DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12011329

Phase

Catalog #: 60012ET3G588/9-W22

Frame : 588/9T 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

Altitude : 1000 m.a.s.l. Approx. weight³ : 5867 lb

Protection degree : IP55 Moment of inertia (J) : 449 sq.ft.lb

Protection degree		: IP55	Moment of ine	ertia (J) : 449	sq.ft.lb
Output [HP]		600	500	500	500
Poles		6	6	6	6
Frequency [Hz]		60	50	50	50
Rated voltage [V]		460	380	400	415
Rated current [A]		727	743	724	716
L. R. Amperes [A]		4580	4532	4851	5155
LRC [A]		6.3x(Code G)	6.1x(Code G)	6.7x(Code H)	7.2x(Code J)
No load current [A]	330	325	354	379
Rated speed [RPN	/ []	1190	990	990	990
Slip [%]		0.83	1.00	1.00	1.00
Rated torque [ft.lb]]	2650	2650	2650	2650
Locked rotor torqu	Locked rotor torque [%]		200	229	250
Breakdown torque	[%]	229	220	250	270
Service factor		1.00	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		55s (cold) 31s (hot)	45s (cold) 25s (hot)	45s (cold) 25s (hot)	45s (cold) 25s (hot)
Noise level ²		77.0 dB(A)	73.0 dB(A)	73.0 dB(A)	73.0 dB(A)
	25%	95.2	95.3	95.1	94.9
Efficiency (%)	50%	95.4	95.4	95.2	95.0
Efficiency (%)	75%	96.1	95.8	95.8	95.8
	100%	96.2	95.8	95.8	95.8
	25%		0.39	0.36	0.33
Power Factor	50%	0.63	0.64	0.60	0.56
FOWEI FACIOI	75%	0.74	0.75	0.71	0.69
	100%	0.79	0.79	0.77	0.75

<u>Drive end</u> <u>Non drive end</u> Foundation loads

60 g

Bearing type : 6322 C3 6319 C3 Max. traction : 12007 lb Sealing : Taconite Taconite Max. compression : 17874 lb

Sealing : Taconite Taconite Max. compression : 17874 lb Labyrinth Lubrication interval : 11000 h 13000 h

45 g

Lubricant type : Mobil Polyrex EM

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.

Lubricant amount

Notes

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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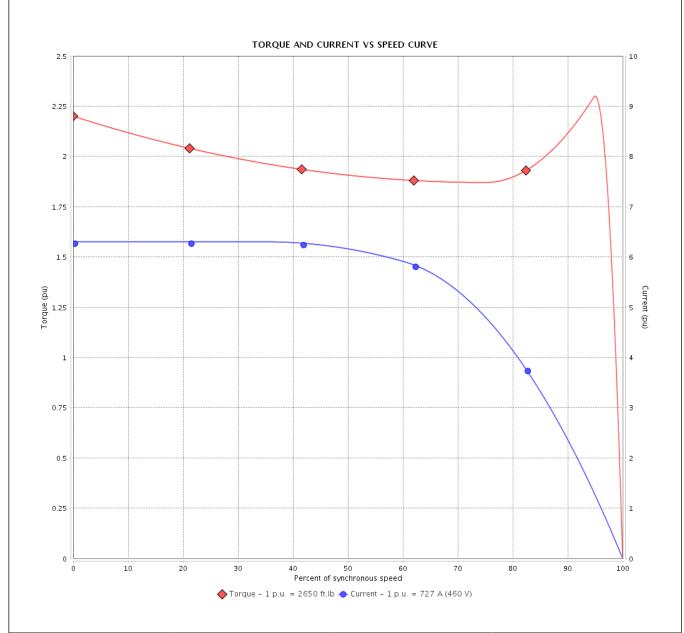
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12011329

Catalog #: 60012ET3G588/9-W22



Performance	: 460 V 60 Hz 6P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 727 A : 6.3 : 2650 ft.lb : 220 % : 229 % : 1190 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise	: 449 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Locked reter time	: 55c (cold) 31c (bot)			

Locked rotor time : 55s (cold) 31s (hot)

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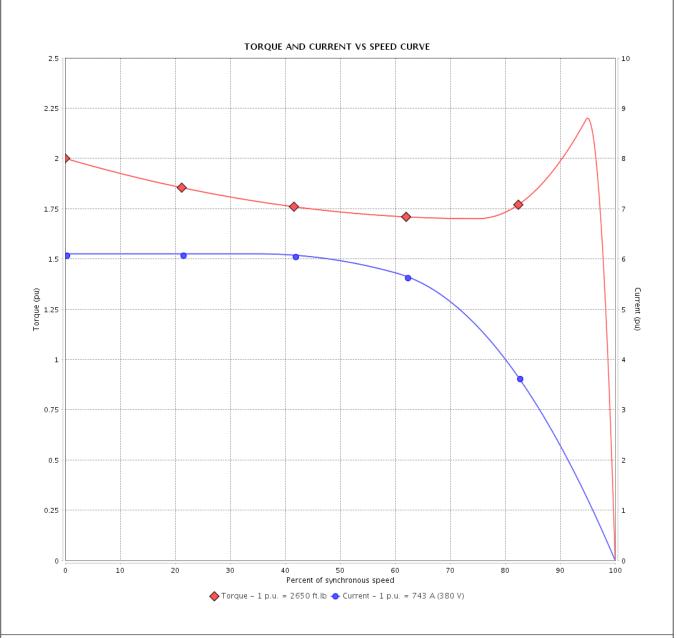
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12011329

Catalog #: 60012ET3G588/9-W22



Performance : 380 V 50 Hz 6P IE3

Rated current : 743 A
LRC : 6.1
Rated torque : 2650 ft.lb
Locked rotor torque : 200 %

Breakdown torque

Rated speed

: 220 % : 990 rpm Moment of inertia (J) : 449 sq.ft.lb Duty cycle : Cont.(S1)

Insulation class : F
Service factor : 1.00
Temperature rise : 80 K

Locked rotor time : 45s (cold) 25s (hot)

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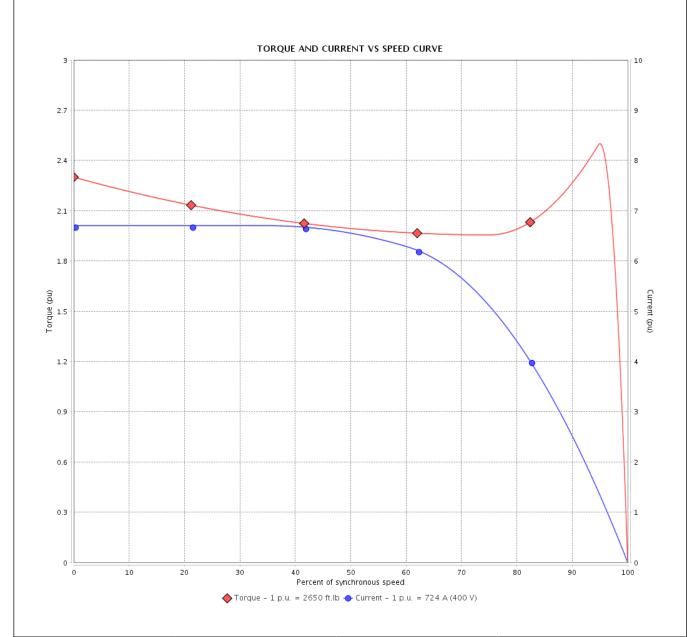
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 60012ET3G588/9-W22

12011329



Performance	: 400 V 50 Hz 6P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 724 A : 6.7 : 2650 ft.lb : 229 % : 250 % : 990 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise	: 449 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Locked reter time	: 45c (cold) 25c (bot)			

Locked rotor time : 45s (cold) 25s (hot)

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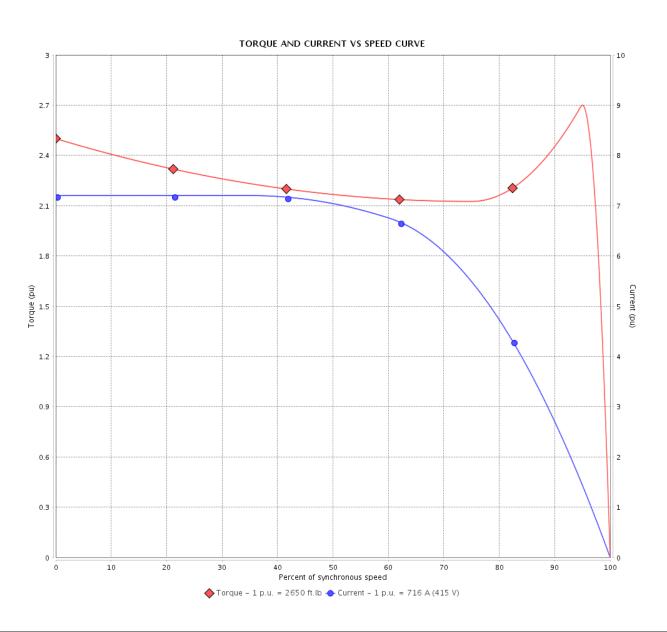
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Product line : NEMA Premium Efficiency Three- Product co

Phase

Product code: 12011329

Catalog #: 60012ET3G588/9-W22



Performance : 415 V 50 Hz 6P IE3

Rated current : 716 A
LRC : 7.2
Rated torque : 2650 ft.lb
Locked rotor torque : 250 %
Breakdown torque : 270 %

Rated speed

Moment of inertia (J) : 449 sq.ft.lb Duty cycle : Cont.(S1)

Insulation class : F
Service factor : 1.00
Temperature rise : 80 K

Locked rotor time : 45s (cold) 25s (hot)

: 990 rpm

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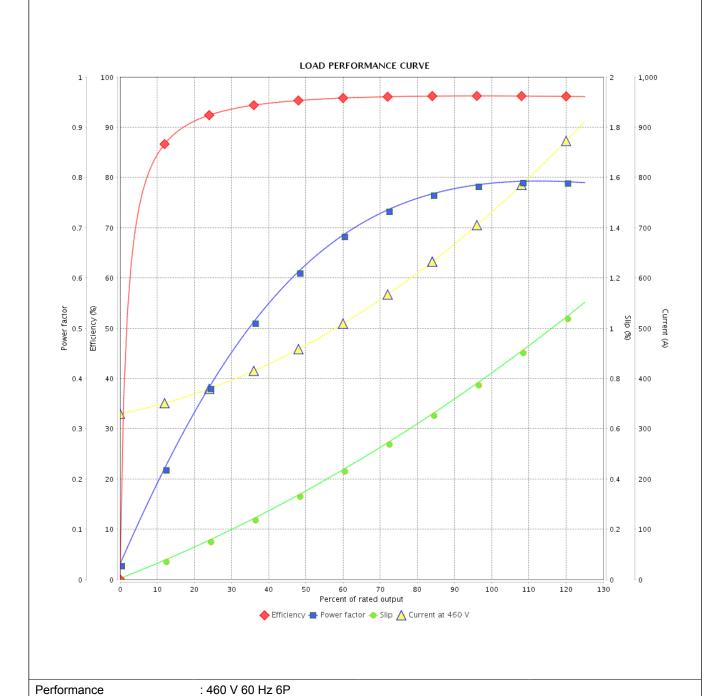
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Phase

Catalog #: 60012ET3G588/9-W22

12011329



Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 20 que : 22 ue : 22	27 A 3 650 ft.lb 20 % 29 % 190 rpm	Moment of Duty cycle Insulation Service fa	class actor	: 449 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
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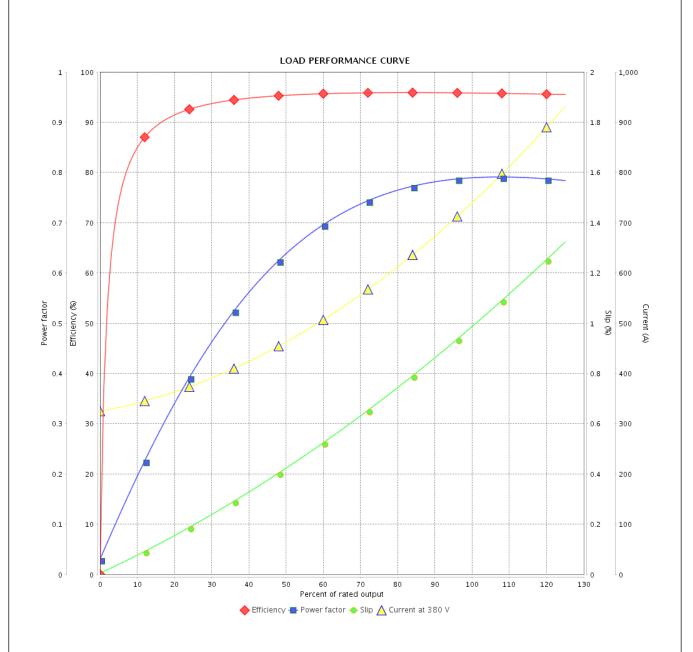
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 60012ET3G588/9-W22

12011329



 Performance
 : 380 V 50 Hz 6P IE3

 Rated current
 : 743 A
 Moment of inertia (J)
 : 449 sq.ft.lb

 LRC
 : 6.1
 Duty cycle
 : Cont.(S1)

 Rated torque
 : 2650 ft.lb
 Insulation class
 : F

Rated torque : 2650 ft.lb Insulation class : F
Locked rotor torque : 200 % Service factor : 1.00
Breakdown torque : 220 % Temperature rise : 80 K
Rated speed : 990 rpm

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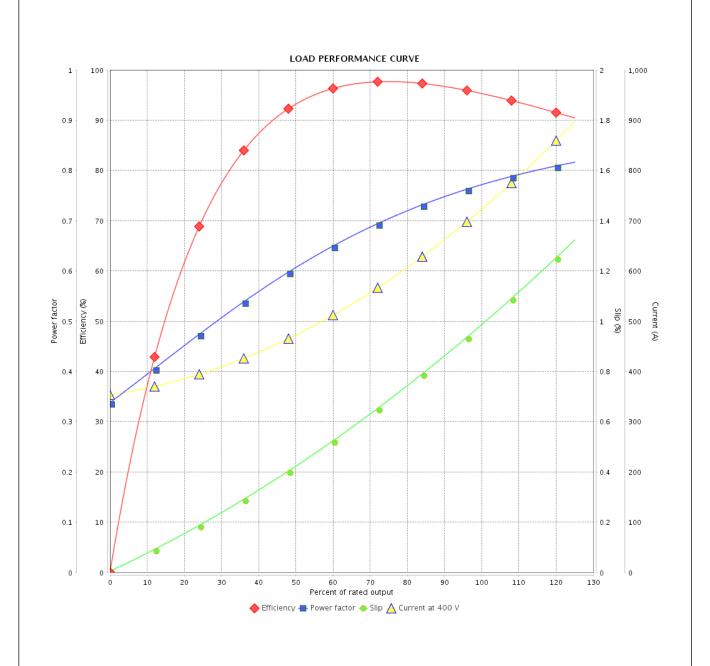


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Product line : NEMA Premium Efficiency Three- Product code : 12011329

Phase

Catalog #: 60012ET3G588/9-W22



Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	Moment of Duty cycle Insulation Service fa Temperate	class ctor	: 449 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
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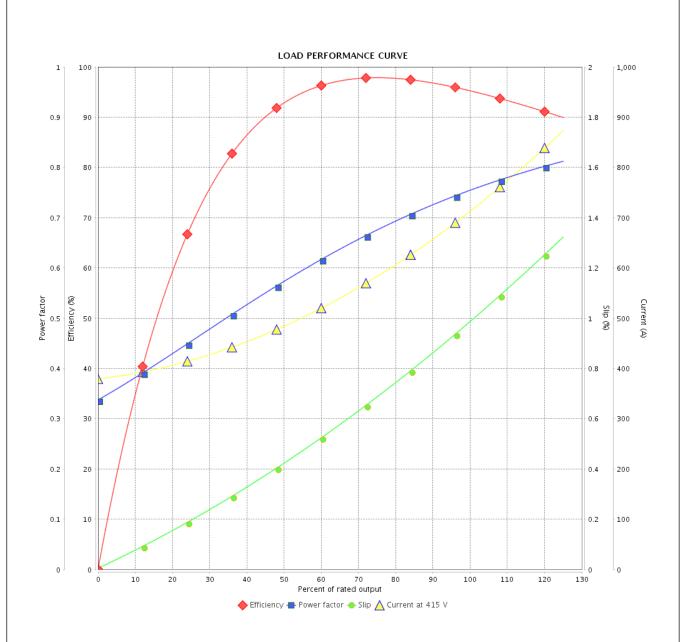
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 60012ET3G588/9-W22

12011329



 Performance
 : 415 V 50 Hz 6P IE3

 Rated current
 : 716 A
 Moment of inertia (J)
 : 449 sq.ft.lb

 LRC
 : 7.2
 Duty cycle
 : Cont.(S1)

Rated torque : 2650 ft.lb Insulation class : F
Locked rotor torque : 250 % Service factor : 1.00
Breakdown torque : 270 % Temperature rise : 80 K
Rated speed : 990 rpm

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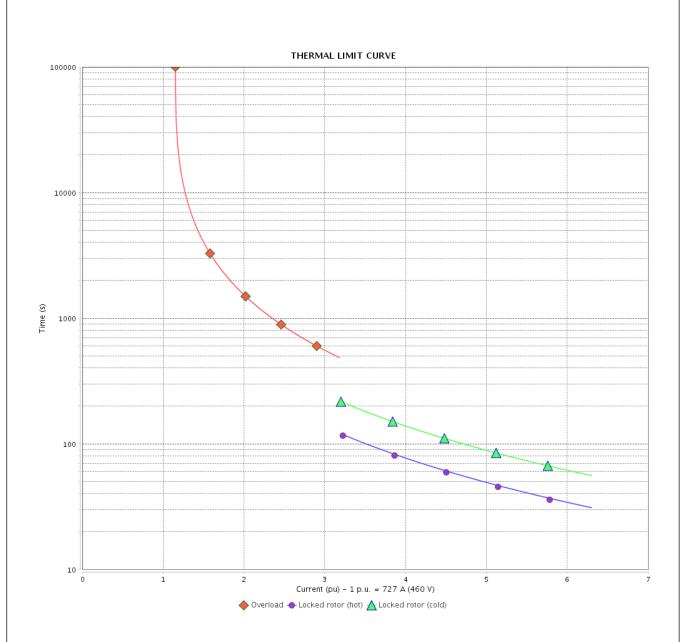


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Product line		NEMA Premium Efficiency ⁻ hase		Product code : Catalog # :	12011329 60012ET3G	588/9-W22
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: 72 : 6. : 26 que : 22 ue : 22	60 V 60 Hz 6P 27 A .3 650 ft.lb 20 % 29 % 190 rpm	Moment of Duty cycle Insulation Service fa Temperat	class actor	: 449 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Heating constant	t					
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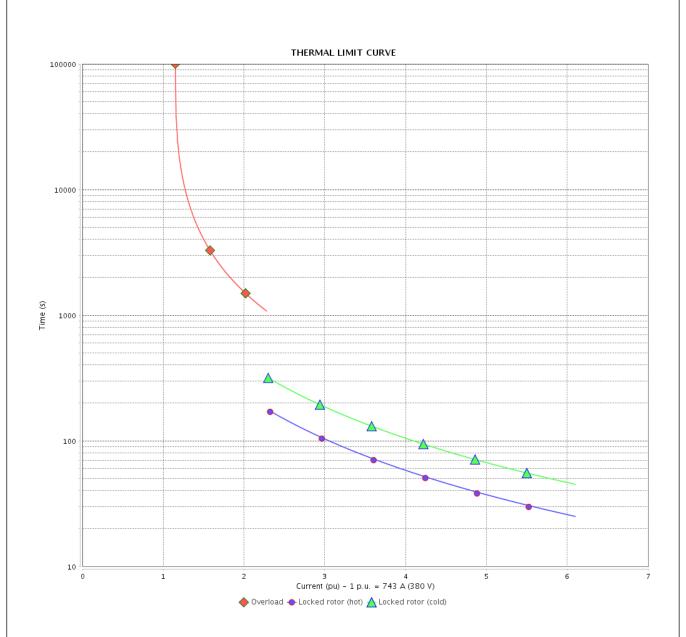


Customer	:					
Product line	: P	NEMA Premium Efficiency in the contract of the	Three-	Product code :	12011329	
				Catalog # :	60012ET3G5	88/9-W22
Performance	: 3	80 V 50 Hz 6P IE3				
Rated current	: 74	43 A	Moment o	of inertia (J)	: 449 sq.ft.lb	
Rated current LRC	: 7 ⁴ : 6	43 A 1	Duty cycle	Э	: Cont.(S1)	
Performance Rated current LRC Rated torque Locked rotor tor	: 74 : 6 : 20 que : 20	43 A 1 650 ft.lb 00 %	Duty cycle Insulation Service fa	e class actor	: Cont.(S1) : F : 1.00	
Rated current LRC Rated torque Locked rotor tor Breakdown torq	: 74 : 6 : 20 que : 20 ue : 21	43 A 1 650 ft.lb 00 % 20 %	Duty cycle Insulation	e class actor	: Cont.(S1) : F	
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed	: 74 : 6 : 20 que : 20 ue : 23 : 99	43 A 1 650 ft.lb 00 %	Duty cycle Insulation Service fa	e class actor	: Cont.(S1) : F : 1.00	
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar	: 7. : 6. : 2! que : 2! ue : 2: : 9!	43 A 1 650 ft.lb 00 % 20 %	Duty cycle Insulation Service fa	e class actor	: Cont.(S1) : F : 1.00	
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constan Cooling constan	: 7. : 6. : 2! que : 2! ue : 2: : 9!	43 A 1 650 ft.lb 00 % 20 % 90 rpm	Duty cycle Insulation Service fa	e class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K	Data
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar	: 7. : 6. : 2! que : 2! ue : 2: : 9!	43 A 1 650 ft.lb 00 % 20 %	Duty cycle Insulation Service fa	e class actor	: Cont.(S1) : F : 1.00	Date
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constan Cooling constan Rev.	: 7. : 6. : 2! que : 2! ue : 2: : 9!	43 A 1 650 ft.lb 00 % 20 % 90 rpm	Duty cycle Insulation Service fa	e class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K	Date
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constan	: 7. : 6. : 2! que : 2! ue : 2: : 9!	43 A 1 650 ft.lb 00 % 20 % 90 rpm	Duty cycle Insulation Service fa	e class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K	Date

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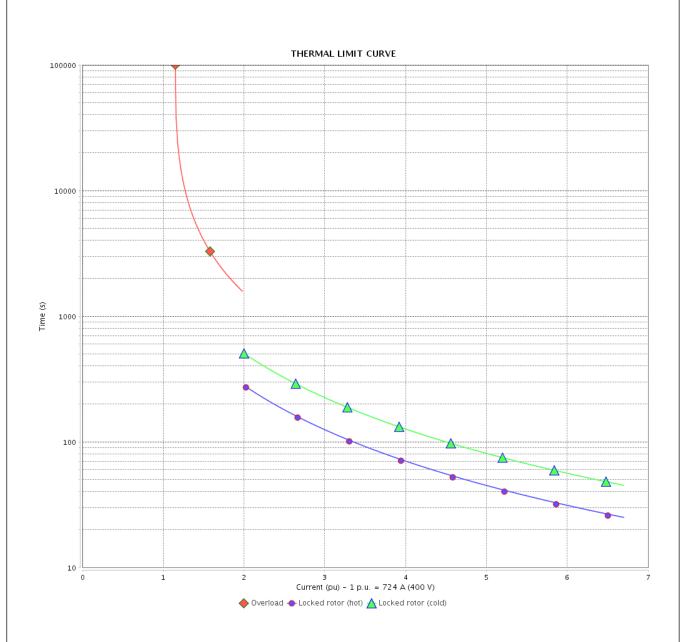


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Product line		NEMA Premium Efficiency ⁻ hase	Three-	Product code :	12011329	
				Catalog # :	60012ET3G	588/9-W22
Performance	: 40	00 V 50 Hz 6P IE3				
Rated current LRC Rated torque	: 6. : 26	650 ft.lb	Duty cycle Insulation	class	: 449 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord Breakdown torqu Rated speed	ue : 25	29 % 50 % 90 rpm	Service fa Temperat		: 1.00 : 80 K	
Heating constan	t					
Cooling constan						
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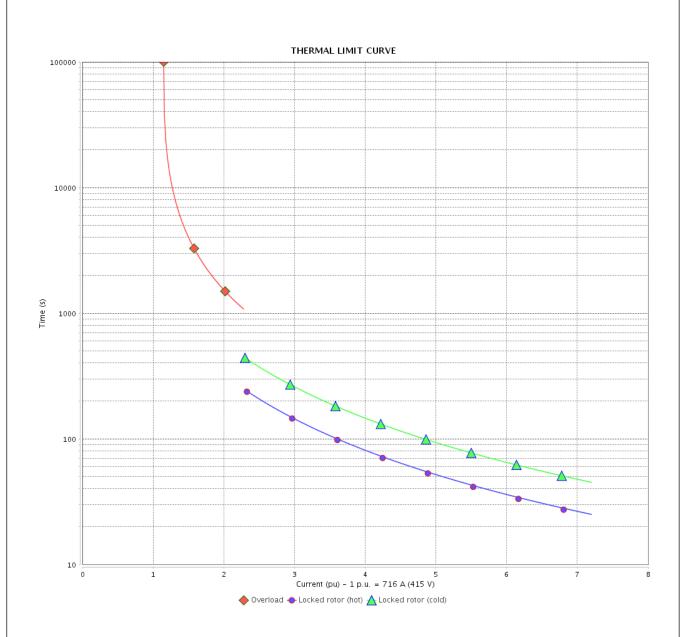


Customer	:					
Product line	: l P	NEMA Premium Efficiency hase	Three-	Product code :	12011329	
				Catalog # :	60012ET3G5	588/9-W22
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7 ⁻ : 7. : 20 que : 29 ue : 2	15 V 50 Hz 6P IE3 16 A 2 650 ft.lb 50 % 70 % 90 rpm	Moment of Duty cycle Insulation Service fa	class actor	: 449 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Heating constan						
Cooling constant	<u> </u>	01		Dorfo I	Ob a all l	
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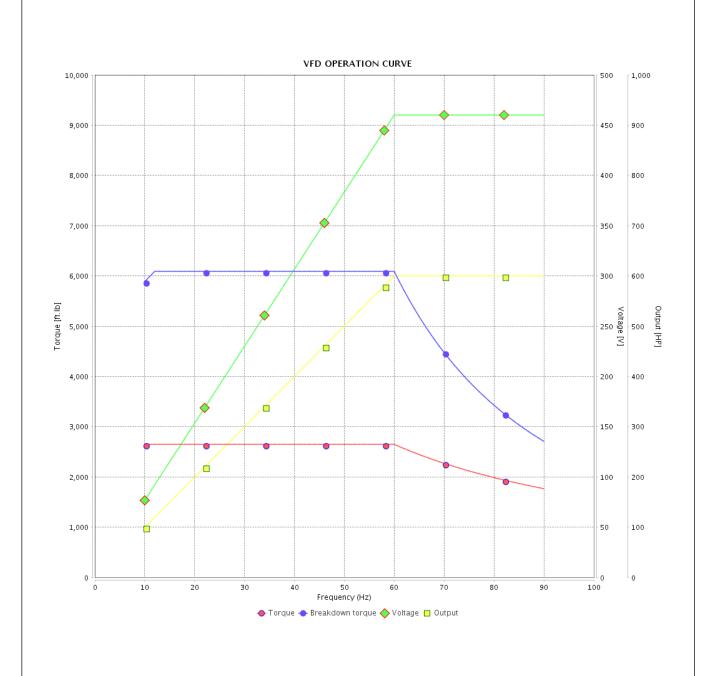


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12011329

Phase

Catalog #: 60012ET3G588/9-W22



Performance : 460 V 60 Hz 6P : 727 A Rated current Moment of inertia (J) : 449 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) : 2650 ft.lb Insulation class : F Rated torque Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1190 rpm

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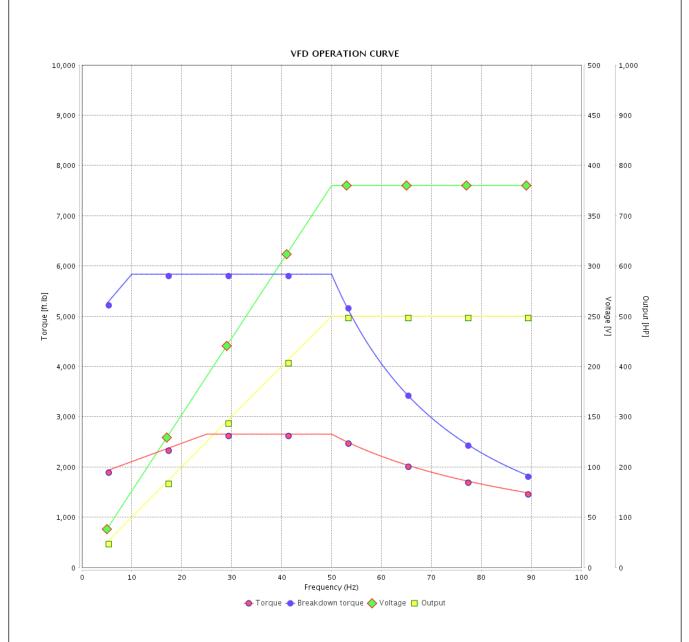
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 12011329

Catalog #: 60012ET3G588/9-W22



Performance : 380 V 50 Hz 6P IE3

Rated current : 743 A | Moment of inertia (J) : 449 sq.ft.lb LRC : 6.1 | Duty cycle : Cont.(S1)

Rated torque : 2650 ft.lb Insulation class : F
Locked rotor torque : 200 % Service factor : 1.00
Breakdown torque : 220 % Temperature rise : 80 K

Rated speed : 990 rpm

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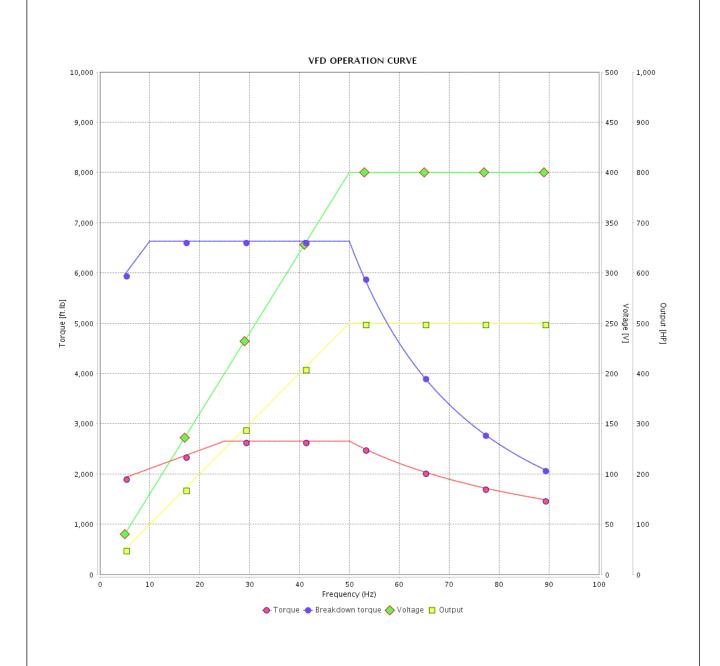


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12011329

Phase

Catalog #: 60012ET3G588/9-W22



Performance		: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 724 A : 6.7 : 2650 ft.lb : 229 % : 250 % : 990 rpm	Moment of Duty cycle Insulation Service fa	class actor	: 449 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
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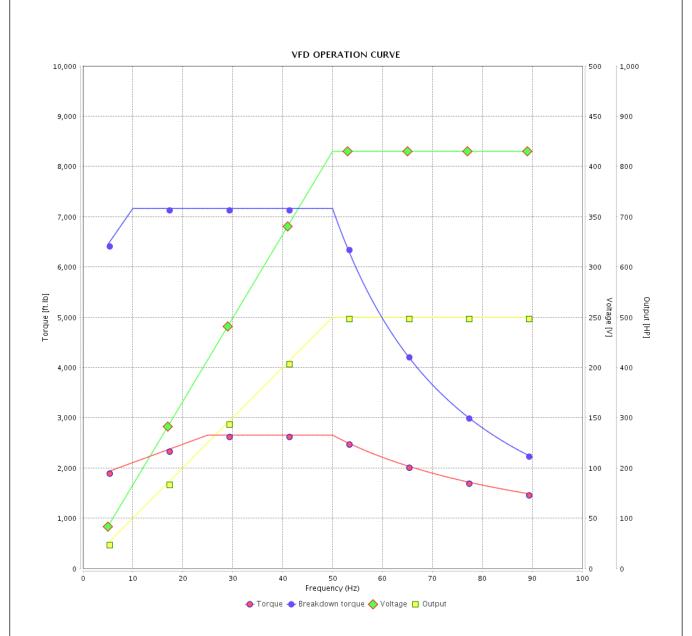


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12011329

Phase

Catalog #: 60012ET3G588/9-W22



Performance : 415 V 50 Hz 6P IE3 : 716 A Rated current Moment of inertia (J) : 449 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) : 2650 ft.lb Insulation class Rated torque : F Locked rotor torque : 250 % Service factor : 1.00 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 990 rpm

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