### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11356018

Catalog #: 10009ET3G445T-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 Starting method Ambient temperature : Direct On Line

: 1000 m.a.s.l. Approx. weight<sup>3</sup> : 1761 lb Altitude : IP55 Protection degree Moment of inertia (J) : 87.3 sq.ft.lb

Design : B

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]		460	380	400	415	380	400	415
Rated current [A]		127	118	116	115	152	147	144
L. R. Amperes [A]		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	]	56.0	55.0	61.0	67.0	55.0	61.0	67.0
Rated speed [RPN	<b>/</b> 1]	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]	Rated torque [ft.lb]		532	532	532	714	710	710
Locked rotor torqu	Locked rotor torque [%]		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
Lincicity (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
I OWEI Facioi	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

Non drive end Foundation loads Drive end

Bearing type 6319 C3 6316 C3 Max. traction : 3281 lb Sealing WSeal WSeal : 5042 lb Max. compression

Lubrication interval 17000 h 20000 h Lubricant amount 45 g 34 g

Lubricant type Mobil Polyrex EM

Notes

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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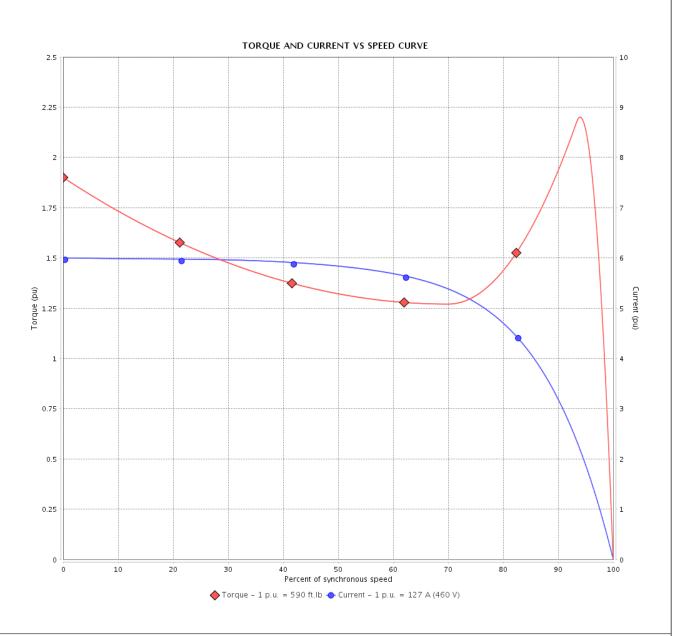


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11356018

Phase

Catalog #: 10009ET3G445T-W22



Performance	: 460 V 60 Hz 8P			
Rated current	: 127 A	Moment of inertia (J)	: 87.3 sq.ft.lb	
LRC	: 6.0	Duty cycle	: Cont.(S1)	
Rated torque	: 590 ft.lb	Insulation class	: F	
Locked rotor torque	: 190 %	Service factor	: 1.25	
Breakdown torque	: 220 %	Temperature rise	: 80 K	
Rated speed	: 890 rpm	Design	: B	
Laskad vatav timas	. 07c (cold) 45c (bot)			

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

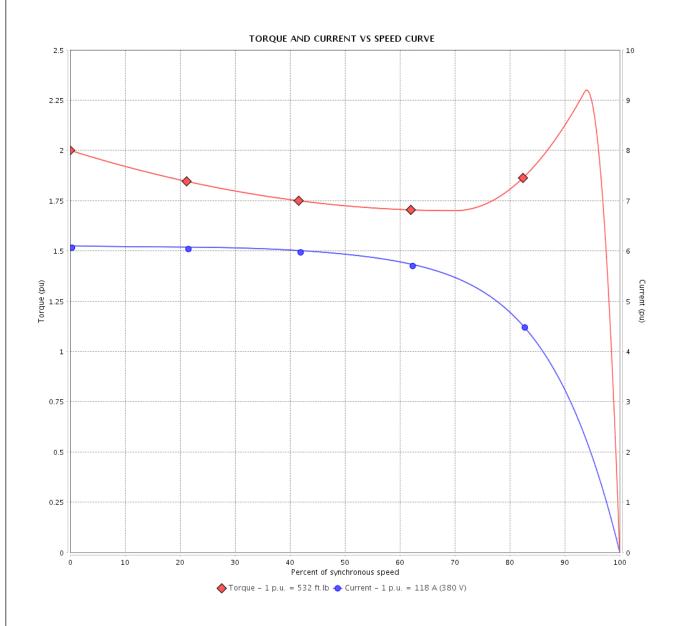
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### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11356018

> Catalog #: 10009ET3G445T-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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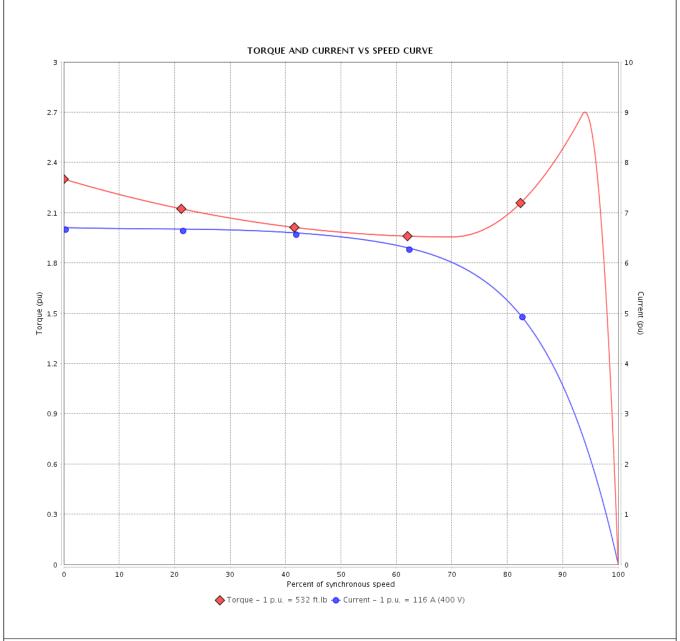
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11356018

Catalog #: 10009ET3G445T-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) : 532 ft.lb Insulation class Rated torque : 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: 11356018 Catalog #: 10009ET3G445T-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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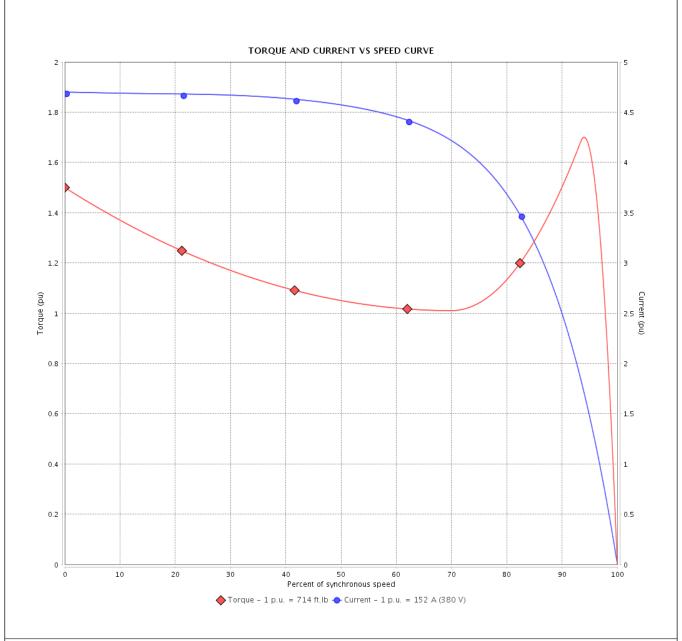
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11356018

Catalog #: 10009ET3G445T-W22



Lasterductions	. 04 - (   -   ) 40 - (   +			
Rated speed	: 735 rpm	Design	: B	
Breakdown torque	: 170 %	Temperature rise	: 105 K	
Locked rotor torque	: 150 %	Service factor	: 1.00	
Rated torque	: 714 ft.lb	Insulation class	: F	
LRC	: 4.7	Duty cycle	: Cont.(S1)	
Rated current	: 152 A	Moment of inertia (J)	: 87.3 sq.ft.lb	
Performance	: 380 V 50 Hz 8P IE2			

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: 11356018 Catalog #: 10009ET3G445T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 (pd) 1.25 Current 0.5 0.25 40 50 o. 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 Moment of inertia (J) : 87.3 sq.ft.lb : 147 A Rated current

Rated torque Locked rotor torque Breakdown torque Rated speed	ue : 17 le : 20	3 10 ft.lb 70 % 00 % 40 rpm	Duty cycle Insulation of Service factor Temperature Design	tor	: Cont.(S1) : F : 1.00 : 105 K : B	
Locked rotor time	: 2	1s (cold) 12s (hot)				
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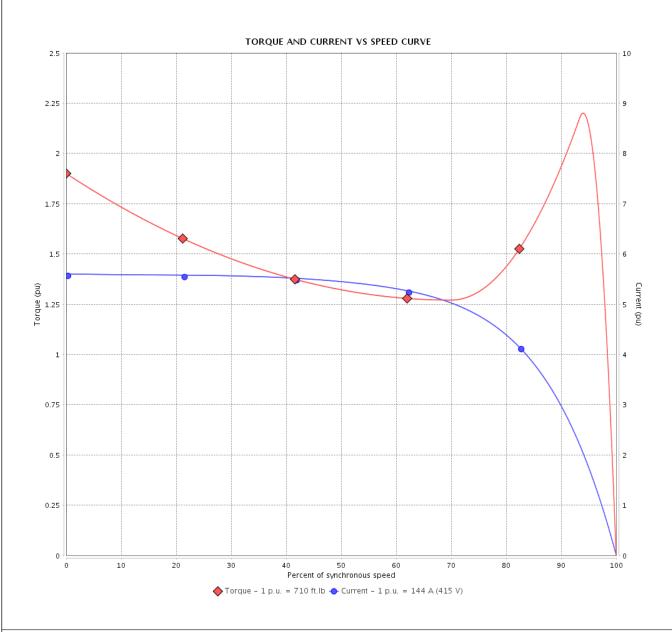
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11356018

Catalog #: 10009ET3G445T-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
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Locked rotor time : 21s (cold) 12s (hot)

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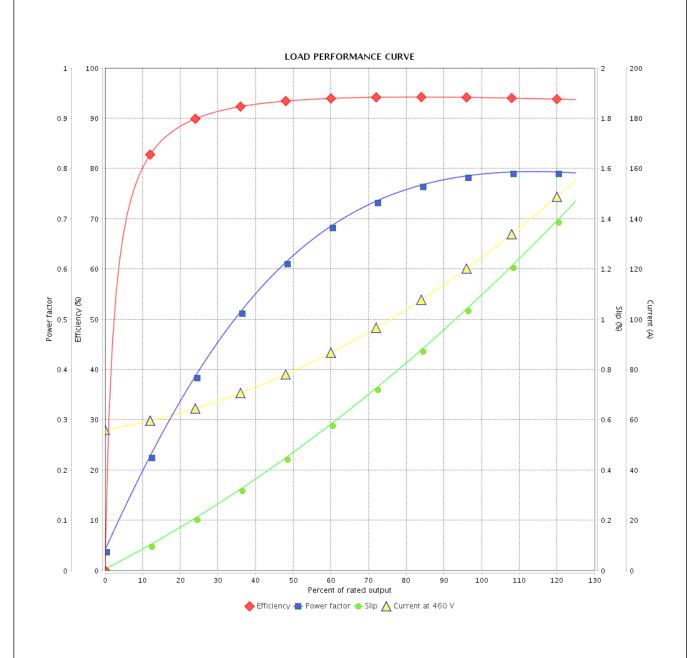
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11356018

Phase

Catalog #: 10009ET3G445T-W22

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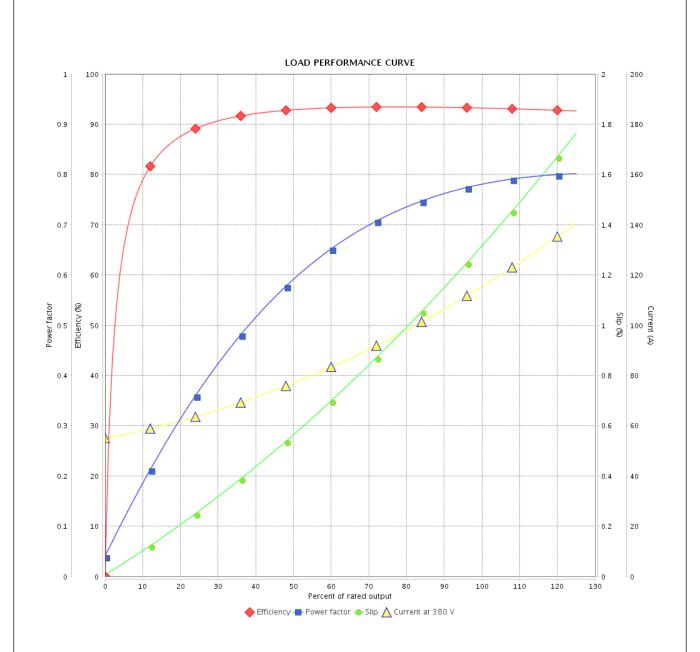
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 10009ET3G445T-W22

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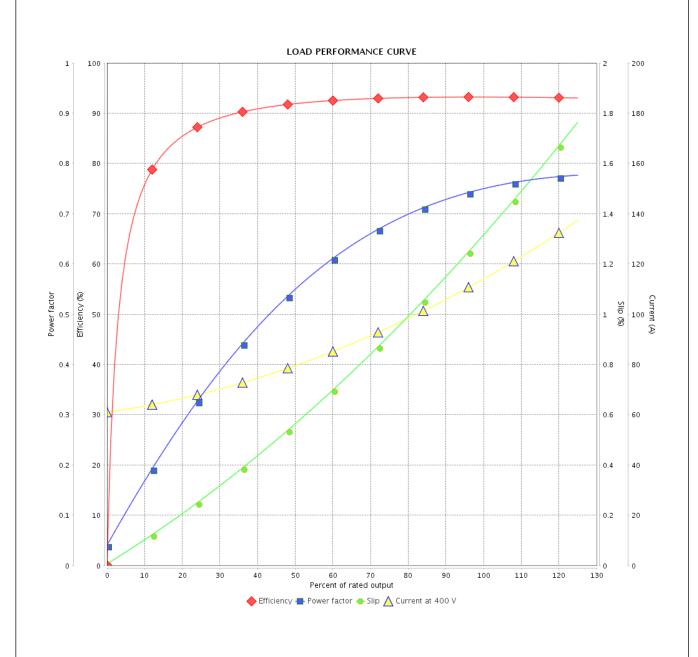


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11356018

Phase

Catalog #: 10009ET3G445T-W22



			·			
Performance	: 4	400 V 50 Hz 8P IE3	3			
Rated current	: '	116 A	Moment o	f inertia (J)	: 87.3 sq.ft.lb	
LRC	: (	6.7	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 5	532 ft.lb	Insulation	class	: F	
Locked rotor torque		229 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 2	270 %	Temperature rise		: 80 K	
Rated speed	: 7	740 rpm	Design		: B	
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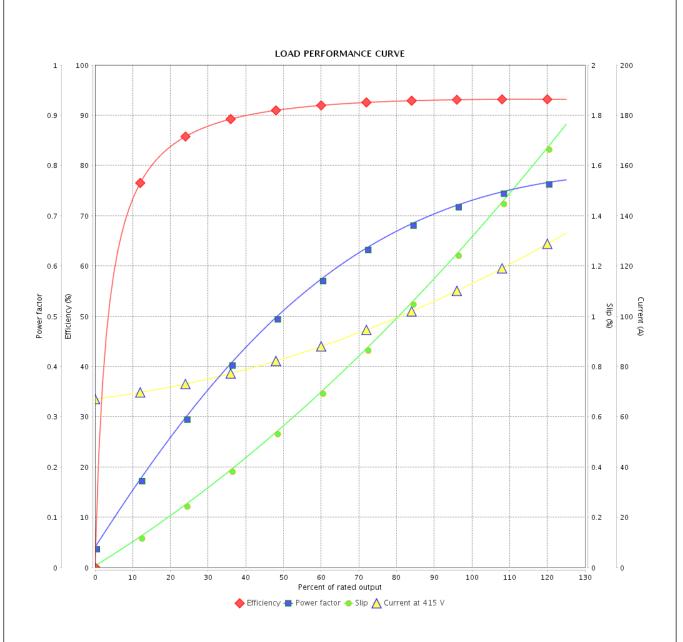
Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11356018

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Performance	: 415 V 50 Hz 8P IE3				
Rated current LRC	: 115 A Moment of inertia (J)		J)	: 87.3 sq.ft.lb	
Rated torque				: Cont.(S1) : F	
Locked rotor torque	: 250 %	Service factor		: 1.00	
Breakdown torque	: 290 %	Temperature rise		: 80 K	
Rated speed	: 740 rpm	Design		: B	
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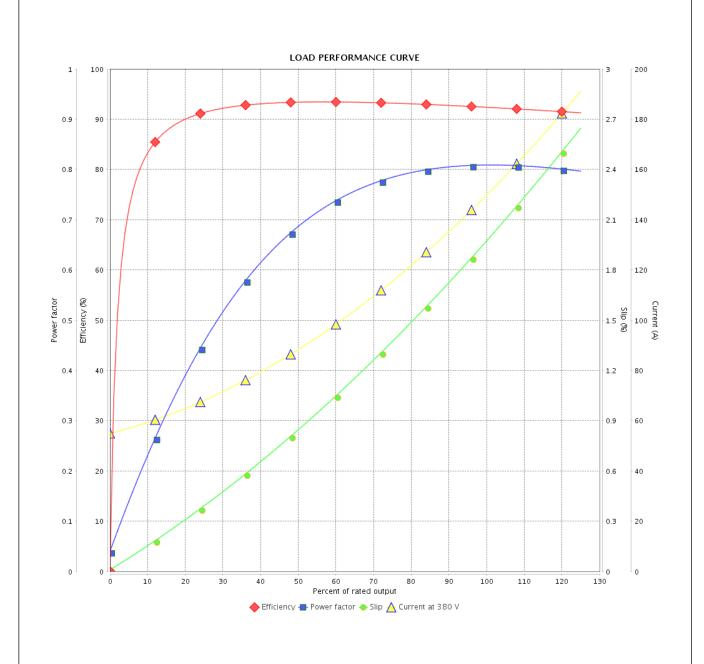


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11356018

Phase

Catalog #: 10009ET3G445T-W22



Performance	: 3	80 V 50 Hz 8P IE2				
Rated current	: 1	52 A	Moment o	f inertia (J)	: 87.3 sq.ft.lb	
LRC		.7	Duty cycle	<b>!</b>	: Cont.(S1)	
Rated torque		'14 ft.lb	Insulation	class	: F	
Locked rotor torque		50 %	Service fa	ctor	: 1.00	
Breakdown torque	: 1	70 %	7 % Temperature rise		: 105 K	
Rated speed	: 7	'35 rpm	Design		: B	
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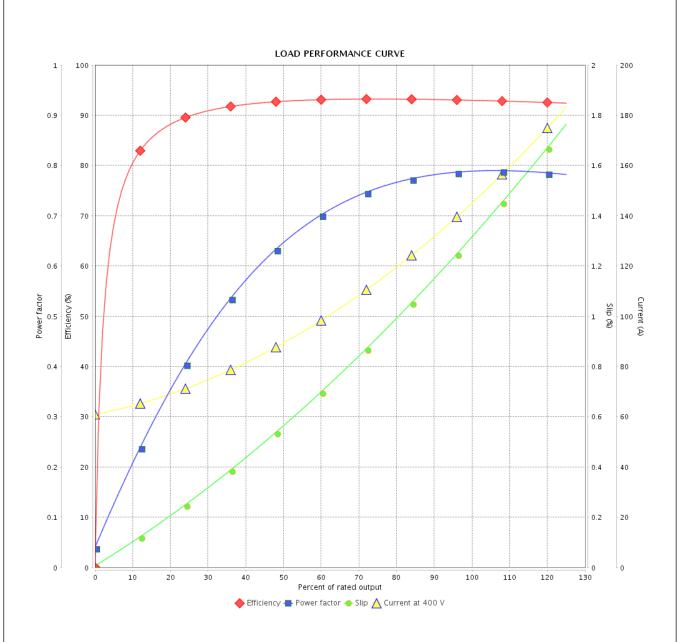
Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11356018

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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 Temperature Design	class ctor	: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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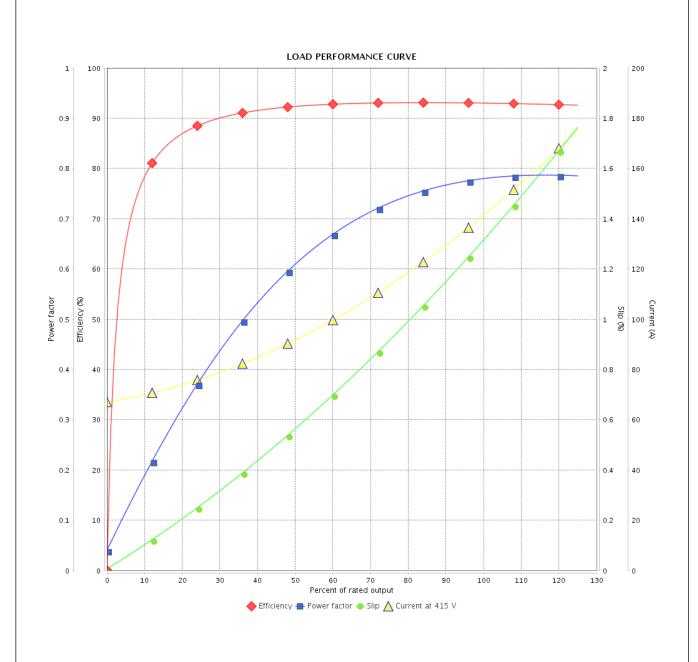


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11356018

Phase

Catalog #: 10009ET3G445T-W22



Performance	: 4	15 V 50 Hz 8P IE2				
Rated current	ı		1	of inertia (J)	: 87.3 sq.ft.lb	
LRC	: 5.	-	Duty cycle		: Cont.(S1)	
Rated torque	: 7	10 ft.lb	Insulation	class	: F	
Locked rotor torque : 190		90 %	Service fa	actor	: 1.00	
Breakdown torque		20 %	Temperature rise		: 105 K	
Rated speed	: 74	40 rpm	Design		: B	
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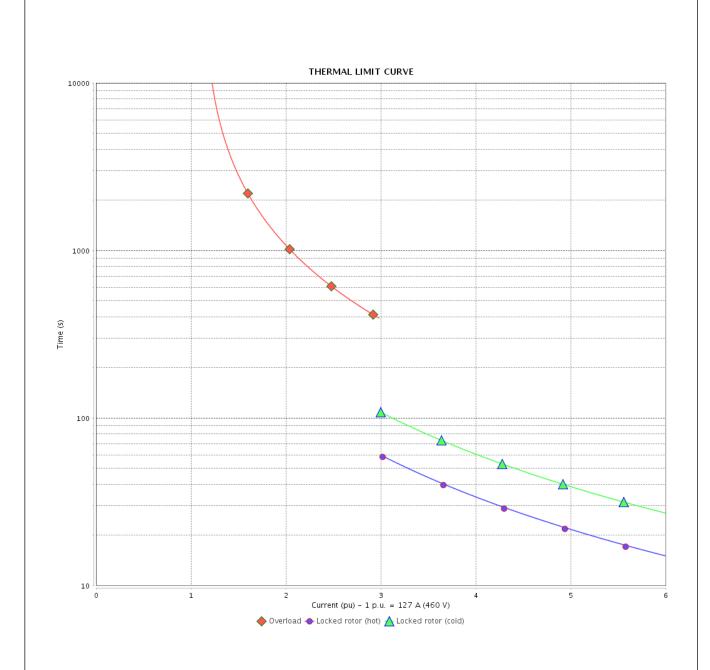


Customer	:				
Product line	: NEMA Premium Efficienc Phase		Product code :	11356018	45T W00
			Catalog # :	10009ET3G4	1451-W22
Performance	: 460 V 60 Hz 8P				
Rated current LRC	: 127 A : 6.0	Moment of Duty cycle	of inertia (J)	: 87.3 sq.ft.lb : Cont.(S1)	
Rated torque	: 590 ft.lb	Insulation	class	: F	
Locked rotor torque	: 190 % : 220 %	Service fa		: 1.25 : 80 K	
Breakdown torque Rated speed	: 890 rpm	Temperat Design	ure rise	: 80 K	
Heating constant		-			
Cooling constant					
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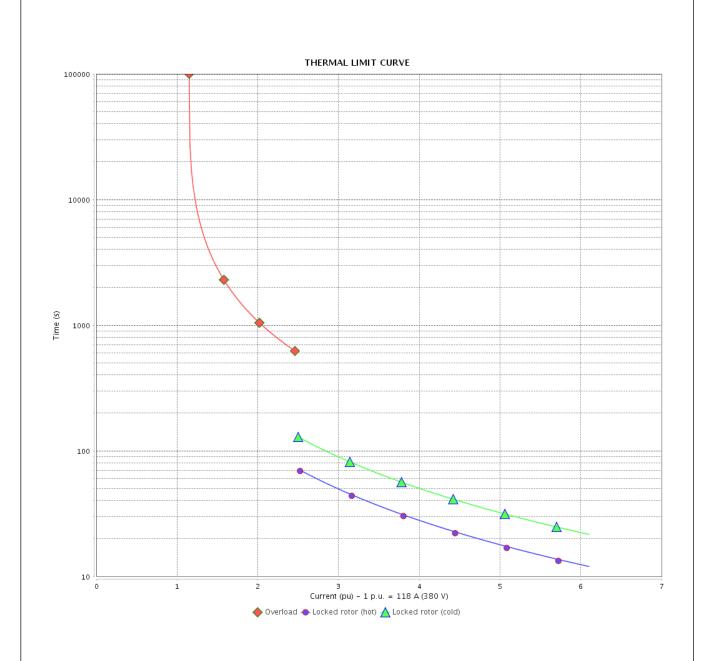


Customer	:					
Product line	: l P	NEMA Premium Efficiency l hase		Product code :	11356018	
			(	Catalog # :	10009ET3G4	45T-W22
Performance	: 38	80 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 6. : 5: ue : 2: e : 2:	18 A .1 32 ft.lb 00 % 29 % 40 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class ctor	: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Heating constant						
Cooling constant		01	Г	Dest	01- 1	<b>D</b> :
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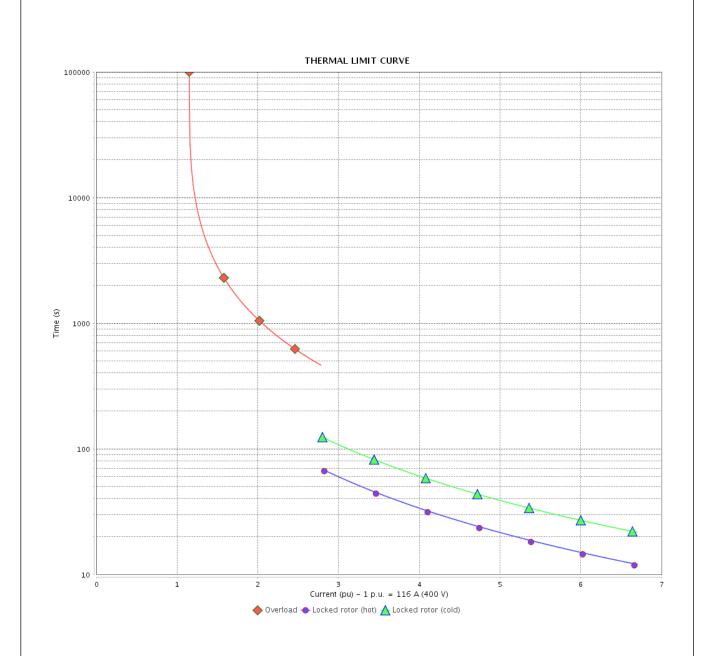


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11356018 10009ET3G44	45T-W22
Performance		: 400 V 50 Hz 8P IE3				
Rated current LRC		: 116 A : 6.7	Moment of Duty cycle	of inertia (J)	: 87.3 sq.ft.lb : Cont.(S1)	
Rated torque		: 532 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 229 % : 270 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 740 rpm	Design		: B	
Heating constan						
Cooling constan	t	Changes Cummers		Dorform	Charles	Doto
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## Three Phase Induction Motor - Squirrel Cage



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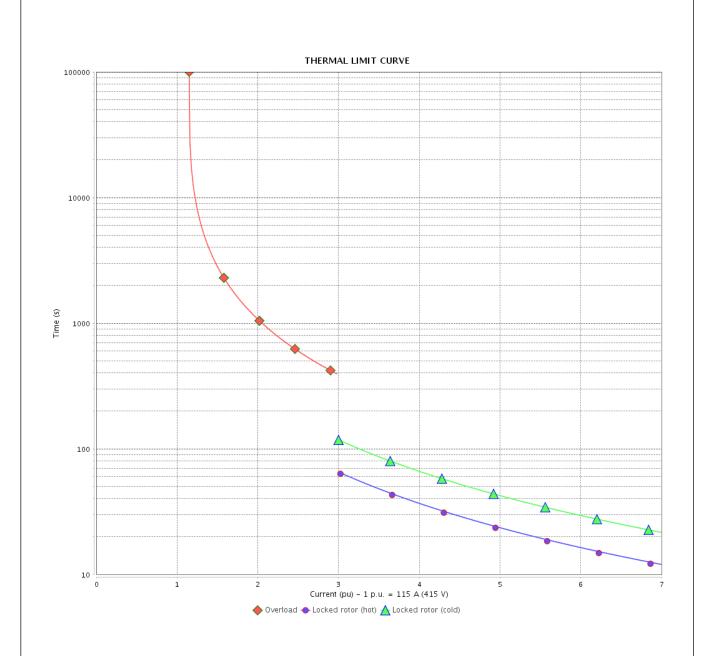


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11356018 10009ET3G44	15T-W22
Performance		: 415 V 50 Hz 8P IE3				
Rated current LRC		: 115 A : 7.0	Duty cycle		: 87.3 sq.ft.lb : Cont.(S1)	
Rated torque		: 532 ft.lb : 250 %	Insulation Service fa		: F : 1.00	
Locked rotor tord Breakdown torqu		: 250 % : 290 %	Temperat		: 1.00 : 80 K	
Rated speed		: 740 rpm	Design		: B	
Heating constan						
Cooling constan	t 	Changes Commercial		Doutour	Charles	Data
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## Three Phase Induction Motor - Squirrel Cage



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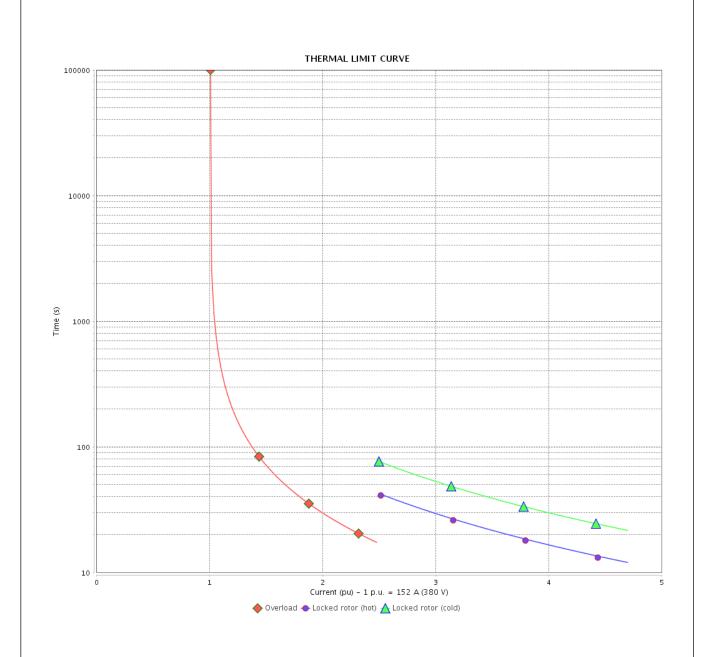


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	11356018	
	P	hase		Catalog # :	10009ET3G44	45T-W22
Performance		80 V 50 Hz 8P IE2		<b>5</b> : (: ( )	07.0 6.11	
Rated current LRC	: 4.		Duty cycle	f inertia (J)	: 87.3 sq.ft.lb : Cont.(S1)	
Rated torque		14 ft.lb 50 %	Insulation Service fa	class	: F : 1.00	
Locked rotor torque Breakdown torque		70 %	Temperatu		: 1.00 : 105 K	
Rated speed		35 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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## Three Phase Induction Motor - Squirrel Cage



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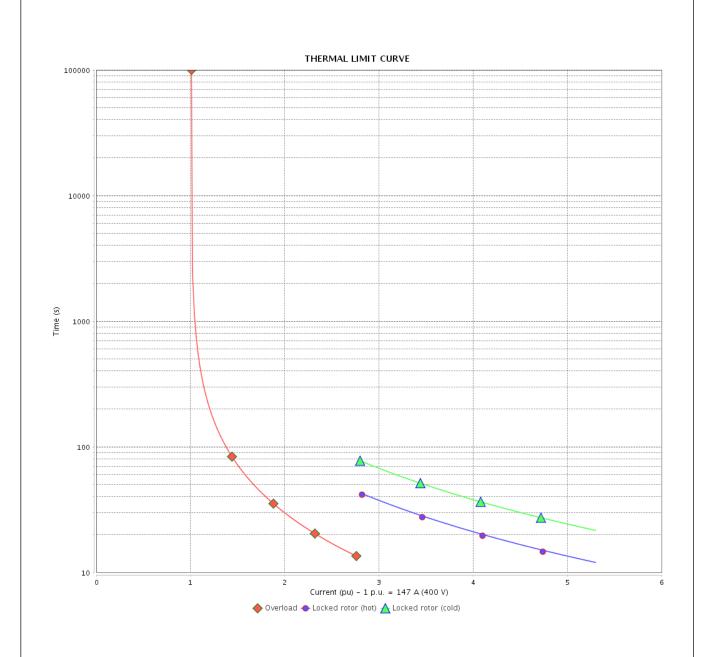


Customer	:				
Product line	: NEMA Premium Efficiency <sup>-</sup> Phase		Product code :	11356018	
		(	Catalog # :	10009ET3G4	45T-W22
Performance	: 400 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 147 A : 5.3 : 710 ft.lb : 170 % : 200 % : 740 rpm	Moment o Duty cycle Insulation Service fa 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

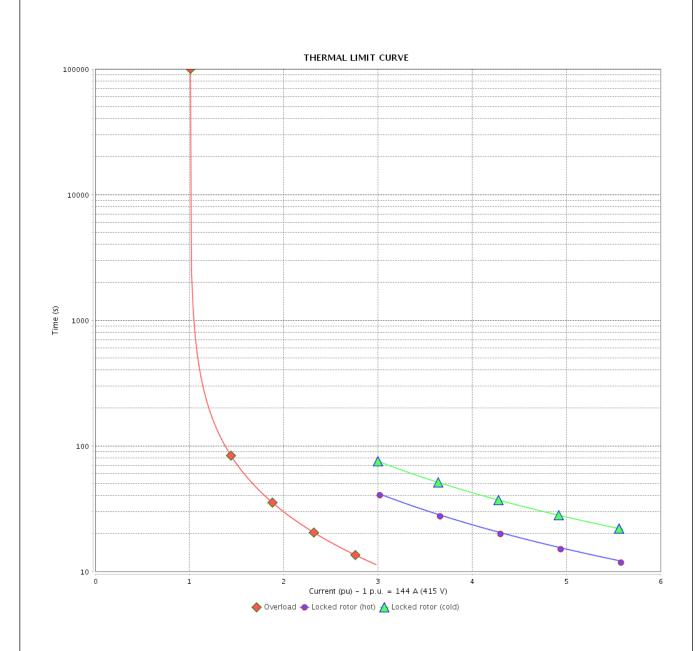


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11356018 10009ET3G44	15T-W22
Performance		: 415 V 50 Hz 8P IE2				
Rated current LRC Rated torque		: 144 A : 5.6 : 710 ft.lb	Duty cycle Insulation	class	: 87.3 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord Breakdown tord		: 190 % : 220 %	Service fa Temperat		: 1.00 : 105 K	
Rated speed		: 740 rpm	Design		: B	
Heating constan Cooling constan						
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## Three Phase Induction Motor - Squirrel Cage



Customer



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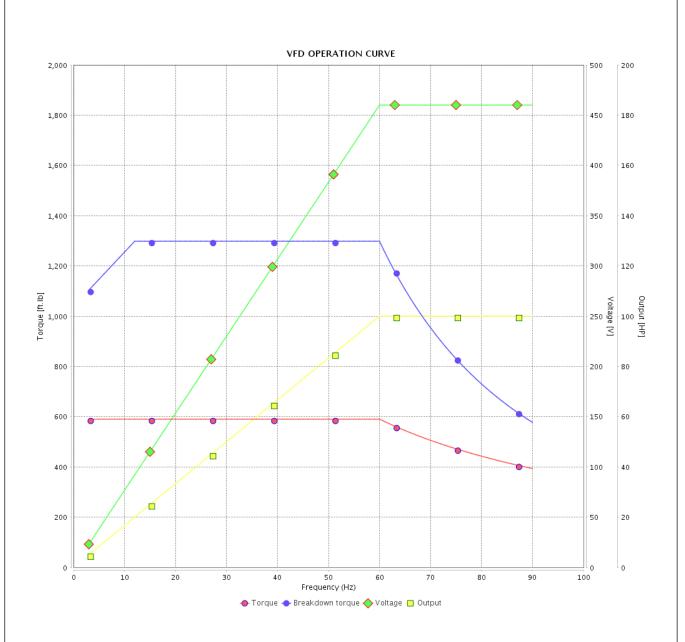
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11356018

Catalog #: 10009ET3G445T-W22



Performance	: 46	60 V 60 Hz 8P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 59 que : 19 ie : 22	27 A 0 90 ft.lb 90 % 20 % 90 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 87.3 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



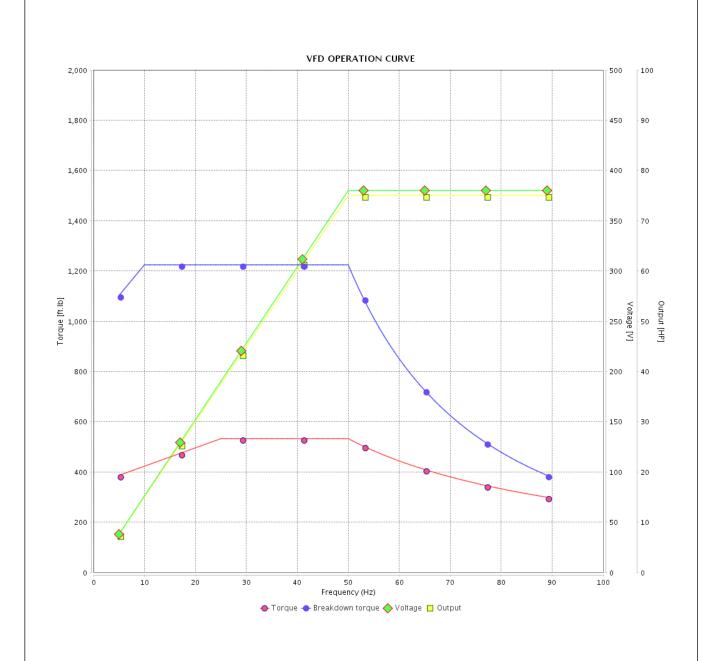
Customer

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11356018

Catalog #: 10009ET3G445T-W22



Performance	:	380 V 50 Hz 8P IE3				
Rated current	:	118 A	Moment o	f inertia (J)	: 87.3 sq.ft.lb	
LRC	:	6.1	Duty cycle	<del>)</del>	: Cont.(S1)	
Rated torque	:	532 ft.lb	Insulation	class	: F	
Locked rotor torque	e ::	200 %	Service fa	ctor	: 1.00	
Breakdown torque	::	229 %	Temperati	ure rise	: 80 K	
Rated speed	:	740 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

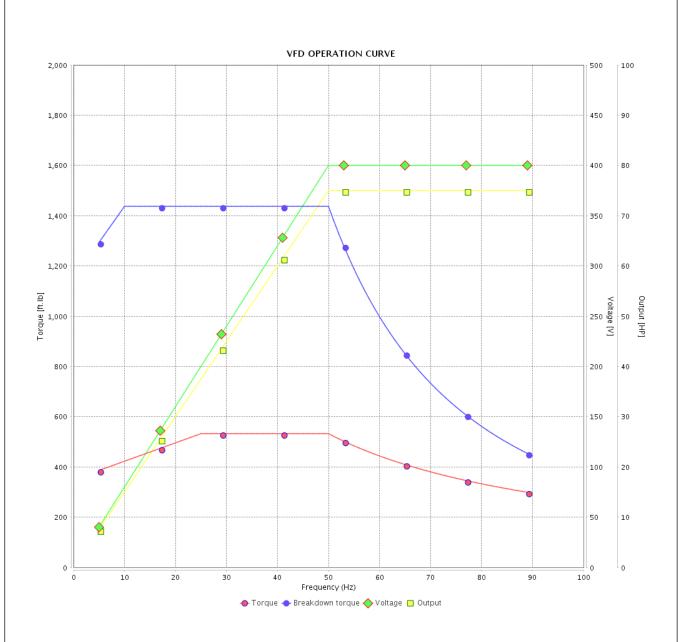
Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 11356018

Catalog #: 10009ET3G445T-W22

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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)	
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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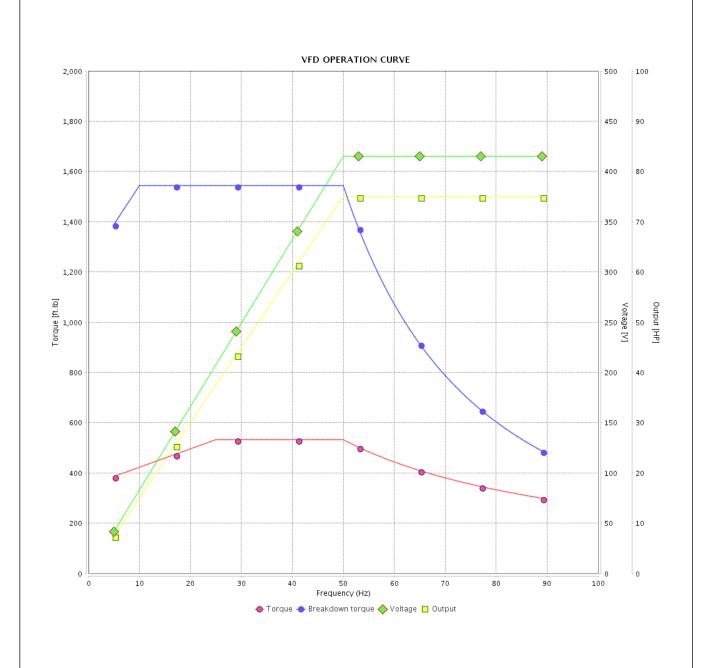
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11356018

Catalog #: 10009ET3G445T-W22



Performance : 4		415 V 50 Hz 8P IE3						
Rated current :		15 A	Moment of inertia (J)		: 87.3 sq.ft.lb			
LRC Rated torque Locked rotor torque		7.0 Duty cy 532 ft.lb Insulation 250 % Service		<b>:</b>	: Cont.(S1)			
				class	: F			
				ctor	: 1.00			
Breakdown torque	: 2	90 %	Temperati	Temperature rise				
Rated speed	: 7	: 740 rpm Desig			: B			
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#### Three Phase Induction Motor - Squirrel Cage



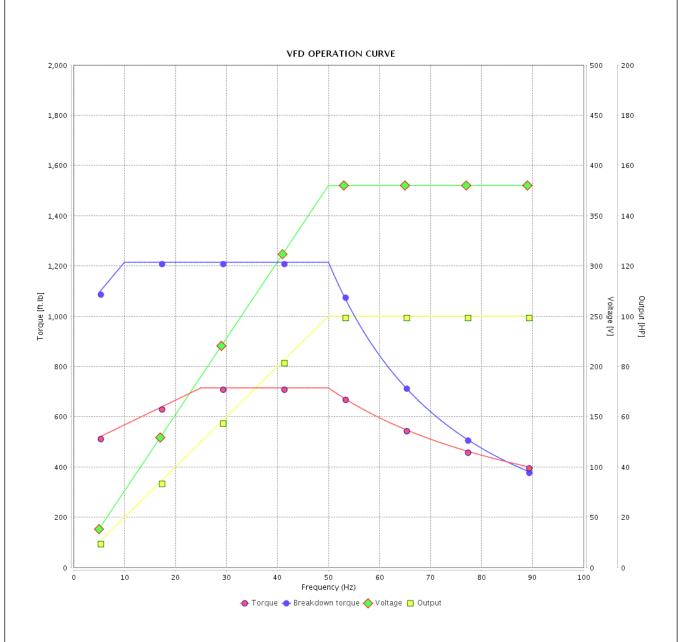
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11356018

Catalog #: 10009ET3G445T-W22



Performance	: 3	: 380 V 50 Hz 8P IE2						
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 4 : 7 uue : 1 e : 1	52 A 7 114 ft.lb 50 % 70 % '35 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B		
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#### Three Phase Induction Motor - Squirrel Cage

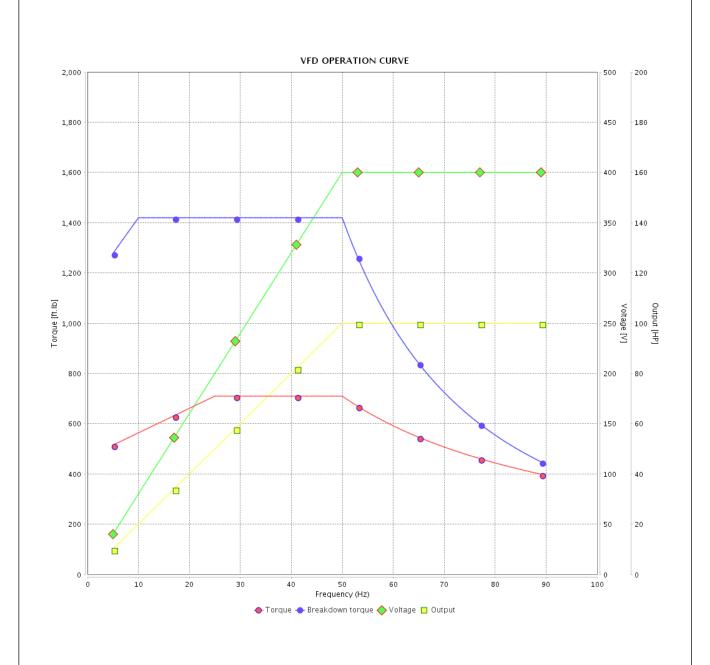


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11356018

Phase

Catalog #: 10009ET3G445T-W22



Performance : 4		400 V 50 Hz 8P IE2						
Rated current : 1		47 A	Moment of inertia (J)		: 87.3 sq.ft.lb			
LRC :		5.3	Duty cycle		: Cont.(S1)			
Rated torque :		'10 ft.lb	Insulation class		:F			
Locked rotor torque		70 %	Service fa	Service factor		: 1.00		
Breakdown torque	: 2	: 200 %		Temperature rise				
Rated speed	: 7	'40 rpm	Design	Design				
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

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Date

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Product line : NEMA Premium Efficiency Three-

Phase

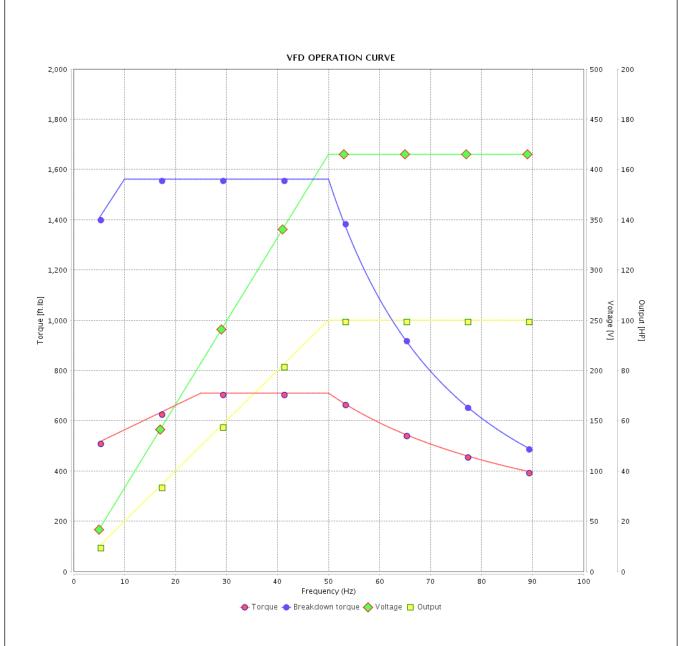
Product code: 11356018

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	1					
Performance	: 4	15 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5 : 7 que : 1 ue : 2	44 A 5.6 710 ft.lb 90 % 220 % 740 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ector	: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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