### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11679361

Catalog #: 60036ET3G588/9S-W22

Frame : 588/9TS Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW)

Ambient temperature : -20°C to +40°C Starting method : Direct On Line Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 4763 lb

Protection degree		: IP55	Moment of ine	ertia (J) : 155	sq.ft.lb
Output [HP]		600	500	500	500
Poles		2	2	2	2
Frequency [Hz]		60	50	50	50
Rated voltage [V]		460	380	400	415
Rated current [A]		636	647	622	599
L. R. Amperes [A]		6042	5435	5847	6290
LRC [A]		9.5x(Code K)	8.4x(Code J)	9.4x(Code K)	10.5x(Code L)
No load current [A	]	142	140	153	162
Rated speed [RPN	<b>/</b> []	3586	2985	2987	2988
Slip [%]		0.39	0.50	0.43	0.40
Rated torque [ft.lb]		879	880	880 879	
Locked rotor torque [%]		300	270	300	300
Breakdown torque [%]		320	320	350	360
Service factor		1.00	1.00 1.00		1.00
Temperature rise		80 K	80 K	80 K 80 K	
Locked rotor time		59s (cold) 33s (hot)	54s (cold) 30s (hot)	54s (cold) 30s (hot)	54s (cold) 30s (hot)
Noise level <sup>2</sup>		89.0 dB(A)	83.0 dB(A)	83.0 dB(A)	83.0 dB(A)
	25%				
Efficiency (%)	50%	96.0	96.2	96.2	95.8
Efficiency (%)	75%	96.5	96.5	96.5	96.5
100%		96.5	96.5	96.5	96.5
	25%				
Power Factor	50%	0.84	0.84	0.82	0.80
FUWEI FACIOI	75%	0.89	0.89	0.88	0.87
	100%	0.90	0.90	0.89	0.89
		Drive and Non dr	ive and Foundation les		*

Drive end Non drive end Foundation loads

6314 C3 Bearing type 6314 C3 Max. traction : 4219 lb

Sealing Taconite Taconite Max. compression : 8981 lb Labyrinth Labyrinth 4000 h Lubrication interval 4000 h

Lubricant amount 27 g 27 g Mobil Polyrex EM Lubricant type

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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# DATA SHEET



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		Space heater informa	tion		
Voltage: 200 - 24	10 V				
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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11679361 Catalog #: 60036ET3G588/9S-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) 40 50 60 Percent of synchronous speed ◆ Torque - 1 p.u. = 879 ft.lb ◆ Current - 1 p.u. = 636 A (460 V) : 460 V 60 Hz 2P Performance : 636 A : 155 sq.ft.lb Rated current Moment of inertia (J) : Cont.(S1) LRC : 9.5 Duty cycle Rated torque : 879 ft.lb Insulation class

Breakdown torque : 32		00 % 20 % 586 rpm	Service fact Temperature		: 1.00 : 80 K	
Locked rotor time	: 5	9s (cold) 33s (hot)	l l			
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-

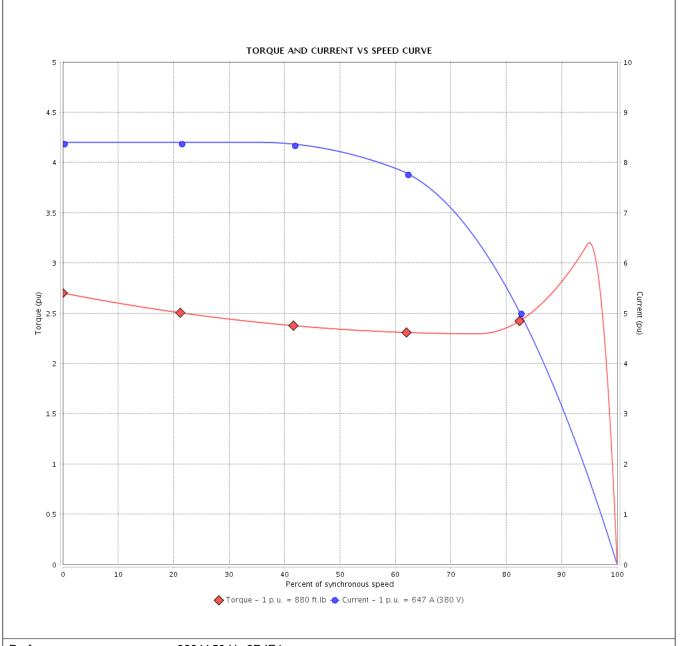
Phase

Product code: 11679361

Catalog #: 60036ET3G588/9S-W22

: 155 sq.ft.lb

: Cont.(S1)



Performance : 380 V 50 Hz 2P IE4

Rated current : 647 A Moment of inertia (J)
LRC : 8.4 Duty cycle
Rated torque : 880 ft.lb Insulation class

Rated torque : 880 ft.lb Insulation class : F
Locked rotor torque : 270 % Service factor : 1.00
Breakdown torque : 320 % Temperature rise : 80 K
Rated speed : 2985 rpm

Locked rotor time : 54s (cold) 30s (hot)

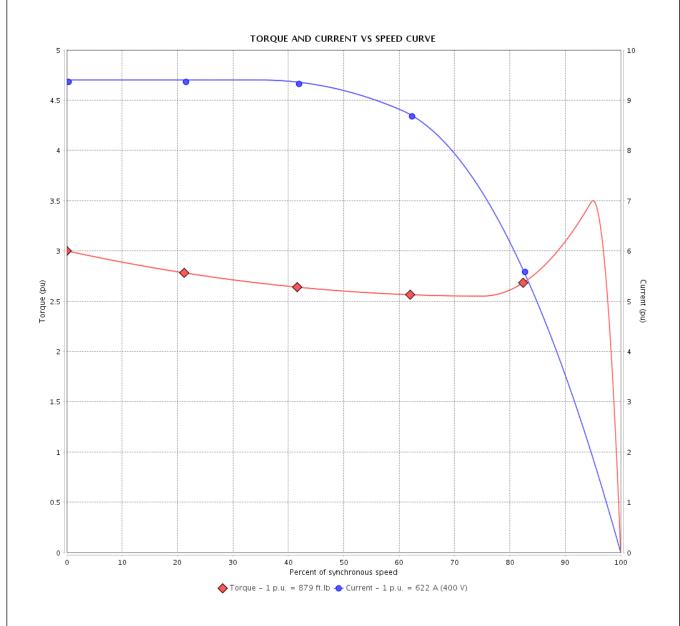
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#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11679361

> Catalog #: 60036ET3G588/9S-W22



Performance : 400 V 50 Hz 2P IE4 Rated current : 622 A Moment of inertia (J) : 155 sq.ft.lb **LRC** : 9.4 Duty cycle : Cont.(S1) : 879 ft.lb Insulation class Rated torque : F Locked rotor torque : 300 % Service factor : 1.00 Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 2987 rpm

Locked rotor time : 54s (cold) 30s (hot)

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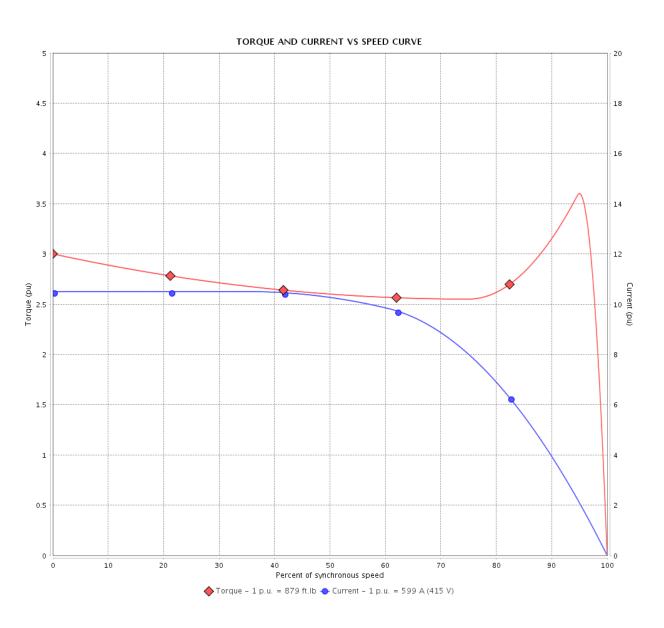


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11679361

Phase

Catalog #: 60036ET3G588/9S-W22



Performance	: 415 V 50 Hz 2P IE4			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 599 A : 10.5 : 879 ft.lb : 300 % : 360 % : 2988 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise	: 155 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	

Locked rotor time : 54s (cold) 30s (hot)

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Customer

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Date

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Product line : NEMA Premium Efficiency Three- Product code : 11679361

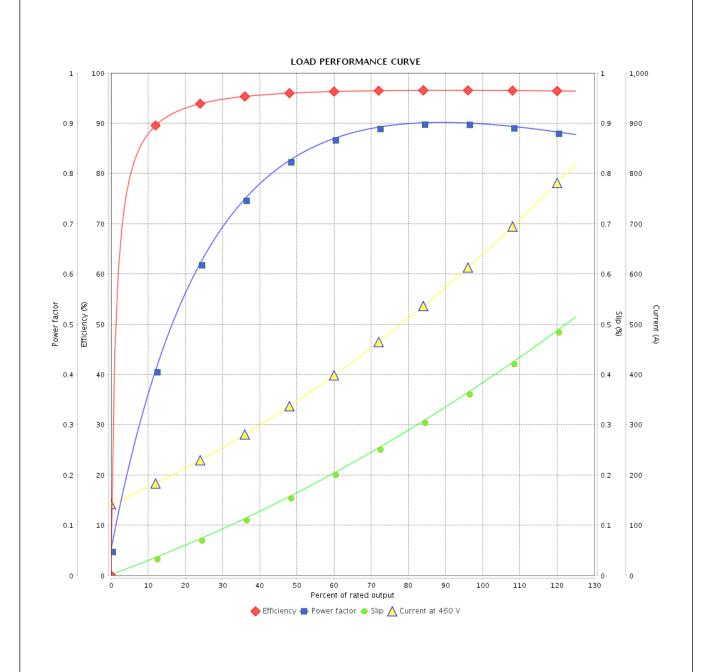
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Performance	: 460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 636 A : 9.5 : 879 ft.lb : 300 % : 320 % : 3586 rpm	Moment of Duty cycle Insulation Service fa Temperate	class ctor	: 155 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
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#### Three Phase Induction Motor - Squirrel Cage



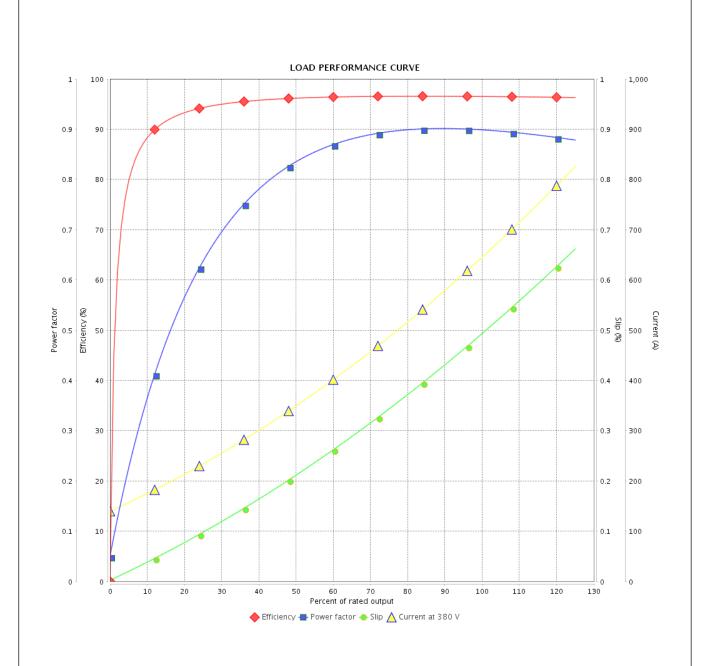
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 60036ET3G588/9S-W22

11679361



Performance : 380 V 50 Hz 2P IE4 Rated current : 647 A Moment of inertia (J) : 155 sq.ft.lb **LRC** : 8.4 Duty cycle : Cont.(S1) : 880 ft.lb Insulation class Rated torque : F Locked rotor torque : 270 % Service factor : 1.00 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 2985 rpm

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Customer :

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Product line : NEMA Premium Efficiency Three- Product code : 11679361

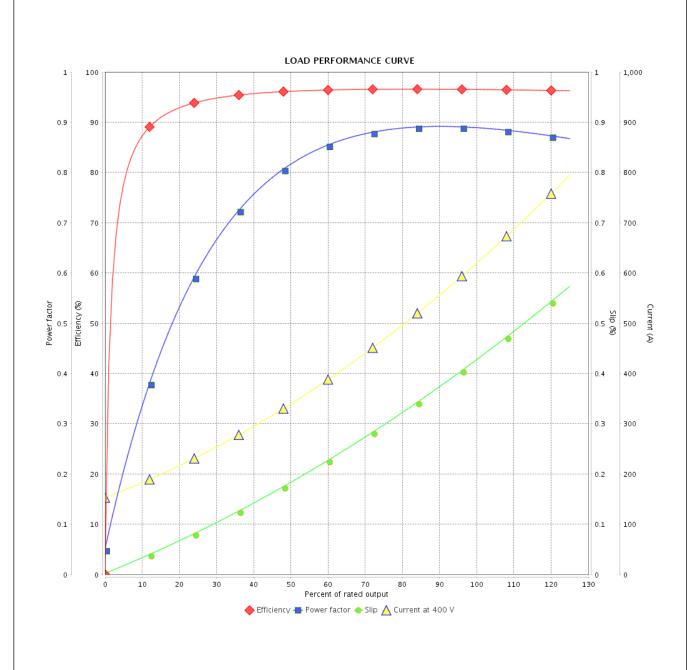
Phase

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Performance	: 400 V 50 Hz 2P IE4				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 622 A : 9.4 : 879 ft.lb : 300 % : 350 % : 2987 rpm	Moment of Duty cycle Insulation Service fa	class ctor	: 155 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
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#### Three Phase Induction Motor - Squirrel Cage



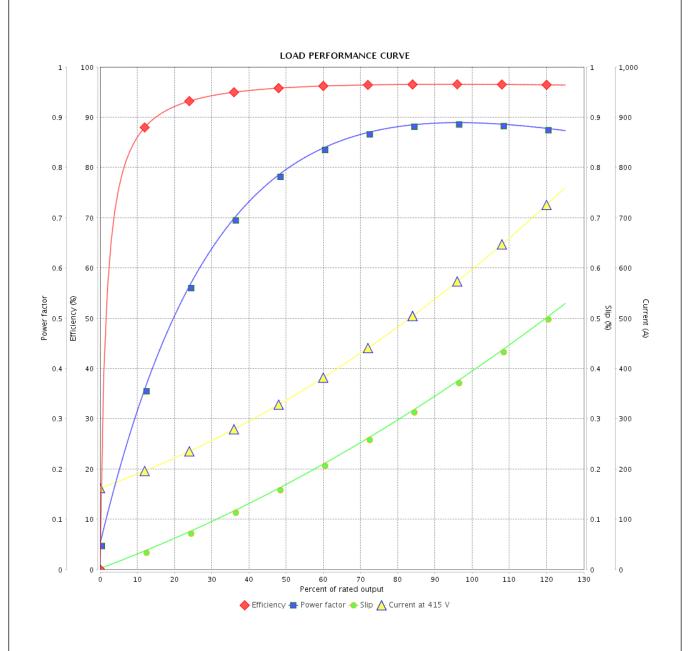
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11679361

Catalog #: 60036ET3G588/9S-W22



Performance : 415 V 50 Hz 2P IE4 : 599 A Moment of inertia (J) : 155 sq.ft.lb Rated current **LRC** : 10.5 Duty cycle : Cont.(S1) : 879 ft.lb Insulation class Rated torque : F Locked rotor torque : 300 % Service factor : 1.00 Breakdown torque : 360 % Temperature rise : 80 K Rated speed : 2988 rpm

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#### Three Phase Induction Motor - Squirrel Cage

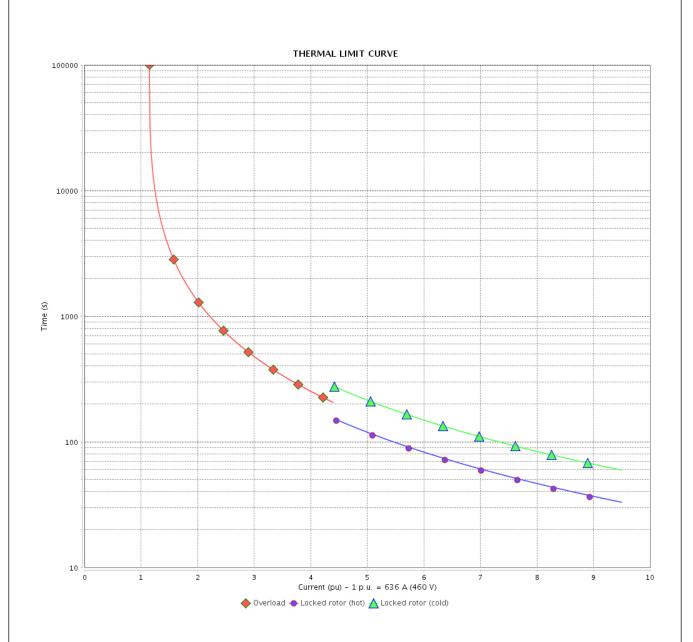


Customer	:					
Product line		NEMA Premium Efficiency <sup>-</sup> hase	Three-	Product code : Catalog # :	11679361 60036ET3G5	588/9S-W22
Performance		60 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 60 : 9. : 87 que : 30 ue : 32 : 36	36 A	Moment of Duty cycle Insulation Service fa Temperat	ı class actor	: 155 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Cooling constant						
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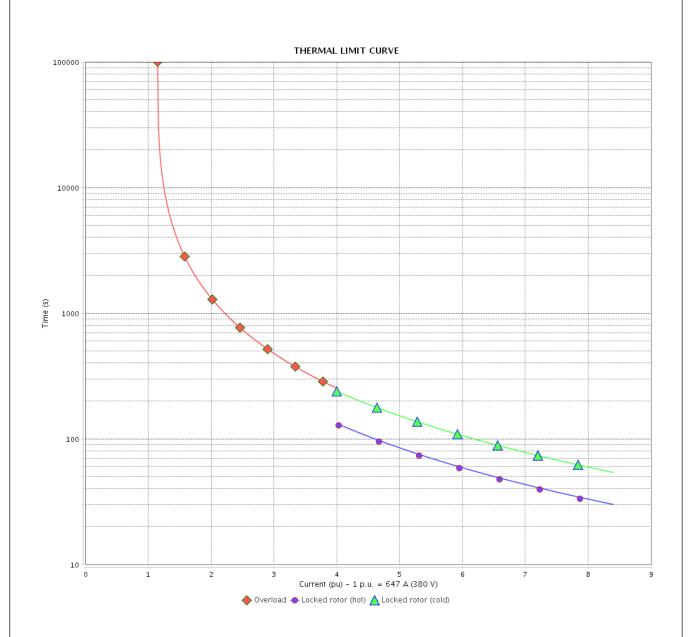


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Product line	. 1	NEMA Premium Efficiency	Three-	Product code :	11679361	
i roduct line	P	hase				
				Catalog # :	60036ET3G5	588/9S-W22
Danfarmana	. 20	80 V 50 Hz 2P IE4				
Performance Rated current		80 V 50 HZ 2P IE4 47 A	Moment	of inertia (J)	: 155 sq.ft.lb	
LRC	: 8.	4	Duty cycle	Э	: Cont.(S1)	
Rated torque		80 ft.lb 70 %	Insulation Service fa		: F : 1.00	
Locked rotor tord Breakdown torqu		70 % 20 %	Temperat		: 1.00 : 80 K	
Rated speed		985 rpm				
Heating constan	t					
Cooling constan	<u>t</u>				1	
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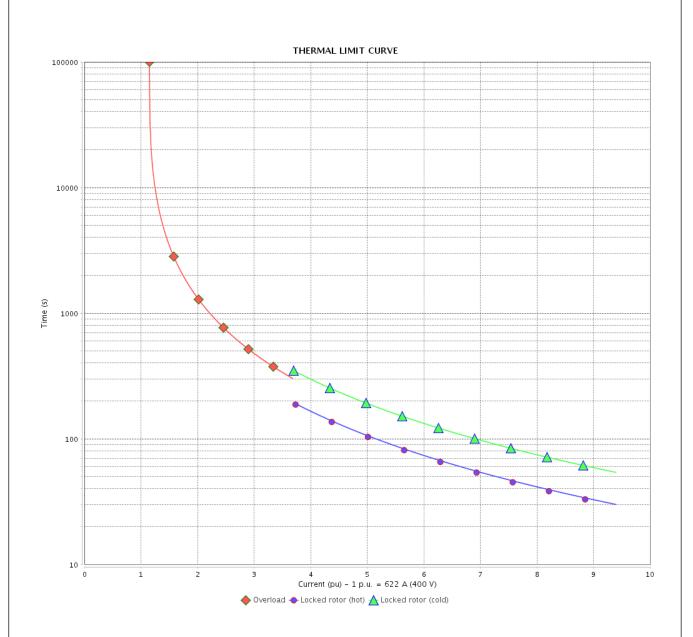


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Draduat line		NICMA Drawit was Efficience.	Three	Draduet and a	44070204	
Product line		NEMA Premium Efficiency hase		Product code :	11679361	
				Catalog # :	60036ET3G5	88/9S-W22
Performance		00 V 50 Hz 2P IE4				
Rated current LRC	: 6: : 9	22 A .4	Moment o	of inertia (J)	: 155 sq.ft.lb : Cont.(S1)	
Rated torque	: 8	79 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown tord	que : 3	00 % 50 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		987 rpm	Temperat	uic lisc	. 00 10	
Heating constan	t					
Cooling constan						
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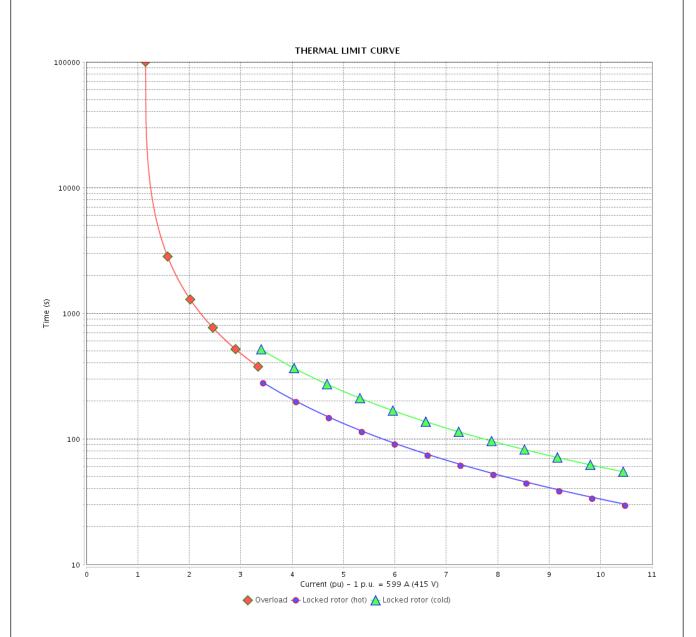


Customer	:					
Product line	: I P	NEMA Premium Efficiency l		Product code : Catalog # :	11679361 60036ET3G5	88/9S-W22
Performance		15 V 50 Hz 2P IE4	Momento	finartia (I)	. 155 og ft lb	
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 1 : 8 que : 3 ie : 3	99 A 0.5 79 ft.lb 00 % 60 % 988 rpm	Moment of Duty cycle Insulation Service fa Temperate	class ctor	: 155 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Heating constant	<u> </u>					
Cooling constant				1		
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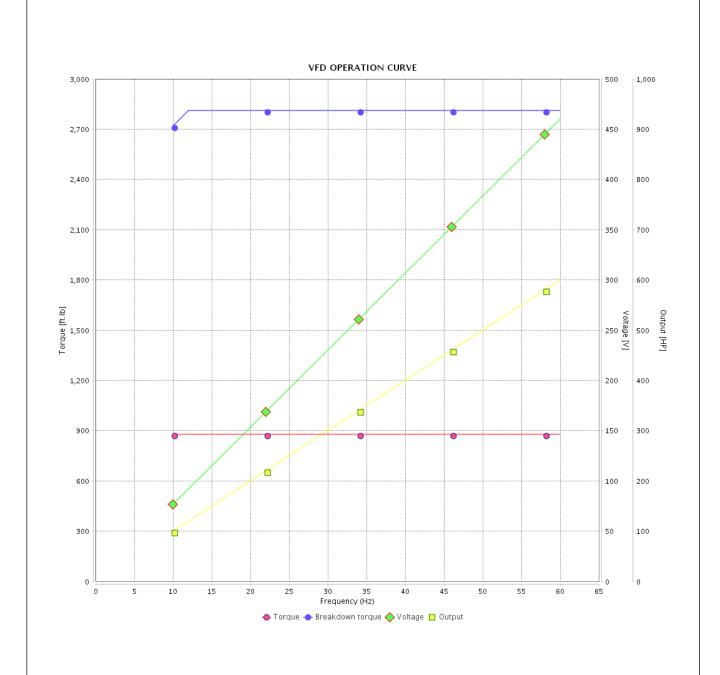
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 60036ET3G588/9S-W22

11679361



Performance : 460 V 60 Hz 2P Rated current : 636 A Moment of inertia (J) : 155 sq.ft.lb **LRC** : 9.5 Duty cycle : Cont.(S1) : 879 ft.lb Insulation class : F Rated torque Locked rotor torque : 300 % Service factor : 1.00 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 3586 rpm

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#### Three Phase Induction Motor - Squirrel Cage



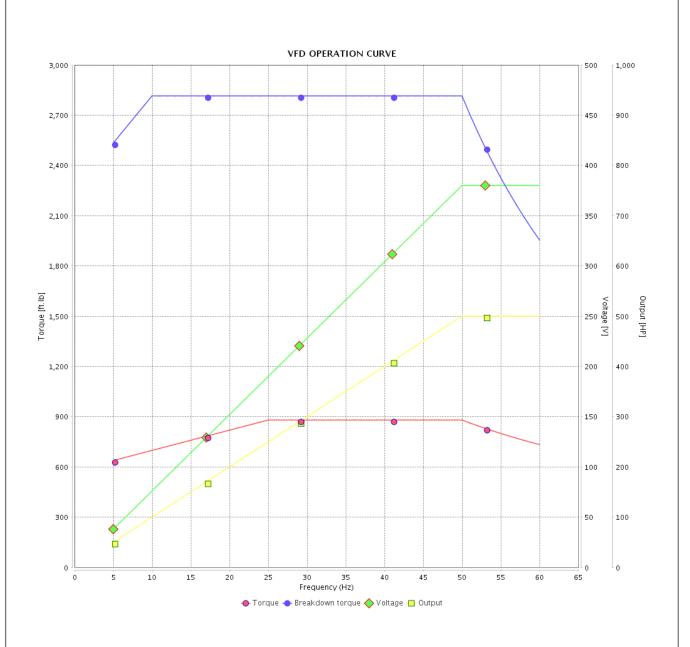
Customer :

Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 11679361

Catalog #: 60036ET3G588/9S-W22



Performance : 380 V 50 Hz 2P IE4 Rated current : 647 A Moment of inertia (J) : 155 sq.ft.lb **LRC** : 8.4 : Cont.(S1) Duty cycle : 880 ft.lb Insulation class Rated torque : F Locked rotor torque : 270 % Service factor : 1.00 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 2985 rpm

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### Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three- Product code : 11679361

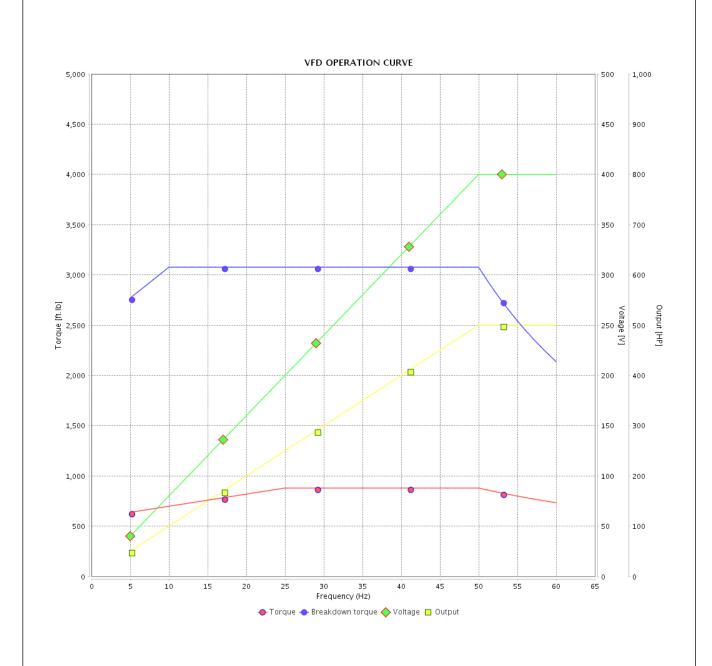
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Performance	: 400 V 50 Hz 2P IE4				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	Moment of Duty cycle Insulation Service fa	class ctor	: 155 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-

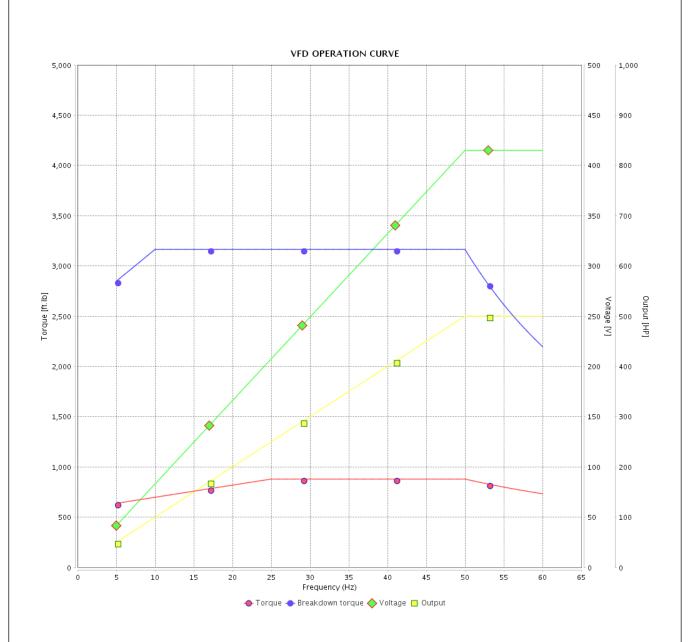
Phase

Product code: 11679361

Catalog #: 60036ET3G588/9S-W22

: 155 sq.ft.lb

: Cont.(S1)



Rated torque : 879 ft.lb Insulation class : F
Locked rotor torque : 300 % Service factor : 1.00
Breakdown torque : 360 % Temperature rise : 80 K

Rated speed : 2988 rpm

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