### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11431289

Catalog #: 20036ET3G447TS-W22

Frame : 445/7TS 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

: 2047 lb : 1000 m.a.s.l. Altitude Approx. weight<sup>3</sup>

Protection degre	е	: IP55		Momer	nt of inertia (J)	) : 4	4.7 sq.ft.lb	
Design		: B						
Output [HP]		200	150	150	150	200	200	200
Poles		2	2	2	2	2	2	2
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		460	380	400	415	380	400	415
Rated current [A]		219	193	183	178	268	253	244
L. R. Amperes [A]		1424	1312	1391	1477	1447	1543	1635
LRC [A]		6.5x(Code	6.8x(Code	7.6x(Code H)	8.3x(Code H)	5.4x(Code E)	6.1x(Code F)	6.7x(Code
		G)	G)					G)
No load current [A		45.0	44.0	47.0	49.3	42.0	45.0	47.0
Rated speed [RPN	<b>/</b> 1]	3570	2975	2980	2980	2960	2965	2970
Slip [%]		0.83	0.83	0.67	0.67	1.33	1.17	1.00
Rated torque [ft.lb]		294	265	264	264	355	354	354
Locked rotor torqu	e [%]	210	210	220	229	160	180	200
Breakdown torque	[%]	229	260	290	320	190	220	229
Service factor		1.15	1.15	1.15	1.15	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		25s (cold)	50s (cold)	46s (cold)	43s (cold)	18s (cold)	18s (cold)	18s (cold)
		14s (hot)	28s (hot)	26s (hot)	24s (hot)	10s (hot)	10s (hot)	10s (hot)
Noise level <sup>2</sup>		81.0 dB(A)						
	25%	94.9	94.9	94.9	94.9	95.3	94.9	95.2
Efficiency (%)	50%	95.0	95.0	95.0	95.0	95.0	95.0	95.0
Emcleticy (%)	75%	95.4	95.2	95.3	95.3	95.0	95.0	95.4
	100%	95.4	95.2	95.3	95.3	94.5	95.0	95.0
	25%	0.64	0.63	0.59	0.57	0.70	0.67	0.65
Power Factor	50%	0.86	0.85	0.83	0.82	0.88	0.87	0.86

Drive end Non drive end Foundation loads

0.89

0.91

0.88

0.90

6314 C3 Bearing type 6314 C3 Max. traction : 1144 lb Sealing WSeal WSeal Max. compression : 3191 lb

0.90

0.91

4000 h 27 g Lubricant amount 27 g

0.89

0.90

4000 h

75%

100%

Lubricant type Mobil Polyrex EM

Notes

Power Factor

Lubrication interval

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.

0.90

0.90

0.89

0.90

0.89

0.90

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#### Three Phase Induction Motor - Squirrel Cage



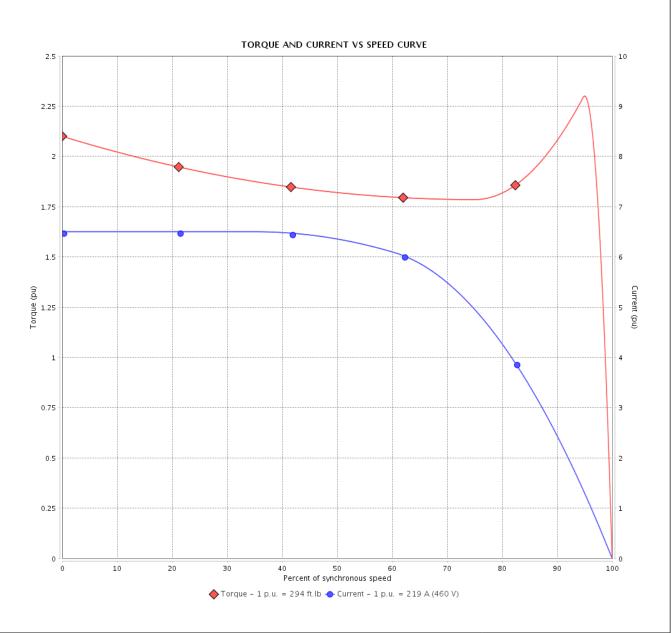
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11431289

Catalog #: 20036ET3G447TS-W22



Performance : 460 V 60 Hz 2P Rated current : 219 A Moment of inertia (J) : 44.7 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 294 ft.lb : F Service factor Locked rotor torque : 210 % : 1.15 : 229 % Breakdown torque Temperature rise : 80 K Rated speed : 3570 rpm Design : B

Locked rotor time : 25s (cold) 14s (hot)

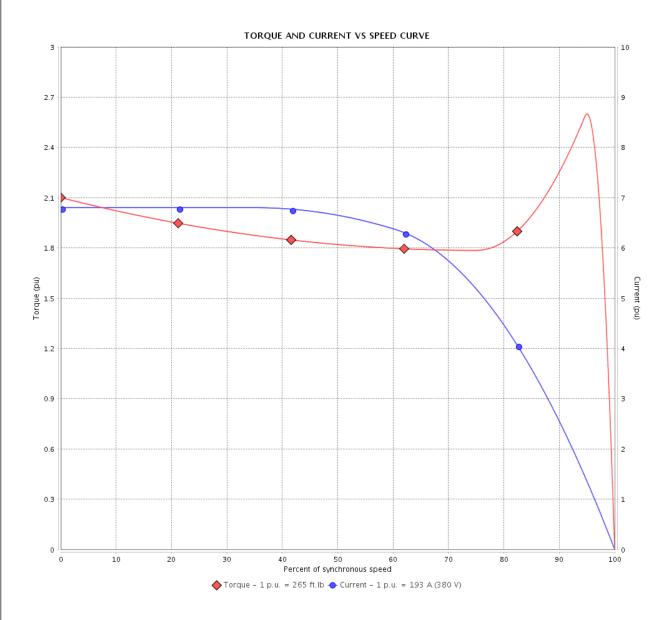
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#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11431289

> Catalog #: 20036ET3G447TS-W22



Performance	: 380 V 50 Hz 2P IE3			
Rated current	: 193 A	Moment of inertia (J)	: 44.7 sq.ft.lb	
LRC	: 6.8	Duty cycle	: Cont.(S1)	
Rated torque	: 265 ft.lb	Insulation class	: F	
Locked rotor torque	: 210 %	Service factor	: 1.15	
Breakdown torque	: 260 %	Temperature rise	: 80 K	
Rated speed	: 2975 rpm	Design	: B	
Locked rotor time	: 50s (cold) 28s (hot)			

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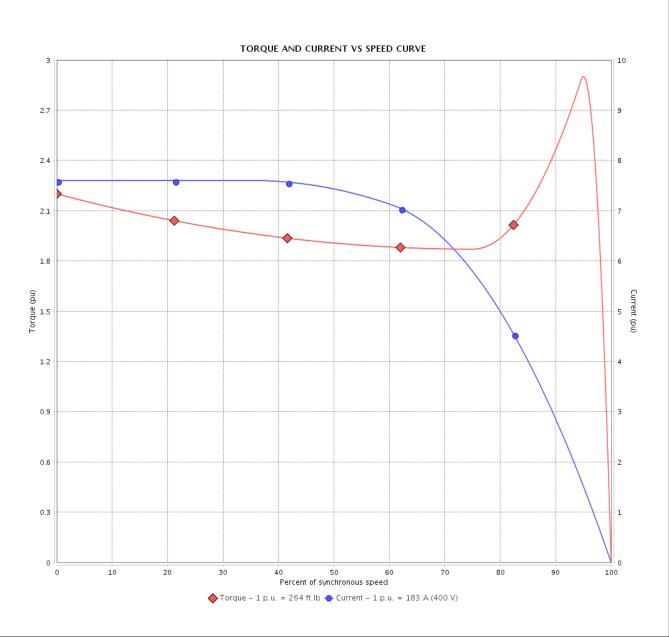
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11431289

Catalog #: 20036ET3G447TS-W22



Performance : 400 V 50 Hz 2P IE3 Rated current : 183 A Moment of inertia (J) : 44.7 sq.ft.lb **LRC** : 7.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 264 ft.lb : F Locked rotor torque : 220 % Service factor : 1.15 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 2980 rpm Design : B

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: 11431289 Catalog #: 20036ET3G447TS-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Current Torque (pu) 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 264 ft.lb ◆ Current - 1 p.u. = 178 A (415 V) Performance : 415 V 50 Hz 2P IE3 Rated current : 178 A Moment of inertia (J) : 44.7 sq.ft.lb **LRC** : 8.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 264 ft.lb : F : 229 % Locked rotor torque Service factor : 1.15 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 2980 rpm Design : B Locked rotor time : 43s (cold) 24s (hot) Rev. Performed Checked Date **Changes Summary** 

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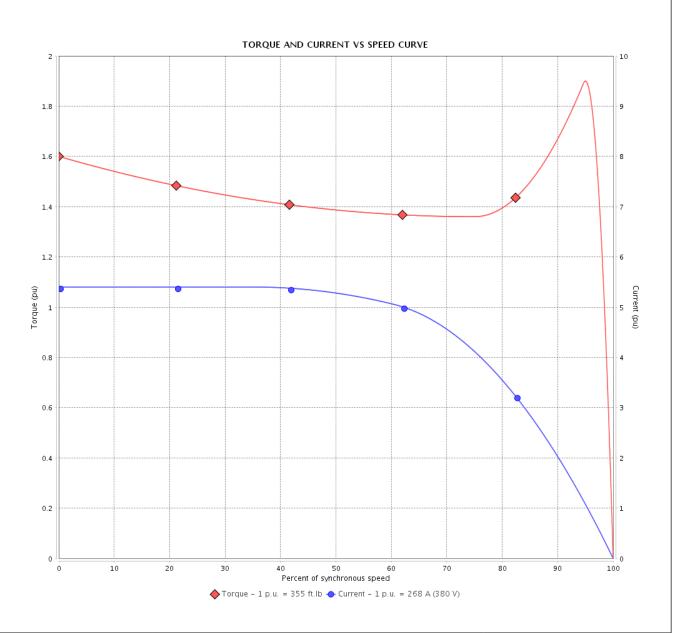
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11431289

Catalog #: 20036ET3G447TS-W22



Performance : 380 V 50 Hz 2P IE1 Rated current : 268 A Moment of inertia (J) : 44.7 sq.ft.lb **LRC** : 5.4 Duty cycle : Cont.(S1) Insulation class Rated torque : 355 ft.lb : F Locked rotor torque : 160 % Service factor : 1.00 Breakdown torque : 190 % Temperature rise : 105 K Rated speed : 2960 rpm Design : B

Locked rotor time : 18s (cold) 10s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11431289 Catalog #: 20036ET3G447TS-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 (pd) 1.25 Current 0.5 0.25 Percent of synchronous speed ◆ Torque - 1 p.u. = 354 ft.lb ◆ Current - 1 p.u. = 253 A (400 V) Performance : 400 V 50 Hz 2P IE2 Rated current : 253 A Moment of inertia (J) : 44.7 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 354 ft.lb : F : 180 % Locked rotor torque Service factor : 1.00 : 105 K Breakdown torque : 220 % Temperature rise Rated speed : 2965 rpm Design : B Locked rotor time : 18s (cold) 10s (hot) Date Rev. Performed Checked **Changes Summary** 

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#### Three Phase Induction Motor - Squirrel Cage



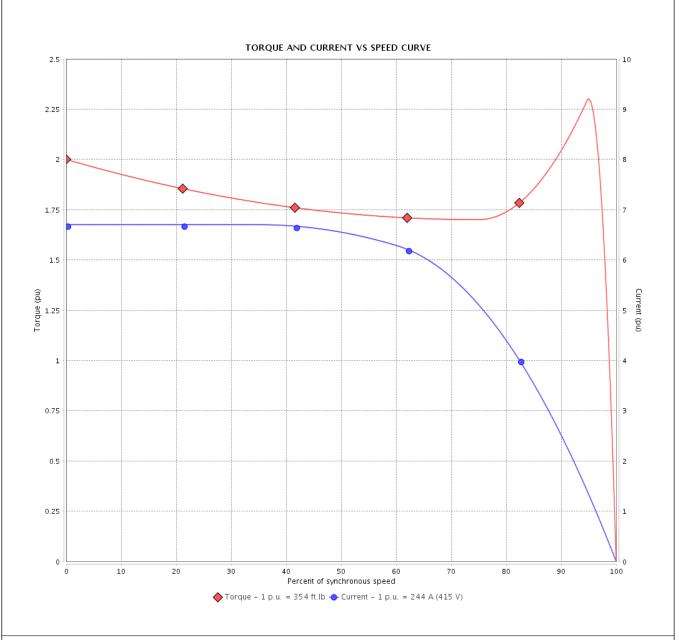
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11431289

Catalog #: 20036ET3G447TS-W22



Performance : 415 V 50 Hz 2P IE2 Rated current : 244 A Moment of inertia (J) : 44.7 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 354 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 200 % : 1.00 Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 2970 rpm Design : B

Locked rotor time : 18s (cold) 10s (hot)

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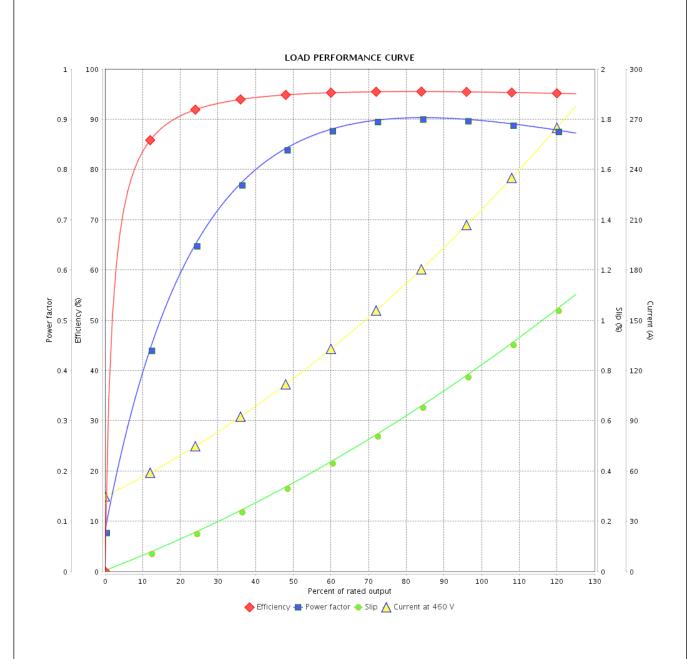
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431289

Phase

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Performance	: 460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 219 A : 6.5 : 294 ft.lb : 210 % : 229 % : 3570 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 44.7 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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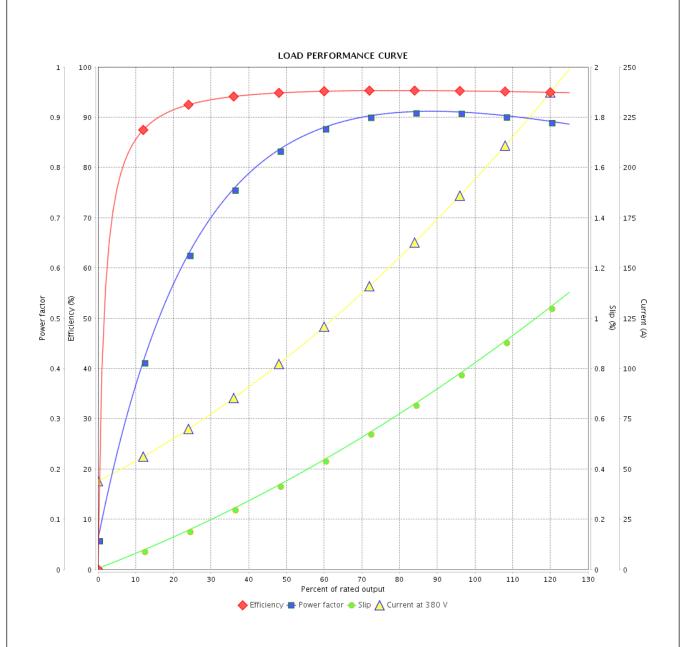
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Phase

Product code: 11431289

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Performance	: 380 V 50 Hz 2P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 193 A : 6.8 : 265 ft.lb : 210 % : 260 % : 2975 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 44.7 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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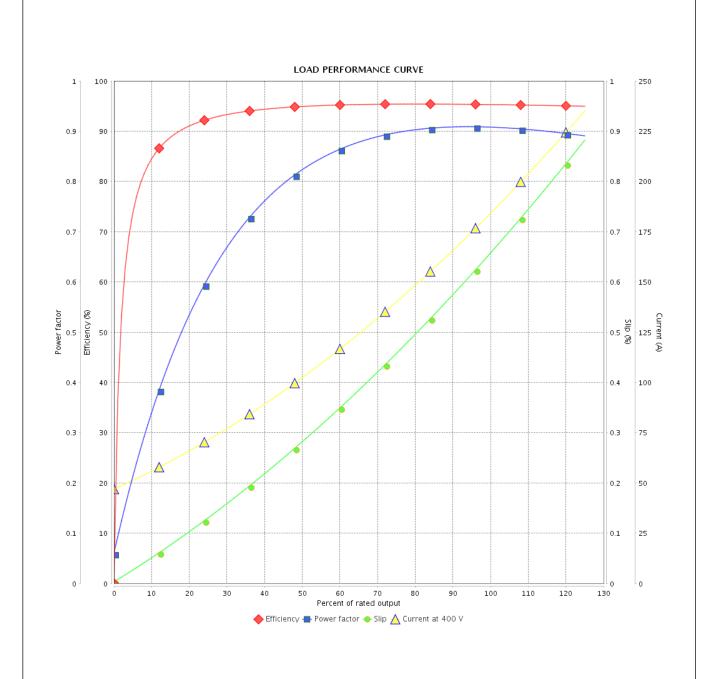
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431289

Phase

Catalog #: 20036ET3G447TS-W22

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: 183 A	Moment of	f inertia (J)	: 44.7 sq.ft.lb	
: 7.6	Duty cycle	<b>,</b>	: Cont.(S1)	
: 264 ft.lb	Insulation	class	: F	
: 220 %	Service fa	ctor	: 1.15	
: 290 %	Temperatu	ıre rise	: 80 K	
: 2980 rpm	Design		: B	
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	: 7.6 : 264 ft.lb : 220 % : 290 % : 2980 rpm	: 7.6       Duty cycle         : 264 ft.lb       Insulation         : 220 %       Service fa         : 290 %       Temperatu         : 2980 rpm       Design	: 7.6 : 264 ft.lb : 220 % : 290 % : 2980 rpm  Duty cycle Insulation class Service factor Temperature rise Design	: 7.6       Duty cycle       : Cont.(S1)         : 264 ft.lb       Insulation class       : F         : 220 %       Service factor       : 1.15         : 290 %       Temperature rise       : 80 K         : 2980 rpm       Design       : B    Changes Summary          Performed       Checked

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#### Three Phase Induction Motor - Squirrel Cage



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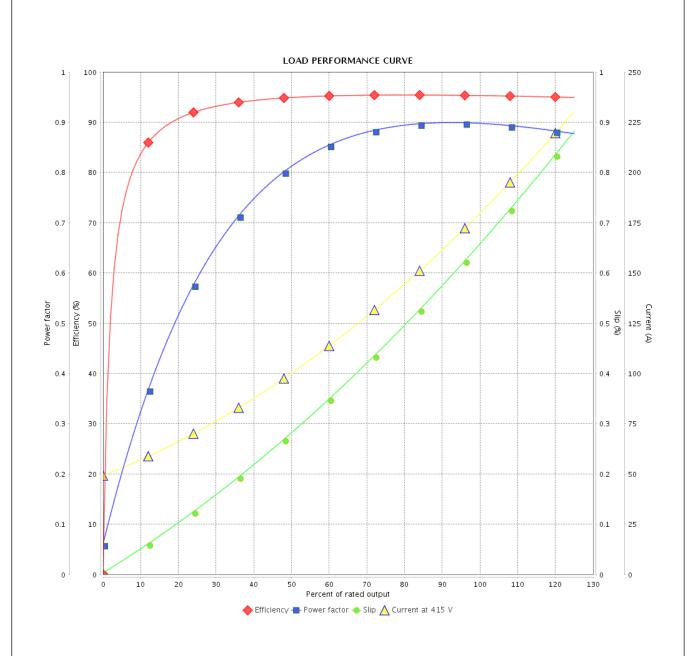
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 20036ET3G447TS-W22

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Performance	: 415 V 50 Hz 2P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 178 A : 8.3 : 264 ft.lb : 229 % : 320 % : 2980 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 44.7 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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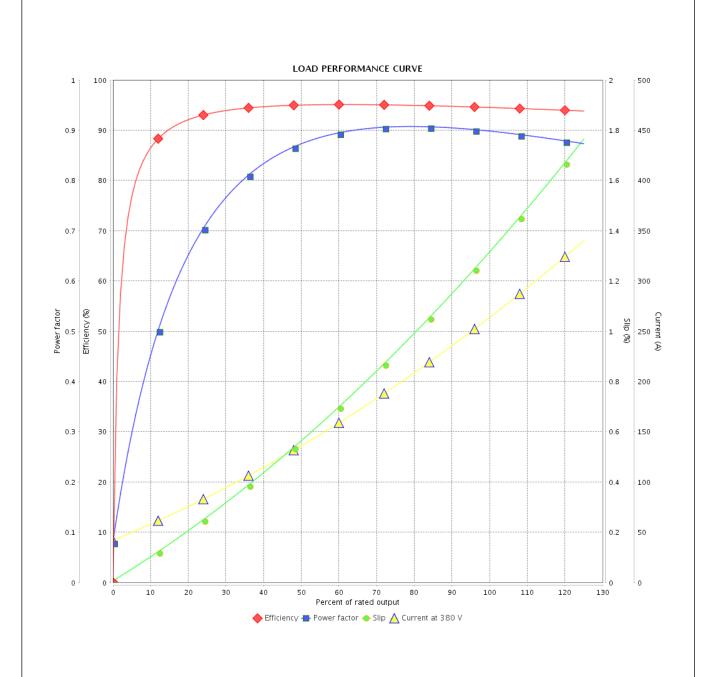
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11431289

Catalog #: 20036ET3G447TS-W22



Performance	: 38	: 380 V 50 Hz 2P IE1				
Rated current : 268 A		Moment of	Moment of inertia (J)			
LRC	: 5.	.4	Duty cycle	9	: Cont.(S1)	
Rated torque	: 3	55 ft.lb	Insulation	class	: F	
Locked rotor torg	jue : 10	60 %	Service fa	actor	: 1.00	
Breakdown torque		90 %	Temperati	Temperature rise		
Rated speed	: 29	960 rpm Design		: B		
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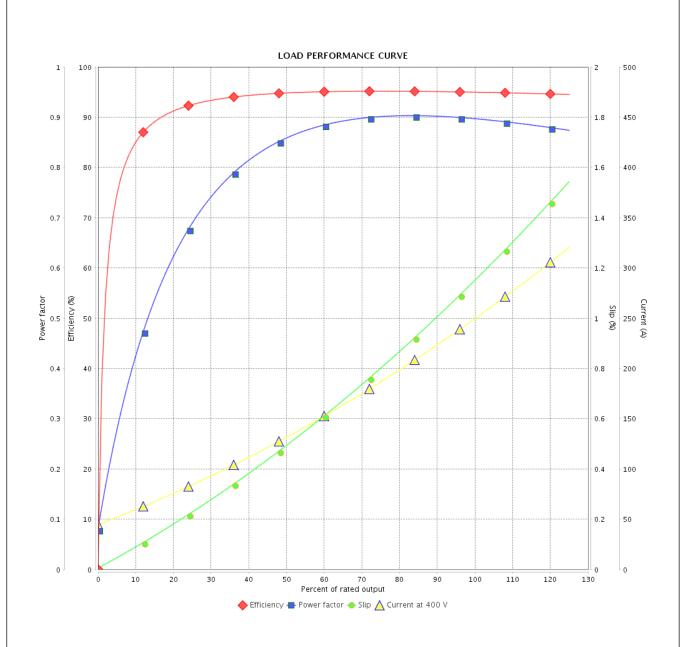
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 11431289

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Performance : 400 V 50 Hz 2P IE2 : 253 A Rated current Moment of inertia (J) : 44.7 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.1 Insulation class Rated torque : 354 ft.lb : F Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 105 K Rated speed : 2965 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

#### Three Phase Induction Motor - Squirrel Cage



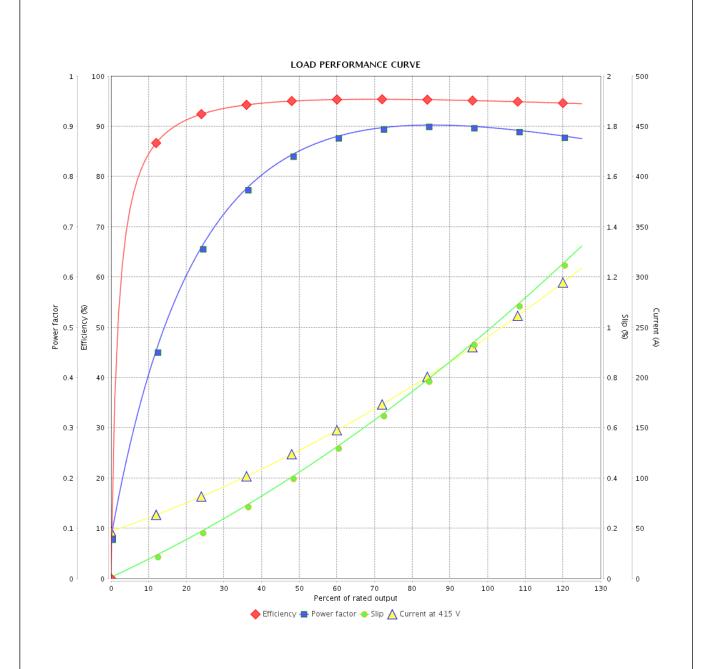
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Product line : NEMA Premium Efficiency Three- Product code : 11431289

Phase

Catalog #: 20036ET3G447TS-W22

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Performance	: 415 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 244 A : 6.7 : 354 ft.lb : 200 % : 229 % : 2970 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 44.7 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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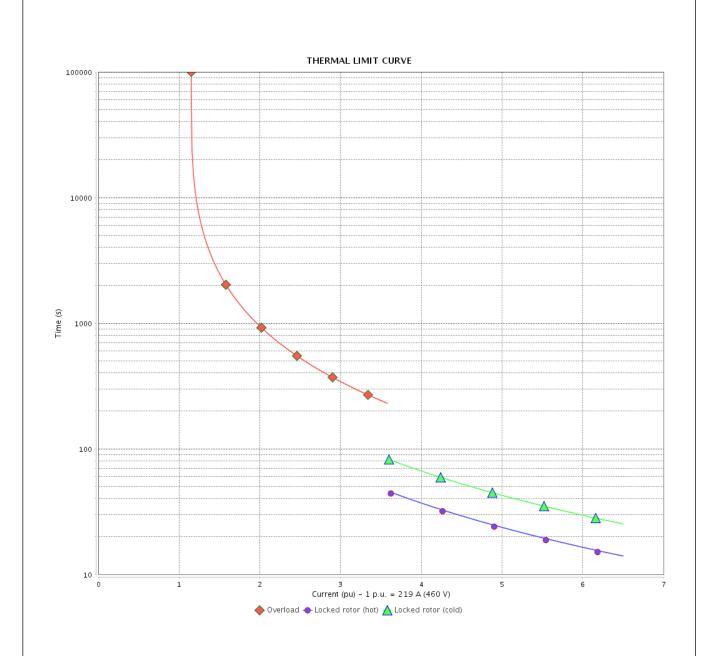


Customer		:				
Product line		: NEMA Premium Efficiency	Three-	Product code :	11431289	
		Phase		Catalog # :	20036ET3G4	47TC \N/22
D (		400 1/ 00 11 00				
Performance Rated current	:	460 V 60 Hz 2P 219 A	Moment o	of inertia (J)	: 44.7 sq.ft.lb	
LRC Rated torque Locked rotor toro	jue :	6.5 294 ft.lb 210 % 229 %	Duty cycle Insulation Service fa	class ictor	: Cont.(S1) : F : 1.15	
Breakdown torqu Rated speed		3570 rpm	Temperate Design	ui & 115&	: 80 K : B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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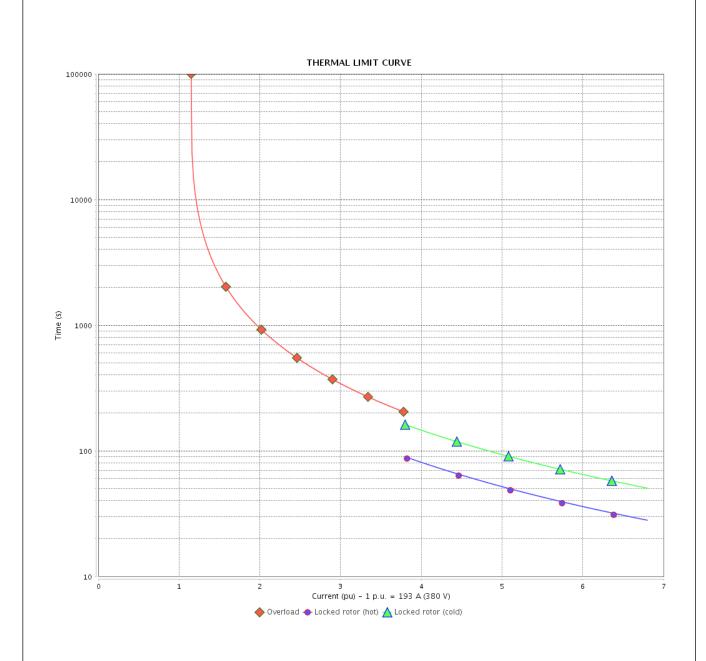


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11431289 20036ET3G44	17TS-W22
Performance		: 380 V 50 Hz 2P IE3				
Rated current LRC		: 193 A : 6.8	Moment of	of inertia (J)	: 44.7 sq.ft.lb : Cont.(S1)	
Rated torque		: 265 ft.lb : 210 %	Insulation Service fa	class	: F	
Locked rotor tord Breakdown torqu	ue	: 260 %	Temperat		: 1.15 : 80 K	
Rated speed		: 2975 rpm	Design		: B	
Heating constant						
Cooling constant	t 	Changes Summary		Performed	Checked	Date
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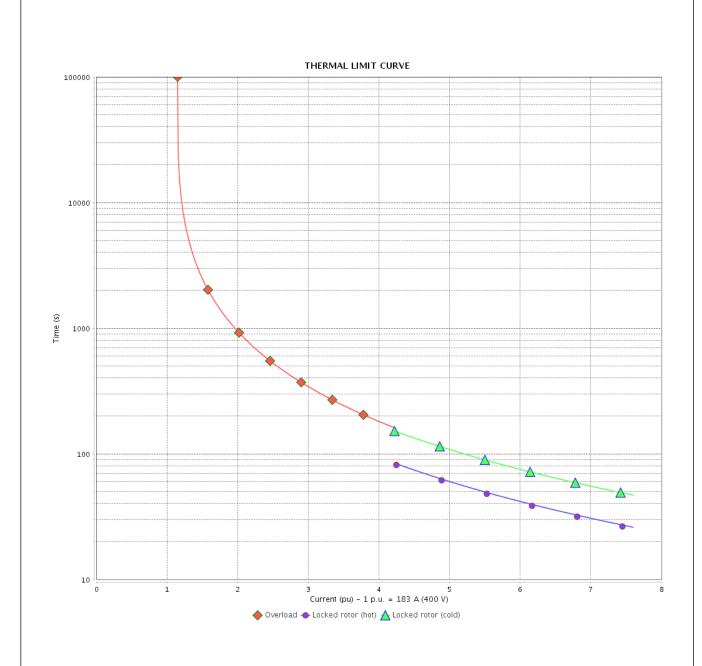


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Product line	. 1	NEMA Promium F#ioionay	Three	Product code :	11/12/1200	
Product line		NEMA Premium Efficiency hase	rnree-	Product code :	11431289	
				Catalog # :	20036ET3G4	47TS-W22
Performance	· 10	00 V 50 Hz 2P IE3				
Rated current		83 A	Moment o	f inertia (J)	: 44.7 sq.ft.lb	
LRC	: 7.	6	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque Locked rotor torque		64 ft.lb 20 %	Insulation Service fa		: F : 1.15	
Breakdown torque	: 29	90 %	Temperatu		: 80 K	
Rated speed	: 29	980 rpm	Design		: B	
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### Three Phase Induction Motor - Squirrel Cage



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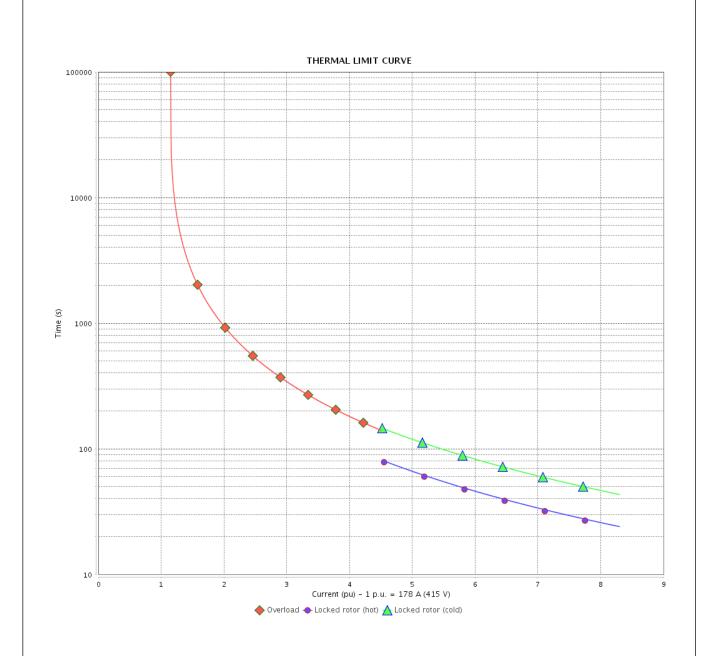


Customer	:			
Product line	: NEMA Premium Efficiency T Phase	Three- Product code :  Catalog # :	11431289 20036ET3G44	7TS \\/22
		Oddiog # .	2000210044	
Performance	: 415 V 50 Hz 2P IE3			
Rated current	: 178 A	Moment of inertia (J)	: 44.7 sq.ft.lb	
LRC	: 8.3	Duty cycle	: Cont.(S1)	
Rated torque Locked rotor torque	: 264 ft.lb : 229 %	Insulation class Service factor	: F : 1.15	
Breakdown torque	: 320 %	Temperature rise	: 80 K	
Rated speed	: 2980 rpm	Design	: B	
Heating constant				
Cooling constant				
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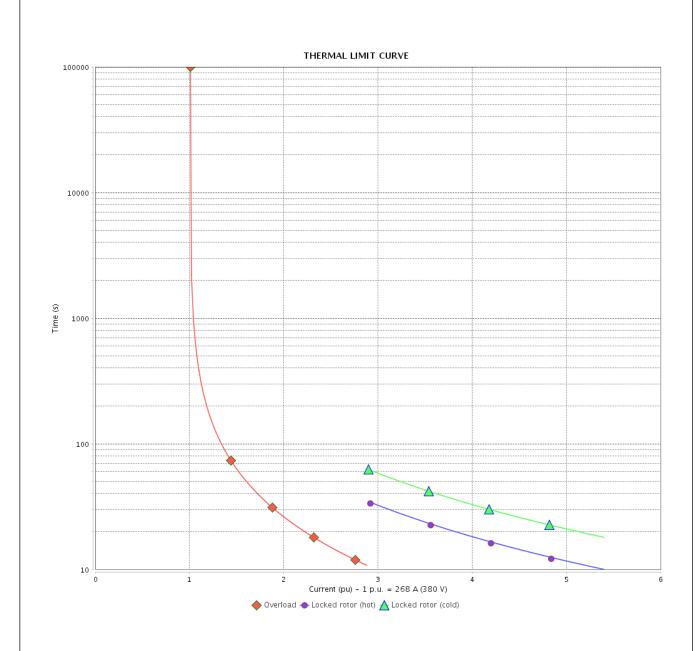


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11431289 20036ET3G44	17TS-W22
Performance		: 380 V 50 Hz 2P IE1				
Rated current LRC Rated torque		: 268 A : 5.4 : 355 ft.lb	Moment of Duty cycle Insulation		: 44.7 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord Breakdown torqu	que	: 160 % : 190 %	Service fa Temperat	actor	: 1.00 : 105 K	
Rated speed		: 2960 rpm	Design	··	: B	
Heating constant						
Cooling constant Rev.	L	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

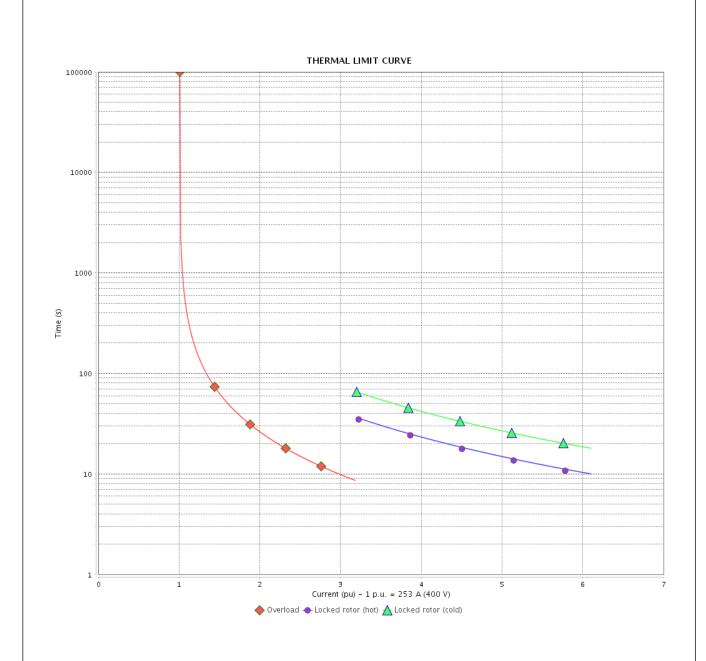


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Product line		NEMA Premium Efficiency T	Γhree- F	Product code :	11431289	
		1430	(	Catalog # :	20036ET3G4	47TS-W22
Performance		00 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6. : 35 ie : 18 : : 22	53 A 1 54 ft.lb 50 % 20 % 965 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class ctor	: 44.7 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
	. 28	700 IPIII	Design		. D	
Heating constant						
Cooling constant		Changas Cummer:		Dorform	Chagles	Doto
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### Three Phase Induction Motor - Squirrel Cage

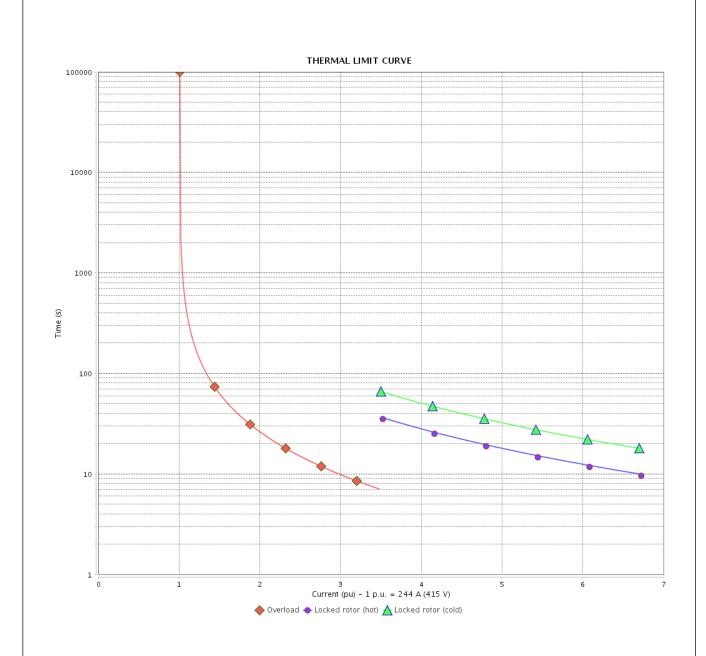


Customer	:				
Product line	: NEMA Premium Efficienc Phase		Product code :	11431289 20036ET3G4	47TS-W22
Performance	: 415 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 244 A : 6.7 : 354 ft.lb : 200 % : 229 % : 2970 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 44.7 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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## Three Phase Induction Motor - Squirrel Cage



Customer



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Checked by				Page	Revision
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

Date

14/04/2022

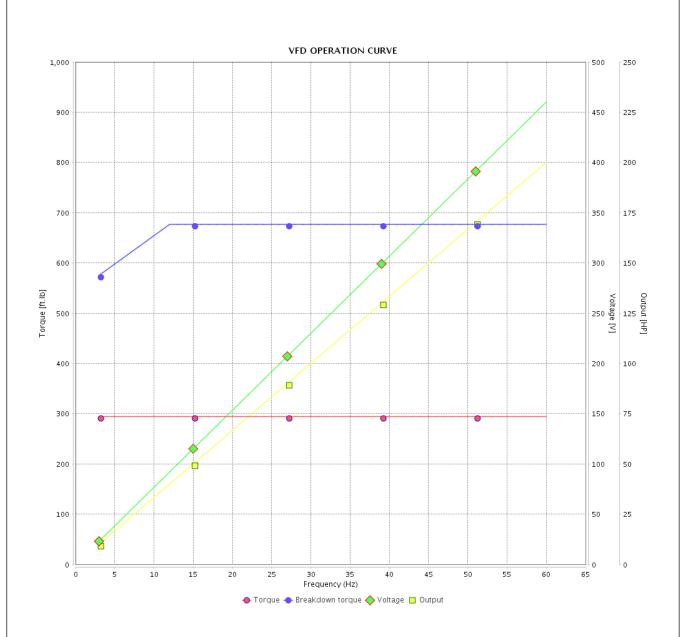
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11431289

Catalog #: 20036ET3G447TS-W22

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Performance : 460 V 60 Hz 2P : 219 A Rated current Moment of inertia (J) : 44.7 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.5 Insulation class Rated torque : 294 ft.lb : F Locked rotor torque : 210 % Service factor : 1.15 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 3570 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

#### Three Phase Induction Motor - Squirrel Cage



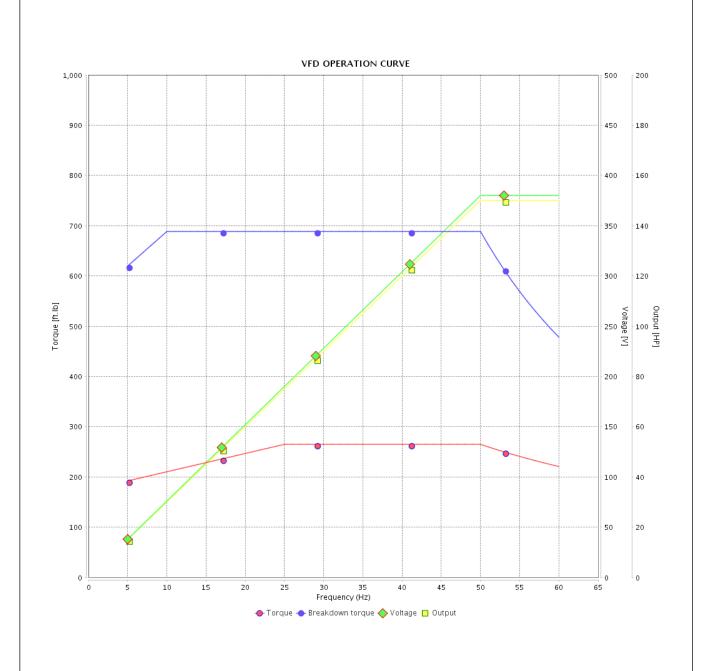
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 20036ET3G447TS-W22

11431289



Performance : 380 V 50 Hz 2P IE3						
Rated current	Rated current : 193 A		Moment o	Moment of inertia (J)		
LRC	: 6	8.8	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 2	65 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	210 % Service factor		ctor	: 1.15	
Breakdown torque	: 2	60 %	Temperati	Temperature rise		
Rated speed	: 2	975 rpm	Design		: B	
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Checked by					Page	Revision
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

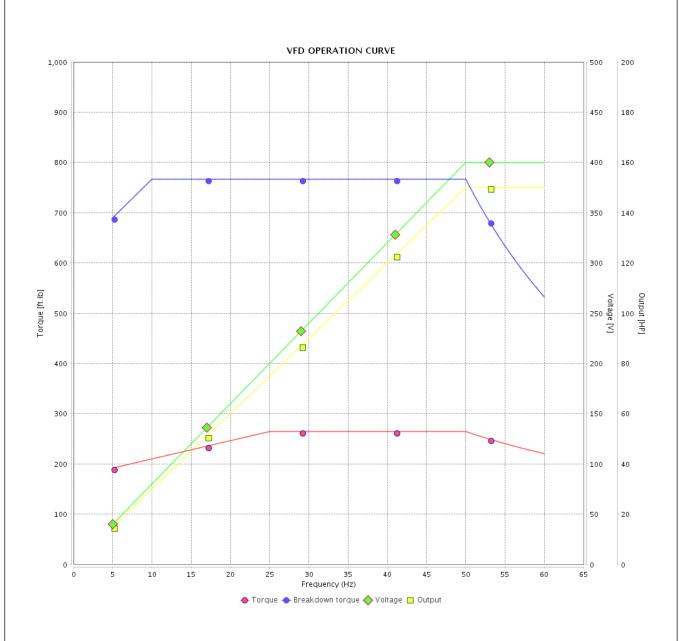
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11431289

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Performance	: 400 V 50 Hz 2P IE3	400 V 50 Hz 2P IE3					
Rated current	ated current : 183 A Moment of inertia (J)		of inertia (J)	: 44.7 sq.ft.lb			
LRC	: 7.6	Duty cycle		: Cont.(S1)			
Rated torque	: 264 ft.lb	Insulation class		:F			
Locked rotor torque	: 220 %	Service factor Temperature rise Design		: 1.15 : 80 K			
Breakdown torque	: 290 %						
Rated speed	: 2980 rpm			: B			
Rev.	Changes Summary		Performed	Checked	Date		
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#### Three Phase Induction Motor - Squirrel Cage

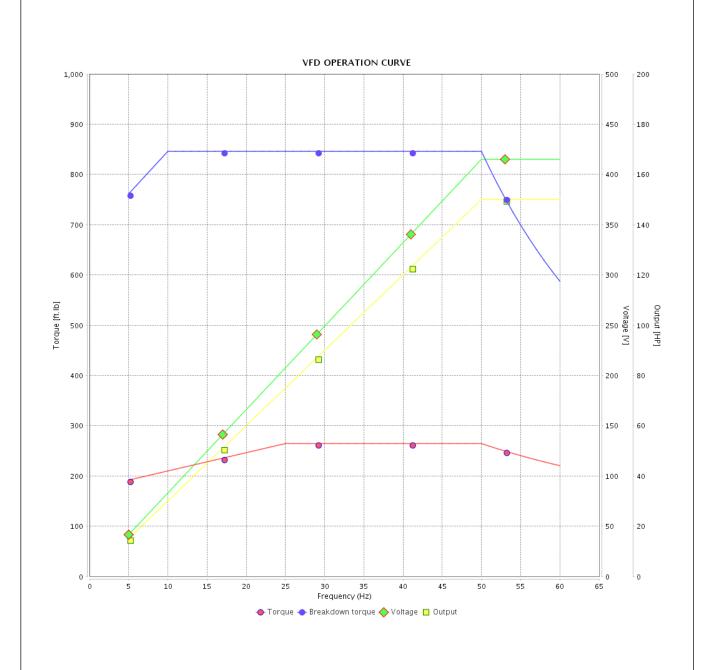


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431289

Phase

Catalog #: 20036ET3G447TS-W22



Performance	: 4	115 V 50 Hz 2P IE3				
Rated current	current : 178 A		Moment o	f inertia (J)	: 44.7 sq.ft.lb	
LRC	: 8	3.3	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 2	264 ft.lb	Insulation	class	: F	
Locked rotor torque	e :2	229 %	Service fa	ctor	: 1.15	
Breakdown torque	: 3	320 %	Temperature rise		: 80 K	
Rated speed	: 2	2980 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

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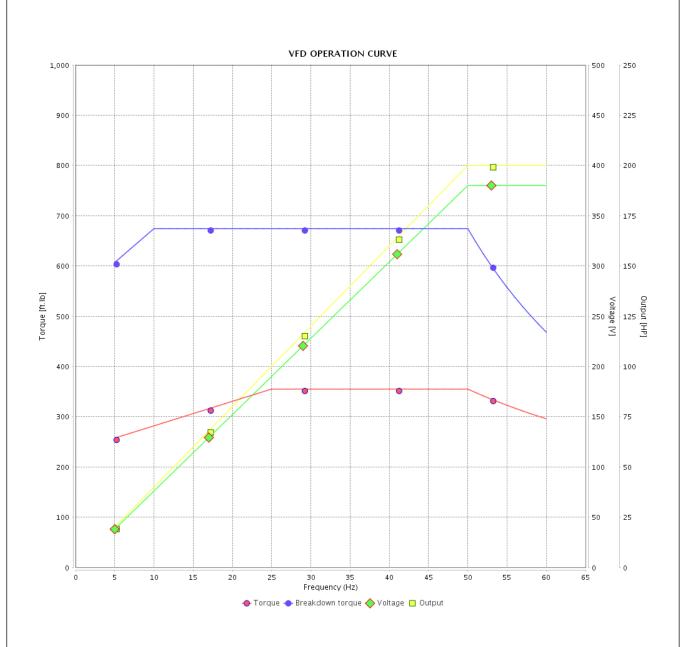
Product line : NEMA Premium Efficiency Three- Pro

Phase

Product code: 11431289

Catalog #: 20036ET3G447TS-W22

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Performance : 380 V 50 Hz 2P IE1 : 268 A Rated current Moment of inertia (J) : 44.7 sq.ft.lb **LRC** : 5.4 Duty cycle : Cont.(S1) : 355 ft.lb Insulation class Rated torque : F Locked rotor torque : 160 % Service factor : 1.00 Breakdown torque : 190 % Temperature rise : 105 K Rated speed : 2960 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

#### Three Phase Induction Motor - Squirrel Cage



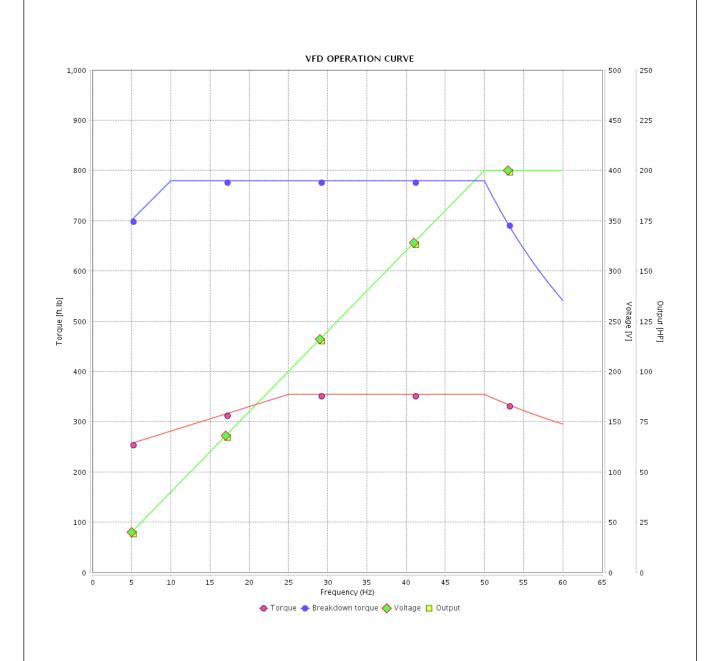
Customer

Product line : NEMA Premium Efficiency Three- Pro

Phase

Product code: 11431289

Catalog #: 20036ET3G447TS-W22



Performance	:	400 V 50 Hz 2P IE2				
Rated current : 2		253 A	Moment o	Moment of inertia (J)		
LRC : 6.1		6.1	Duty cycle	;	: Cont.(S1)	
Rated torque :		354 ft.lb	Insulation	Insulation class		
•		180 %	Service fa	ctor	: 1.00	
Breakdown torque		220 %	Temperati	Temperature rise		
Rated speed	:	2965 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

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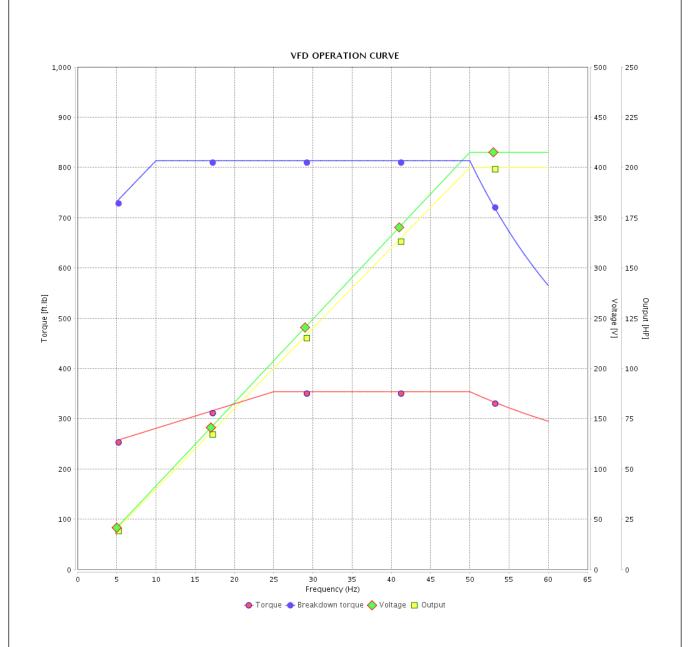
Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11431289

Catalog #: 20036ET3G447TS-W22

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Performance : 415 V 50 Hz 2P IE2 : 244 A Rated current Moment of inertia (J) : 44.7 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 354 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 2970 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

