DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14384658

Catalog #: 65036ET3G588/9S-W22

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

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

: -20°C to +40°C Ambient temperature Starting method : Direct On Line

: 1000 m.a.s.l. Approx. weight³ Altitude : 4636 lb

Protection degree		: IP55	Moment of inc	ertia (J) : 176 sq.ft.lb	
		: 170	5q.it.ib		
Output [HP]		650	550	550	550
Poles		2	2	2	2
Frequency [Hz]		60	50	50	50
Rated voltage [V]		460	380	400	415
Rated current [A]		685	692	657	641
L. R. Amperes [A]		4864	4636	4928	5128
LRC [A]		7.1x(Code G)	6.7x(Code F)	7.5x(Code G)	8.0x(Code H)
No load current [A]	140	138	149	158
Rated speed [RPI	<i>/</i> 1]	3585	2985	2985	2985
Slip [%]		0.42	0.50	0.50	0.50
Rated torque [ft.lb]		952	968	968 968	
Locked rotor torque [%]		200	190	210	220
Breakdown torque	[%]	240	229	229 260	
Service factor		1.00	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		100s (cold) 56s (hot)	90s (cold) 50s (hot)	90s (cold) 50s (hot)	90s (cold) 50s (hot)
Noise level ²		89.0 dB(A)	83.0 dB(A)	83.0 dB(A)	83.0 dB(A)
	25%	96.0	96.1	96.1	96.1
Efficiency (%)	50%	96.1	96.2	96.2	96.2
Efficiency (%)	75%	96.6	96.5	96.5	96.5
	100%	96.6	96.5	96.5	96.5
	25%	0.65	0.65	0.62	0.59
Power Factor	50%	0.86	0.86	0.85	0.83
FUWEI FACIOI	75%	0.90	0.90	0.89	0.86
	100%	0.91	0.91	0.91	0.90

Non drive end Drive end Foundation loads

Bearing type 6314 C3 6314 C3 Max. traction : 3334 lb

Sealing Taconite Taconite Max. compression : 7970 lb Labyrinth Labyrinth Lubrication interval 4000 h 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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		Space heater informa	tion		
Voltage: 200 - 24	10 V				
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Three Phase Induction Motor - Squirrel Cage



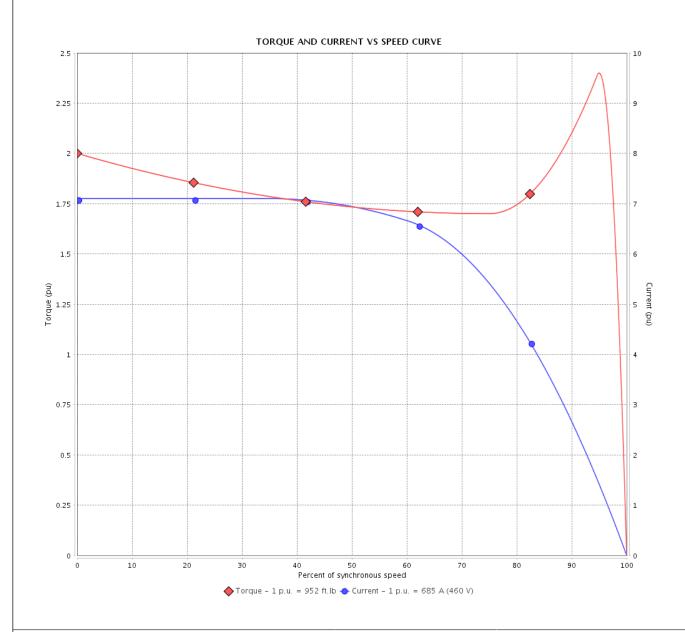
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 14384658

Catalog # : 65036ET3G588/9S-W22



Performance : 460 V 60 Hz 2P Rated current : 685 A Moment of inertia (J) : 176 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 952 ft.lb : 200 % Locked rotor torque Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 3585 rpm

Locked rotor time : 100s (cold) 56s (hot)

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Customer :

Product line : NEMA Premium Efficiency Three-

Phase

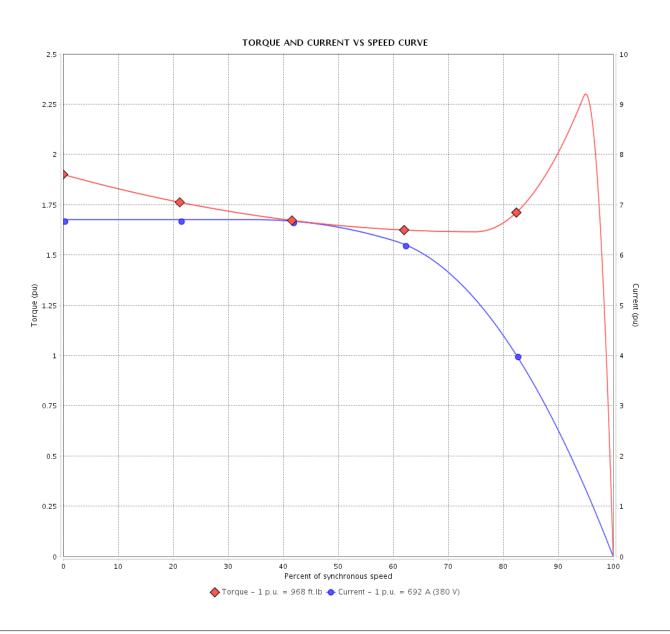
Product code: 14384658

Catalog #: 65036ET3G588/9S-W22

: 176 sq.ft.lb

: Cont.(S1)

: F



Locked rotor torque: 190 %Service factor: 1.00Breakdown torque: 229 %Temperature rise: 80 KRated speed: 2985 rpm

Locked rotor time : 90s (cold) 50s (hot)

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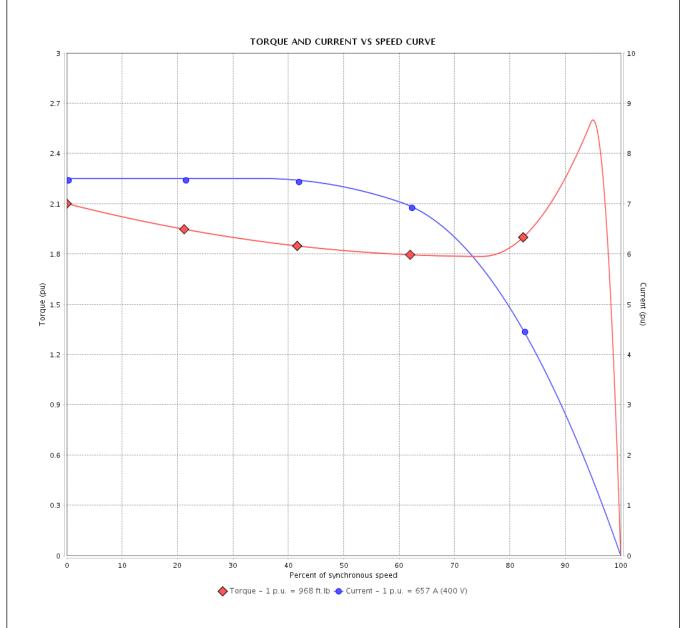


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14384658

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Catalog #: 65036ET3G588/9S-W22



Performance	: 400 V 50 Hz 2P IE1			
Rated current	: 657 A	Moment of inertia (J)	: 176 sq.ft.lb	
LRC	: 7.5	Duty cycle	: Cont.(S1)	
Rated torque	: 968 ft.lb	Insulation class	: F	
Locked rotor torque	: 210 %	Service factor	: 1.00	
Breakdown torque	: 260 %	Temperature rise	: 80 K	
Rated speed	: 2985 rpm			

Locked rotor time : 90s (cold) 50s (hot)

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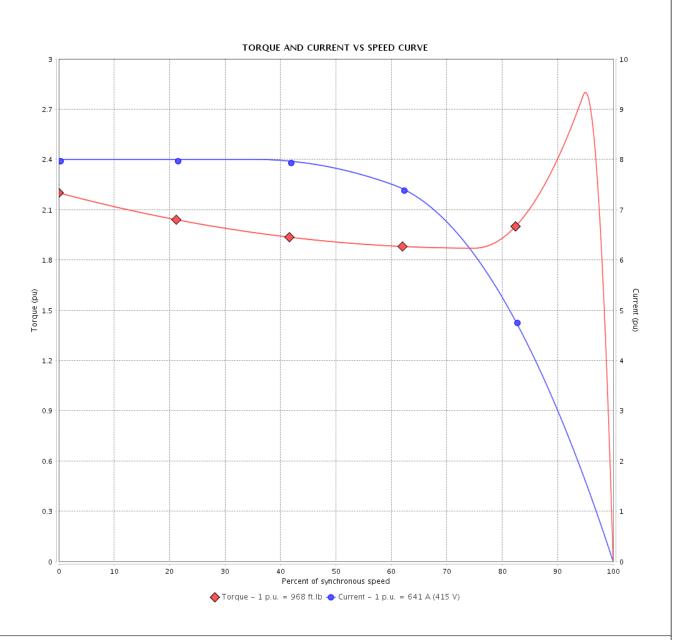


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 14384658

Catalog #: 65036ET3G588/9S-W22



Performance : 415 V 50 Hz 2P IE1 Rated current : 641 A Moment of inertia (J)

: 2985 rpm

: 176 sq.ft.lb **LRC** : 8.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 968 ft.lb : F Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed

Locked rotor time : 90s (cold) 50s (hot)

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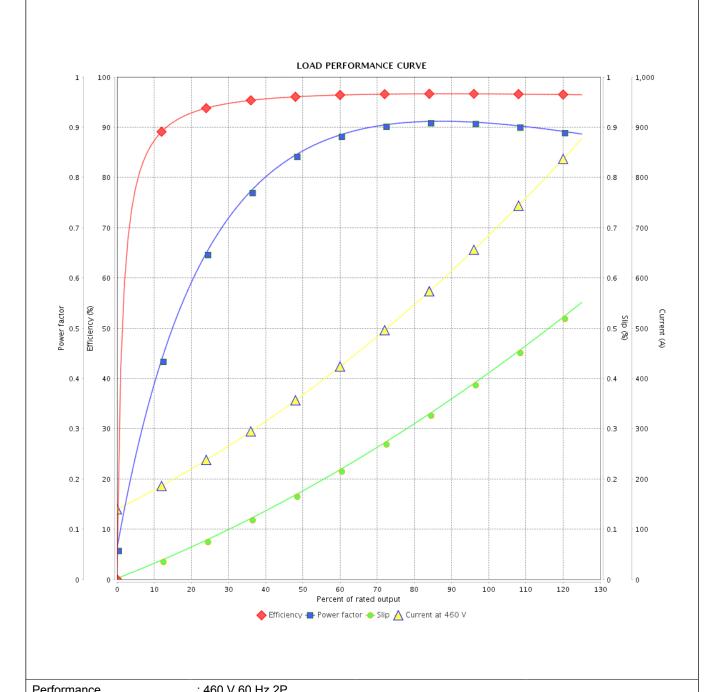
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 65036ET3G588/9S-W22

14384658



Periormance		. 400 V 60 HZ ZP				
Rated current	rent : 685 A		Moment of inertia (J)		: 176 sq.ft.lb	
LRC		: 7.1		e	: Cont.(S1)	
Rated torque : 952 ft.lb		Insulation	class	: F		
Locked rotor torque : 200 %		Service fa	ctor	: 1.00		
Breakdown torqu	e	: 240 %	Temperat	ure rise	: 80 K	
Rated speed		: 3585 rpm				
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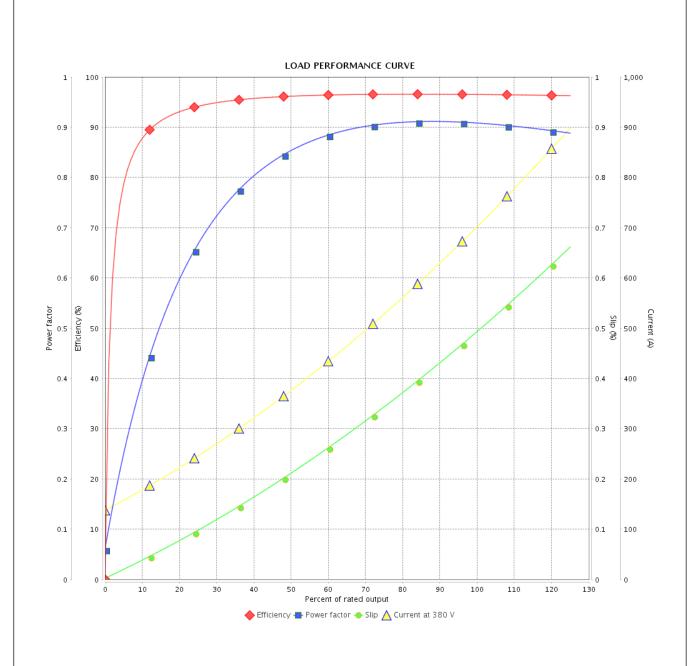


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14384658

Phase

Catalog #: 65036ET3G588/9S-W22



Performance : 380 V 50 Hz 2P IE1 Rated current : 692 A Moment of inertia (J) : 176 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 968 ft.lb Insulation class Rated torque : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 2985 rpm

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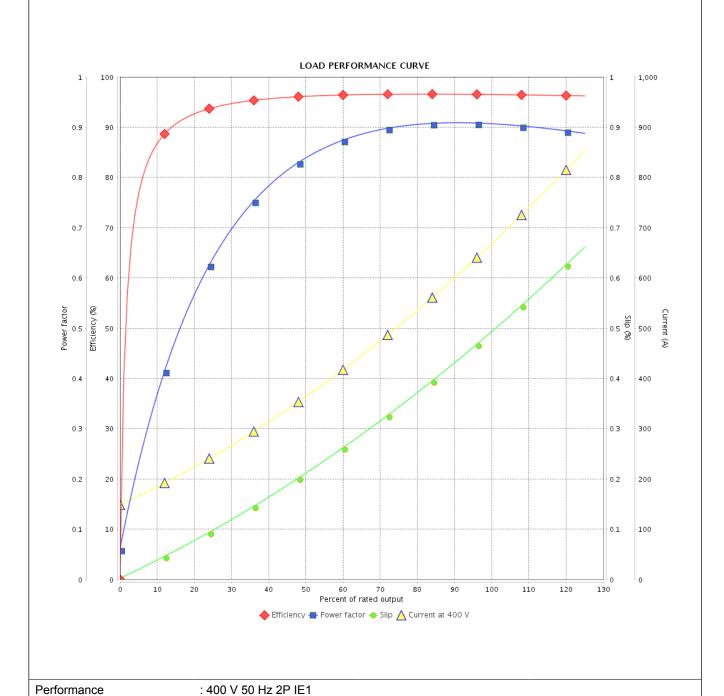


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14384658

Phase

Catalog #: 65036ET3G588/9S-W22



Rated current : 657 A LRC : 7.5		Moment of Duty cycle	, ,	: 176 sq.ft.lb : Cont.(S1)		
Rated torque	:	968 ft.lb	Insulation	class	: F	
Locked rotor tord	que :	210 %	Service factor		: 1.00	
Breakdown torqu	ue :	260 %	Temperature rise		: 80 K	
Rated speed	:	2985 rpm				
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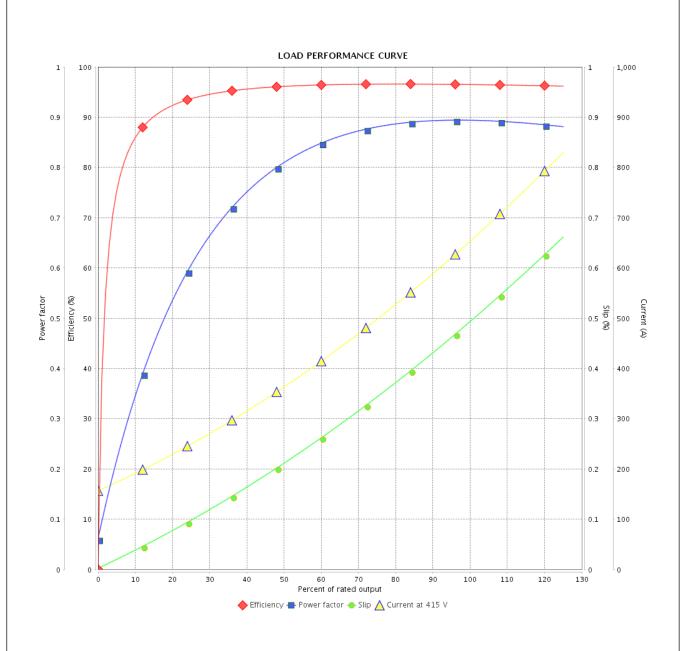
Customer

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14384658

Catalog #: 65036ET3G588/9S-W22



Performance	: 415 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 641 A : 8.0 : 968 ft.lb : 220 % : 280 % : 2985 rpm	Moment of Duty cycle Insulation Service fa Temperat	class actor	: 176 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
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Three Phase Induction Motor - Squirrel Cage

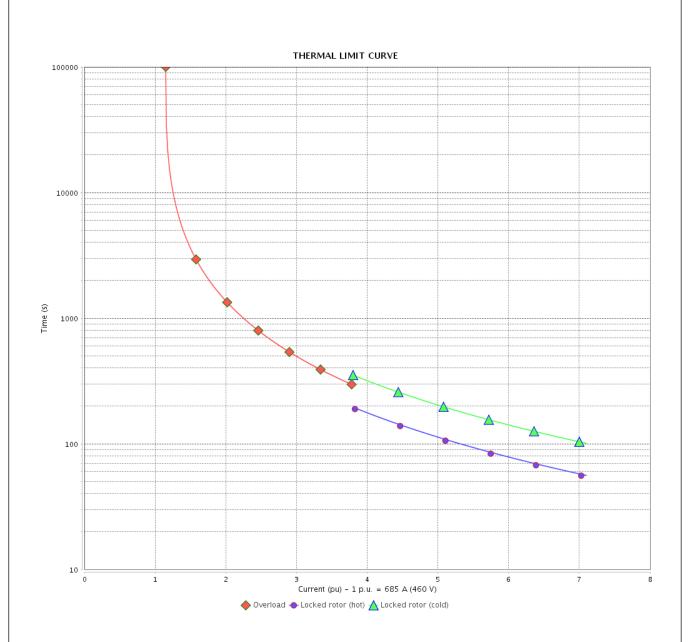


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Customer	:					
Product line		NEMA Premium Efficiency hase	Three-	Product code : Catalog # :	14384658 65036ET3G5	588/9S-W22
Performance		60 V 60 Hz 2P				
Rated current LRC	: 68 : 7.	35 A 1	Moment of Duty cycle	of inertia (J) e	: 176 sq.ft.lb : Cont.(S1)	
Rated torque	: 95	52 ft.lb	Insulation	r class	: F	
Locked rotor tord Breakdown torqu		00 % 40 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		585 rpm	Tomporat	5 1.05	. 55 10	
Heating constant	<u> </u>					
Cooling constant					I	
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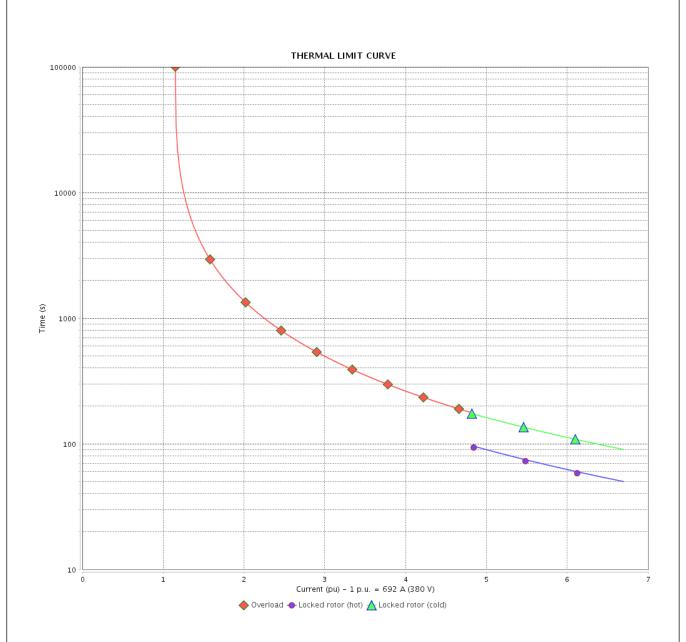


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	Р	hase	(Catalog # :	65036ET3G5	88/9S-W22
Porformanco	. 20	20 V 50 H 2 2D IE1				
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: 69 : 6. : 90 que : 19 ue : 22 : 29	7 1 68 ft.lb 1 90 % 3	Moment or Duty cycle Insulation Service fa Temperatu	class ctor	: 176 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Rated current LRC Rated torque Locked rotor tord Breakdown tord Rated speed Heating constan	: 69 : 6. : 90 que : 19 ue : 29 : 29	92 A 7 1 68 ft.lb 1 90 % 3	Duty cycle Insulation Service fa	class ctor	: Cont.(S1) : F : 1.00	
Rated current LRC Rated torque Locked rotor tord Breakdown tord Rated speed Heating constan Cooling constan	: 69 : 6. : 90 que : 19 ue : 29 : 29	92 A 7 68 ft.lb 90 % 29 % 985 rpm	Duty cycle Insulation Service fa	class ctor ure rise	: Cont.(S1) : F : 1.00 : 80 K	Dato
Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: 69 : 6. : 90 que : 19 ue : 29 : 29	92 A 7 1 68 ft.lb 1 90 % 3	Duty cycle Insulation Service fa	class ctor	: Cont.(S1) : F : 1.00	Date
Rated current LRC Rated torque Locked rotor tord Breakdown tord Rated speed Heating constan Cooling constan Rev.	: 69 : 6. : 90 que : 19 ue : 29 : 29	92 A 7 68 ft.lb 90 % 29 % 985 rpm	Duty cycle Insulation Service fa	class ctor ure rise	: Cont.(S1) : F : 1.00 : 80 K	Date
Rated current LRC Rated torque Locked rotor tord Breakdown tord Rated speed Heating constan Cooling constan	: 69 : 6. : 90 que : 19 ue : 29 : 29	92 A 7 68 ft.lb 90 % 29 % 985 rpm	Duty cycle Insulation Service fa	class ctor ure rise	: Cont.(S1) : F : 1.00 : 80 K	Date

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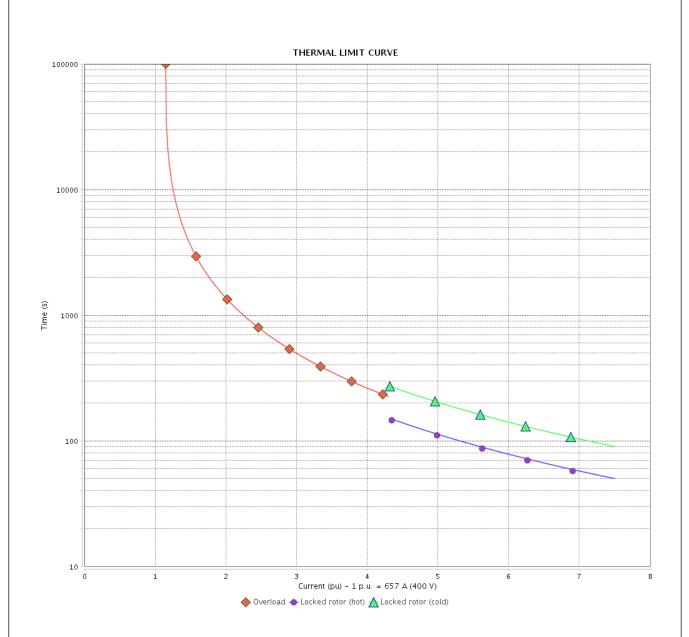


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Product line	: 1 P	NEMA Premium Efficiency hase		Product code : Catalog # :	14384658 65036ET3G	588/9S-W22
Performance	· 4(00 V 50 Hz 2P IE1				
Rated current LRC	: 65 : 7.	57 A 5	Duty cycle		: 176 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord Breakdown torqu Rated speed	que : 2° ue : 26	68 ft.lb 10 % 60 % 985 rpm	Insulation Service fa Temperate	ictor	: F : 1.00 : 80 K	
Heating constant						
Cooling constant	•	Changes Summary		Performed	Checked	Date
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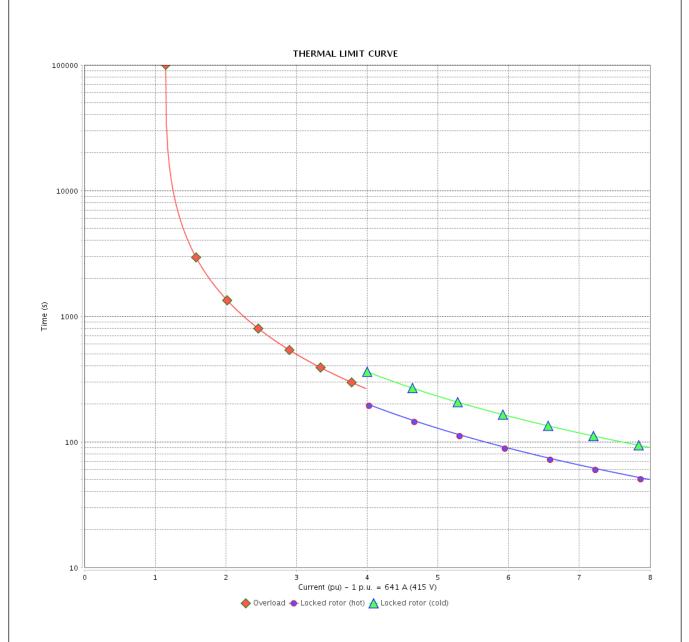


Customer	:					
Product line	: ì Pi	NEMA Premium Efficiency [·] hase		Product code : Catalog # :	14384658 65036ET3G	588/9S-W22
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 ² : 8. : 96 que : 22 ue : 28	15 V 50 Hz 2P IE1 41 A 0 68 ft.lb 20 % 80 % 985 rpm	Moment of Duty cycle Insulation Service fa Temperate	class ictor	: 176 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Heating constant						
Cooling constant		Changes Summary		Performed	Checked	Date
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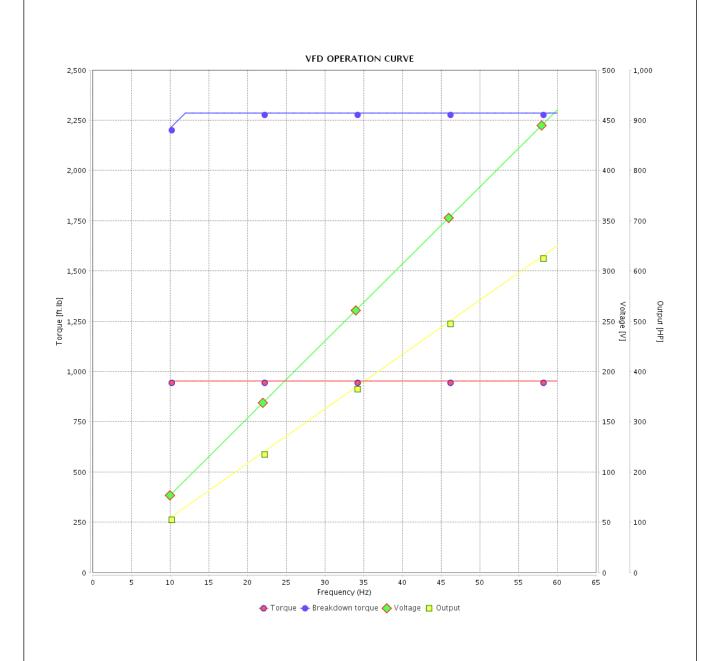
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Phase

Product code: 14384658

Catalog #: 65036ET3G588/9S-W22



Rated current : 685 A	Performance	: 460 V 60 Hz 2P				
Rev. Changes Summary Performed Checked Date	LRC Rated torque Locked rotor torque Breakdown torque	: 7.1 : 952 ft.lb ue : 200 % e : 240 %	Duty cycle Insulation Service fa	class ctor	: Cont.(S1) : F : 1.00	
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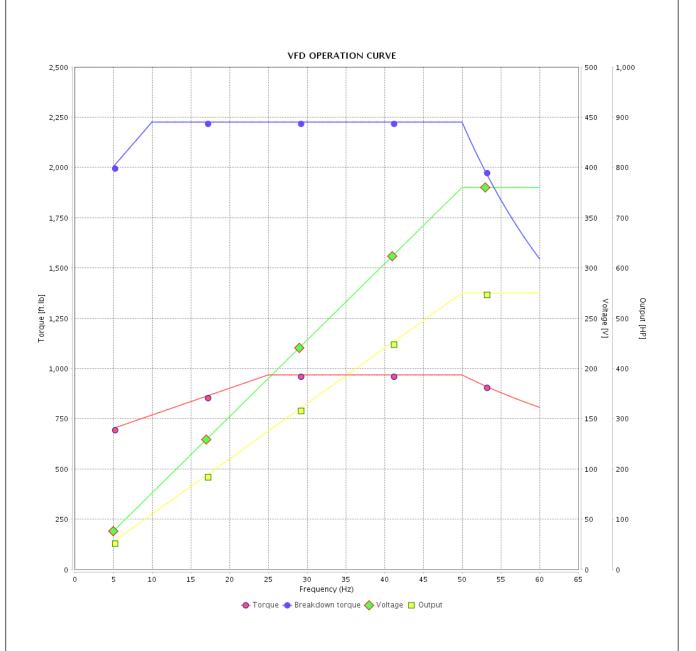
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Product code: 14384658

Catalog #: 65036ET3G588/9S-W22



Performance : 380 V 50 Hz 2P IE1 Rated current : 692 A Moment of inertia (J) : 176 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 968 ft.lb Insulation class : F Rated torque Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 2985 rpm

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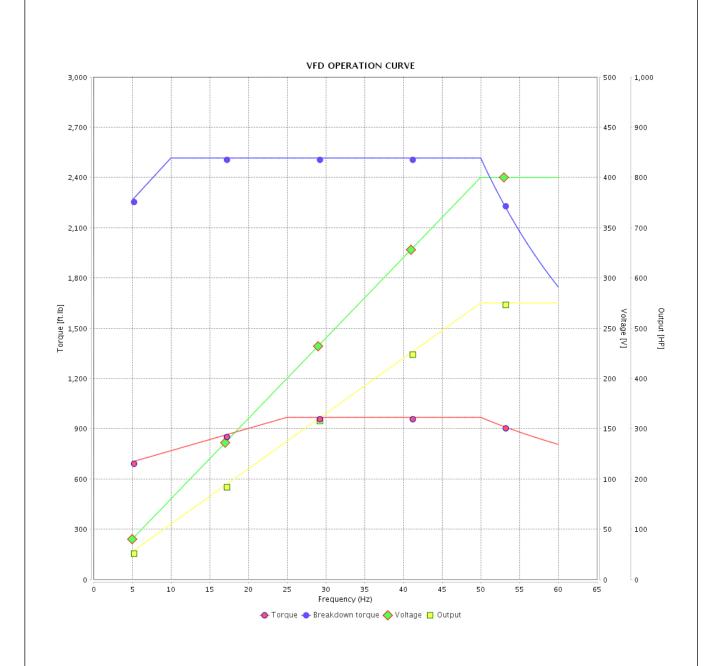
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 65036ET3G588/9S-W22

14384658



Performance : 400 V 50 Hz 2P IE1 Rated current : 657 A Moment of inertia (J) : 176 sq.ft.lb **LRC** : 7.5 Duty cycle : Cont.(S1) : 968 ft.lb Insulation class : F Rated torque Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 2985 rpm

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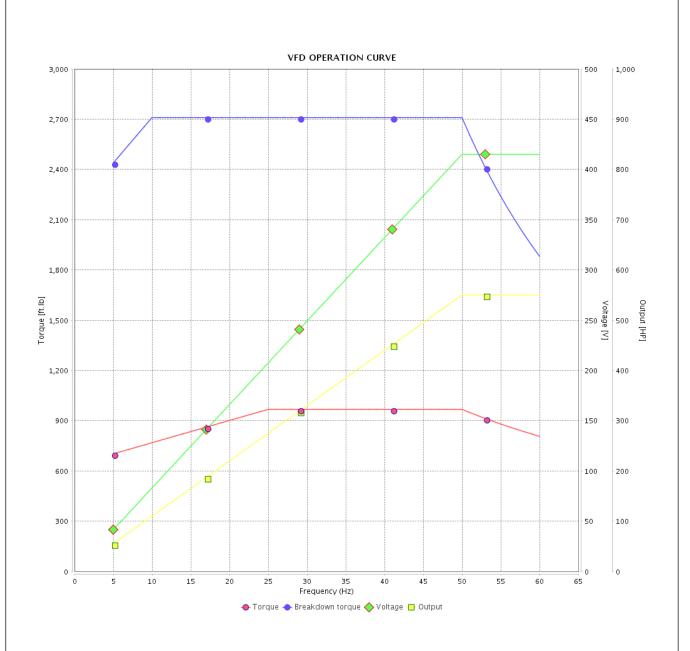
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Phase

Product code: 14384658

Catalog #: 65036ET3G588/9S-W22

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Performance : 415 V 50 Hz 2P IE1

12/04/2022

Date

Rated current : 641 A Moment of inertia (J) : 176 sq.ft.lb LRC : 8.0 Duty cycle : Cont.(S1) Rated torque : 968 ft.lb Insulation class : F

Locked rotor torque : 220 % Service factor : 1.00
Breakdown torque : 280 % Temperature rise : 80 K
Rated speed : 2985 rpm

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