DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11587730

Catalog #: 40012ET3G586/7-W22

Frame : 586/7T Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

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

: -20°C to +40°C Starting method Ambient temperature : Direct On Line Altitude · 1000 m a s l Approx weight³ · 4382 lb

Altitude		: 1000 m.a.s.i.	11		2 ID
Protection degree : IP55 Moment of inertia (J) : 36					sq.ft.lb
Output [HP]	Output [HP]		350	350	350
Poles		6	6	6	6
Frequency [Hz]		60	50	50	50
Rated voltage [V]		460	380	400	415
Rated current [A]		483	503	490	478
L. R. Amperes [A]		2898	2767	2989	3107
LRC [A]		6.0x(Code G)	5.5x(Code F)	6.1x(Code G)	6.5x(Code H)
No load current [A]	200	198	212	226
Rated speed [RPN	/ 1]	1190	990	990	990
Slip [%]		0.83	1.00	1.00	1.00
	Rated torque [ft.lb]		1850	1850	1850
Locked rotor torqu	e [%]	220	200	220	240
Breakdown torque	[%]	210	200	220	240
Service factor		1.15	1.00	1.00	1.00
Temperature rise		80 K	105 K	105 K	105 K
Locked rotor time		52s (cold) 29s (hot)	41s (cold) 23s (hot)	41s (cold) 23s (hot)	41s (cold) 23s (hot)
Noise level ²		77.0 dB(A)	73.0 dB(A)	73.0 dB(A)	73.0 dB(A)
	25%	94.9	95.3	95.3	94.5
Efficiency (%)	50%	95.4	95.4	95.4	95.0
Lincicity (70)	75%	95.8	95.8	95.8	95.4
100%		96.2	95.8	95.8	95.8
	25%	0.42	0.43	0.40	0.37
Power Factor	50%	0.67	0.69	0.65	0.62
1 OWELL ACIOI	75%	0.77	0.78	0.76	0.74
	100%	0.81	0.82	0.80	0.79

Non drive end Drive end Foundation loads

Bearing type 6322 C3 6319 C3 Max. traction : 7105 lb

Sealing Taconite Taconite Max. compression : 11487 lb Labyrinth Labyrinth Lubrication interval 11000 h 13000 h

Lubricant amount 60 g 45 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	:					
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Voltage: 200 - 24	10 V					
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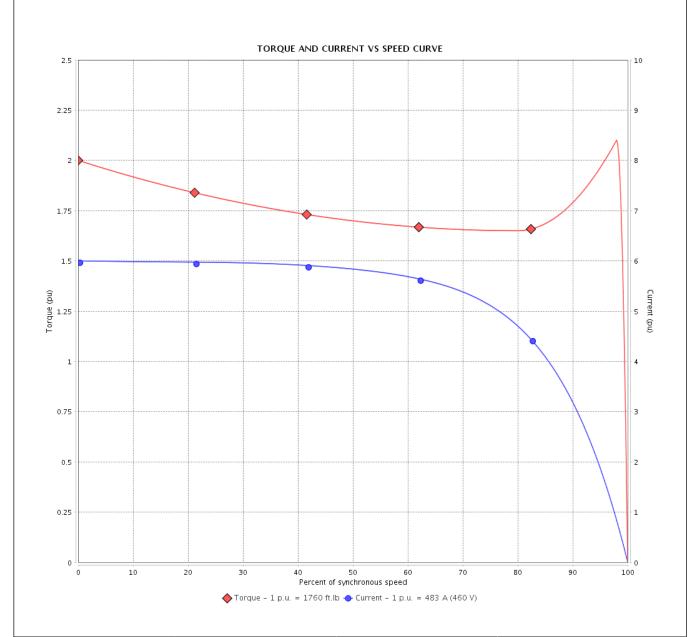


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11587730

Phase

Catalog #: 40012ET3G586/7-W22



Performance	: 460 V 60 Hz 6P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 483 A : 6.0 : 1760 ft.lb : 220 % : 210 % : 1190 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise	: 368 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K	
Locked reter time	: 52s (cold) 20s (bot)			

Locked rotor time : 52s (cold) 29s (hot)

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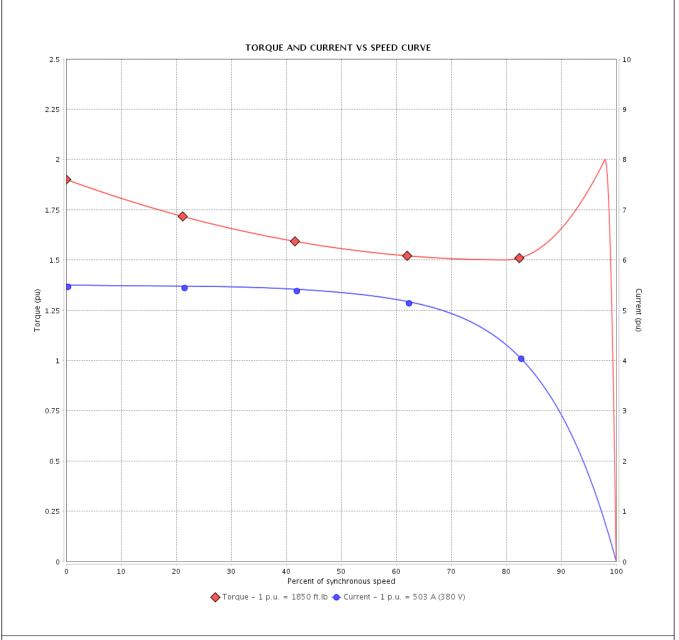
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11587730

Catalog #: 40012ET3G586/7-W22



Performance : 380 V 50 Hz 6P IE3

Rated current : 503 A
LRC : 5.5
Rated torque : 1850 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 200 %

Rated speed

Moment of inertia (J) : 368 sq.ft.lb

Duty cycle : Cont.(S1)
Insulation class : F

Service factor : 1.00
Temperature rise : 105 K

Locked rotor time : 41s (cold) 23s (hot)

: 990 rpm

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11587730 Catalog #: 40012ET3G586/7-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. = 1850 ft.lb ◆ Current - 1 p.u. = 490 A (400 V) : 400 V 50 Hz 6P IE3 Performance Rated current : 490 A Moment of inertia (J) : 368 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) Rated torque : 1850 ft.lb Insulation class : F Locked rotor torque : 220 % Service factor : 1.00 : 220 % Breakdown torque Temperature rise : 105 K Rated speed : 990 rpm Locked rotor time : 41s (cold) 23s (hot)

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Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11587730

Phase

Catalog #: 40012ET3G586/7-W22

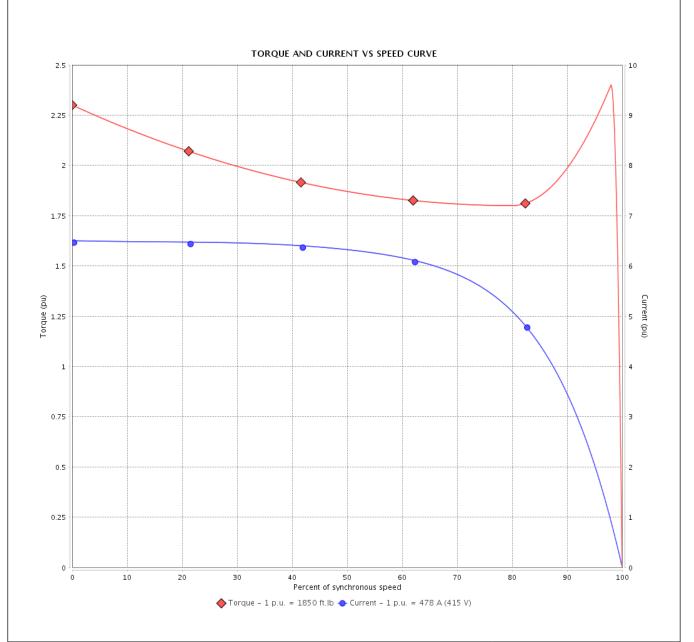
: 368 sq.ft.lb

: Cont.(S1)

: F

: 1.00

: 105 K



Performance : 415 V 50 Hz 6P IE3

Rated current : 478 A Moment of inertia (J)

LRC : 6.5

Rated torque : 1850 ft.lb Insulation class
Locked rotor torque : 240 % Service factor
Breakdown torque : 240 % Temperature rise
Rated speed : 990 rpm

Locked rotor time : 41s (cold) 23s (hot)

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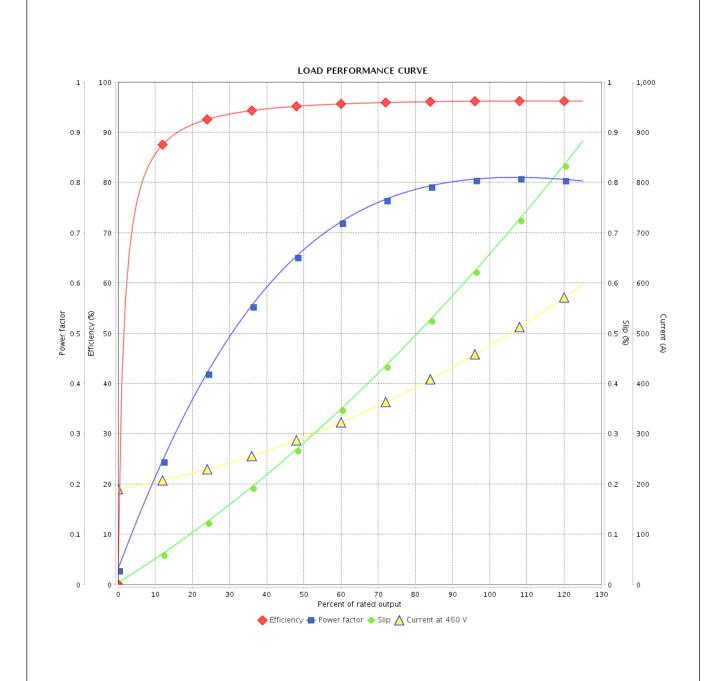
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 40012ET3G586/7-W22

11587730



Performance : 460 V 60 Hz 6P Rated current : 483 A Moment of inertia (J) : 368 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) : 1760 ft.lb Rated torque Insulation class : F Locked rotor torque : 220 % Service factor : 1.15 Breakdown torque : 210 % Temperature rise : 80 K Rated speed : 1190 rpm

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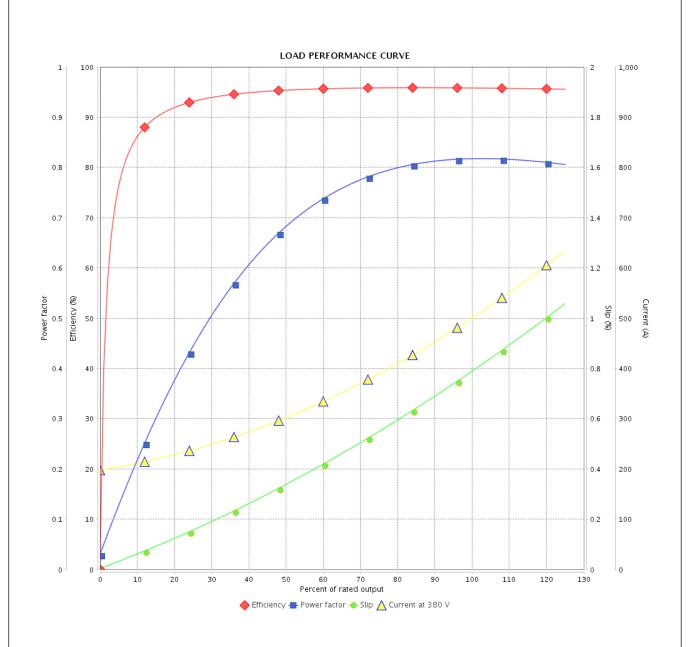
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Product line : NEMA Premium Efficiency Three- P

Phase

Product code: 11587730

Catalog #: 40012ET3G586/7-W22



Rated current : 503 A Moment of inertia (J) : 368 sq.ft.lb LRC : 5.5 Duty cycle : Cont.(S1)

Rated torque : 1850 ft.lb Insulation class : F
Locked rotor torque : 200 % Service factor : 1.00
Breakdown torque : 200 % Temperature rise : 105 K

: 380 V 50 Hz 6P IE3

Rated speed : 990 rpm

Performance

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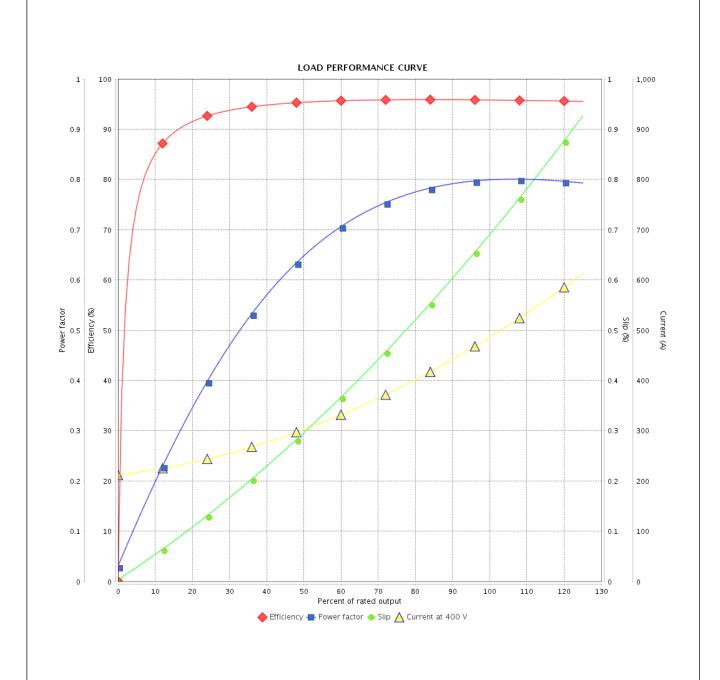


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11587730

Phase

Catalog #: 40012ET3G586/7-W22



Performance	: 400 V 50 Hz 6P IE3			
Rated current LRC	: 490 A : 6.1	Moment of inertia (J) Duty cycle	: 368 sq.ft.lb : Cont.(S1)	
Rated torque	: 1850 ft.lb	Insulation class	: F	
Locked rotor torque Breakdown torque	: 220 % : 220 %	Service factor Temperature rise	: 1.00 : 105 K	
Rated speed	: 990 rpm			

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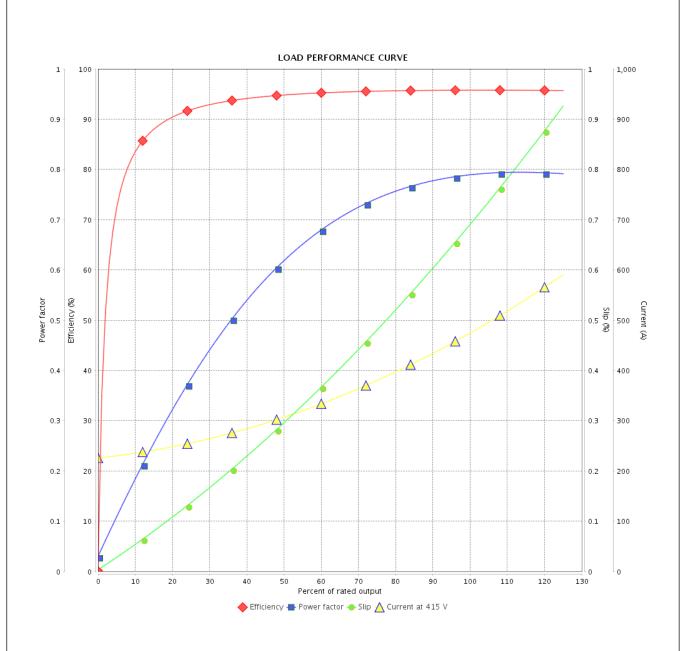
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Product line : NEMA Premium Efficiency Three- Produc

Phase

Product code: 11587730

Catalog #: 40012ET3G586/7-W22



Performance : 415 V 50 Hz 6P IE3 : 478 A Rated current Moment of inertia (J) : 368 sq.ft.lb **LRC** Duty cycle : 6.5 : Cont.(S1) : 1850 ft.lb Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.00 : 105 K

Breakdown torque : 240 % Temperature rise : 240 %

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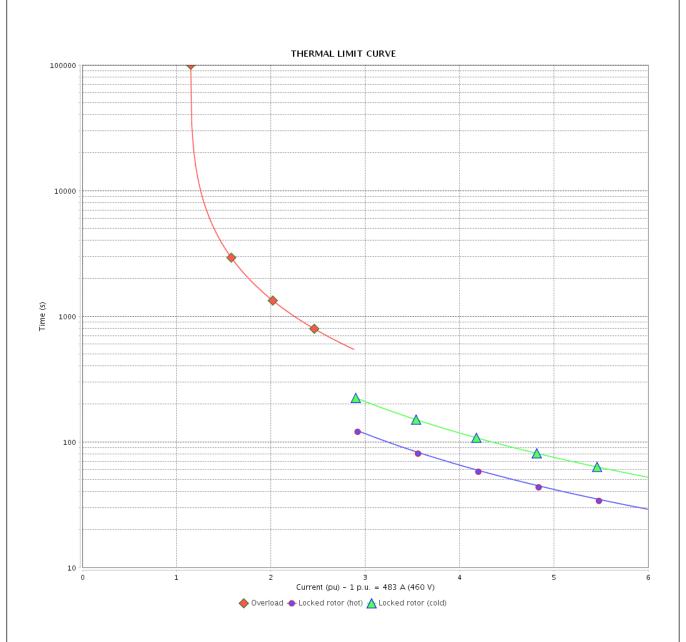


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Product line		NEMA Premium Efficiency ⁻ hase	Three-	Product code : Catalog # :	11587730 40012ET3G5	86/7-W22
Performance Rated current LRC Rated torque Locked rotor toro Breakdown torque Rated speed	: 48 : 6. : 17 que : 22 ue : 2	60 V 60 Hz 6P 83 A 0 760 ft.lb 20 % 10 % 190 rpm	Moment of Duty cycl Insulation Service for Temperat	n class actor	: 368 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K	
Heating constant		•				
Cooling constant	t					
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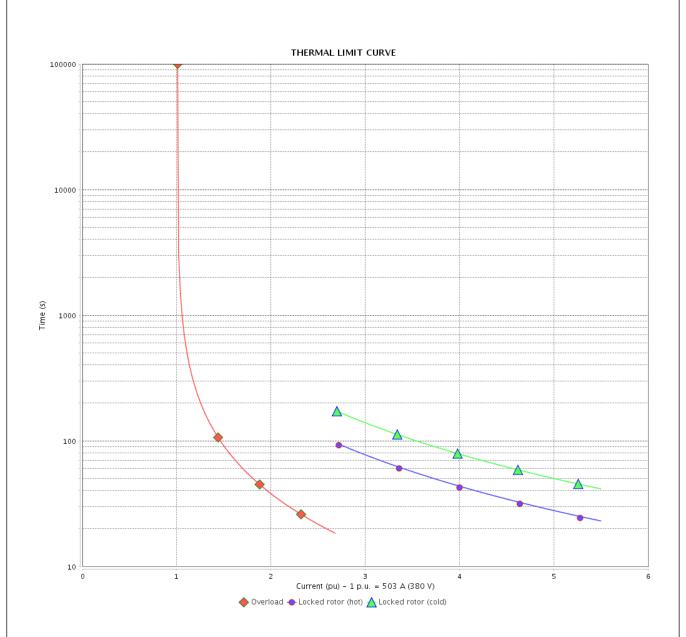


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Product line	: l P	NEMA Premium Efficiency	Three-	Product code :	11587730	
	·			Catalog # :	40012ET3G5	586/7-W22
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 50 : 5. : 18 que : 20 ue : 20	80 V 50 Hz 6P IE3 03 A 5 850 ft.lb 00 % 00 % 90 rpm	Moment of Duty cycle Insulation Service fa	class actor	: 368 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K	
Heating constan						
Cooling constant	<u> </u>	01		D- ()	Ob. 1	5 :
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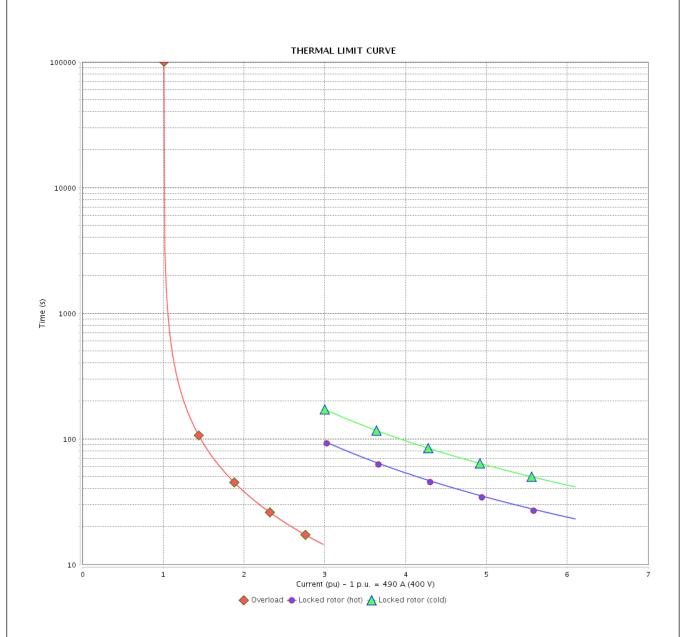


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Product line		NEMA Premium Efficiency ⁻ hase	Three-	Product code : Catalog # :	11587730 40012ET3G5	86/7-W22
Performance Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed Heating constant	: 49 : 6. : 18 que : 22 ue : 22 : 99	00 V 50 Hz 6P IE3 90 A .1 850 ft.lb 20 % 90 rpm	Moment of Duty cycle Insulation Service fa Temperat	class actor	: 368 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K	
Cooling constant						
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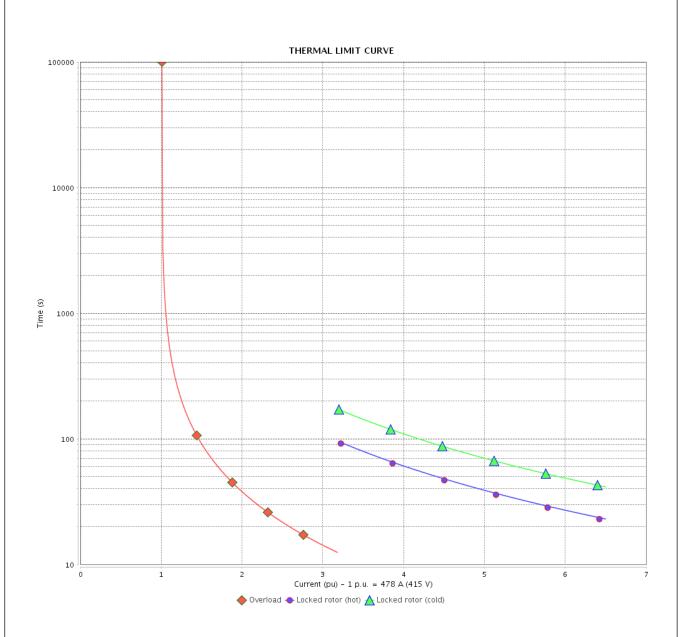


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Product line	: l	NEMA Premium Efficiency hase	Three-	Product code :	11587730	
				Catalog # :	40012ET3G5	586/7-W22
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 4' : 6 : 1' que : 2' ue : 2'	15 V 50 Hz 6P IE3 78 A .5 850 ft.lb 40 % 40 % 90 rpm	Moment of Duty cycle Insulation Service fa Temperat	class actor	: 368 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K	
Heating constan						
Cooling constant	<u> </u>	Changes Summary		Darformed	Chackad	Data
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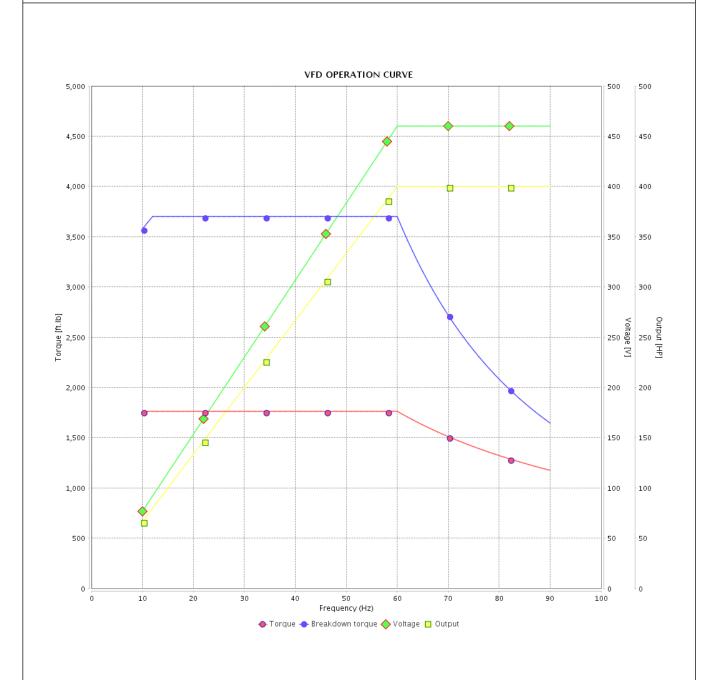
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 40012ET3G586/7-W22

11587730



Performance	:	460 V 60 Hz 6P				
Rated current LRC	-	483 A 6.0	Moment of Duty cycle	of inertia (J)	: 368 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		1760 ft.lb 220 %	Insulation Service fa	class	: F : 1.15	
Breakdown torqu Rated speed		210 % 1190 rpm	Temperat	ure rise	: 80 K	
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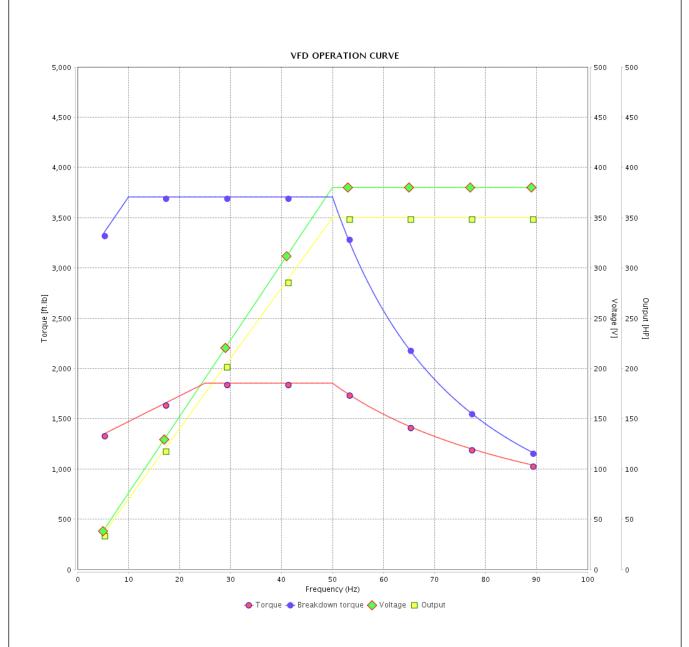
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 11587730

Catalog #: 40012ET3G586/7-W22



Performance : 380 V 50 Hz 6P IE3

Rated current : 503 A | Moment of inertia (J) : 368 sq.ft.lb LRC : 5.5 | Duty cycle : Cont.(S1)

Rated torque : 1850 ft.lb Insulation class : F
Locked rotor torque : 200 % Service factor : 1.00
Breakdown torque : 200 % Temperature rise : 105 K

Rated speed : 990 rpm

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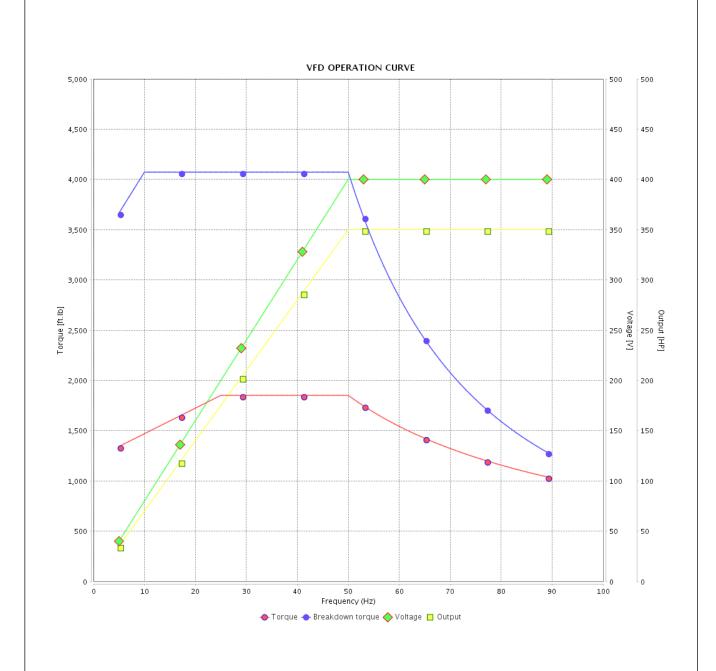
Customer

Product line : NEMA Premium Efficiency Three- Product code :

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Product code: 11587730

Catalog #: 40012ET3G586/7-W22



Performance : 400 V 50 Hz 6P IE3

Rated current : 490 A
LRC : 6.1
Rated torque : 1850 ft.lb
Locked rotor torque : 220 %
Breakdown torque : 220 %
Rated speed : 990 rpm

Moment of inertia (J) : 368 sq.ft.lb Duty cycle : Cont.(S1)

Insulation class : F
Service factor : 1.00
Temperature rise : 105 K

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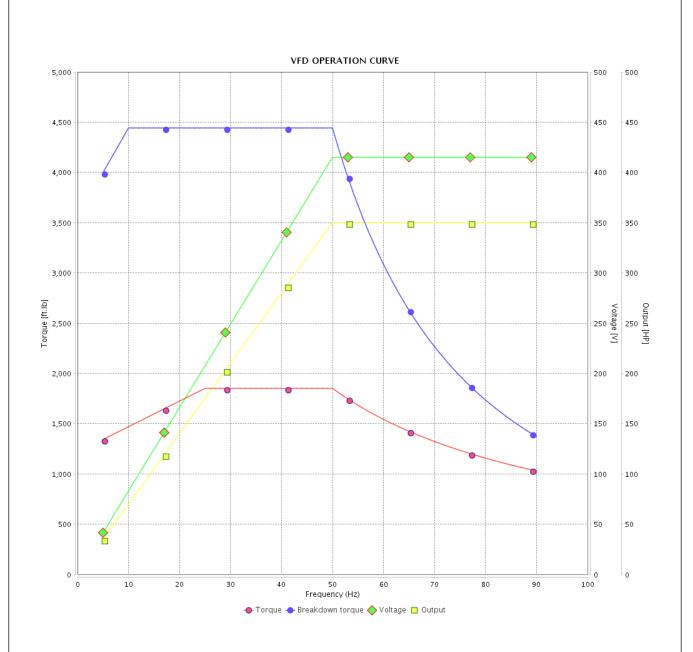
Customer :

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Product code: 11587730

Catalog #: 40012ET3G586/7-W22



Performance : 415 V 50 Hz 6P IE3

Rated current : 478 A Moment of inertia (J) : 368 sq.ft.lb LRC : 6.5 Duty cycle : Cont.(S1) Rated torque : 1850 ft.lb Insulation class : F

Locked rotor torque : 240 % Service factor : 1.00

Breakdown torque : 240 % Temperature rise : 105 K

Rated speed : 990 rpm

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