### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14334990

Phase

Catalog #: 10009ET3E445T-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

Ambient temperature : -20°C to +40°C Starting method : Direct On Line
Altitude : 1000 m.a.s.l. Approx. weight³ : 1599 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		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]		254/127	118	116	115	152	147	144
L. R. Amperes [A]		1524/762	717	778	806	714	779	806
LRC [A]		6.0x(Code	6.1x(Code	6.7x(Code J)	7.0x(Code J)	4.7x(Code E)	5.3x(Code F)	5.6x(Code
		G)	G)					G)
No load current [A	]	112/56.0	55.0	61.0	67.0	55.0	61.0	67.0
Rated speed [RPN	<b>/</b> []	890	740	740	740	735	740	740
Slip [%]		1.11	1.33	1.33	1.33	2.00	1.33	1.33
Rated torque [ft.lb]		590	532	532	532	714	710	710
Locked rotor torqu	e [%]	190	200	229	250	150	170	190
Breakdown torque	[%]	220	229	270	290	170	200	220
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		27s (cold)	21s (cold)	21s (cold)	21s (cold)	21s (cold)	21s (cold)	21s (cold)
		15s (hot)	12s (hot)	12s (hot)	12s (hot)	12s (hot)	12s (hot)	12s (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%	93.5	92.9	91.5	90.6	94.0	92.9	92.2
Efficiency (%)	50%	93.6	92.9	91.9	91.2	93.6	93.0	92.4
Liliciency (70)	75%	94.1	93.4	93.0	92.6	93.0	93.0	93.0
	100%	94.1	93.2	93.2	93.1	92.4	93.0	93.0
	25%	0.38	0.36	0.32	0.29	0.44	0.40	0.37
Power Factor	50%	0.63	0.59	0.55	0.51	0.69	0.65	0.61
Rated voltage [V] Rated current [A] L. R. Amperes [A] LRC [A]  No load current [A] Rated speed [RPM Slip [%] Rated torque [ft.lb] Locked rotor torque Breakdown torque Service factor Temperature rise Locked rotor time	75%	0.74	0.72	0.68	0.65	0.78	0.75	0.73
	100%	0.79	0.78	0.75	0.73	0.81	0.79	0.78

Drive end Non drive end Foundation loads

Bearing type : 6319 C3 6316 C3 Max. traction : 3362 lb Sealing : WSeal WSeal Lubrication interval : 17000 h 20000 h

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

Notes

USABLE @208V 281A SF 1.10 SFA 309A

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



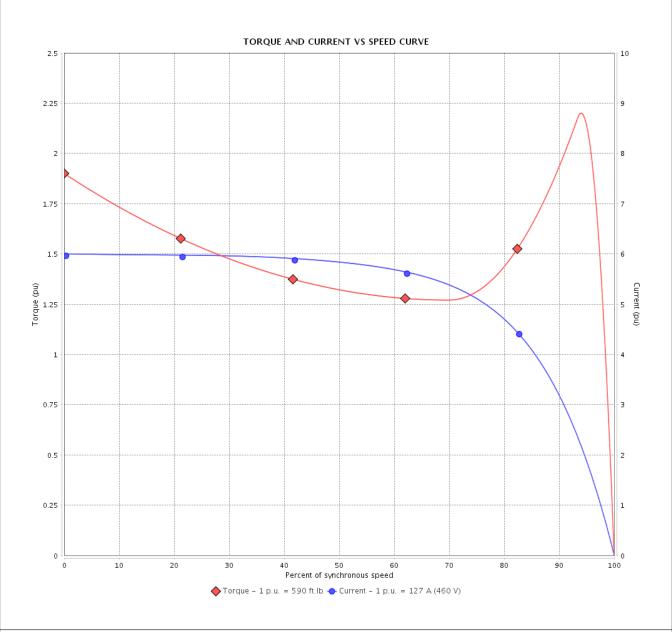
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14334990

Catalog #: 10009ET3E445T-W22



Performance : 230/460 V 60 Hz 8P Rated current : 254/127 A Moment of inertia (J) : 87.3 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) : 590 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 190 % : 1.25 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 890 rpm Design : B

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

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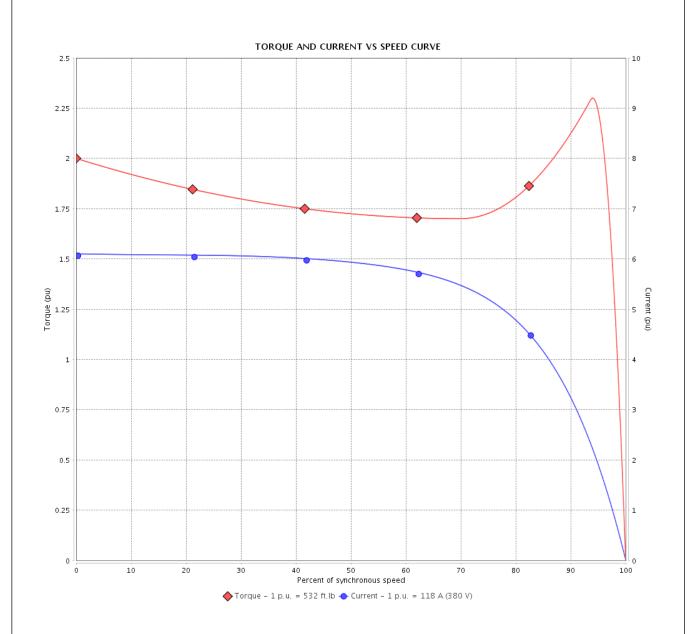
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14334990

Catalog #: 10009ET3E445T-W22



Performance	: 380 V 50 Hz 8P IE3		
Rated current	: 118 A	Moment of inertia (J)	: 87.3 sq.ft.lb
LRC	: 6.1	Duty cycle	: Cont.(S1)
Rated torque	: 532 ft.lb	Insulation class	:F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 740 rpm	Design	: B
Locked rotor time	· 21s (cold) 12s (hot)		

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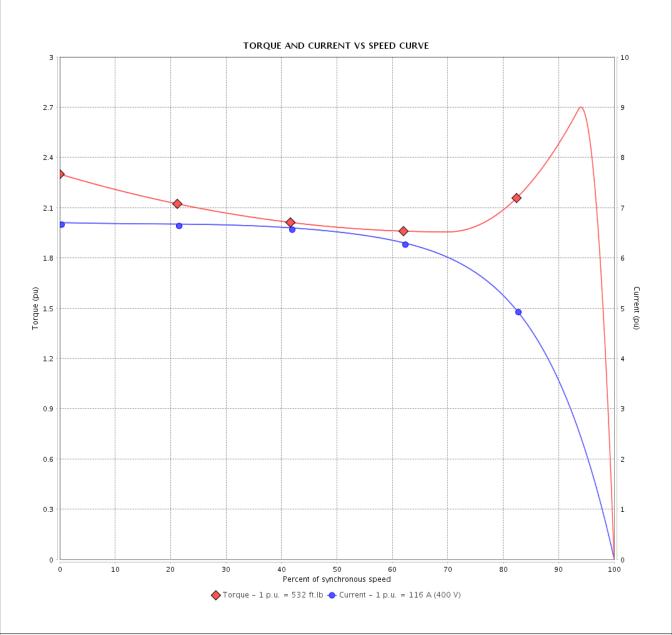
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14334990

Catalog #: 10009ET3E445T-W22



Performance : 400 V 50 Hz 8P IE3 Rated current : 116 A Moment of inertia (J) : 87.3 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) Insulation class Rated torque : 532 ft.lb : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 740 rpm Design : B

Locked rotor time : 21s (cold) 12s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 14334990 Catalog #: 10009ET3E445T-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. = 532 ft.lb ◆ Current - 1 p.u. = 115 A (415 V) Performance : 415 V 50 Hz 8P IE3 Rated current : 115 A Moment of inertia (J) : 87.3 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) : 532 ft.lb Insulation class Rated torque : F : 250 % Locked rotor torque Service factor : 1.00 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 740 rpm Design : B Locked rotor time : 21s (cold) 12s (hot) Rev. Performed Checked Date **Changes Summary** 

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### Three Phase Induction Motor - Squirrel Cage



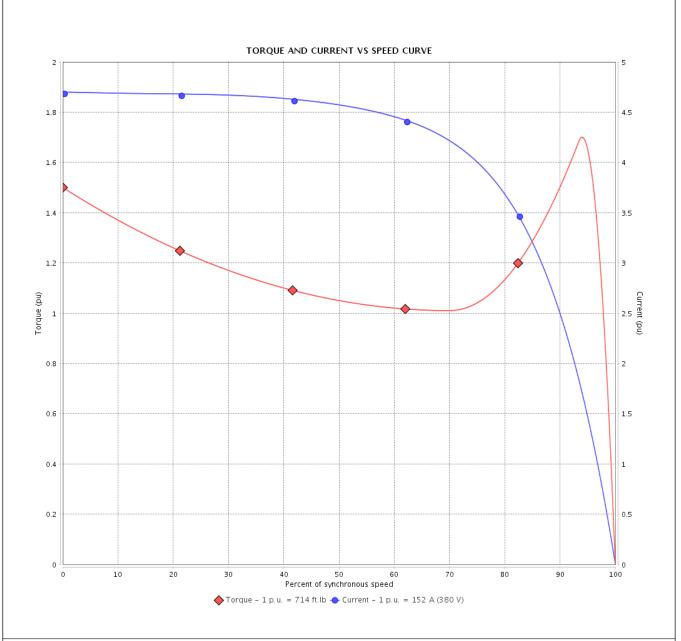
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14334990

Catalog #: 10009ET3E445T-W22



Performance	: 380 V 50 Hz 8P IE2		
Rated current	: 152 A	Moment of inertia (J)	: 87.3 sq.ft.lb
LRC	: 4.7	Duty cycle	: Cont.(S1)
Rated torque	: 714 ft.lb	Insulation class	: F
Locked rotor torque	: 150 %	Service factor	: 1.00
Breakdown torque	: 170 %	Temperature rise	: 105 K
Rated speed	: 735 rpm	Design	: B
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Locked rotor time : 21s (cold) 12s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 14334990 Catalog #: 10009ET3E445T-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. = 710 ft.lb ◆ Current - 1 p.u. = 147 A (400 V) Performance : 400 V 50 Hz 8P IE2 Rated current : 147 A Moment of inertia (J) : 87.3 sq.ft.lb **LRC** : 5.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 710 ft.lb : F Locked rotor torque : 170 % Service factor : 1.00 : 105 K Breakdown torque : 200 % Temperature rise Rated speed : 740 rpm Design : B Locked rotor time : 21s (cold) 12s (hot) Date Rev. Performed Checked **Changes Summary** 

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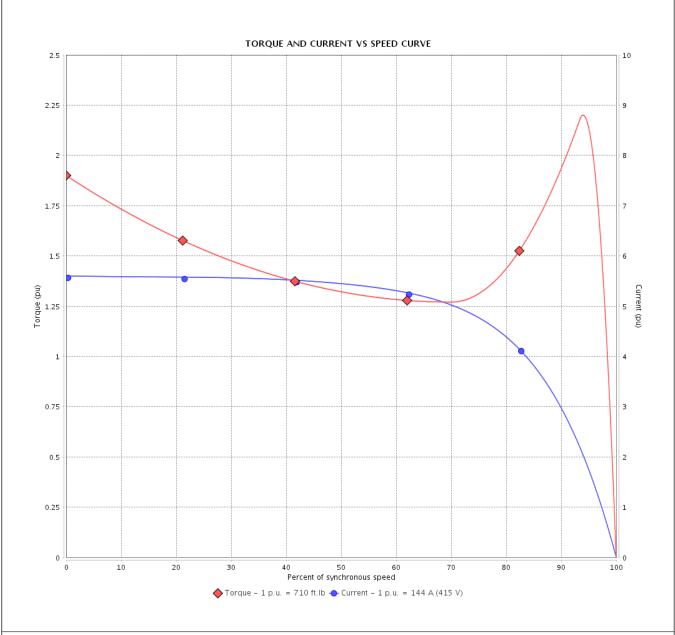
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14334990

Catalog #: 10009ET3E445T-W22



Performance	: 415 V 50 Hz 8P IE2		
Rated current	: 144 A	Moment of inertia (J)	: 87.3 sq.ft.lb
LRC	: 5.6	Duty cycle	: Cont.(S1)
Rated torque	: 710 ft.lb	Insulation class	:F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 105 K
Rated speed	: 740 rpm	Design	: B
	24 ( 15 12 11 1		

Locked rotor time : 21s (cold) 12s (hot)

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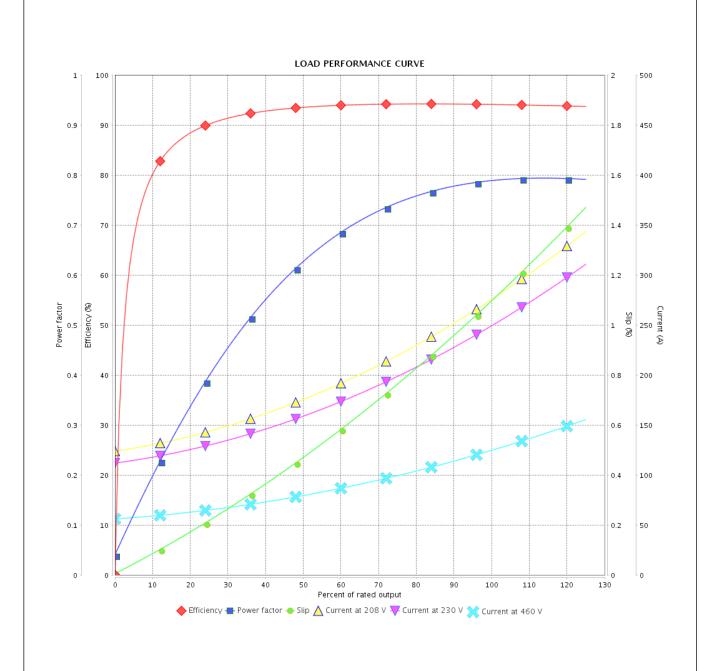


Customer

Product line : NEMA Premium Efficiency Three-Product code:

14334990

Catalog #: 10009ET3E445T-W22



	·				<u> </u>	
Performance	: 2	30/460 V 60 Hz 8P	1			
Rated current : 254/127 A Moment of inert		f inertia (J)	: 87.3 sq.ft.lb			
LRC	: 6	.0	Duty cycle	)	: Cont.(S1)	
Rated torque	: 5	90 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 1	90 %	Service fa	ctor	: 1.25	
Breakdown torqu	ue : 2	20 %	Temperati	ure rise	: 80 K	
Rated speed	: 8	90 rpm	Design		: B	
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Phase

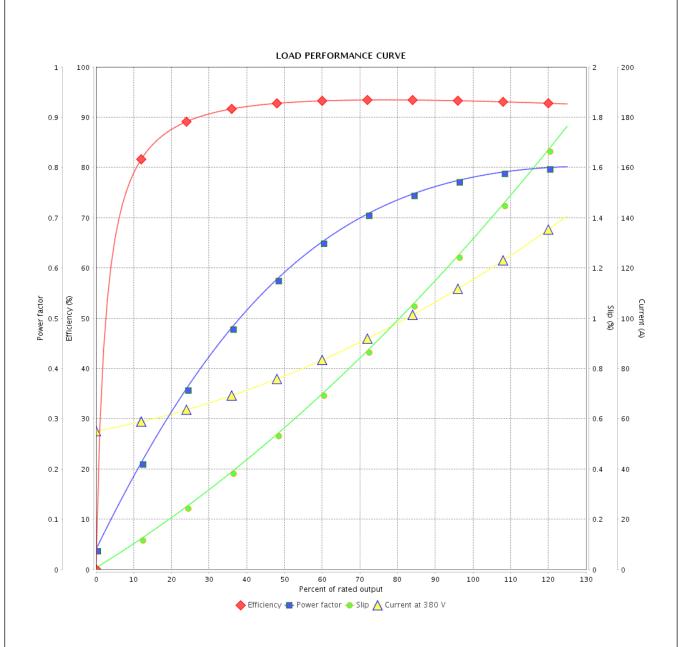
Product code: 14334990

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Performance	: 380 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



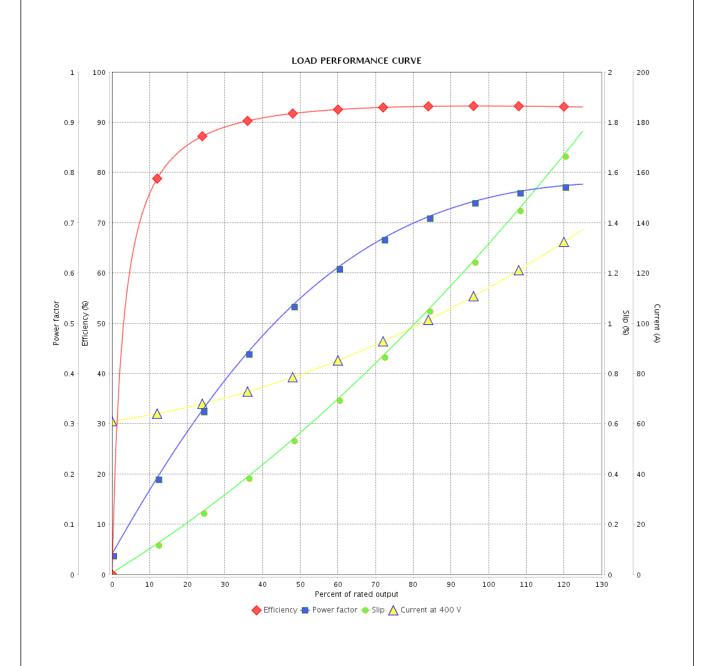
Customer

Product line : NEMA Premium Efficiency Three- Product code : 14334990

Phase

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Performance	: 400 V 50 Hz 8P IE3				
LRC : 6.7 Duty Rated torque : 532 ft.lb Insu Locked rotor torque : 229 % Serv Breakdown torque : 270 % Tem		Duty cycle Insulation Service fa	Moment of inertia (J) : 87.3 sq.ft.lb  Duty cycle : Cont.(S1)  Insulation class : F  Service factor : 1.00  Temperature rise : 80 K  Design : B		
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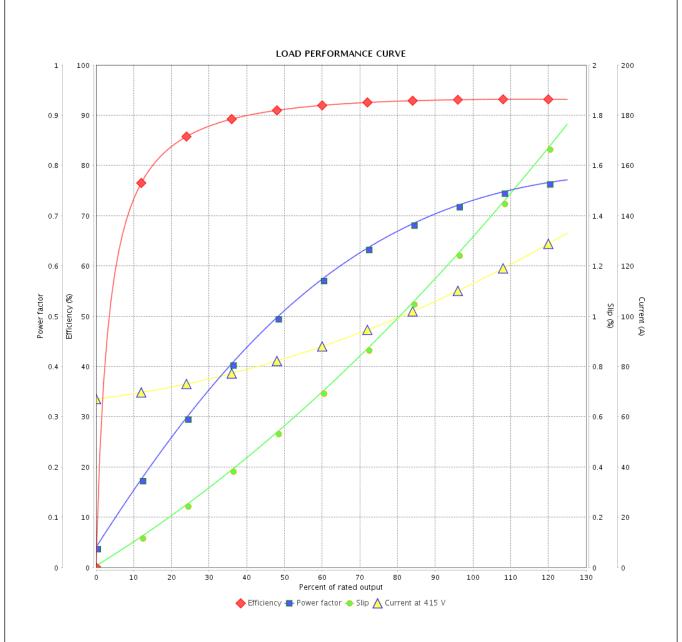
Customer :

Product line : NEMA Premium Efficiency Three- Produc

Phase

Product code: 14334990

Catalog #: 10009ET3E445T-W22



Performance	: 415 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 115 A Moment o : 7.0 Duty cycle : 532 ft.lb Insulation e : 250 % Service fa		class actor	(J) : 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Product line : NEMA Premium Efficiency Three- Product code : 14334990

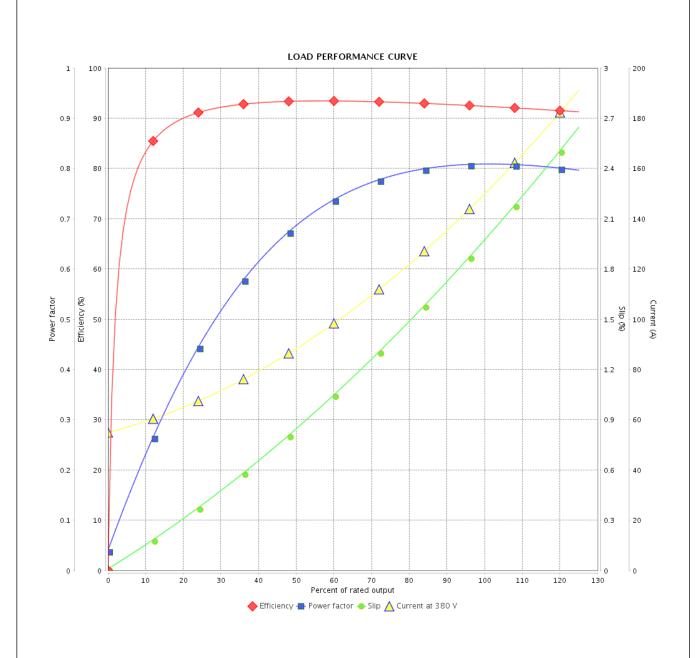
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Performance	: 380 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 152 A : 4.7 : 714 ft.lb : 150 % : 170 % : 735 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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#### Three Phase Induction Motor - Squirrel Cage

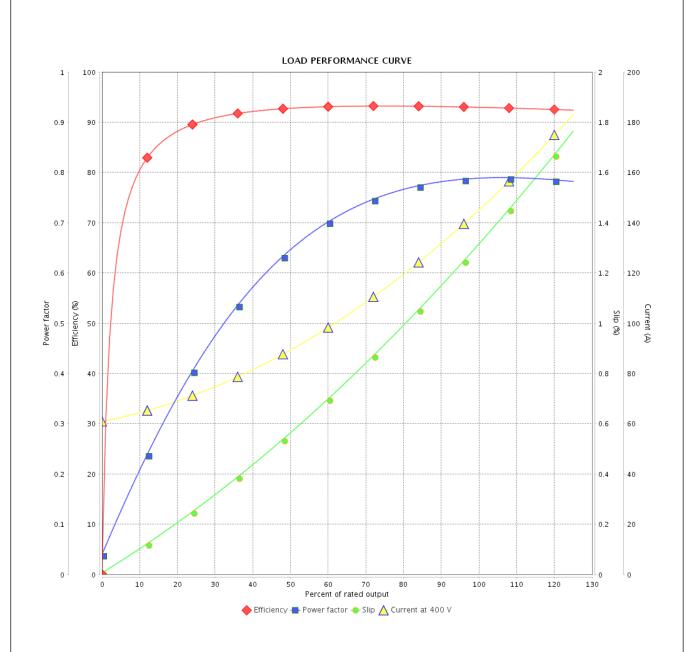


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14334990

Phase

Catalog #: 10009ET3E445T-W22



Performance	: 400 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 147 A : 5.3 : 710 ft.lb : 170 % : 200 % : 740 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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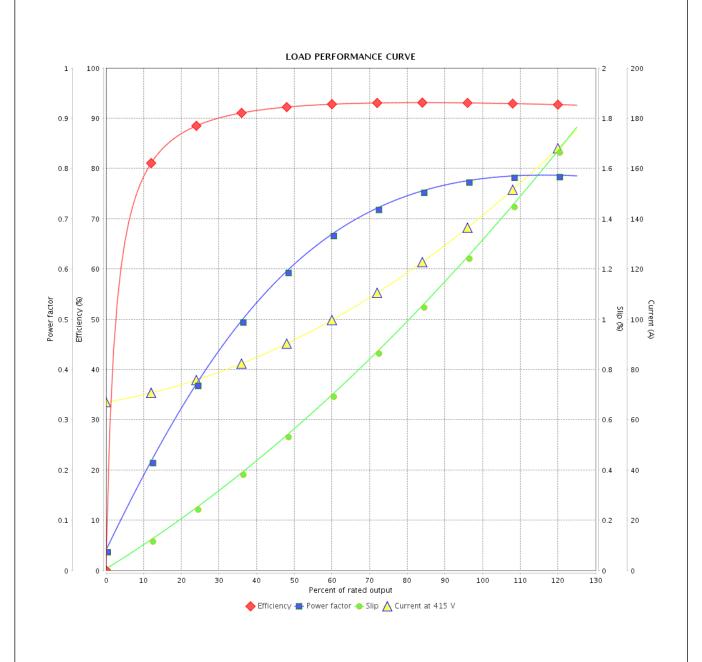


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14334990

Phase

Catalog #: 10009ET3E445T-W22



			·			
Performance	: 4	415 V 50 Hz 8P IE2	15 V 50 Hz 8P IE2			
Rated current	: '	144 A	Moment o	f inertia (J)	: 87.3 sq.ft.lb	
LRC	: 5	5.6	Duty cycle	<b>!</b>	: Cont.(S1)	
Rated torque	:	710 ft.lb	Insulation	class	: F	
Locked rotor toro	que : '	190 %	Service fa	ctor	: 1.00	
Breakdown torque : 220		220 %	Temperatu	Temperature rise		
Rated speed	: 7	740 rpm	Design		: B	
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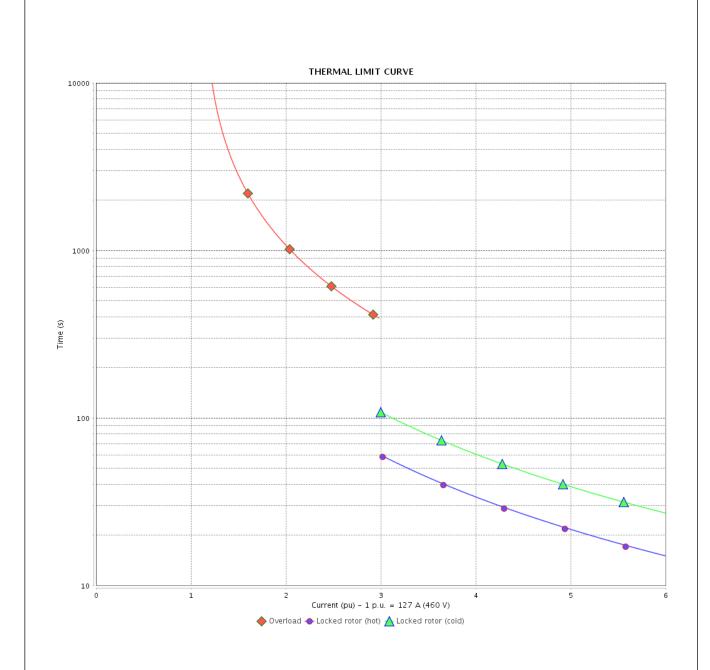


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Product line	: 1	NEMA Premium Efficiency	Γhree- I	Product code :	14334990	
		hase		Catalog # :		IET MOO
				Catalog # :	10009ET3E44	151-1022
Donformon	. 00	20/400 \/ 00 LI= 0D				
Performance Rated current		30/460 V 60 Hz 8P 54/127 A	Moment or	f inertia ( I)	: 87.3 sq.ft.lb	
LRC	: 6.	0	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 59	90 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		90 % 20 %	Service far Temperatu		: 1.25 : 80 K	
Rated speed		90 rpm	Design		: B	
Heating constant						
Cooling constant						
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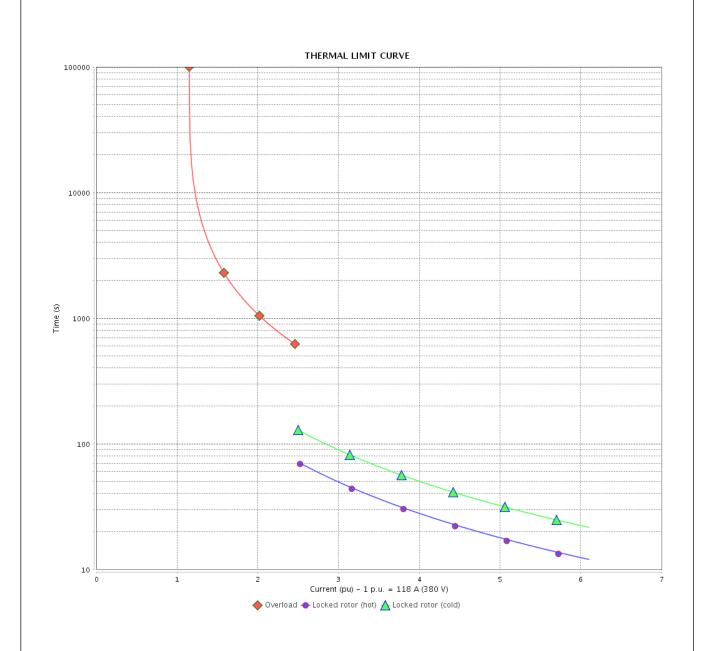


Customer	:					
Product line		NEMA Premium Efficiency <sup>-</sup> Phase		Product code : Catalog # :	14334990 10009ET3E4	45T-W22
Performance	: 3	380 V 50 Hz 8P IE3				
Rated current LRC		118 A 5.1	Moment of Duty cycle	f inertia (J)	: 87.3 sq.ft.lb : Cont.(S1)	
Rated torque	: 5	532 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu Rated speed	ue : 2	200 % 229 % 740 rpm	Service fa Temperatu Design		: 1.00 : 80 K : B	
Heating constan		ΤΟ ΙΡΙΙΙ	Design		. U	
Cooling constant						
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### Three Phase Induction Motor - Squirrel Cage



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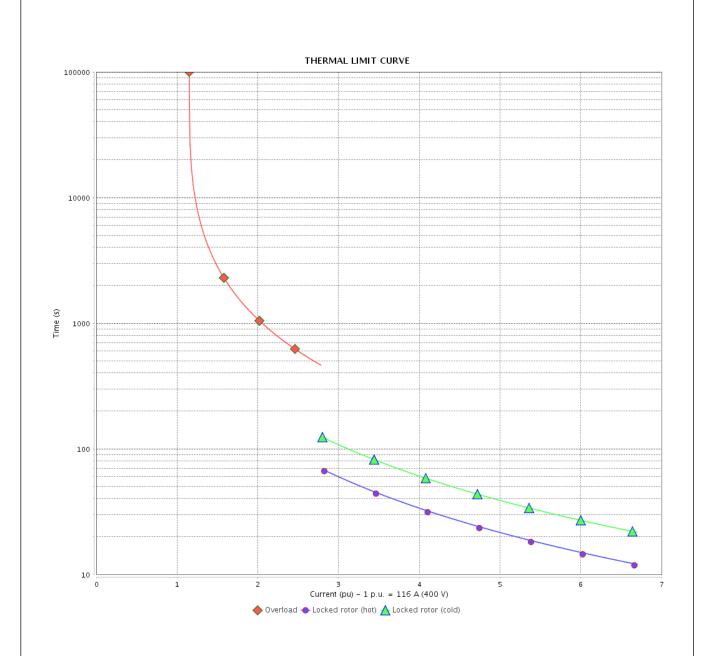


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	14334990 10009ET3E44	15T-W22
Performance		: 400 V 50 Hz 8P IE3				
Rated current LRC		: 116 A : 6.7	Moment of Duty cycle	of inertia (J) e	: 87.3 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 532 ft.lb : 229 %	Insulation Service fa	class	: F : 1.00	
Breakdown torqu	ue	: 270 %	Temperat		: 80 K	
Rated speed		: 740 rpm	Design		: B	
Heating constan						
Cooling constant	t 	Changes Summary		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

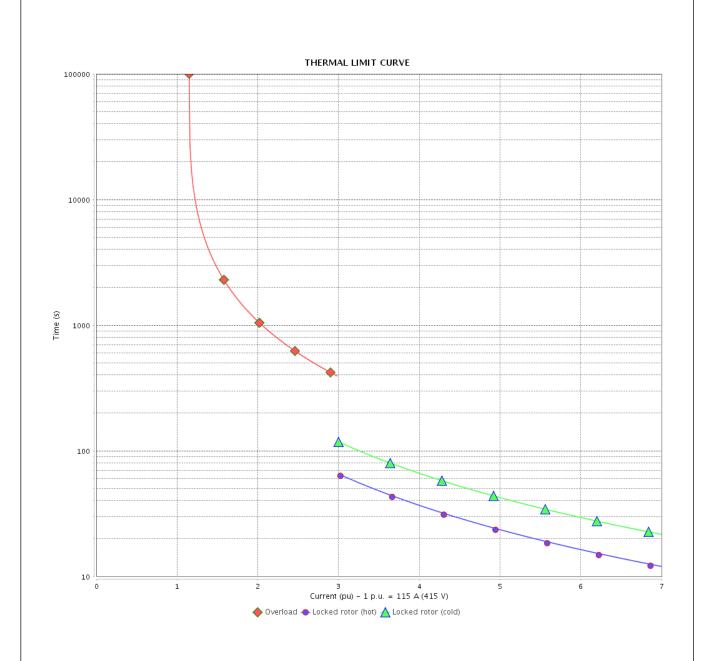


Customer	:				
Product line	: NEMA Premium Effic Phase		Product code : Catalog # :	14334990 10009ET3E4	45T-W22
Performance	: 415 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 115 A : 7.0 : 532 ft.lb : 250 % : 290 % : 740 rpm	Moment o Duty cycle Insulation Service fa Temperati Design	class ctor	: 87.3 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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### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

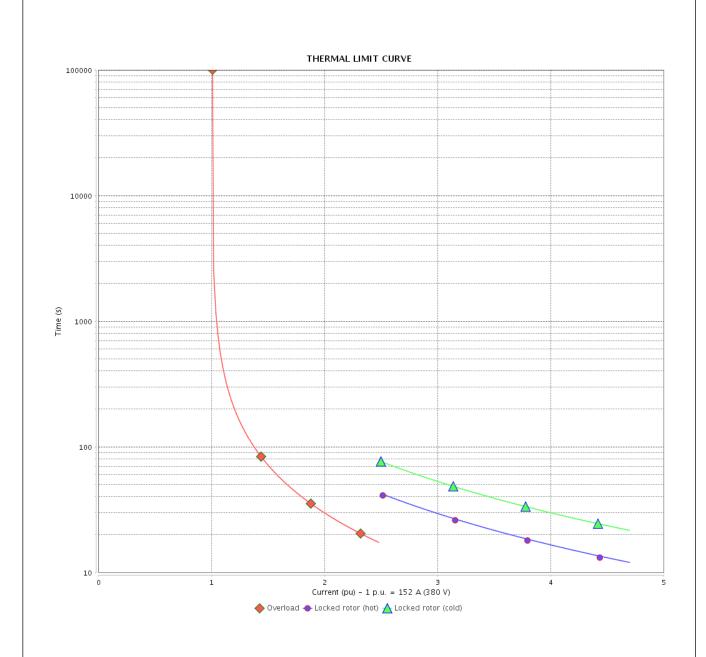


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	14334990 10009ET3E44	-5T-W22
Performance	·	: 380 V 50 Hz 8P IE2				
Rated current LRC		: 152 A : 4.7	Moment of Duty cycle	of inertia (J)	: 87.3 sq.ft.lb : Cont.(S1)	
Rated torque		: 714 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 150 % : 170 %	Service fa Temperat		: 1.00 : 105 K	
Rated speed		: 735 rpm	Design	u. 0 1100	: B	
Heating constan						
Cooling constant	t					
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### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

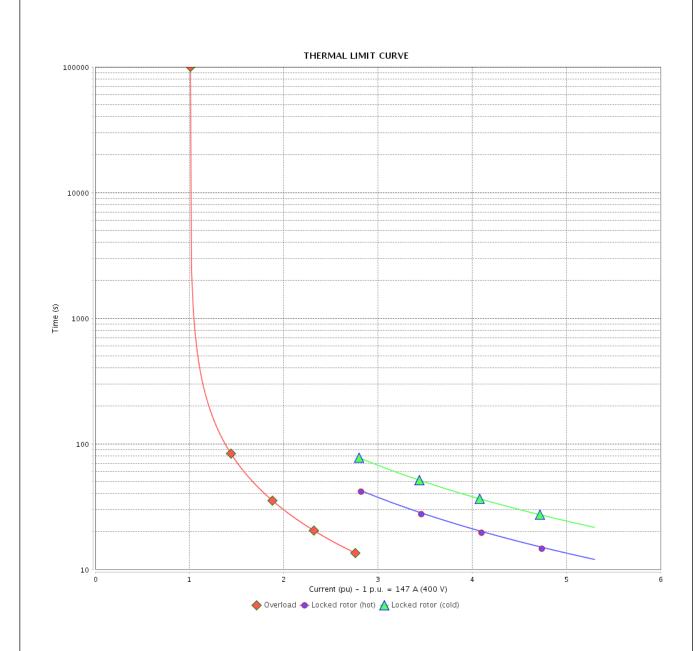


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Customer	:				
Product line	: NEMA Premium Efficiency <sup>-</sup> Phase		Product code :	14334990	
		(	Catalog # :	10009ET3E4	45T-W22
Performance	: 400 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 147 A : 5.3 : 710 ft.lb : 170 % : 200 % : 740 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class ctor	: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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Heating constant					
Cooling constant  Rev.	Changes Summary		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage

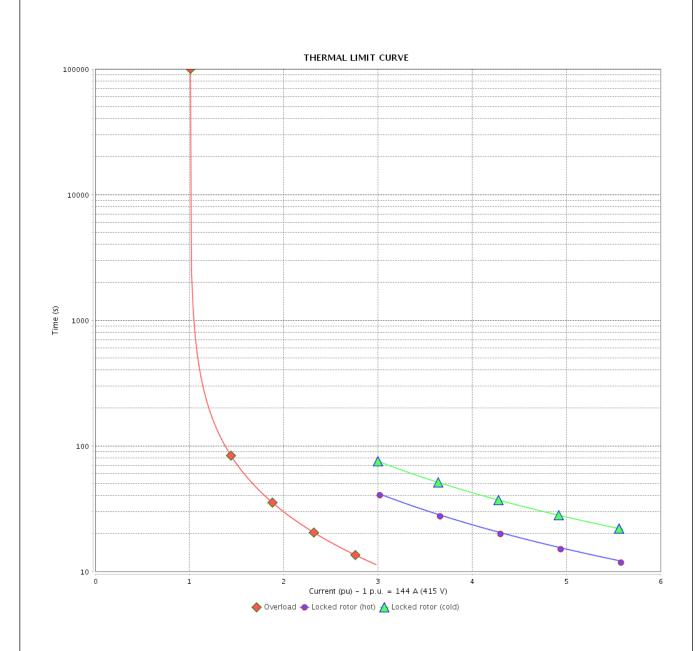


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	14334990 10009ET3E44	-5T-W22
Performance		: 415 V 50 Hz 8P IE2				
Rated current LRC Rated torque		: 144 A : 5.6 : 710 ft.lb	Duty cycle Insulation	class	: 87.3 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord Breakdown torqu		: 190 % : 220 %	Service fa Temperat		: 1.00 : 105 K	
Rated speed		: 740 rpm	Design		: B	
Heating constant Cooling constant						
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#### Three Phase Induction Motor - Squirrel Cage



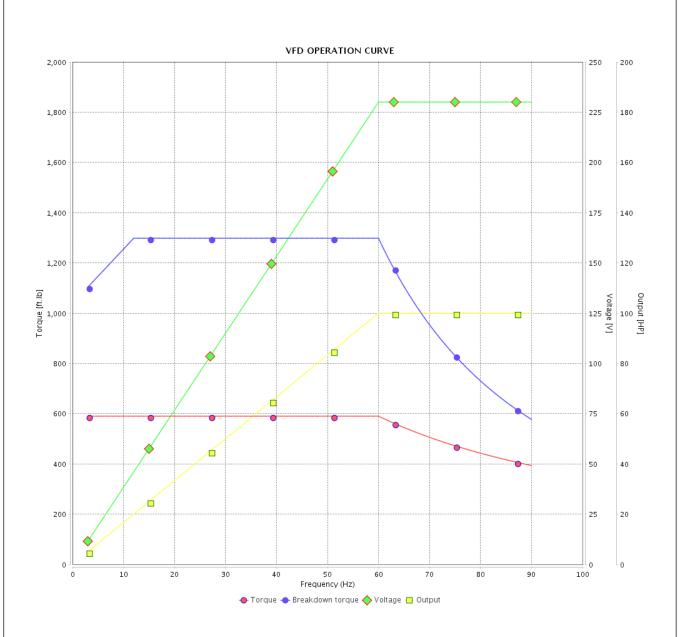
Customer :

Product line : NEMA Premium Efficiency Three- Pr

Phase

Product code: 14334990

Catalog #: 10009ET3E445T-W22



Performance	: 230/460 V 60 Hz 8P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 254/127 A : 6.0 : 590 ft.lb : 190 % : 220 % : 890 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class actor	: 87.3 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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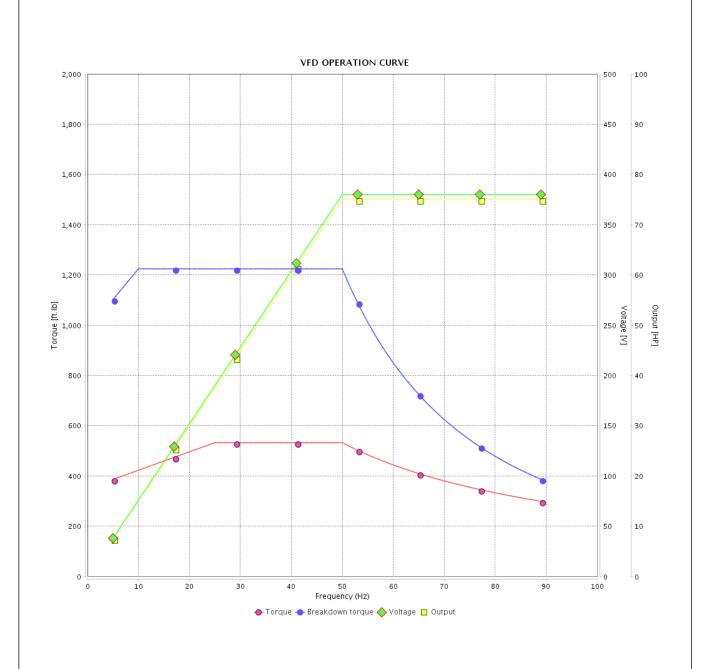
Product line : NEMA Premium Efficiency Three- Product code :

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Performance	: 38	30 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 6. : 50 e : 20 : 21	32 ft.lb 00 % 29 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		le : Cont.(S1) n class : F factor : 1.00 ture rise : 80 K	
Rated speed  Rev.	: 74	Changes Summers	Design	Performed	: B Checked	Date
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#### Three Phase Induction Motor - Squirrel Cage



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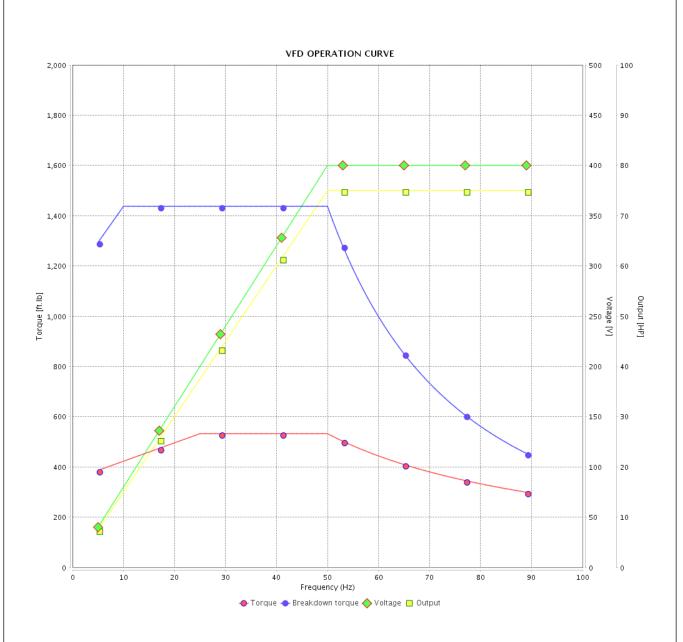
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14334990

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Performance	: 400 V 50 Hz 8P IE3				
Rated current	ted current : 116 A Moment of inertia (J)		: 87.3 sq.ft.lb		
LRC	: 6.7	Duty cycle		: Cont.(S1)	
Rated torque	: 532 ft.lb	Insulation c	lass	: F	
Locked rotor torque	: 229 %	Service fact	tor	: 1.00	
Breakdown torque	: 270 %	Temperatur	e rise	: 80 K	
Rated speed	: 740 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage

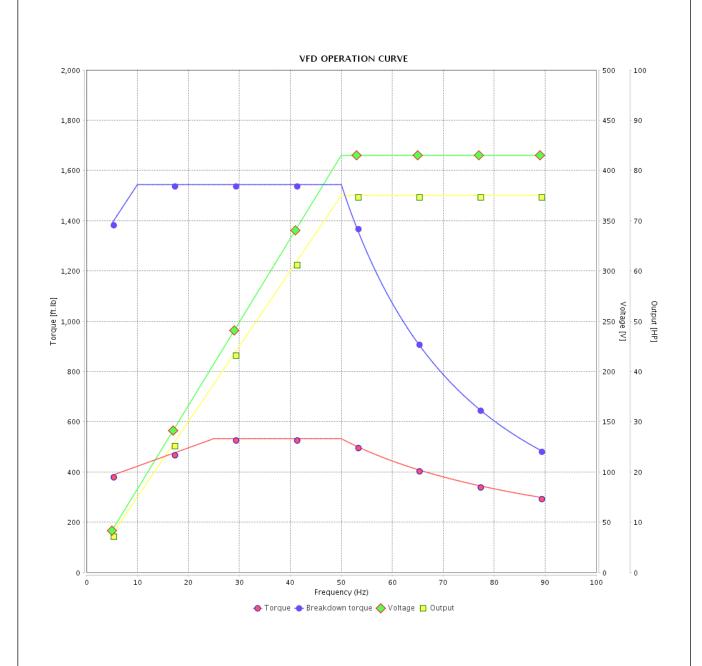


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Product line : NEMA Premium Efficiency Three- Product code : 14334990

Phase

Catalog #: 10009ET3E445T-W22



Performance	: 4	15 V 50 Hz 8P IE3				
Rated current	: 1	15 A	A Moment of inertia (J)		: 87.3 sq.ft.lb	
LRC	: 7.	.0	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 53	32 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	50 %	Service fa	ctor	: 1.00	
Breakdown torque	: 29	90 %	Temperati	ıre rise	: 80 K	
Rated speed	: 74	40 rpm	Design		: B	
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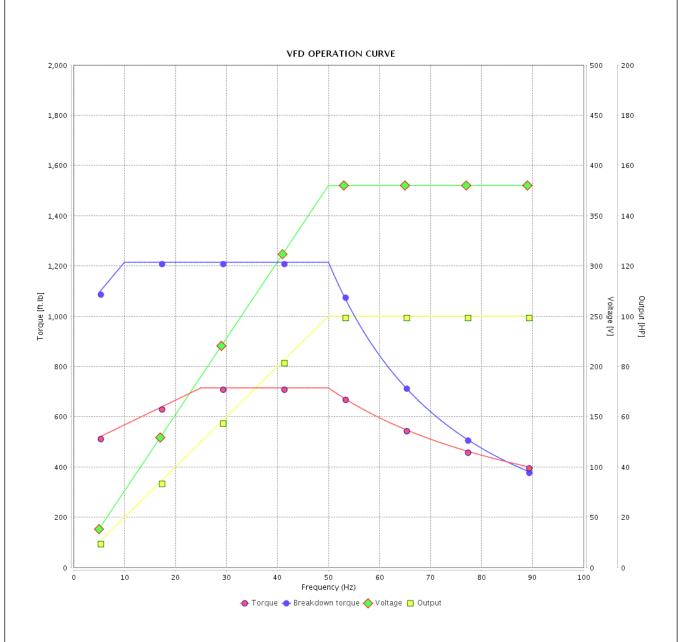
Product line : NEMA Premium Efficiency Three- Product c

Phase

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Performance	: 380 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 152 A : 4.7 : 714 ft.lb : 150 % : 170 % : 735 rpm	Moment of Duty cycle Insulation Service fa Temperation Design	class ctor	: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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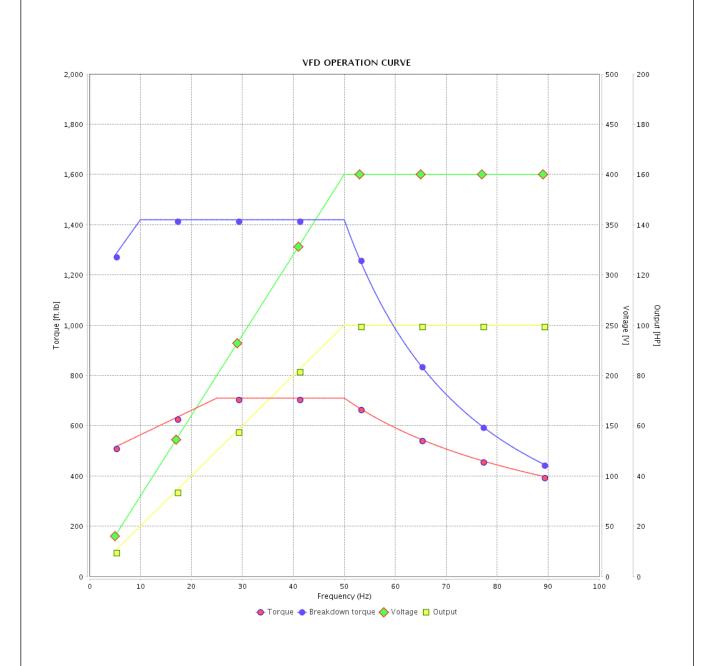
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Product line : NEMA Premium Efficiency Three- Product code : 14334990

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erformance : 400 V 50 Hz 8P IE2					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 147 A : 5.3 : 710 ft.lb : 170 % : 200 % : 740 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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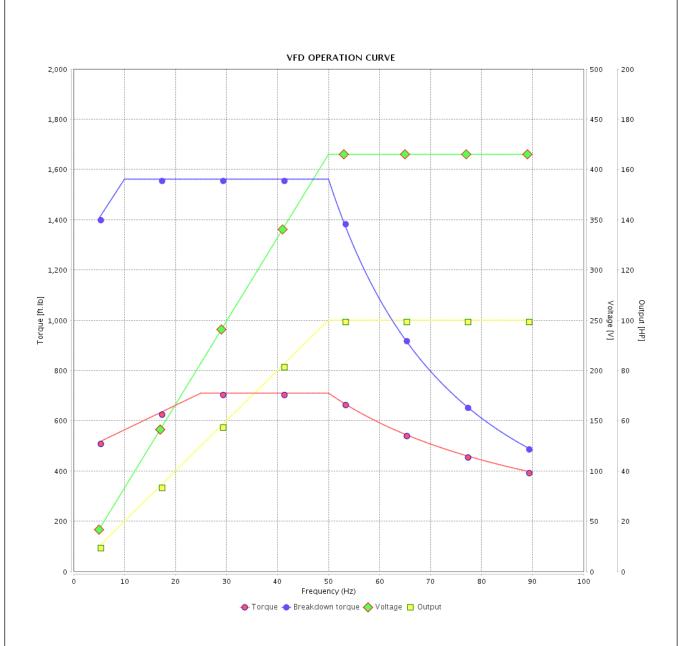
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Performance	: 415 V 50 Hz 8P IE2					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 144 A : 5.6 : 710 ft.lb : 190 % : 220 % : 740 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B		
Rev.	Changes Summary		Performed	Checked	Date	
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