### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11568627

Catalog #: 07509ET3E444T-W22

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

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) : -20°C to +40°C Ambient temperature Starting method : Direct On Line

: 1000 m.a.s.l. Approx. weight<sup>3</sup> : 1492 lb Altitude Protection degree : IP55 Moment of inertia (J) : 73.6 sq.ft.lb

	_				(-)	,		
Design		: B						
Output [HP]		75	60	60	60	75	75	75
Poles		8	8	8	8	8	8	8
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		187/93.4	95.5	95.8	94.9	114	109	106
L. R. Amperes [A]		1196/598	525	565	607	536	567	604
LRC [A]		6.4x(Code H)	5.5x(Code	5.9x(Code H)	6.4x(Code J)	4.7x(Code E)	5.2x(Code F)	5.7x(Code
			G)					G)
No load current [A	]	80.0/40.0	39.3	43.6	47.0	39.3	43.6	47.0
Rated speed [RPN	1]	890	740	740	740	735	735	740
Slip [%]		1.11	1.33	1.33	1.33	2.00	2.00	1.33
Rated torque [ft.lb]		443	426	426	426	536	536	532
Locked rotor torqu	e [%]	170	170	200	220	140	160	180
Breakdown torque	[%]	200	210	229	250	170	190	210
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		32s (cold)	72s (cold)	64s (cold)	61s (cold)	46s (cold)	46s (cold)	48s (cold)
		18s (hot)	40s (hot)	36s (hot)	34s (hot)	26s (hot)	26s (hot)	27s (hot)
Noise level <sup>2</sup>		63.0 dB(A)	59.0 dB(A)	59.0 dB(A)	59.0 dB(A)	59.0 dB(A)	59.0 dB(A)	59.0 dB(A)
	25%							
Efficiency (9/)	50%	93.0	92.6	91.3	91.2	91.5	92.0	92.0
Efficiency (%)	75%	93.6	93.0	92.6	92.5	91.7	92.4	92.4
	100%	93.6	93.0	92.9	92.9	91.7	92.4	92.4
	25%							
Dower Footer	50%	0.64	0.56	0.52	0.49	0.70	0.66	0.63
Power Factor	75%	0.74	0.69	0.65	0.62	0.77	0.75	0.73
	100%	0.79	0.77	0.73	0.71	0.80	0.79	0.78

Non drive end Foundation loads Drive end

Bearing type 6319 C3 6316 C3 Max. traction : 2233 lb Sealing WSeal WSeal : 3725 lb Max. compression Lubrication interval 17000 h 20000 h

Lubricant amount 45 g 34 g Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 206A SF 1.10 SFA 226A

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



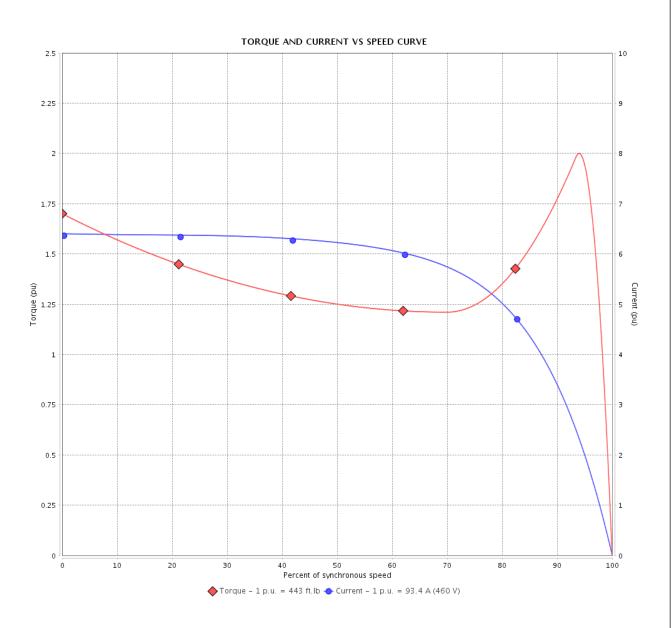
Customer :

Product line : NEMA Premium Efficiency Three- Product c

Phase

Product code: 11568627

Catalog #: 07509ET3E444T-W22



Performance : 230/460 V 60 Hz 8P Rated current : 187/93.4 A Moment of inertia (J) : 73.6 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : F : 443 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 170 % : 1.25 Breakdown torque : 200 % Temperature rise : 80 K Rated speed : 890 rpm Design : B

Locked rotor time : 32s (cold) 18s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11568627 Catalog #: 07509ET3E444T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 (pd) 1.25 Current 0.5 0.25 Percent of synchronous speed ◆ Torque - 1 p.u. = 426 ft.lb ◆ Current - 1 p.u. = 95.5 A (380 V) Performance : 380 V 50 Hz 8P IE3 Rated current : 95.5 A Moment of inertia (J) : 73.6 sq.ft.lb **LRC** : 5.5 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 426 ft.lb Locked rotor torque : 170 % Service factor : 1.00 Breakdown torque : 210 % Temperature rise : 80 K Rated speed : 740 rpm Design : B Locked rotor time : 72s (cold) 40s (hot) Rev. Performed Checked Date **Changes Summary** 

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13/04/2022

### Three Phase Induction Motor - Squirrel Cage



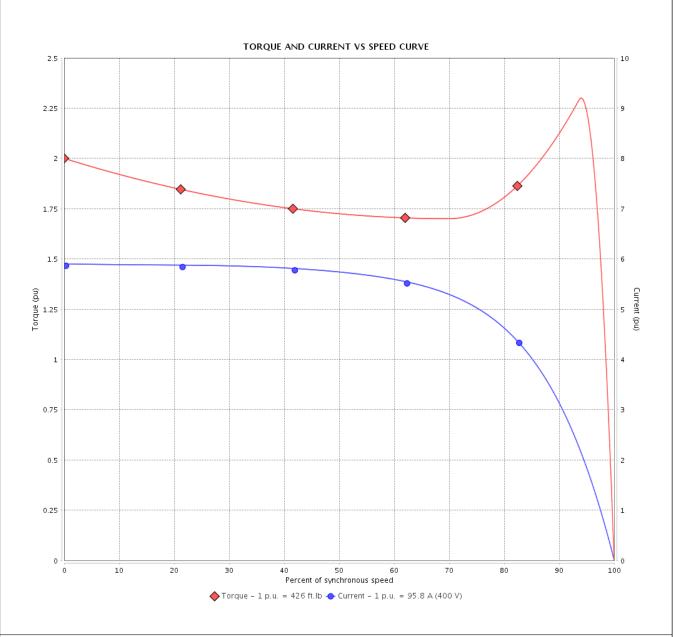
Customer :

Product line : NEMA Premium Efficiency Three- Prod

Phase

Product code: 11568627

Catalog #: 07509ET3E444T-W22



Performance : 400 V 50 Hz 8P IE	≣3		
Rated current : 95.8 A LRC : 5.9 Rated torque : 426 ft.lb Locked rotor torque : 200 % Breakdown torque : 229 % Rated speed : 740 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 73.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	

Locked rotor time : 64s (cold) 36s (hot)

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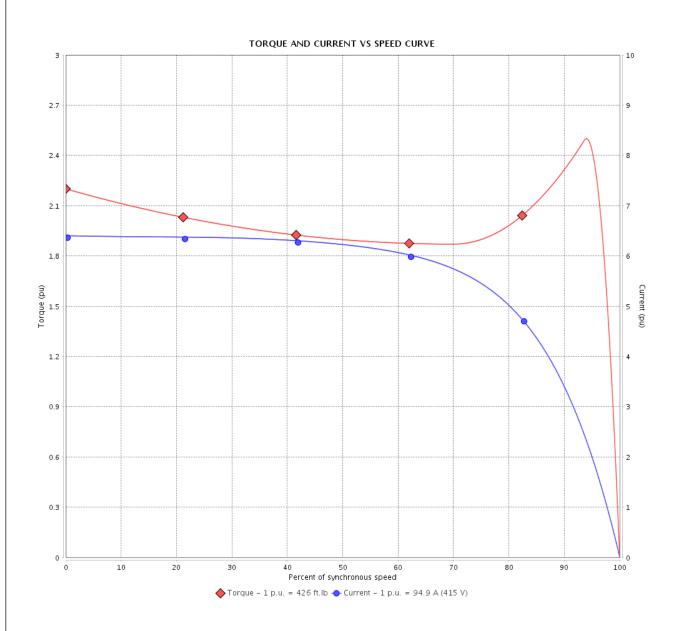
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11568627

Catalog #: 07509ET3E444T-W22



Performance	: 415 V 50 Hz 8P IE3			
Rated current	: 94.9 A	Moment of inertia (J)	: 73.6 sq.ft.lb	
LRC	: 6.4	Duty cycle	: Cont.(S1)	
Rated torque	: 426 ft.lb	Insulation class	:F	
Locked rotor torque	: 220 %	Service factor	: 1.00	
Breakdown torque	: 250 %	Temperature rise	: 80 K	
Rated speed	: 740 rpm	Design	: B	
Locked rotor time	: 61s (cold) 34s (hot)			

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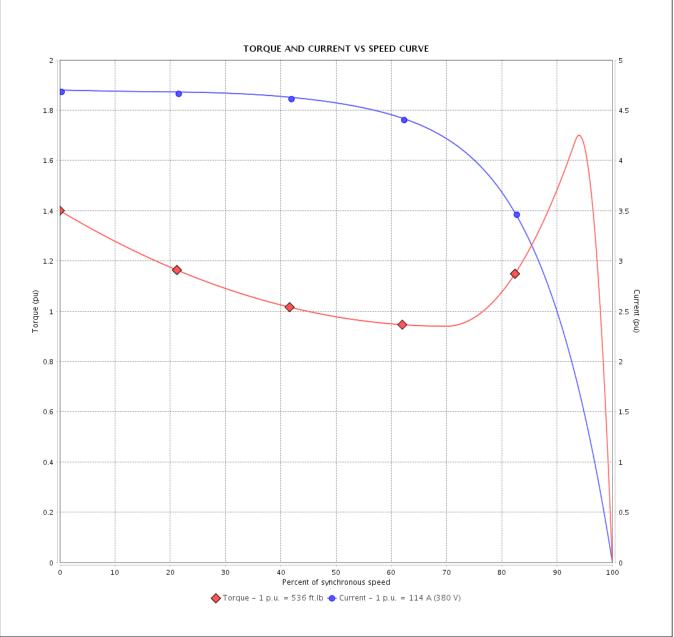
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11568627

Catalog #: 07509ET3E444T-W22



Performance	: 380 V 50 Hz 8P IE2		
Rated current	: 114 A	Moment of inertia (J)	: 73.6 sq.ft.lb
LRC	: 4.7	Duty cycle	: Cont.(S1)
Rated torque	: 536 ft.lb	Insulation class	: F
Locked rotor torque	: 140 %	Service factor	: 1.00
Breakdown torque	: 170 %	Temperature rise	: 105 K
Rated speed	: 735 rpm	Design	: B
Locked reter time	: 46s (cold) 26s (bot)		

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: 11568627 Catalog #: 07509ET3E444T-W22 TORQUE AND CURRENT VS SPEED CURVE 1.8 1.2 Current Torque (pu) 0.8 0.4 40 50 6. Percent of synchronous speed ◆ Torque – 1 p.u. = 536 ft.lb ◆ Current – 1 p.u. = 109 A (400 V) Performance : 400 V 50 Hz 8P IE2

Rated current LRC Rated torque Locked rotor toro Breakdown torqu	: 5.: : 53 jue : 16	19 A 2 66 ft.lb 60 % 10 %	Moment of Duty cycle Insulation Service fa	class ector	: 73.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K	
Rated speed		5 rpm	Design	010 1100	: B	
Locked rotor time	e : 40	6s (cold) 26s (hot	)			
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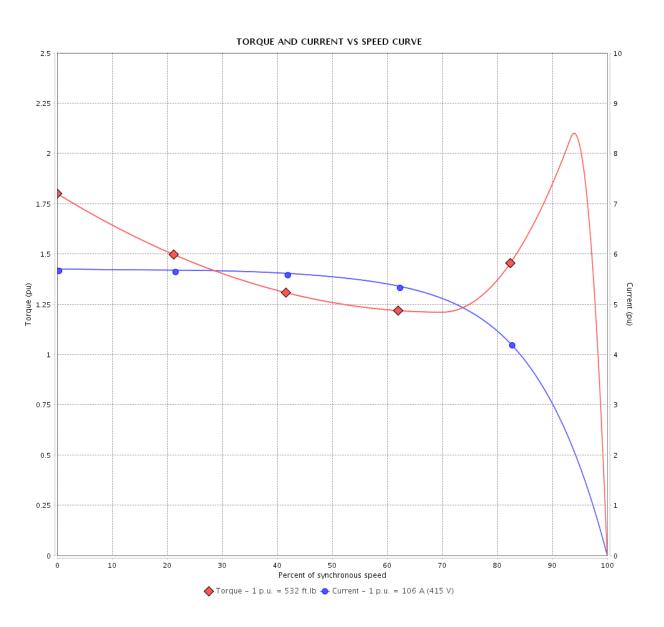


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11568627

Phase

Catalog #: 07509ET3E444T-W22



Performance	: 415 V 50 Hz 8P IE2			
Rated current LRC Rated torque	: 106 A : 5.7 : 532 ft.lb	Moment of inertia (J) Duty cycle Insulation class	: 73.6 sq.ft.lb : Cont.(S1) : F	
Locked rotor torque Breakdown torque	: 180 % : 210 %	Service factor Temperature rise	: 1.00 : 105 K	
Rated speed  Locked rotor time	: 740 rpm : 48s (cold) 27s (hot)	Design	: B	

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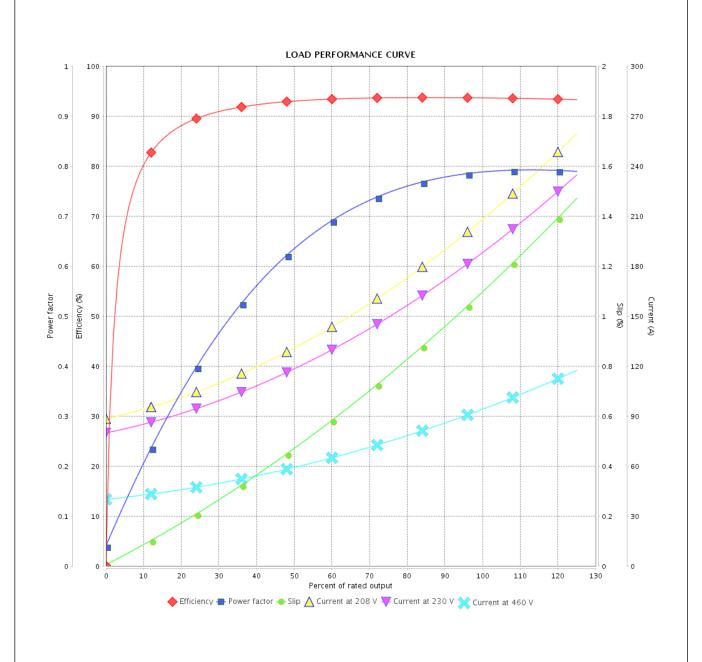


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11568627

Phase

Catalog #: 07509ET3E444T-W22



Performance : 230/460 V 6		30/460 V 60 Hz 8P				
Rated current	: 1	87/93.4 A	Moment o	f inertia (J)	: 73.6 sq.ft.lb	
LRC	: 6	.4	Duty cycle	<b>:</b>	: Cont.(S1)	
Rated torque	: 4	43 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 1	70 %	Service fa	ctor	: 1.25	
Breakdown torque	: 2	00 %	Temperature rise		: 80 K	
Rated speed	: 8	: 890 rpm			: B	
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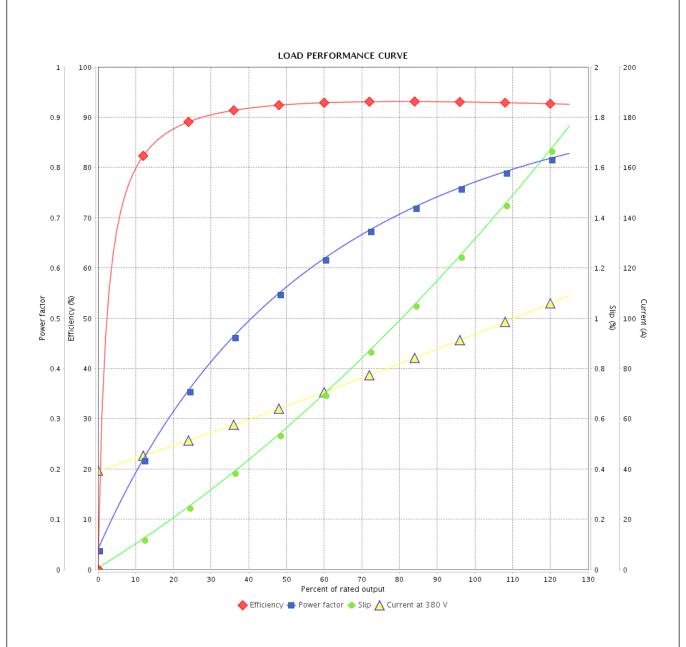
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11568627

Catalog #: 07509ET3E444T-W22



Performance	: 380 V 50 Hz 8P IE3	: 380 V 50 Hz 8P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 95.5 A : 5.5 : 426 ft.lb : 170 % : 210 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 5.5       Duty cycle       : Cont.(S1         : 426 ft.lb       Insulation class       : F         : 170 %       Service factor       : 1.00         : 210 %       Temperature rise       : 80 K		: 1.00 : 80 K	
Rated speed Rev.	: 740 rpm	Design	Performed	Checked	Date		
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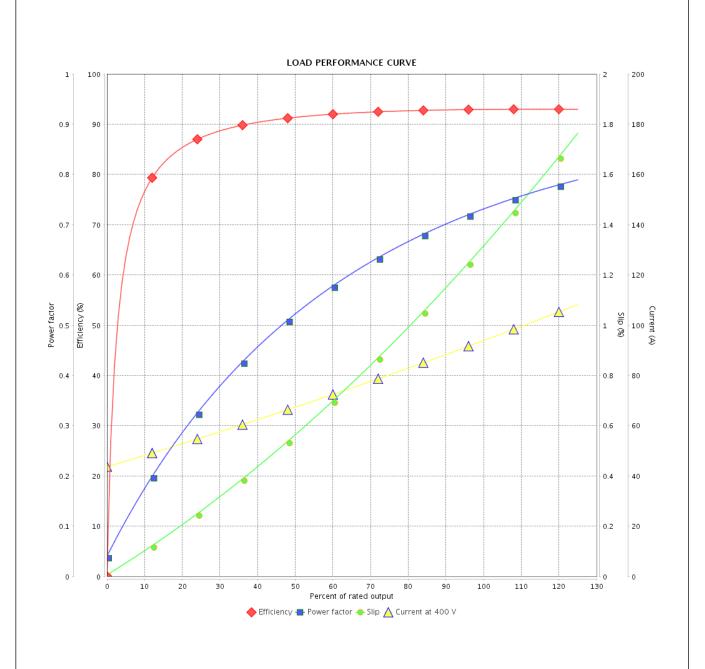
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 07509ET3E444T-W22

11568627



Performance : 400 \		00 V 50 Hz 8P IE3					
Rated current : 95.		95.8 A	Moment o	f inertia (J)	: 73.6 sq.ft.lb		
LRC	: 5	5.9	Duty cycle	<del>)</del>	: Cont.(S1)		
Rated torque	: 4	26 ft.lb	Insulation	class	:F		
Locked rotor torque	e : 2	200 %	Service fa	ctor	: 1.00		
Breakdown torque	: 2	: 229 % Temper		ure rise	: 80 K		
Rated speed		0 rpm Design			: B		
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#### Three Phase Induction Motor - Squirrel Cage



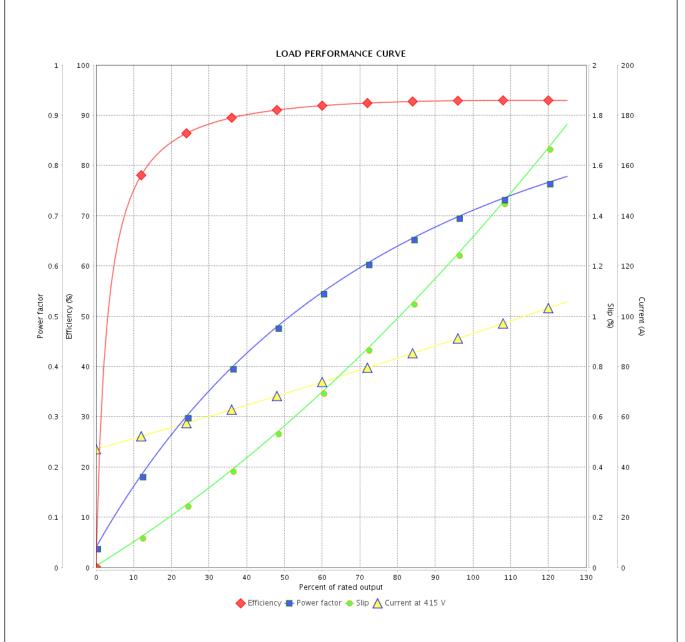
Customer :

Product line : NEMA Premium Efficiency Three- Product of

Phase

Product code: 11568627

Catalog #: 07509ET3E444T-W22



		<del></del>	<del>,</del>	
Performance : 415 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 94.9 A : 6.4 : 426 ft.lb : 220 % : 250 % : 740 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 73.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage

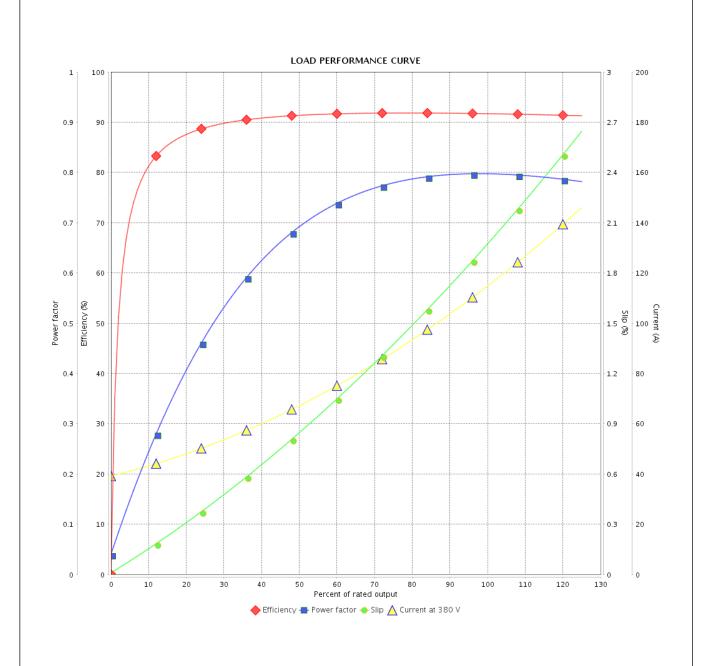


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11568627

Phase

Catalog #: 07509ET3E444T-W22



Performance	formance : 380 V 50 Hz 8P IE2					
Rated current	: 1	14 A	Moment o	f inertia (J)	: 73.6 sq.ft.lb	
LRC	: 4	ł.7	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 5	36 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 1	40 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 1	: 170 % Temperati : 735 rpm Design		ıre rise	: 105 K	
Rated speed	: 7			Design		
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Product line : NEMA Premium Efficiency Three-

Phase

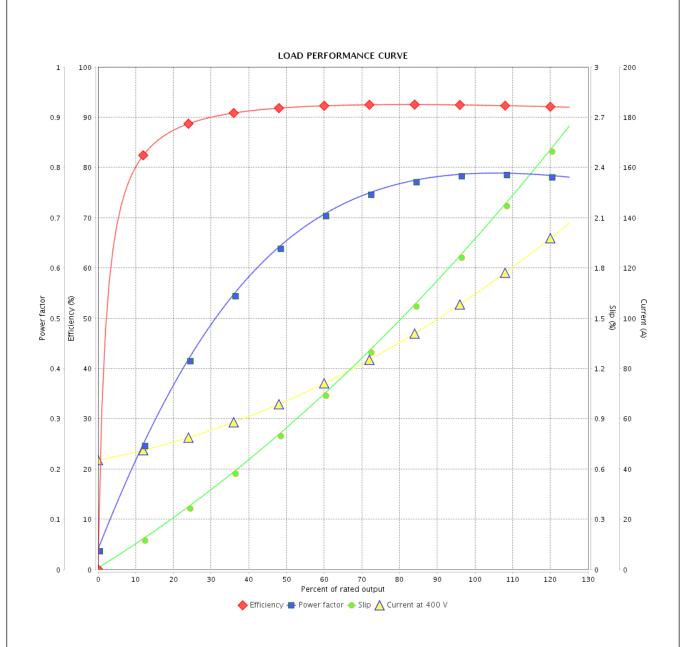
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Performance	: 400 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 109 A : 5.2 : 536 ft.lb : 160 % : 190 % : 735 rpm	: 5.2 Duty cycle : 536 ft.lb Insulation class : 160 % Service factor : 190 % Temperature rise		: 73.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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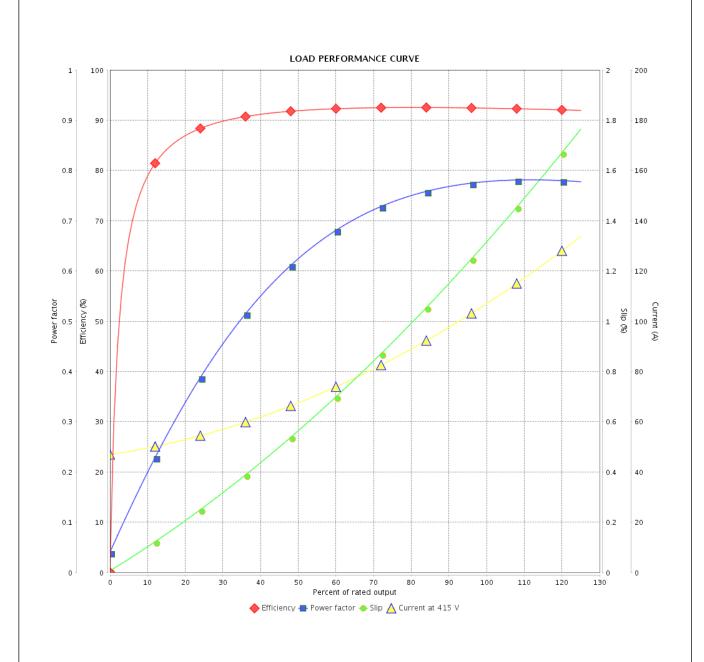
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11568627

Phase

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Performance	: 415 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 106 A : 5.7 : 532 ft.lb : 180 % : 210 % : 740 rpm			: 1.00 : 105 K	
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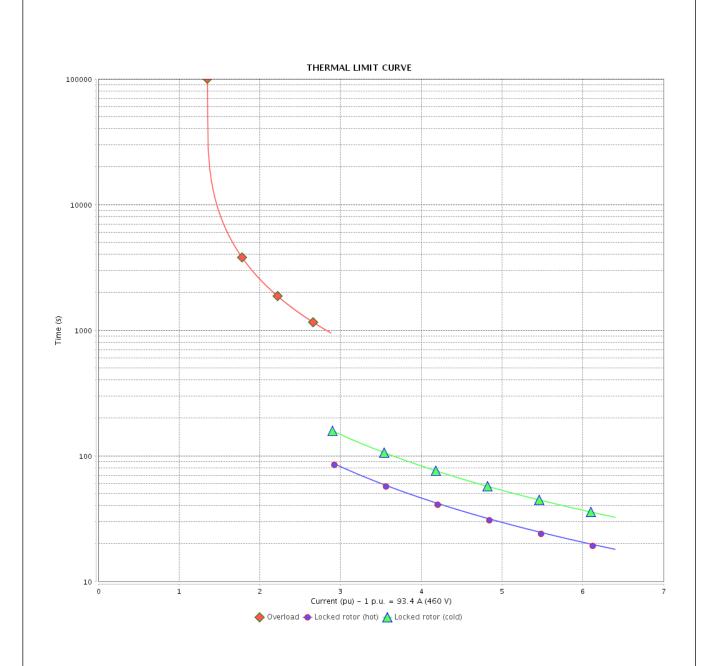


Customer	:				
Product line	: NEMA Premium Efficie Phase		Product code : Catalog # :	11568627 07509ET3E4	44T-W22
Performance Rated current LRC	: 230/460 V 60 Hz 8P : 187/93.4 A : 6.4	Moment o	of inertia (J)	: 73.6 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque Breakdown torque Rated speed	: 0.4 : 443 ft.lb : 170 % : 200 % : 890 rpm	Insulation Service fa Temperat Design	class actor	: F : 1.25 : 80 K : B	
Heating constant Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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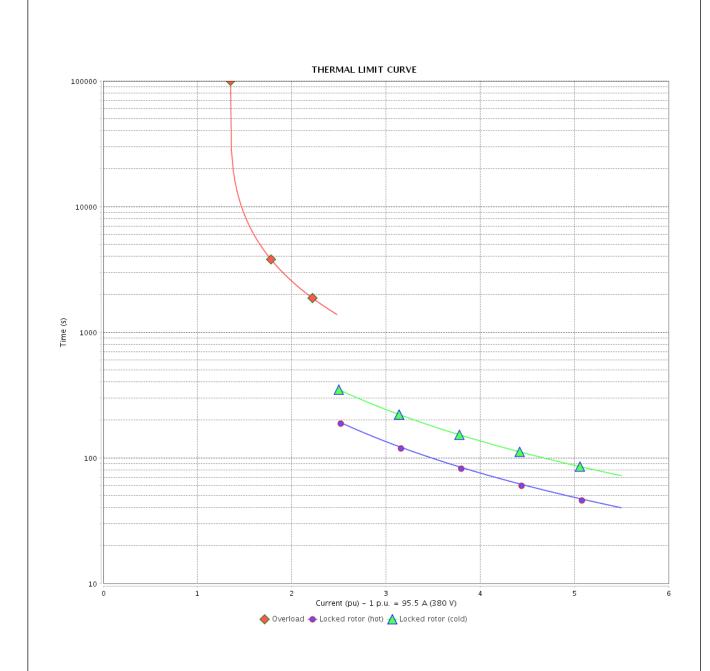


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code :	11568627 07509ET3E44	44T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 95 : 5. : 42 e : 17 : 2	30 V 50 Hz 8P IE3 5.5 A 5 26 ft.lb 70 % 10 % 40 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class	: 73.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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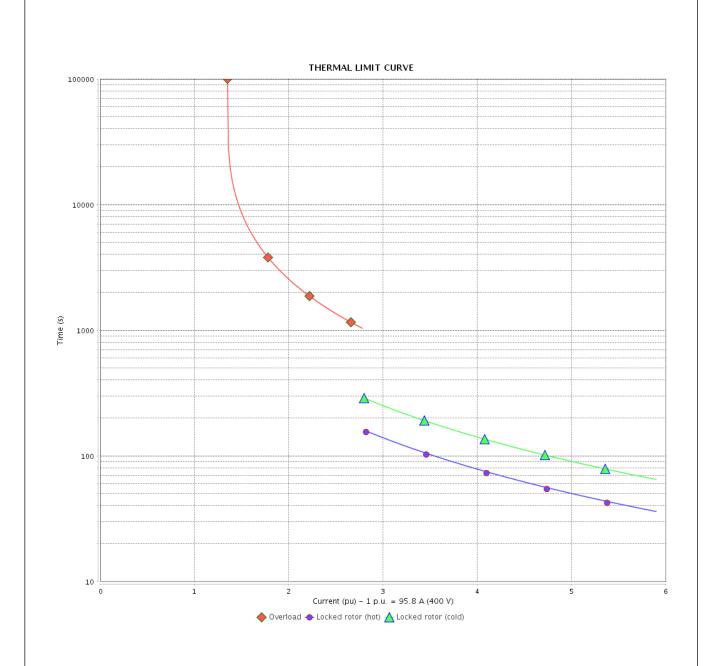


Customer	:				
Product line	: NEMA Premium Efficiency Phase	Three-	Product code :	11568627	
	- nacc		Catalog # :	07509ET3E44	4T-W22
Performance	: 400 V 50 Hz 8P IE3				
Rated current	: 95.8 A		f inertia (J)	: 73.6 sq.ft.lb	
LRC	: 5.9 : 426 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Rated torque Locked rotor torque		Service fa		: 1.00	
Breakdown torque	: 229 %	Temperati		: 80 K	
Rated speed	: 740 rpm	Design		: B 	
Heating constant					
Cooling constant	01		Dest	Ohll	D-+-
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### Three Phase Induction Motor - Squirrel Cage



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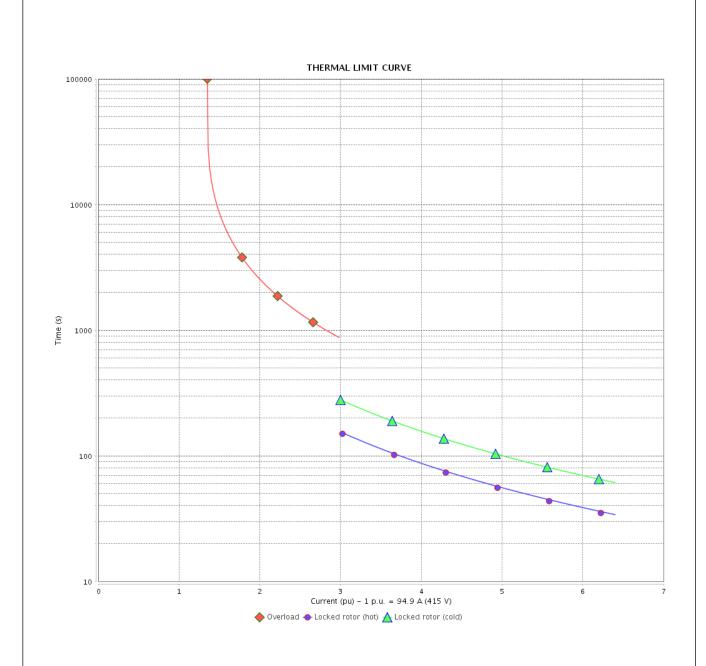


Customer	:			
Product line	: NEMA Premium Efficiency Phase		11568627	
		Catalog #:	07509ET3E44	44T-W22
Performance	: 415 V 50 Hz 8P IE3	T		
Rated current LRC	: 94.9 A : 6.4	Moment of inertia (J)	: 73.6 sq.ft.lb	
Rated torque	: 6.4 : 426 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F	
Locked rotor torque	: 220 %	Service factor	: 1.00	
Breakdown torque Rated speed	: 250 % : 740 rpm	Temperature rise Design	: 80 K : B	
Heating constant				
Cooling constant				
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### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

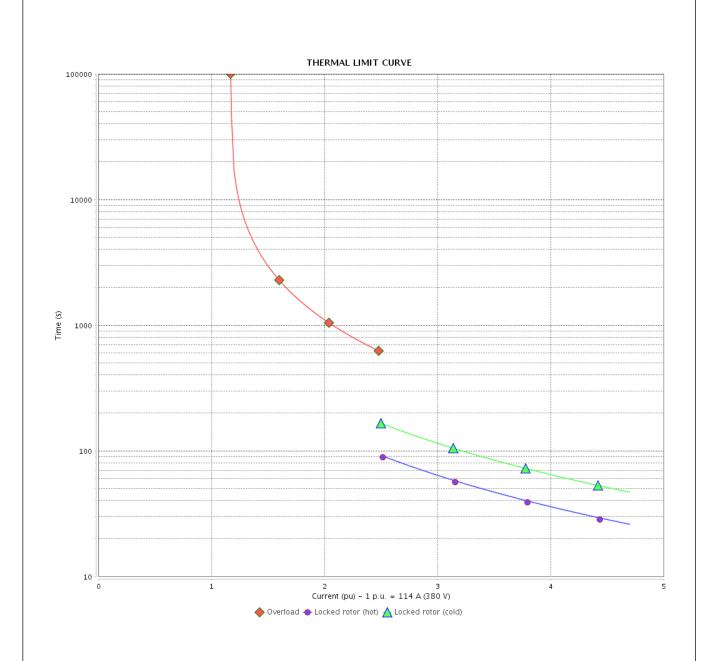


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11568627 07509ET3E44	14T-W22
					0700021021	
Performance		: 380 V 50 Hz 8P IE2				
Rated current LRC		: 114 A : 4.7	Moment of Duty cycle	of inertia (J) e	: 73.6 sq.ft.lb : Cont.(S1)	
Rated torque		: 536 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 140 % : 170 %	Service fa Temperat		: 1.00 : 105 K	
Rated speed		: 735 rpm	Design	a. 5 1100	: B	
Heating constan	t					
Cooling constant	t					
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### Three Phase Induction Motor - Squirrel Cage



Customer



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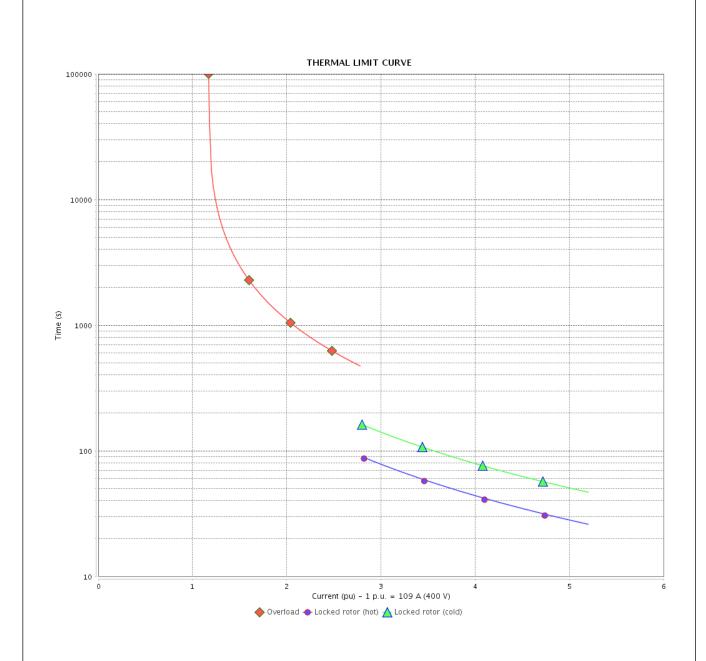


Customer	:				,	
Product line		NEMA Premium Efficiency in		Product code :	11568627 07509ET3E4	14T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed Heating constant Cooling constant	: 10 : 5: : 53 ue : 16 e : 19 : 73	36 ft.lb 60 % 90 % 35 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor rre rise	: 73.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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### Three Phase Induction Motor - Squirrel Cage

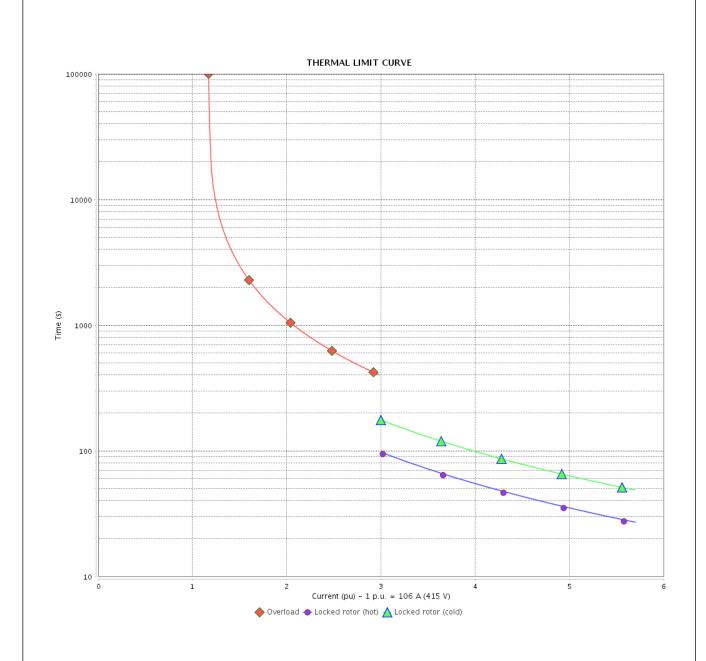


Customer		:			·	
Product line		: NEMA Premium Efficiency <sup>-</sup> Phase		Product code : Catalog # :	11568627 07509ET3E4	44T-W22
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: :: que ::	415 V 50 Hz 8P IE2 106 A 5.7 532 ft.lb 180 % 210 % 740 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 73.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant Cooling constant Rev.	t	Changes Summary		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



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Customer :

Checked by

Date

13/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

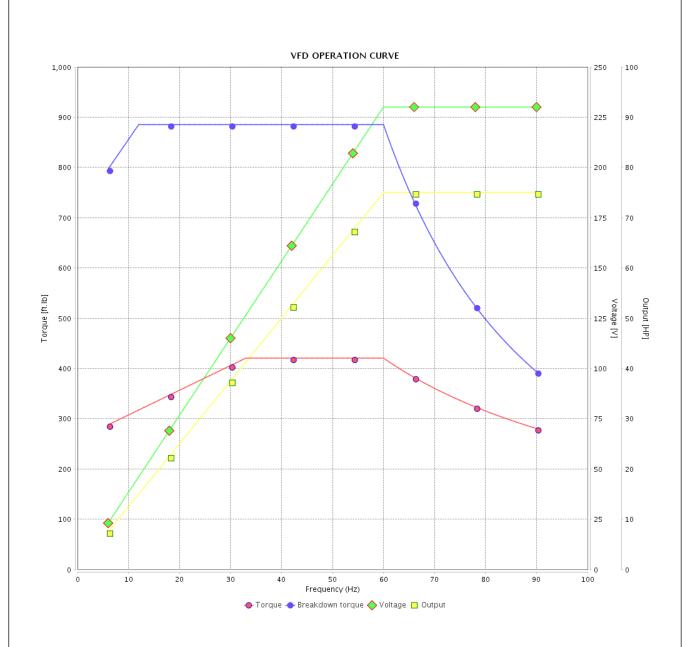
Product code: 11568627

Catalog #: 07509ET3E444T-W22

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Performance		: 230/460 V 60 Hz 8P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	que ue	: 187/93.4 A : 6.4 : 443 ft.lb : 170 % : 200 % : 890 rpm	Moment of Duty cycle Insulation Service fa Temperation	class actor	: 73.6 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.		Changes Summary	,	Performed	Checked	Date
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#### Three Phase Induction Motor - Squirrel Cage

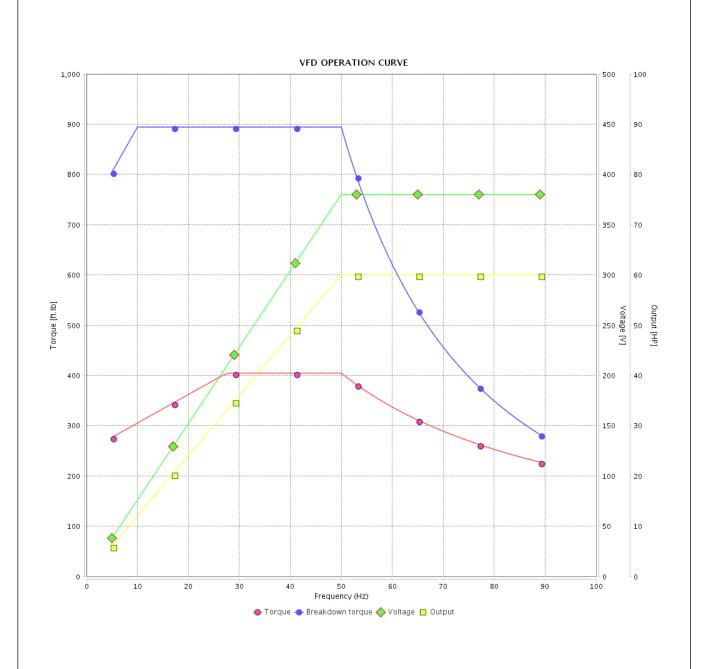


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11568627

Phase

Catalog #: 07509ET3E444T-W22



Performance	: 38	30 V 50 Hz 8P IE3						
RC : 5.5 Duty cy Rated torque : 426 ft.lb Insulati cocked rotor torque : 170 % Service Breakdown torque : 210 % Temper		: 5.5 Duty cycle torque : 426 ft.lb Insulation class I rotor torque : 170 % Service factor Iown torque : 210 % Temperature rise		: 5.5 : 426 ft.lb : 170 % : 210 %  Duty cycle Insulation class Service factor Temperature rise		class ctor	: 73.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Rated speed	: 74	40 rpm	Design		: B			
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#### Three Phase Induction Motor - Squirrel Cage



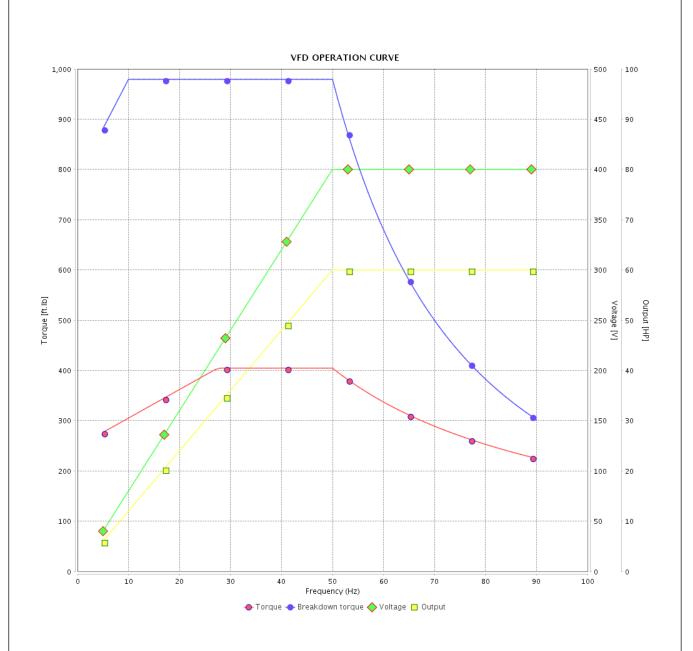
Customer :

Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 11568627

Catalog #: 07509ET3E444T-W22



Performance	:	400 V 50 Hz 8P IE	:3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : que : se	95.8 A 5.9 426 ft.lb 200 % 229 % 740 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		
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#### Three Phase Induction Motor - Squirrel Cage



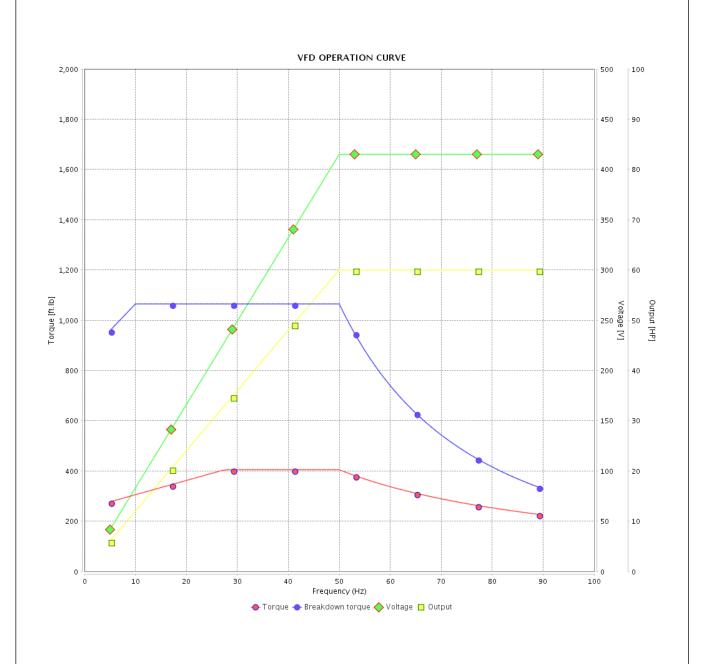
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 07509ET3E444T-W22

11568627



Performance		: 415 V 50 Hz 8P IE3					
Rated current		4.9 A Moment of inertia (J)		: 73.6 sq.ft.lb			
LRC		4	Duty cycle		: Cont.(S1)		
Rated torque		426 ft.lb Insulation		class	: F		
Locked rotor torq	ue : 22	20 %	Service fa	Service factor		: 1.00	
Breakdown torqu	e : 25	250 % Ten		ıre rise	: 80 K		
Rated speed	: 74	10 rpm	Design	Design			
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#### Three Phase Induction Motor - Squirrel Cage



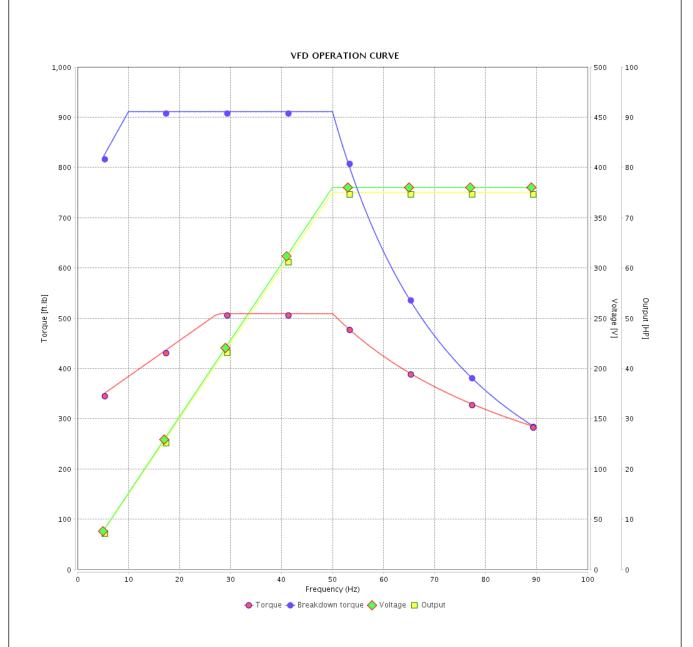
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11568627

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Performance	: 38	30 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 4. : 53 que : 14 ie : 17	4 A 7 36 ft.lb 40 % 70 % 85 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class actor	: 73.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



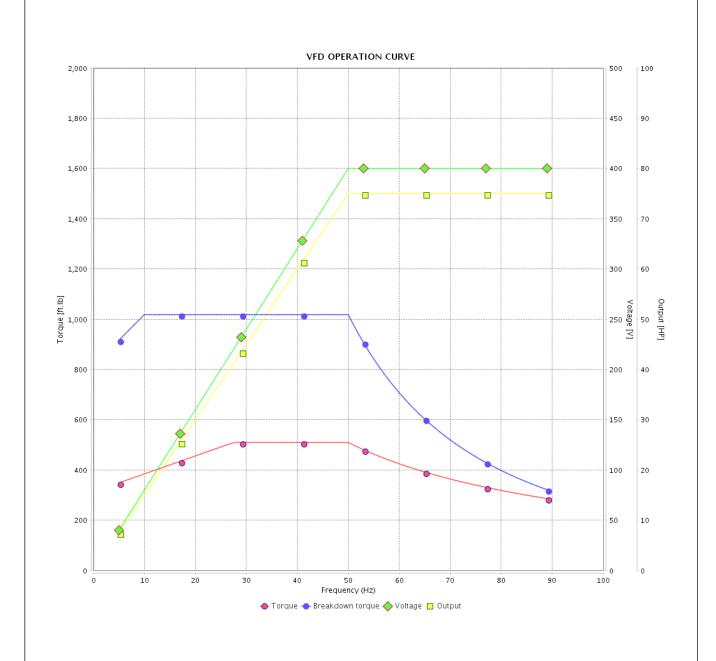
Customer

Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 11568627

Catalog #: 07509ET3E444T-W22



Performance	:	400 V 50 Hz 8P IE2				
Rated current		109 A	Moment of inertia (J)		: 73.6 sq.ft.lb	
LRC		5.2	Duty cycle		: Cont.(S1)	
Rated torque	:	536 ft.lb Insulation class 160 % Service factor		class	: F : 1.00	
Locked rotor tord	que :			ictor		
Breakdown torqu	ie :	190 %	Temperati	Temperature rise		
Rated speed	:	735 rpm Design		: B		
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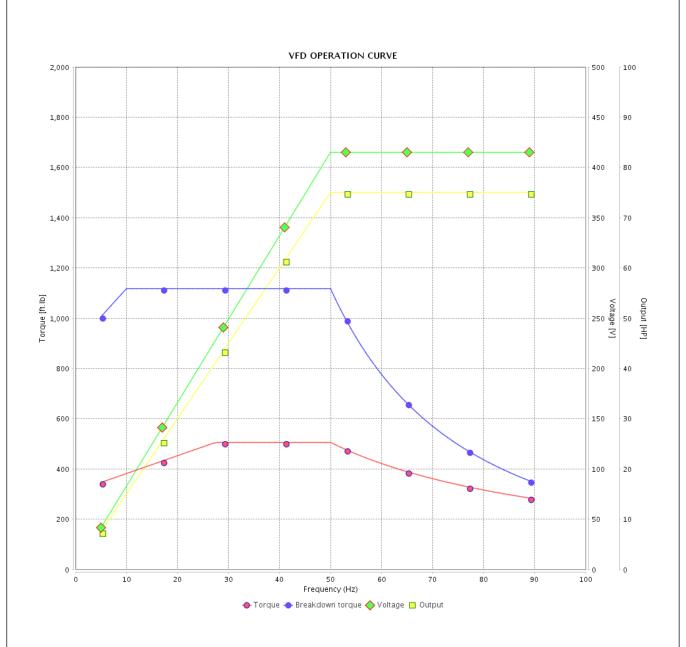
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Performance : 415 V 50 Hz 8P IE2 : 106 A Rated current Moment of inertia (J) : 73.6 sq.ft.lb **LRC** : 5.7 Duty cycle : Cont.(S1) : 532 ft.lb Insulation class : F Rated torque Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 210 % Temperature rise : 105 K Rated speed : 740 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

