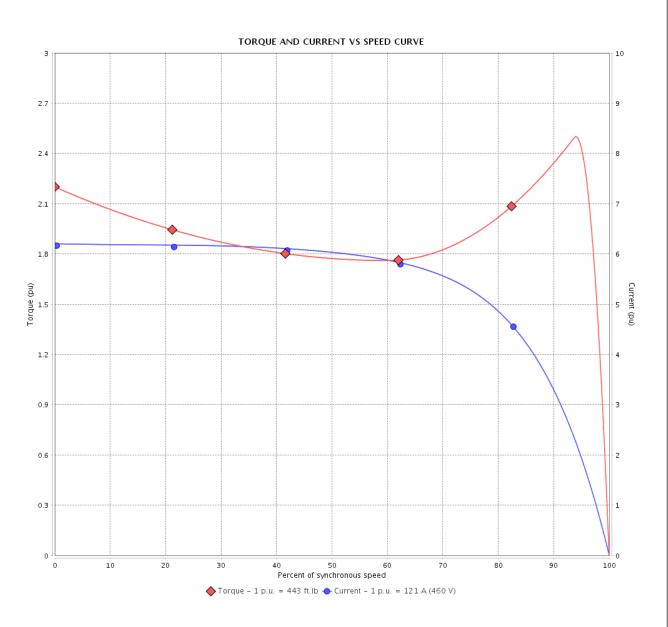


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 10012ET3E444T-W22

11355339



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

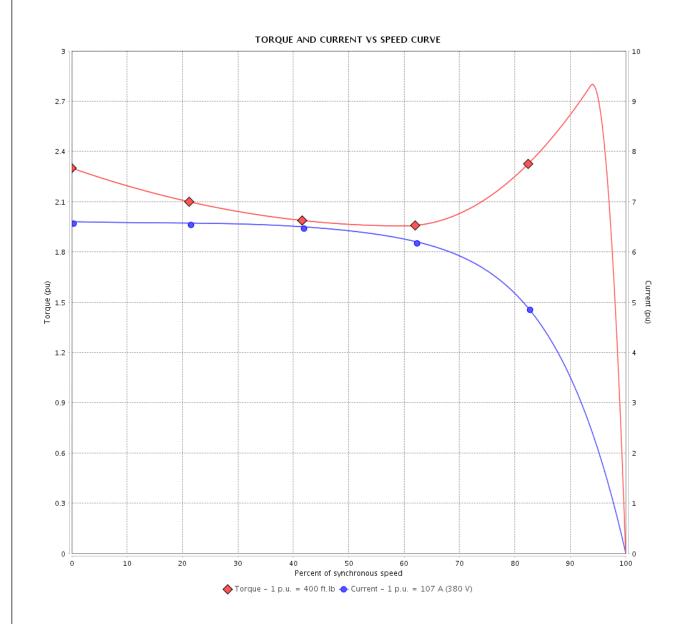
: 36s (cold) 20s (hot)

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Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11355339 Catalog #: 10012ET3E444T-W22



Performance : 380 V 50 Hz 6P IE3 Rated current : 107 A Moment of inertia (J) : 87.3 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) : 400 ft.lb Insulation class Rated torque : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 985 rpm Design : B Locked rotor time : 27s (cold) 15s (hot)

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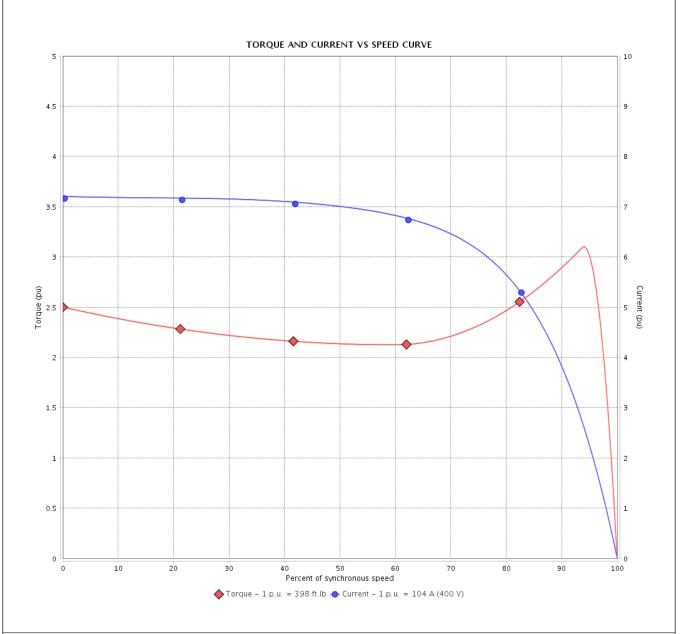
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11355339

Catalog #: 10012ET3E444T-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)
Rated torque	: 398 ft.lb	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 990 rpm	Design	: B
Looked reter time	: 27a (aald) 15a (bat)		

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: 11355339 Catalog #: 10012ET3E444T-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** Performed by

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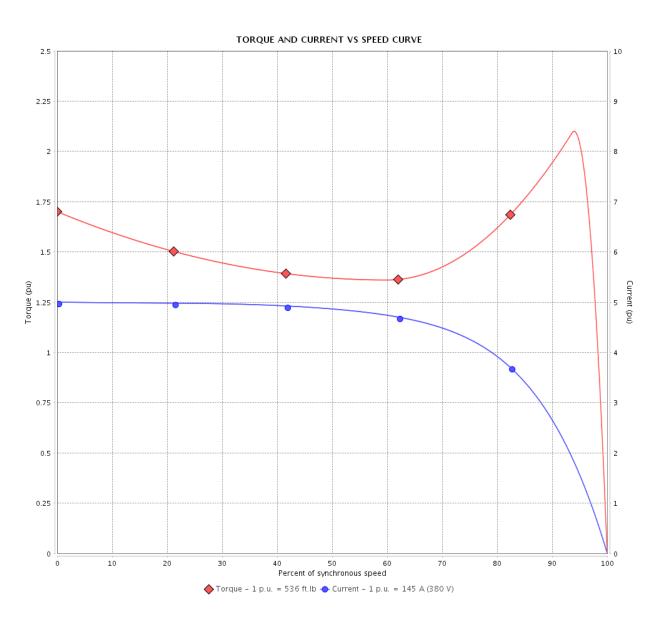


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11355339

Phase

Catalog #: 10012ET3E444T-W22



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

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

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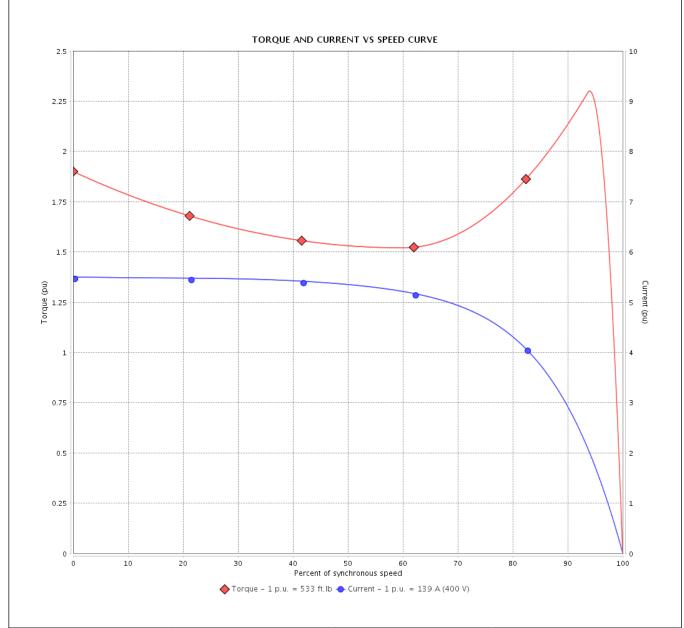


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 11355339

Catalog #: 10012ET3E444T-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) Insulation class Rated torque : 533 ft.lb : 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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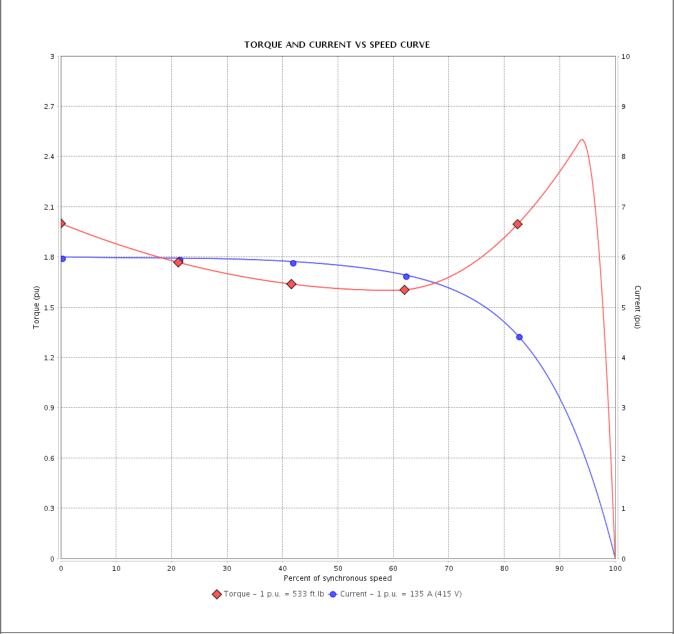
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11355339

Catalog #: 10012ET3E444T-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) Insulation class Rated torque : 533 ft.lb : F Service factor Locked rotor torque : 200 % : 1.00 Breakdown torque : 250 % Temperature rise : 105 K Rated speed : 985 rpm Design : B

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

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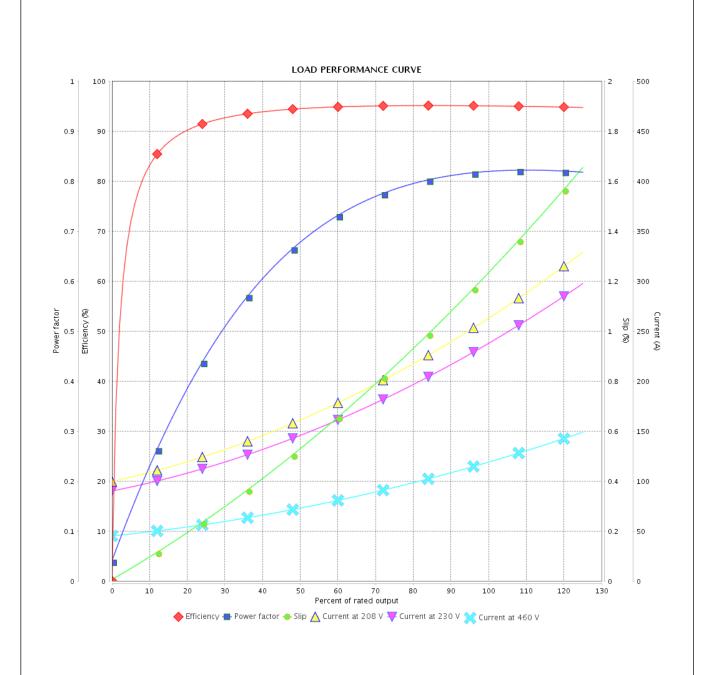
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 10012ET3E444T-W22

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Performance	: 2	230/460 V 60 Hz 6P				
Rated current	: 2	242/121 A	Moment o	f inertia (J)	: 87.3 sq.ft.lb	
LRC	: 6	5.2	Duty cycle	:	: Cont.(S1)	
Rated torque	: 4	43 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	220 %	Service fa	ctor	: 1.25	
Breakdown torque		250 %	Temperatu	Temperature rise		
Rated speed	: 1	185 rpm	Design		: B	
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Phase

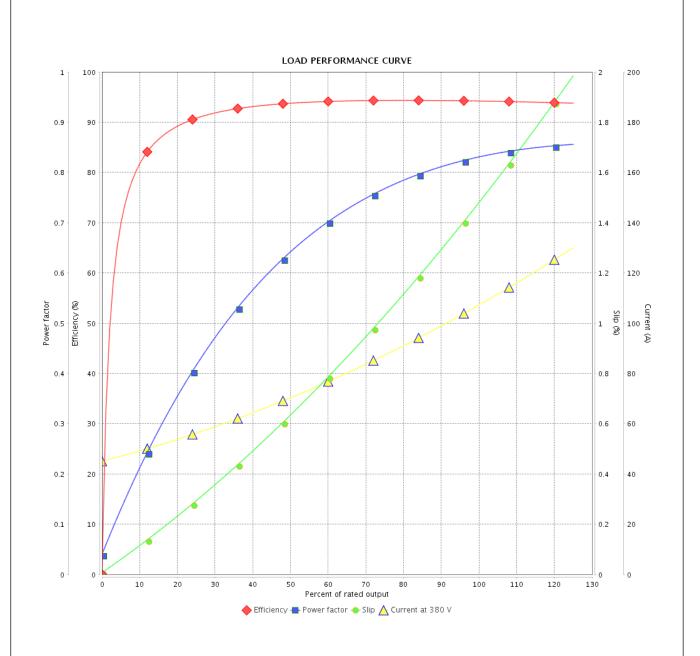
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Performance	: 3	80 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 4 que : 2 ue : 2	07 A .6 00 ft.lb 29 % 80 % 85 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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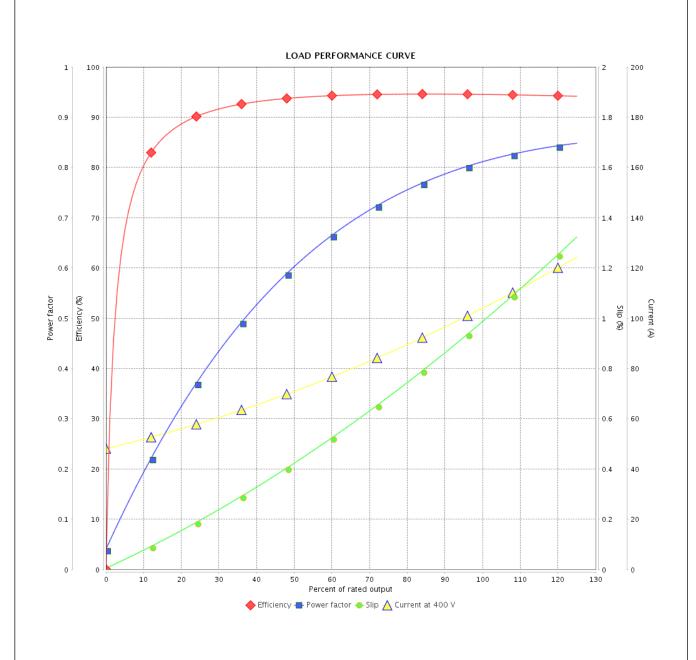
Customer

Product line : NEMA Premium Efficiency Three- Product code :

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Performance	: 40	100 V 50 Hz 6P IE3				
Rated current : 104 A		Moment o	Moment of inertia (J)			
LRC	: 7.	.2	Duty cycle)	: Cont.(S1)	
Rated torque	: 3	98 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	50 %	Service fa	ctor	: 1.00	
Breakdown torque	: 3	10 %	Temperature rise		: 80 K	
Rated speed	: 99	90 rpm	Design		: B	
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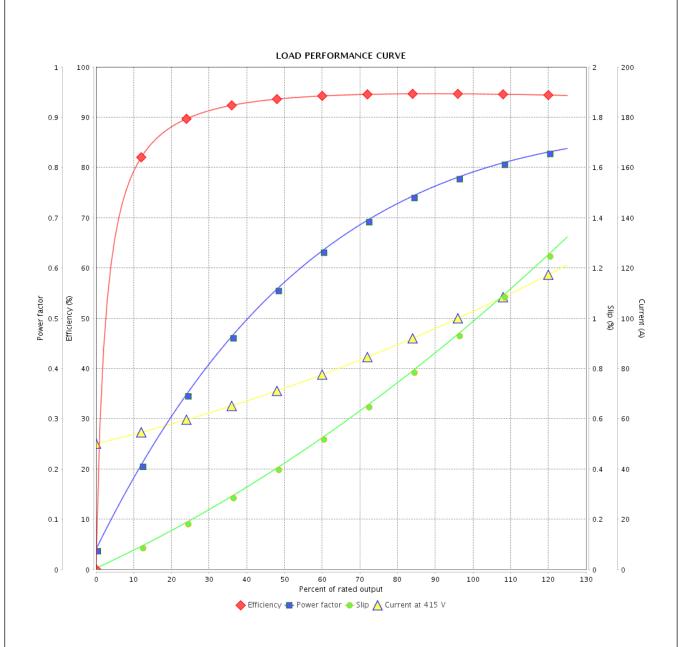
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Product code: 11355339

Catalog #: 10012ET3E444T-W22



Performance		: 415 V 50 Hz 6P IE	3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 102 A : 7.7 : 398 ft.lb : 270 % : 340 % : 990 rpm	Duty cycle : Insulation class : Service factor : Temperature rise :		: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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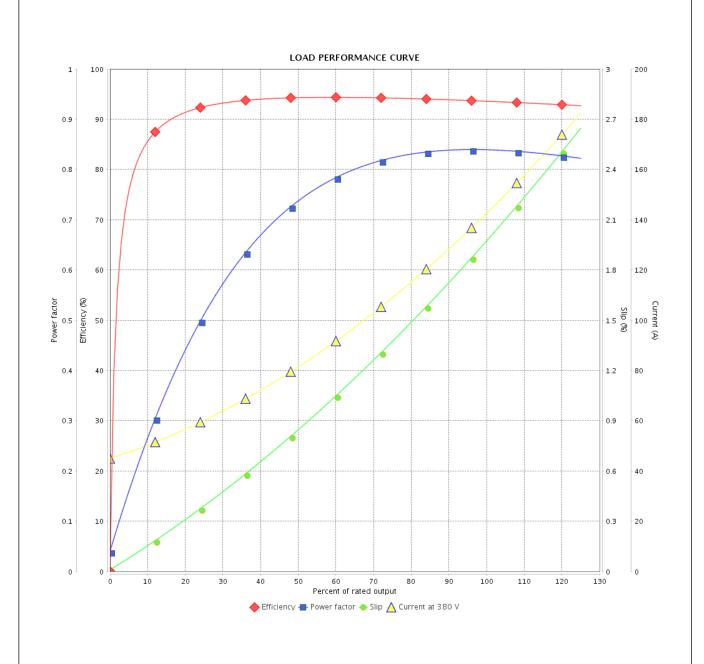
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance	٠ ٦	380 V 50 Hz 6P IE1			·	
Rated current	: 1	145 A	Moment o	f inertia (J)	: 87.3 sq.ft.lb	
LRC	: 5	5.0	Duty cycle	;	: Cont.(S1)	
Rated torque	: 5	536 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 1	170 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	210 %	Temperature rise		: 105 K	
Rated speed	: 9	980 rpm Design			: B	
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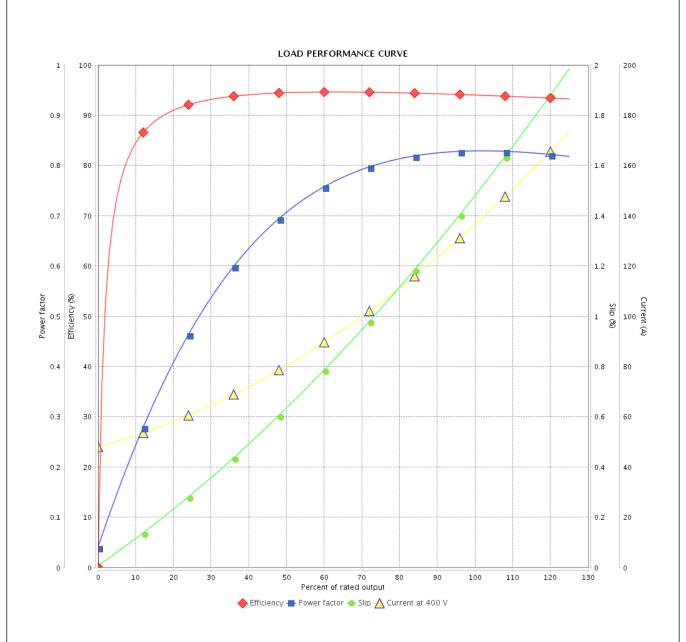
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11355339

Catalog #: 10012ET3E444T-W22



Performance	: 400 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 139 A : 5.5 : 533 ft.lb : 190 % : 229 % : 985 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	class tor	: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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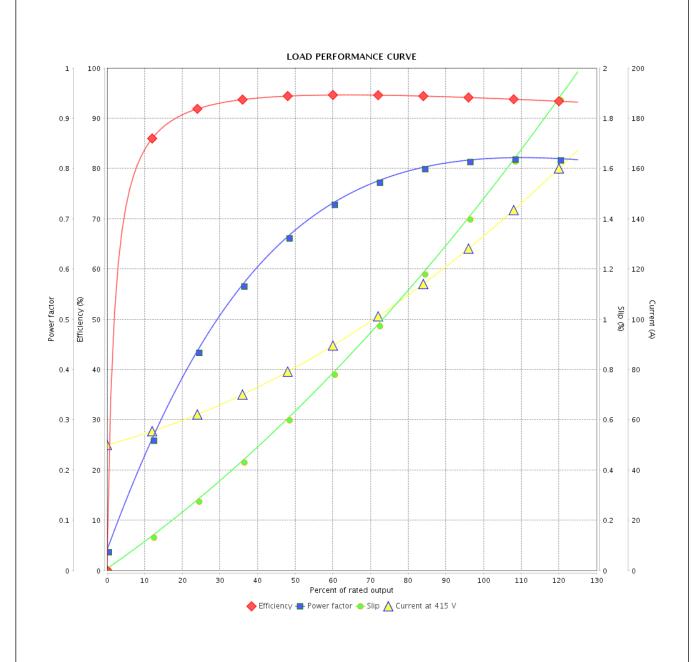
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Phase

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Dowformon	. 445 V 50 H= CD IE2	,			
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 c	lass	: F	
Locked rotor torque	: 200 %	Service factor Temperature rise		: 1.00	
Breakdown torque	: 250 %			: 105 K	
Rated speed	: 985 rpm	Design	Design		
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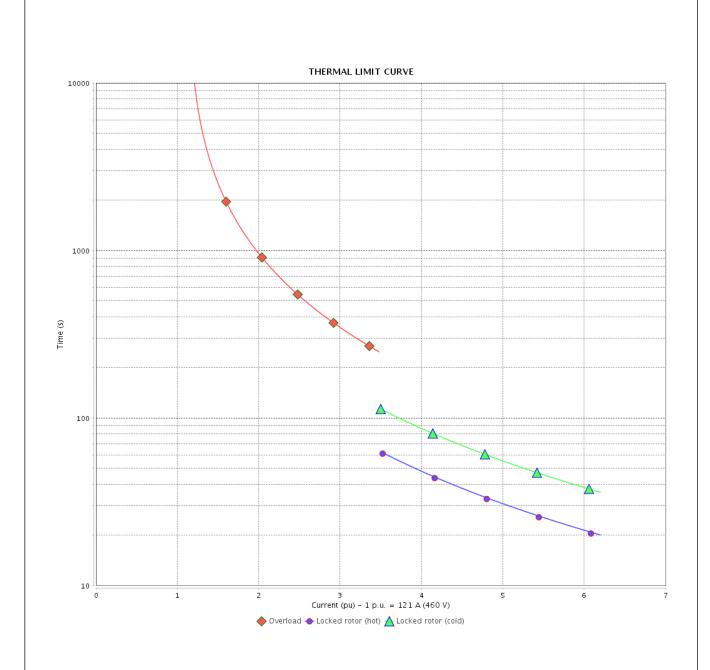


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Product line		NEMA Premium Efficiency	Three-	Product code :	11355339	
	P	hase		Catalog # :	10012ET3E44	14T-W22
D. (20/400 / 400 / 400				
Performance Rated current		30/460 V 60 Hz 6P 42/121 A	Moment o	f inertia (J)	: 87.3 sq.ft.lb	
LRC	: 6.	2	Duty cycle	;	: Cont.(S1)	
Rated torque Locked rotor torqu		43 ft.lb 20 %	Insulation Service fa		: F : 1.25	
Breakdown torque	: 25	50 %	Temperatu		: 80 K	
Rated speed	: 1 1	185 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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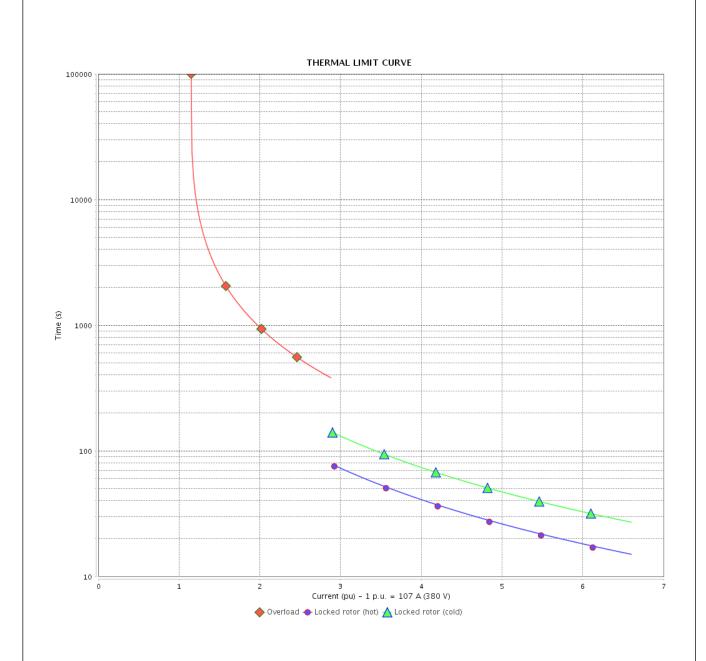


Customer	:			,	
Product line	: NEMA Premium Efficiency	Three-	Product code :	11355339	
	Phase		Catalog # :	10012ET3E4	44T-W22
Performance	: 380 V 50 Hz 6P IE3				
Rated current	: 107 A	Moment o	f inertia (J)	: 87.3 sq.ft.lb	
LRC Rated torque	: 6.6 : 400 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torque	: 229 %	Service fa	ctor	: 1.00	
Breakdown torque Rated speed	: 280 % : 985 rpm	Temperati Design	ure rise	: 80 K : B	
		2001911			
Heating constant Cooling constant					
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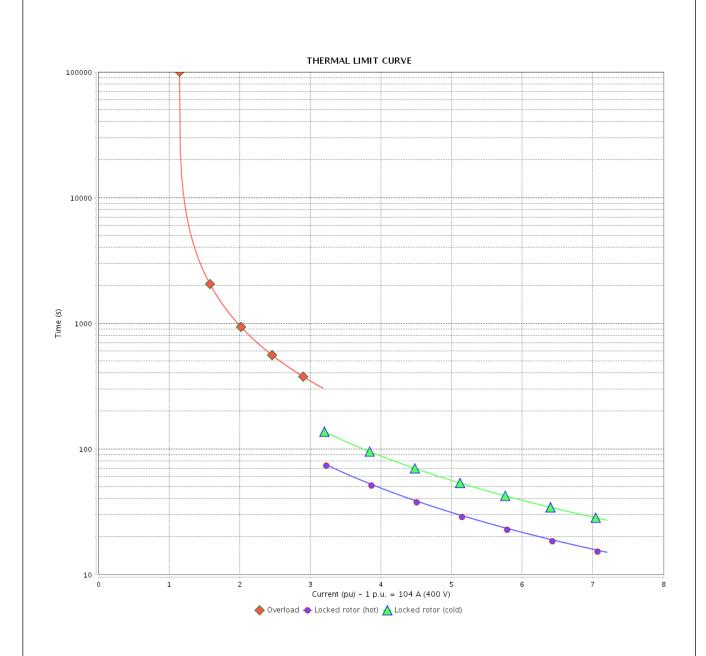


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	11355339	
	Pl	hase	(Catalog # :	10012ET3E44	I4T-W22
Performance	: 40	00 V 50 Hz 6P IE3				
Rated current	: 10	04 A	Moment of	f inertia (J)	: 87.3 sq.ft.lb	
LRC Rated torque	: 7. : 39	2 98 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torqu	ie : 25	50 %	Service fa	ctor	: 1.00	
Breakdown torque Rated speed		10 % 90 rpm	Temperatu Design	ıre rise	: 80 K : B	
Heating constant		 -			- -	
Cooling constant						
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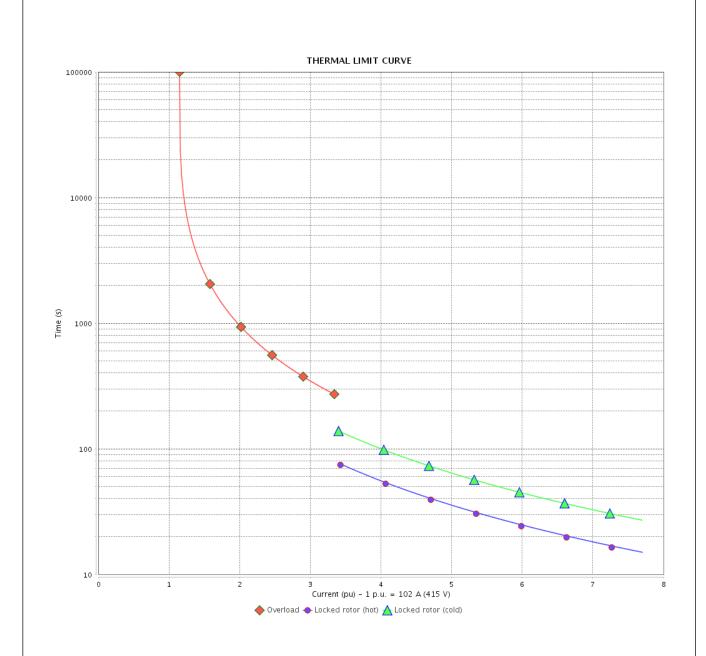


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Customer	:			
Product line	: NEMA Premium Efficiency ⁻ Phase		11355339	
		Catalog # :	10012ET3E4	14 1-VVZZ
Performance	: 415 V 50 Hz 6P IE3			
Rated current LRC	: 102 A : 7.7	Moment of inertia (J) Duty cycle	: 87.3 sq.ft.lb : Cont.(S1)	
Rated torque	: 398 ft.lb	Insulation class	: F	
Locked rotor torque	: 270 %	Service factor	: 1.00	
Breakdown torque Rated speed	: 340 % : 990 rpm	Temperature rise Design	: 80 K : B	
	P	- J		
Heating constant Cooling constant				
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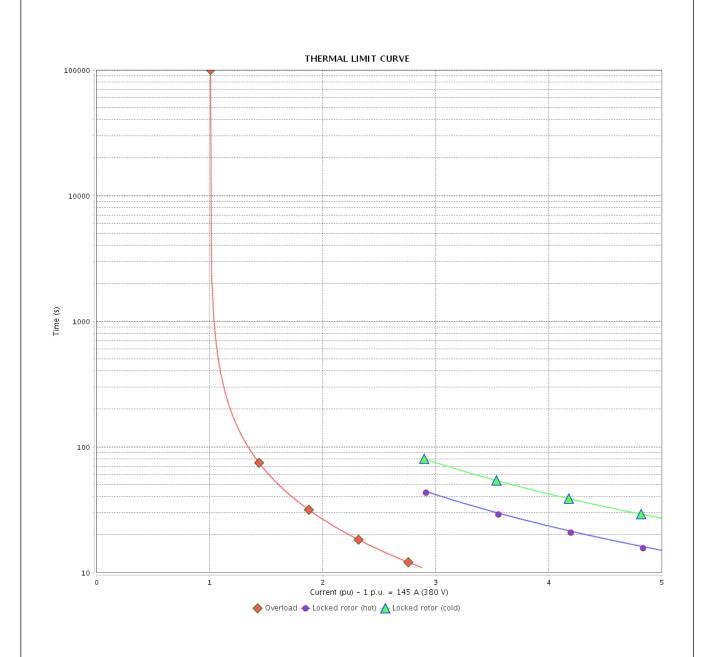


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	11355339	
	P	hase		Catalog # :	10012ET3E44	14T-W22
Performance	: 38	80 V 50 Hz 6P IE1				
Rated current	: 14	45 A	Moment o	f inertia (J)	: 87.3 sq.ft.lb	
LRC Rated torque	: 5. · 5:	0 36 ft.lb	Duty cycle Insulation	;	: Cont.(S1) : F	
Locked rotor torq	ue : 17	70 %	Service fa	ctor	: 1.00	
Breakdown torqu Rated speed		10 % 30 rpm	Temperatu Design	ıre rise	: 105 K : B	
Heating constant		r				
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



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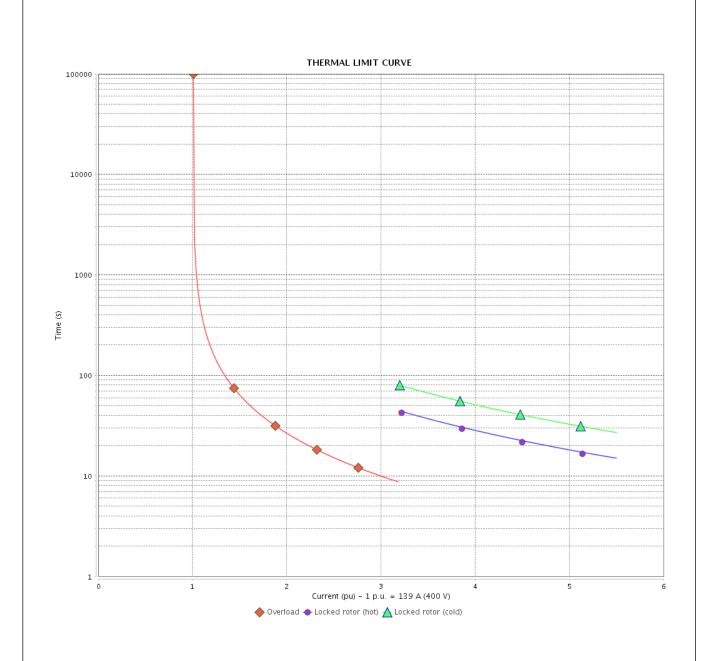


Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	11355339	
		That		Catalog # :	10012ET3E44	4T-W22
Performance		400 V 50 Hz 6P IE2				
Rated current		139 A	Moment o	f inertia (J)	: 87.3 sq.ft.lb	
LRC		5.5 533 ft.lb	Duty cycle Insulation)	: Cont.(S1) : F	
Rated torque Locked rotor torque		190 %	Service fa		. г : 1.00	
Breakdown torque	e :	229 %	Temperati	ure rise	: 105 K	
Rated speed		985 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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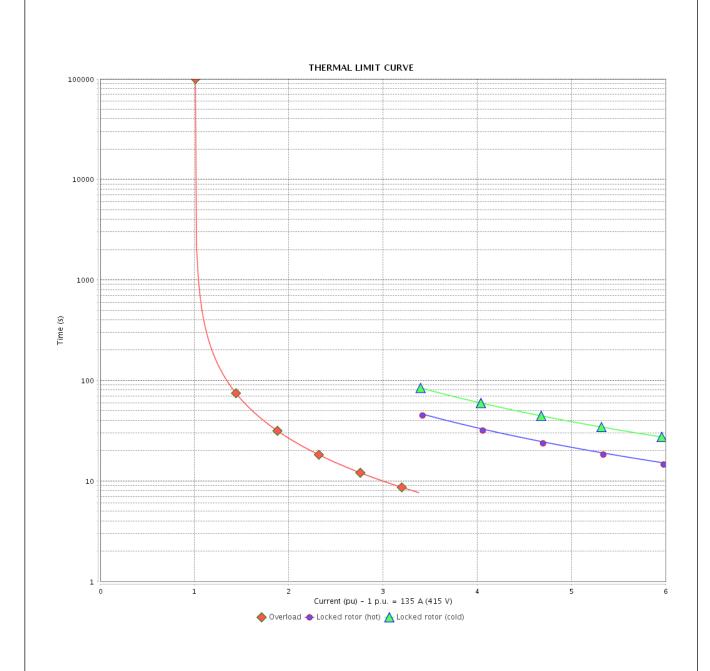


Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	11355339	
		i nasc		Catalog # :	10012ET3E44	4T-W22
Performance		: 415 V 50 Hz 6P IE2				
Rated current LRC		: 135 A : 6.0	Moment of Duty cycle	f inertia (J)	: 87.3 sq.ft.lb : Cont.(S1)	
Rated torque		: 533 ft.lb	Insulation		: F	
Locked rotor torq		: 200 %	Service fa		: 1.00	
Breakdown torque Rated speed		: 250 % : 985 rpm	Temperati Design	ure rise	: 105 K : B	
Heating constant		•				
Cooling constant						
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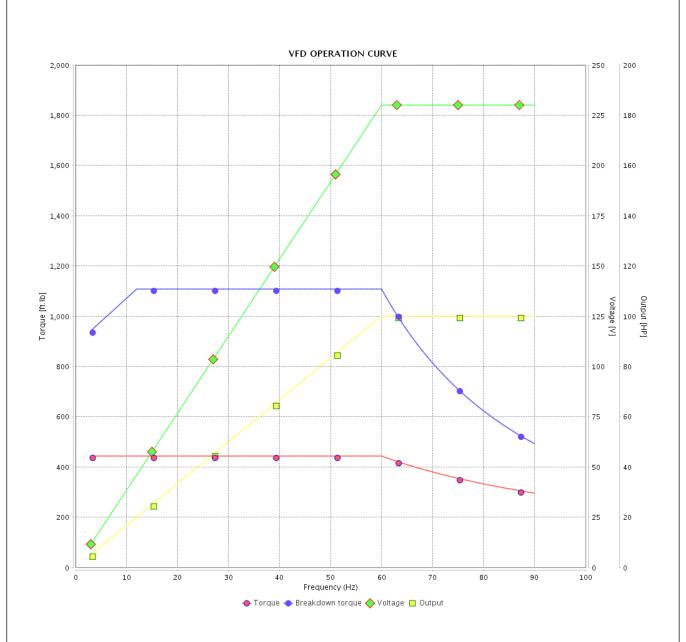
Customer :

Product line : NEMA Premium Efficiency Three- Pro-

Phase

Product code: 11355339

Catalog #: 10012ET3E444T-W22



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Performance	: 23	30/460 V 60 Hz 6P	·			
Rated current	: 24	42/121 A	Moment o	f inertia (J)	: 87.3 sq.ft.lb	
LRC	: 6.	.2	Duty cycle)	: Cont.(S1)	
Rated torque	: 44	43 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 22	20 %	Service fa	ctor	: 1.25	
Breakdown torqu	ie : 2	50 %	Temperati	ıre rise	: 80 K	
Rated speed	: 11	185 rpm	Design		: B	
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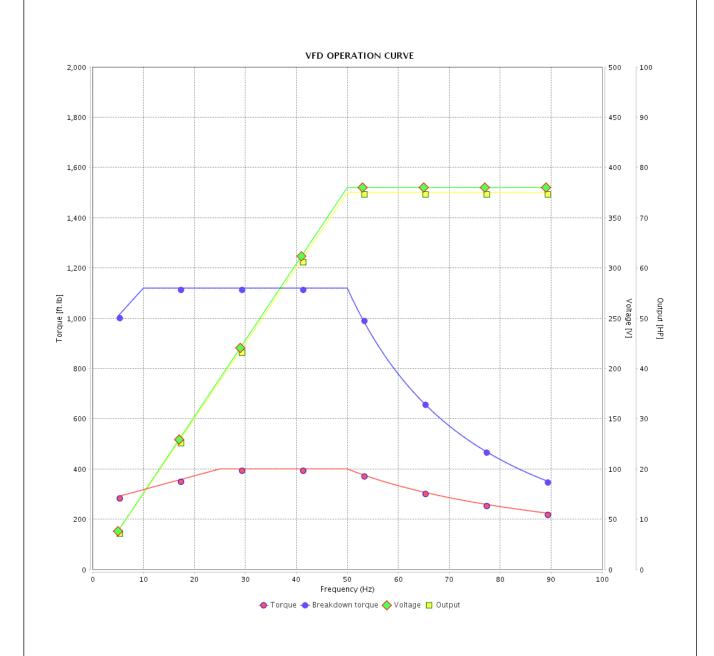
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 11355339

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Performance	: 380 V 50 Hz 6P IE3				
Rated current : 107 A Moment of inertia (J) LRC : 6.6 Duty cycle Rated torque : 400 ft.lb Insulation class Locked rotor torque : 229 % Service factor Breakdown torque : 280 % Temperature rise Rated speed : 985 rpm Design		class ctor	: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B		
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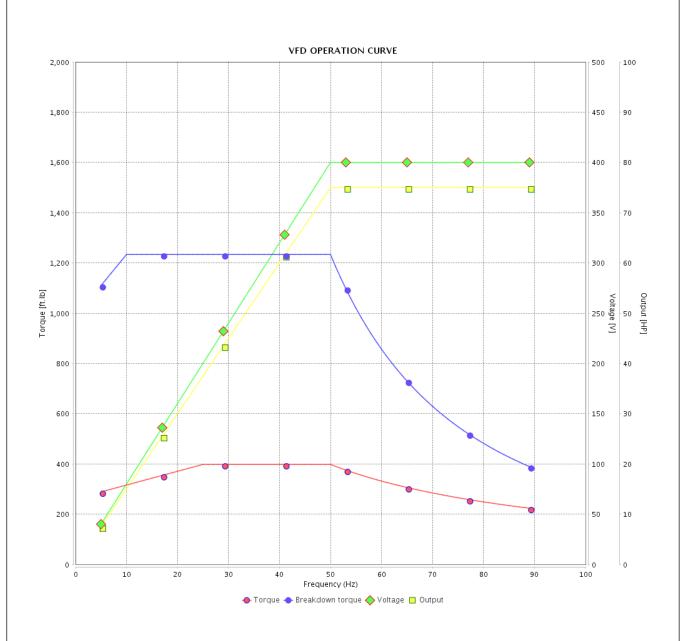
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11355339

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Performance	: 400 V 50 Hz 6P IE3				
Rated current : 104 A Moment of inertia (J)		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 fac	ctor	: 1.00	
Breakdown torque	: 310 %	Temperatu	re rise	: 80 K	
Rated speed	: 990 rpm	Design		: B	
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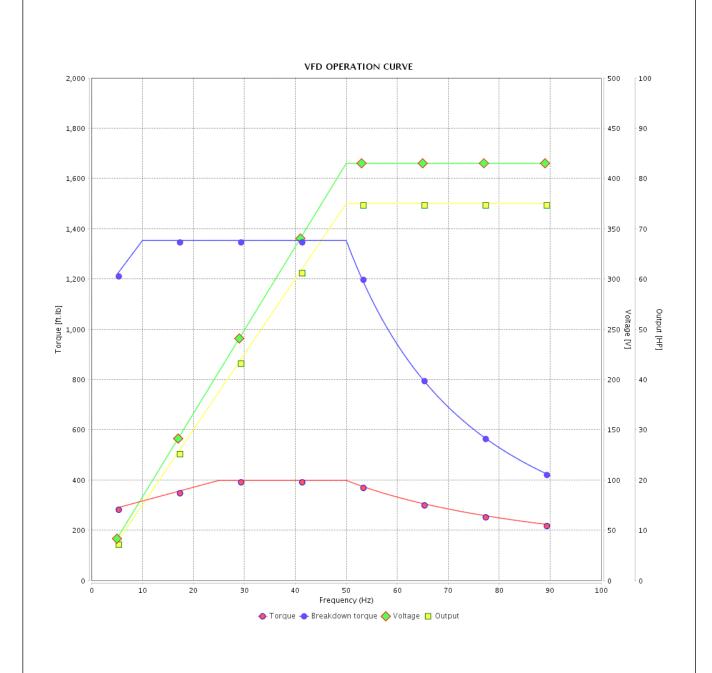
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 10012ET3E444T-W22

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Performance	: 4	15 V 50 Hz 6P IE3				
Rated current	: 1	02 A	Moment o	f inertia (J)	: 87.3 sq.ft.lb	
LRC	: 7	.7	Duty cycle	;	: Cont.(S1)	
Rated torque	: 3	98 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2	70 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 3	40 %	Temperati	ıre rise	: 80 K	
Rated speed	: 9	90 rpm	Design		: B	
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Product line : NEMA Premium Efficiency Three- Product

Phase

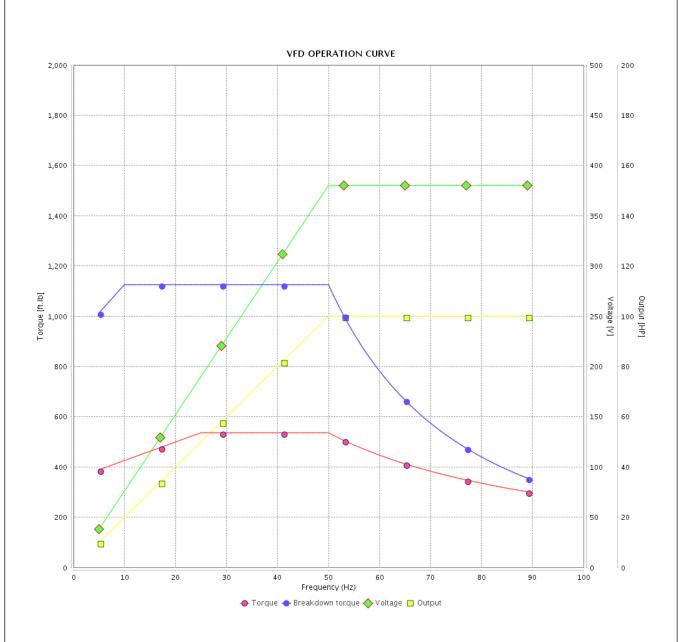
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Performance	: 380 V 50 Hz 6P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 145 A : 5.0 : 536 ft.lb : 170 % : 210 % : 980 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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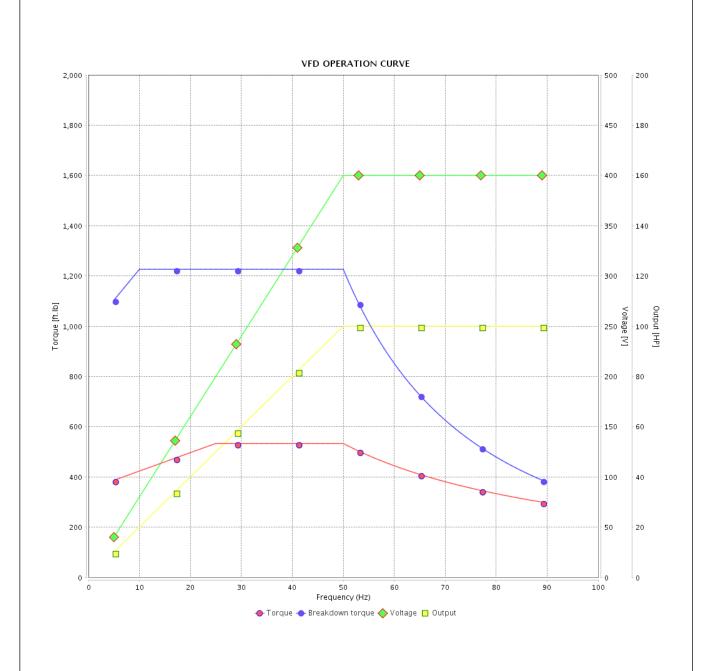


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11355339

Phase

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			,		·			
Performance		: 400 V 50 Hz 6P IE2						
Rated current	: 1:	: 139 A		f inertia (J)	: 87.3 sq.ft.lb			
LRC		.5 Duty cycle		: Cont.(S1)				
Rated torque	: 5	33 ft.lb Insulation class		class	: F			
Locked rotor tord	que : 19	90 %	Service factor		: 1.00			
Breakdown torqu	ue : 2:	29 % Temperature rise		: 105 K				
Rated speed	: 98	: 985 rpm		Design				
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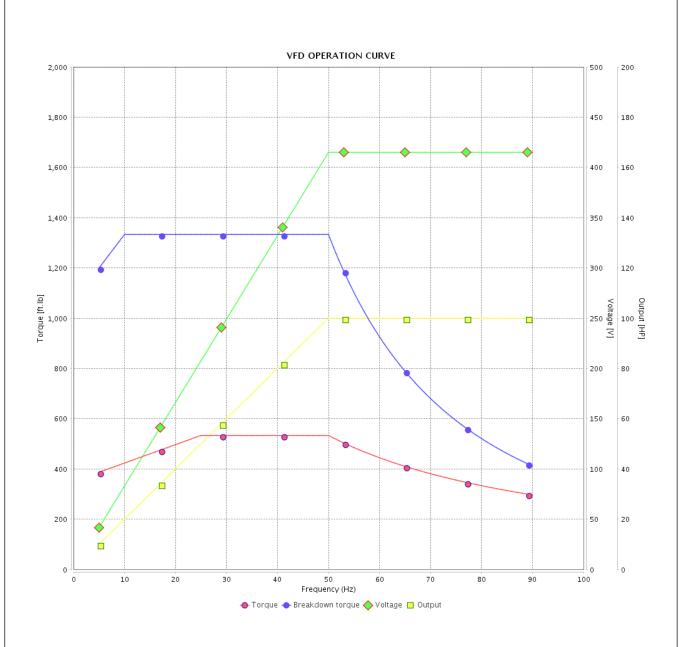
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11355339

Catalog #: 10012ET3E444T-W22



Performance	: 415 V 50 Hz 6P IE2	: 415 V 50 Hz 6P IE2							
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 135 A : 6.0 : 533 ft.lb : 200 % : 250 % : 985 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					
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