DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11440692

Catalog #: 25012ET3G586/7-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 : Direct On Line

Ambient temperature : 1000 m.a.s.l. Approx. weight³ : 3462 lb Altitude

: IP55 Protection degree

Design

Moment of inertia (J) : 226 sq.ft.lb : B

Output [HP]		250	220	220	220	250	250	250
Poles		6	6	6	6	6	6	6
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		460	380	400	415	380	400	415
Rated current [A]		299	310	298	291	361	341	333
L. R. Amperes [A]		1824	1705	1818	1892	1733	1841	1931
LRC [A]		6.1x(Code	5.5x(Code F)	6.1x(Code	6.5x(Code	4.8x(Code E)	5.4x(Code F)	5.8x(Code F)
		G)		G)	G)			
No load current [A]]	120	118	128	137	118	128	137
Rated speed [RPN	/ []	1190	985	990	990	985	990	990
Slip [%]		0.83	1.50	1.00	1.00	1.50	1.00	1.00
Rated torque [ft.lb]		1100	1160	1160	1160	1330	1320	1320
Locked rotor torque [%]		190	160	180	210	140	160	180
Breakdown torque	[%]	210	190	220	229	170	190	200
Service factor		1.15	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise		80 K	105 K	105 K	80 K	105 K	105 K	105 K
Locked rotor time		54s (cold)	45s (cold)	45s (cold)	45s (cold)	45s (cold)	45s (cold)	45s (cold)
		30s (hot)	25s (hot)	25s (hot)	25s (hot)	25s (hot)	25s (hot)	25s (hot)
Noise level ²		77.0 dB(A)	73.0 dB(A)	73.0 dB(A)	73.0 dB(A)	73.0 dB(A)	73.0 dB(A)	73.0 dB(A)
	25%	94.5	94.4	94.7	94.2	95.3	95.3	94.9
Efficiency (9/)	50%	95.0	94.8	94.9	94.5	95.4	95.4	95.0
Efficiency (%)	75%	95.4	95.3	95.5	95.4	95.0	95.4	95.4
100%		95.8	95.6	95.6	95.6	95.0	95.4	95.4
	25%	0.43	0.45	0.41	0.38	0.49	0.45	0.42
Power Factor	50%	0.68	0.69	0.65	0.62	0.74	0.70	0.67
Fower Factor	75%	0.77	0.79	0.77	0.74	0.80	0.78	0.76

0.81 Drive end Non drive end

6322 C3 Bearing type 6319 C3 Taconite Taconite Sealing

100%

Labyrinth Labyrinth 11000 h 13000 h

0.82

Lubrication interval Lubricant amount 60 q 45 g Mobil Polyrex EM Lubricant type

Foundation loads

0.80

0.81

Max. traction : 3802 lb : 7264 lb Max. compression

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.

0.82

0.82

0.81

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Customer	:						
			0				
Voltage: 200 - 24	10 V	•	Space heater i	ntormatic	on		
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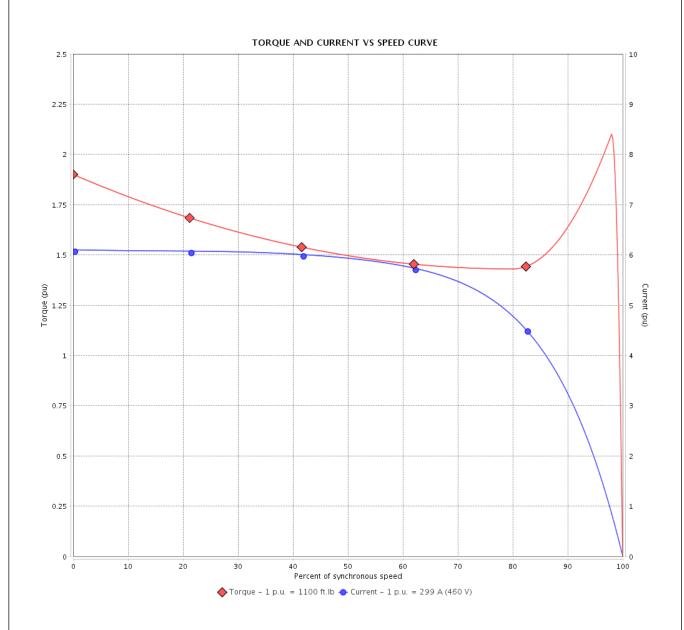
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11440692

Catalog #: 25012ET3G586/7-W22



Performance	: 460 V 60 Hz 6P			
Rated current	: 299 A	Moment of inertia (J)	: 226 sq.ft.lb	
LRC	: 6.1	Duty cycle	: Cont.(S1)	
Rated torque	: 1100 ft.lb	Insulation class	:F	
Locked rotor torque	: 190 %	Service factor	: 1.15	
Breakdown torque	: 210 %	Temperature rise	: 80 K	
Rated speed	: 1190 rpm	Design	: B	
Locked rotor time	· 54s (cold) 30s (hot)			

LOCKCU TOTOL TITLE		743 (COId) 503 (HOL)			
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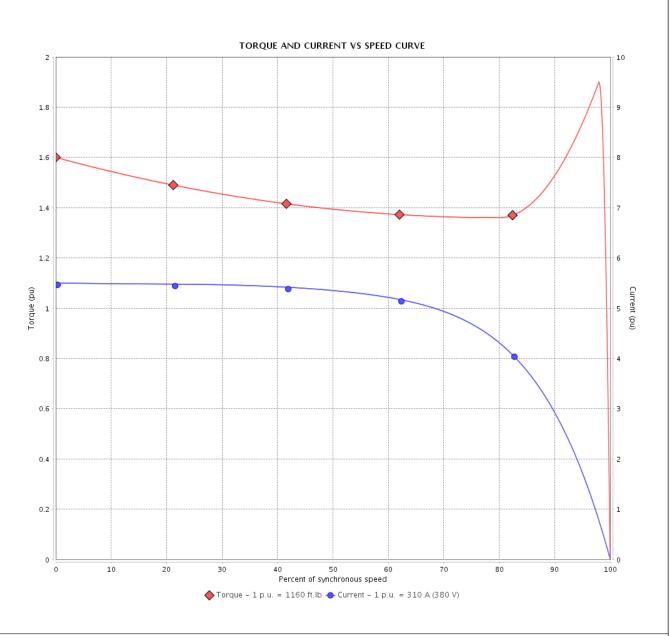
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11440692

Catalog #: 25012ET3G586/7-W22



Performance : 380 V 50 Hz 6P IE3 Rated current : 310 A Moment of inertia (J) : 226 sq.ft.lb **LRC** : 5.5 Duty cycle : Cont.(S1) : 1160 ft.lb Insulation class Rated torque : F Locked rotor torque : 160 % Service factor : 1.00 Breakdown torque : 190 % Temperature rise : 105 K Rated speed : 985 rpm Design : B

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

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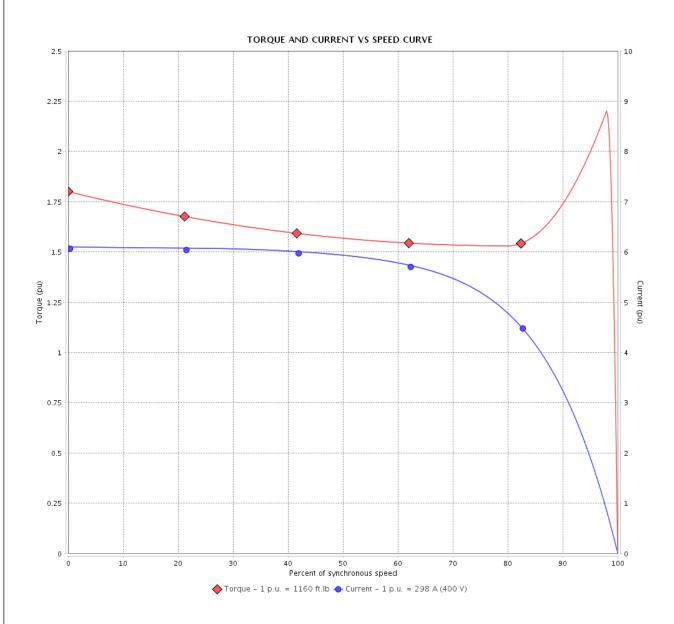


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11440692

Phase

Catalog #: 25012ET3G586/7-W22



Performance	: 400 V 50 Hz 6P IE3		
Rated current	: 298 A	Moment of inertia (J)	: 226 sq.ft.lb
LRC	: 6.1	Duty cycle	: Cont.(S1)
Rated torque	: 1160 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 105 K
Rated speed	: 990 rpm	Design	: B

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

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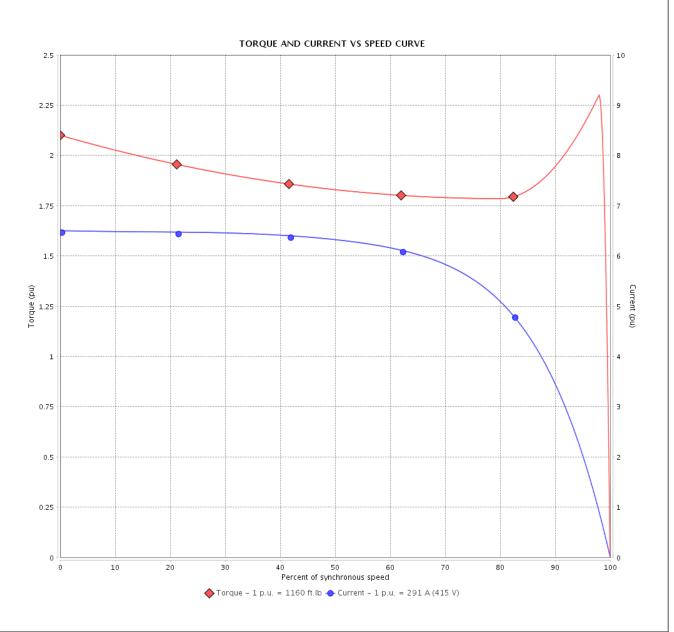
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 25012ET3G586/7-W22

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Performance	: 415 V 50 Hz 6P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 291 A : 6.5 : 1160 ft.lb : 210 % : 229 % : 990 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 226 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Locked rotor time	: 45s (cold) 25s (hot)			

LOCKCO TOTOL UITI		55 (COId) 205 (NOt)			
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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11440692 Catalog #: 25012ET3G586/7-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 1.8 3.5 1.4 1.2 Torque (pu) 0.8 0.4 0.2 100 Percent of synchronous speed 🔷 Torque – 1 p.u. = 1330 ft.lb 🔷 Current – 1 p.u. = 361 A (380 V) Performance : 380 V 50 Hz 6P IE2 Rated current : 361 A Moment of inertia (J) : 226 sq.ft.lb **LRC** : 4.8 Duty cycle : Cont.(S1) : 1330 ft.lb Insulation class Rated torque : F : 140 % Locked rotor torque Service factor : 1.00 : 105 K Breakdown torque : 170 % Temperature rise Rated speed : 985 rpm Design : B Locked rotor time : 45s (cold) 25s (hot) Date Performed Checked Rev. **Changes Summary**

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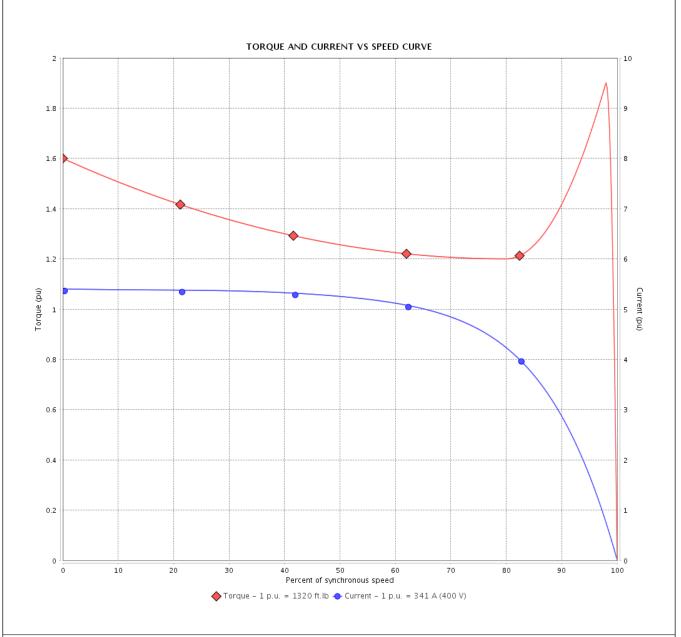
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11440692

Catalog #: 25012ET3G586/7-W22



Performance : 400 V 50 Hz 6P IE2 Rated current : 341 A Moment of inertia (J) : 226 sq.ft.lb **LRC** : 5.4 Duty cycle : Cont.(S1) : 1320 ft.lb Insulation class Rated torque : F Locked rotor torque : 160 % Service factor : 1.00 Breakdown torque : 190 % Temperature rise : 105 K Rated speed : 990 rpm Design : B

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

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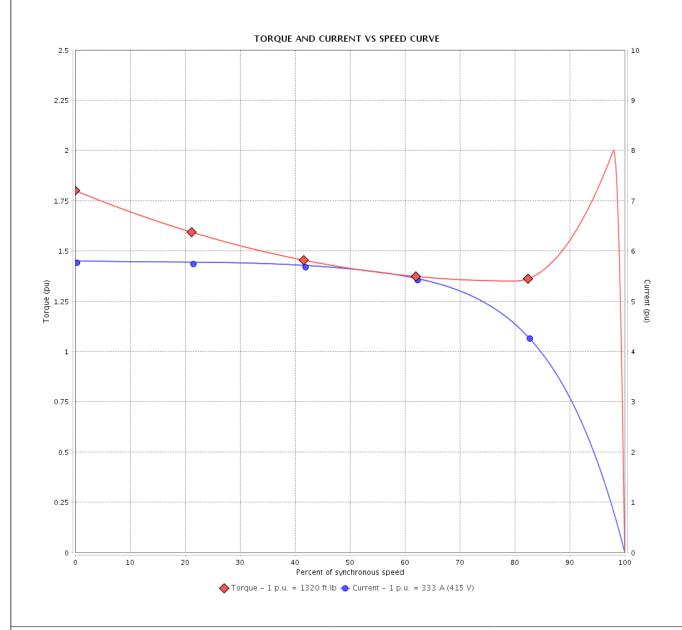
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

roduct code: 11440692

Catalog #: 25012ET3G586/7-W22



Performance : 415 V 50 Hz 6P IE2 Rated current : 333 A Moment of inertia (J) : 226 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) : 1320 ft.lb Insulation class : F Rated torque : 180 % : 1.00 Locked rotor torque Service factor Breakdown torque : 200 % Temperature rise : 105 K Rated speed : 990 rpm Design : B Locked rotor time : 45s (cold) 25s (hot)

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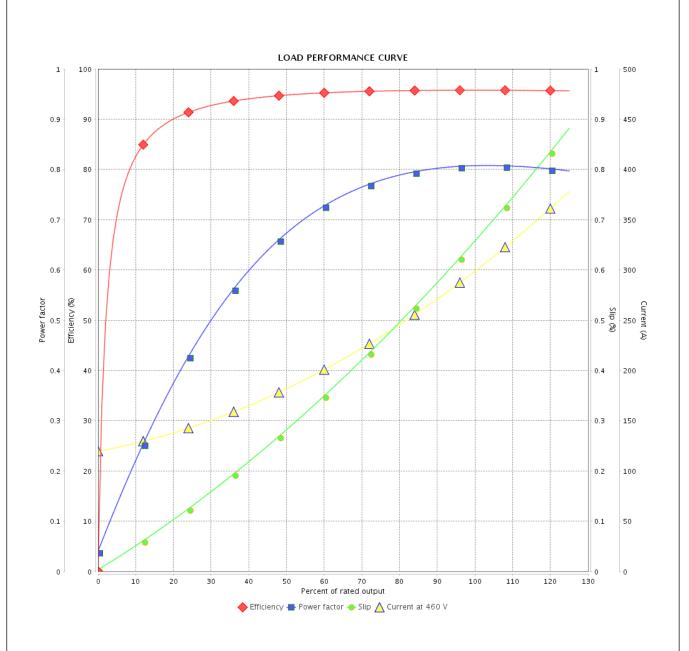
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Phase

Product code: 11440692

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Performance	: 460 V 60 Hz 6P				
Rated current	: 299 A	Moment of i	inertia (J)	: 226 sq.ft.lb	
LRC	: 6.1	Duty cycle		: Cont.(S1)	
Rated torque	: 1100 ft.lb	Insulation c	lass	: F	
Locked rotor torque	: 190 %	Service fact	tor	: 1.15	
Breakdown torque	: 210 %	Temperatur	e rise	: 80 K	
Rated speed	: 1190 rpm	Design		: B	
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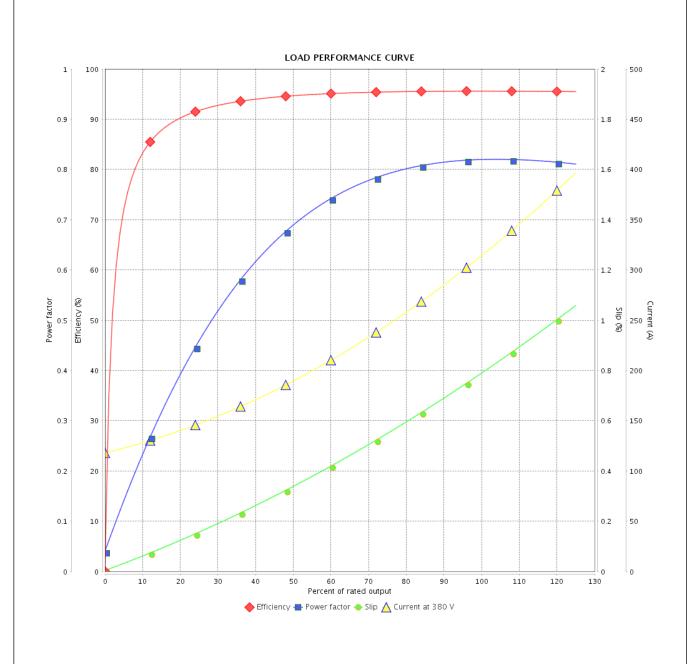


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11440692

Phase

Catalog #: 25012ET3G586/7-W22



Performance	: :	380 V 50 Hz 6P IE3				
Rated current	::	310 A	Moment o	f inertia (J)	: 226 sq.ft.lb	
LRC	:	5.5	Duty cycle	;	: Cont.(S1)	
Rated torque	: '	1160 ft.lb	Insulation	class	: F	
Locked rotor torque	e : '	160 %	Service fa	ctor	: 1.00	
Breakdown torque	:	190 %	Temperati	ıre rise	: 105 K	
Rated speed	: 9	985 rpm	Design		: B	
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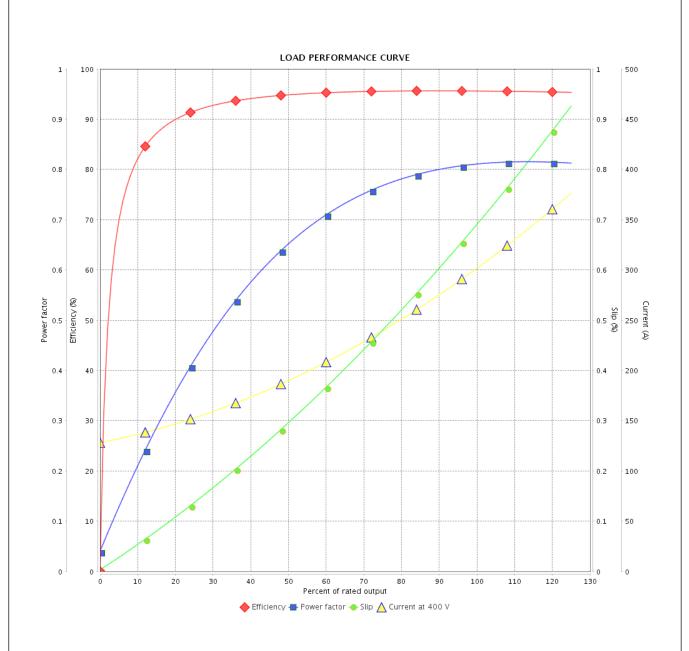
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11440692

Catalog #: 25012ET3G586/7-W22



Performance	:	400 V 50 Hz 6P IE3	<u> </u>			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	que :	298 A 6.1 1160 ft.lb 180 % 220 % 990 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		
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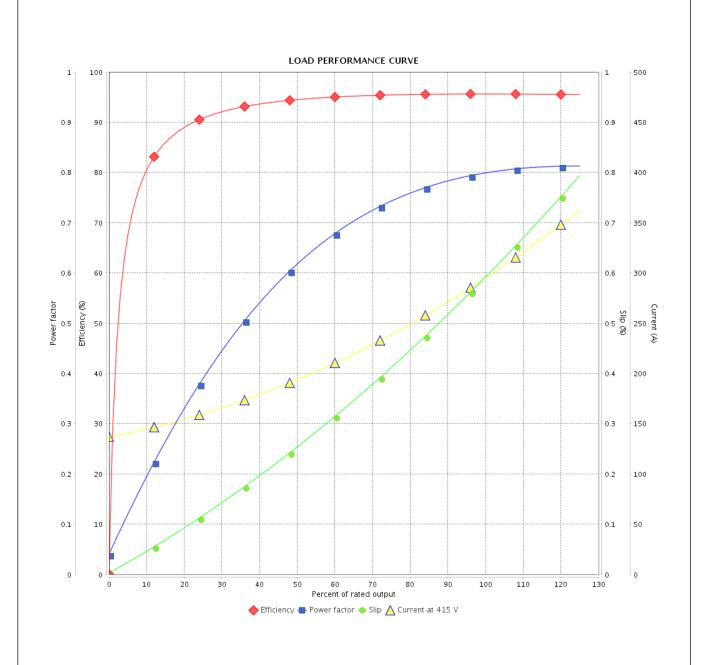
Customer

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Performance	: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 291 A : 6.5 : 1160 ft.lb : 210 % : 229 % : 990 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	class ctor	: 226 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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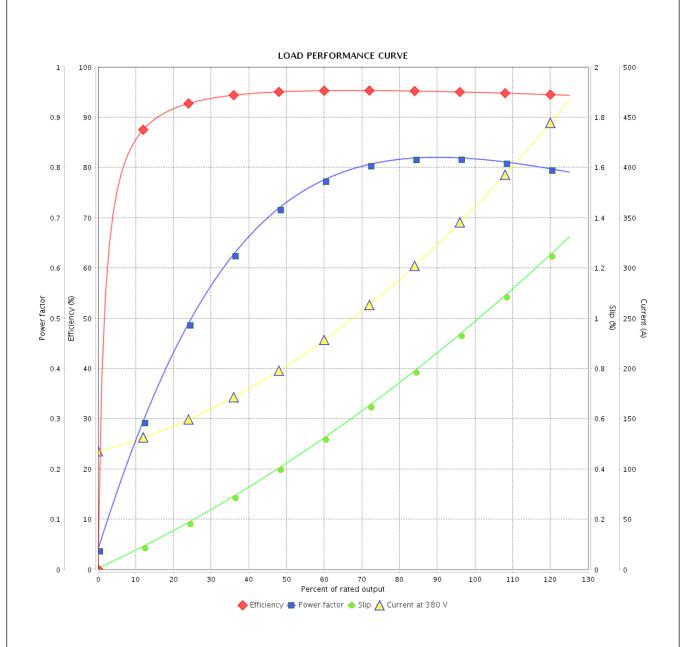
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Performance : 380 V 50 Hz 6P IE2 : 361 A Rated current Moment of inertia (J) : 226 sq.ft.lb **LRC** : 4.8 Duty cycle : Cont.(S1) : 1330 ft.lb Insulation class Rated torque : F Locked rotor torque : 140 % Service factor : 1.00 Breakdown torque : 170 % Temperature rise : 105 K Rated speed : 985 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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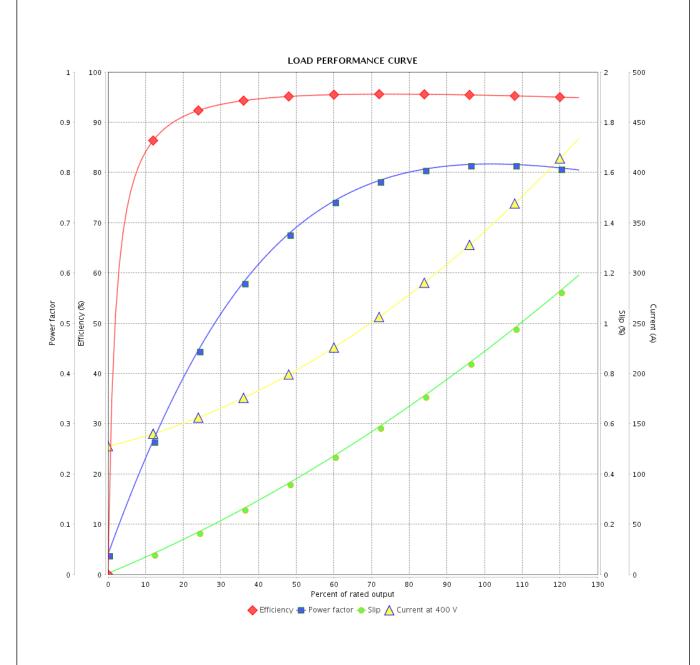


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11440692

Phase

Catalog #: 25012ET3G586/7-W22



Performance	: 4	00 V 50 Hz 6P IE2				
Rated current	: 3	341 A	Moment o	f inertia (J)	: 226 sq.ft.lb	
LRC	: 5	5.4	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	320 ft.lb	Insulation	class	: F	
Locked rotor torque	e :1	60 %	Service fa	ctor	: 1.00	
Breakdown torque	: 1	90 %	Temperati	ıre rise	: 105 K	
Rated speed	: 9	990 rpm	Design		: B	
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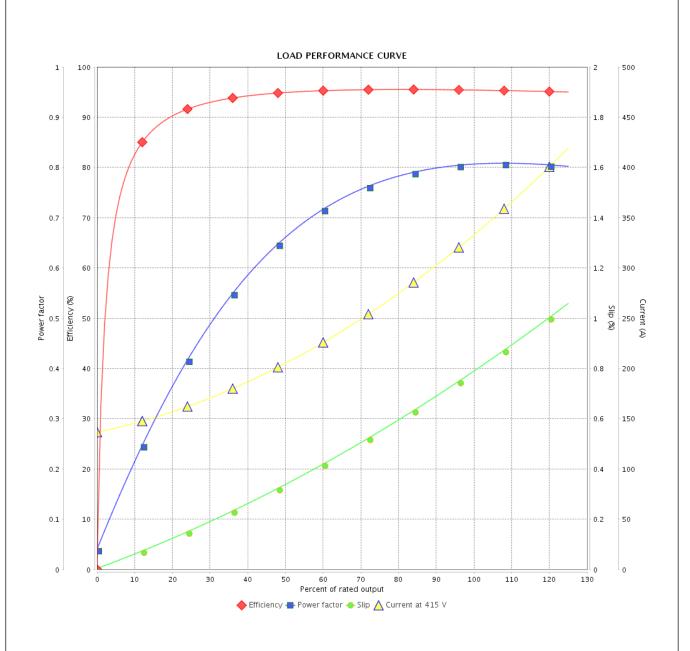
Product line : NEMA Premium Efficiency Three- Produ

Phase

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Performance	: 415 V 50 Hz 6P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 333 A : 5.8 : 1320 ft.lb : 180 % : 200 % : 990 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 226 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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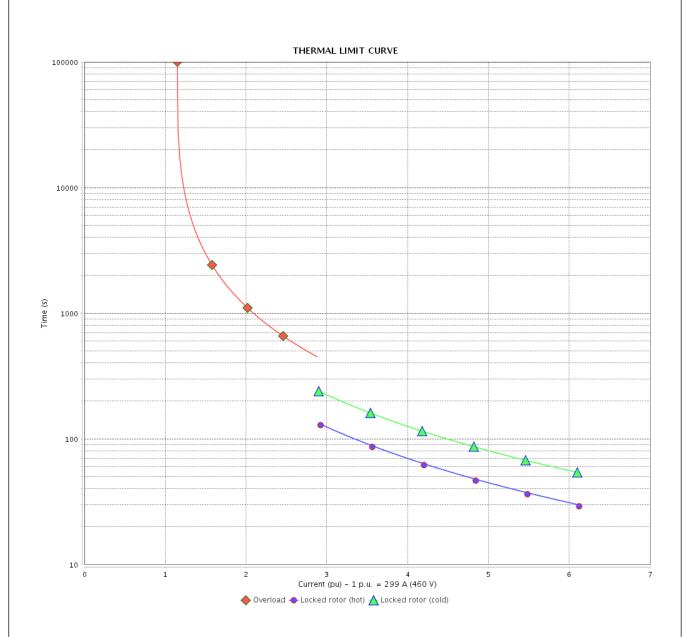


Customer	:					
Product line	:	NEMA Premium Efficiency 1	Γhree-	Product code :	11440692	
	F	hase		Catalog # :	25012ET3G	586/7-W22
Performance Rated current .RC Rated torque .ocked rotor toro Breakdown torque Rated speed	: 2 : 6 : 1 que : 1 ie : 2	60 V 60 Hz 6P 99 A .1 100 ft.lb 90 % 10 % 190 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 226 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant						
Cooling constant	<u> </u>	Changas Cummani		Dorform	Charked	Data
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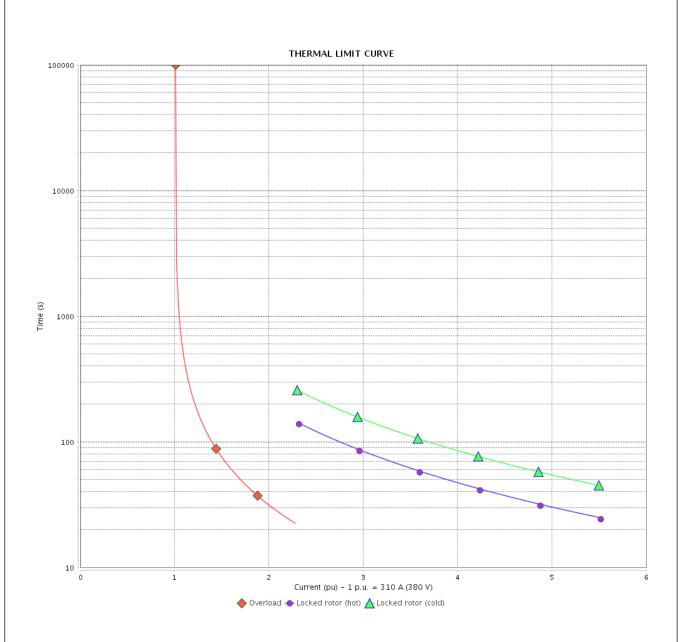


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Product line		NEMA Premium Efficiency ¹ hase	Three-	Product code :	11440692	
	Г	nase		Catalog # :	25012ET3G5	86/7-W22
Performance Rated current LRC Rated torque Locked rotor toro Breakdown torqu	: 3 : 5 : 1 jue : 1 ie : 1	160 ft.lb 60 % 90 %	Duty cycle Insulation Service fa Temperat	ı class actor	: 226 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Rated current LRC Rated torque Locked rotor tord	: 3 : 5 : 1 jue : 1 ie : 1 : 9	10 A 5 160 ft.lb 60 %	Duty cycle Insulation Service fa	e ı class actor	: Cont.(S1) : F : 1.00	
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 3 : 5 : 1 jue : 1 le : 1 : 9	10 A 5 160 ft.lb 60 % 90 %	Duty cycle Insulation Service fa Temperat	e ı class actor	: Cont.(S1) : F : 1.00 : 105 K	
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 3 : 5 : 1 jue : 1 le : 1 : 9	10 A 5 160 ft.lb 60 % 90 %	Duty cycle Insulation Service fa Temperat	e ı class actor	: Cont.(S1) : F : 1.00 : 105 K	Date
Rated current LRC Rated torque Locked rotor torce Breakdown torque Rated speed Heating constant	: 3 : 5 : 1 jue : 1 le : 1 : 9	10 A 5 160 ft.lb 60 % 90 % 85 rpm	Duty cycle Insulation Service fa Temperat	e i class actor ure rise	: Cont.(S1) : F : 1.00 : 105 K : B	Date
Rated current LRC Rated torque Locked rotor torce Breakdown torque Rated speed Heating constant	: 3 : 5 : 1 jue : 1 le : 1 : 9	10 A 5 160 ft.lb 60 % 90 % 85 rpm	Duty cycle Insulation Service fa Temperat	e i class actor ure rise	: Cont.(S1) : F : 1.00 : 105 K : B	Date
Rated current LRC Rated torque Locked rotor torce Breakdown torque Rated speed Heating constant Cooling constant Rev.	: 3 : 5 : 1 jue : 1 le : 1 : 9	10 A 5 160 ft.lb 60 % 90 % 85 rpm	Duty cycle Insulation Service fa Temperat	e i class actor ure rise	: Cont.(S1) : F : 1.00 : 105 K : B	Date

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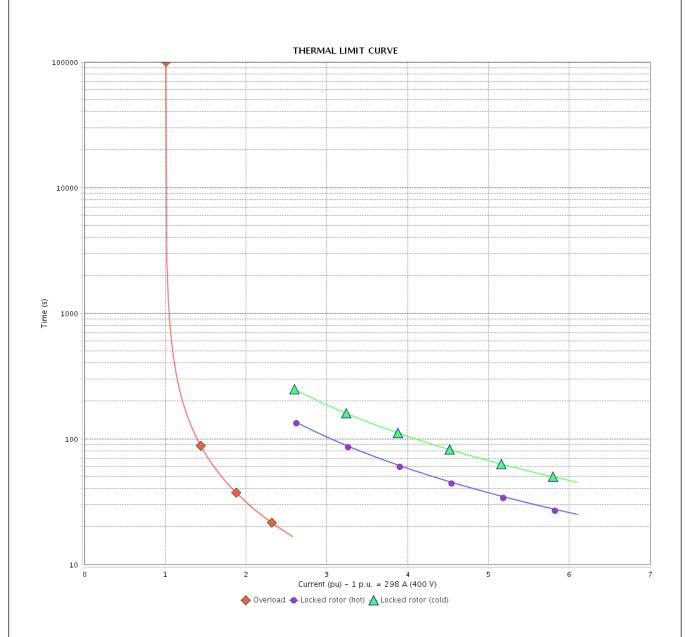


Customer	:					
Product line		NEMA Premium Efficiency [*] hase	Three-	Product code : Catalog # :	11440692 25012ET3G5	86/7-W22
Performance	· 11	00 V 50 Hz 6P IE3				
Rated current		98 A	Moment o	of inertia (J)	: 226 sq.ft.lb	
LRC	: 6.	.1	Duty cycle	е	: Cont.(S1)	
Rated torque		160 ft.lb	Insulation		: F	
Locked rotor tord Breakdown tord		80 % 20 %	Service fa Temperat		: 1.00 : 105 K	
Rated speed		90 rpm	Design		: B	
Heating constant						
Cooling constant		Changas Cummani		Dorform	Charles	Data
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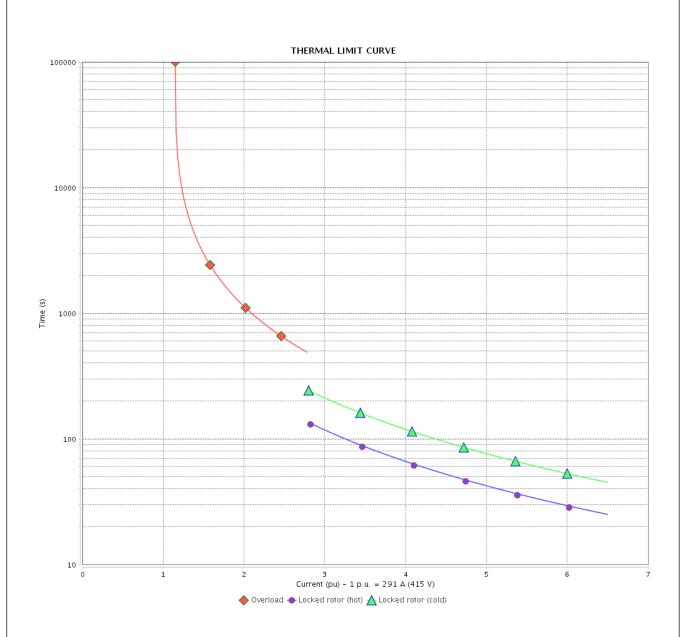


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Customer	:					
Product line		NEMA Premium Efficiency Phase	Three-	Product code :	11440692	
	,	Hase		Catalog # :	25012ET3G5	86/7-W22
Performance	: 4	115 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: 2 : 6 : 1 que : 2 ue : 2	291 A	Moment of Duty cycle Insulation Service fa Temperat Design	ı class actor	: 226 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
leating constan	t					
Cooling constan Rev.		Changes Summary		Performed	Checked	Date
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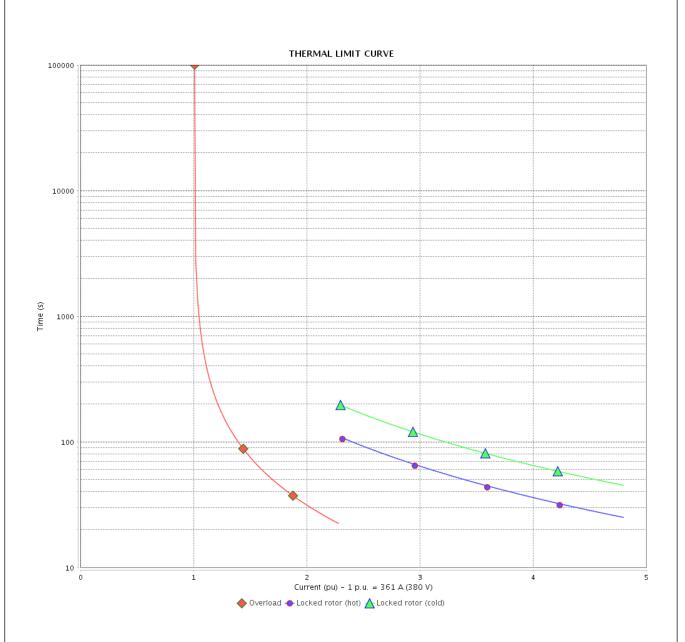


Customer	:					
Product line		NEMA Premium Efficiency in hase		Product code : Catalog # :	11440692 25012ET3G5	86/7-W22
Performance	. 20	80 V 50 Hz 6P IE2				
Rated current		61 A	Moment o	of inertia (J)	: 226 sq.ft.lb	
LRC	: 4.	8	Duty cycle	е	: Cont.(S1)	
Rated torque		330 ft.lb	Insulation		: F	
Locked rotor tord Breakdown tord		40 % 70 %	Service fa Temperat		: 1.00 : 105 K	
Rated speed		85 rpm	Design		: B	
Heating constan	 t					
Cooling constant						
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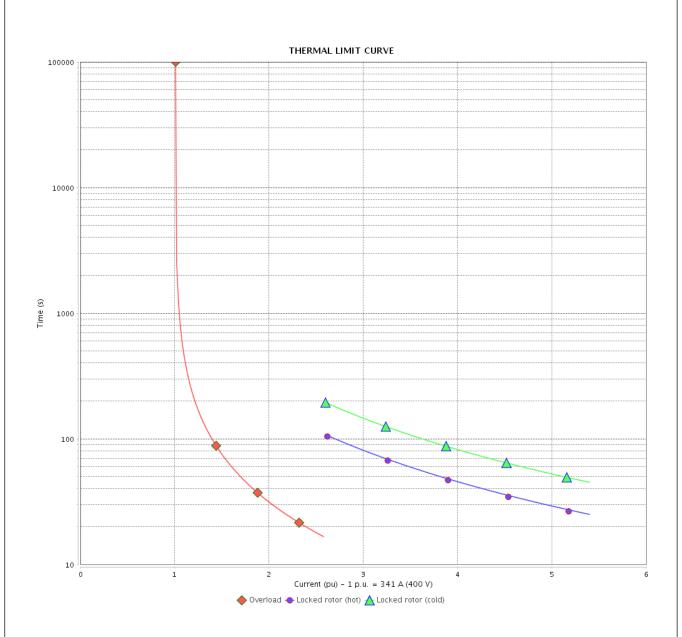


Customer	:					
Product line		NEMA Premium Efficiency [·] hase	Three-	Product code : Catalog # :	11440692 25012ET3G5	86/7-W22
Performance	: 40	00 V 50 Hz 6P IE2				
Rated current LRC	: 3 ⁴ : 5.	41 A 4	Moment of Duty cycle	of inertia (J) e	: 226 sq.ft.lb : Cont.(S1)	
Rated torque		320 ft.lb	Insulation	class	: F	
Locked rotor tord		60 %	Service fa		: 1.00	
Breakdown torqu Rated speed	ie : 19	90 % 90 rpm	Temperat Design		: 105 K : B	
Heating constan	<u> </u>					
Cooling constant	<u>t </u>					
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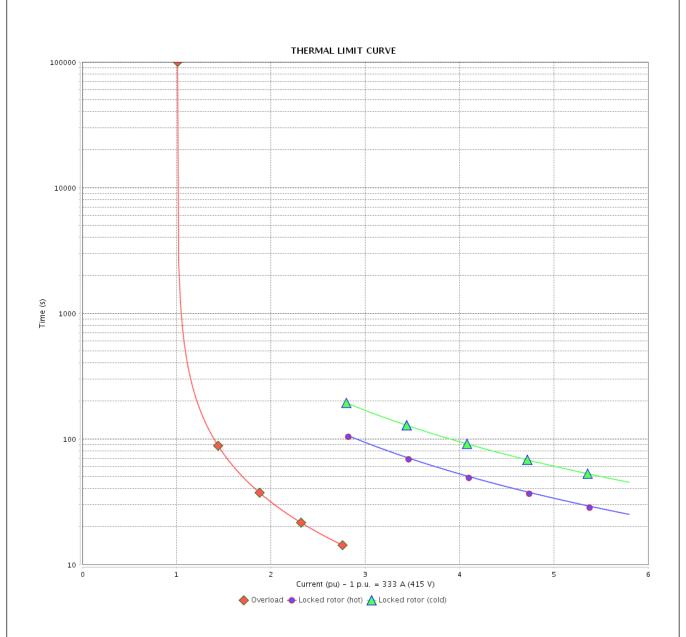


Customer	:					
Product line		NEMA Premium Efficiency ⁻ hase	Three-	Product code : Catalog # :	11440692 25012ET3G5	86/7-W22
Performance		15 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5. : 13 que : 18 ue : 20	33 A 8 320 ft.lb 30 % 00 % 90 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 226 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant	t					
Cooling constant				,		
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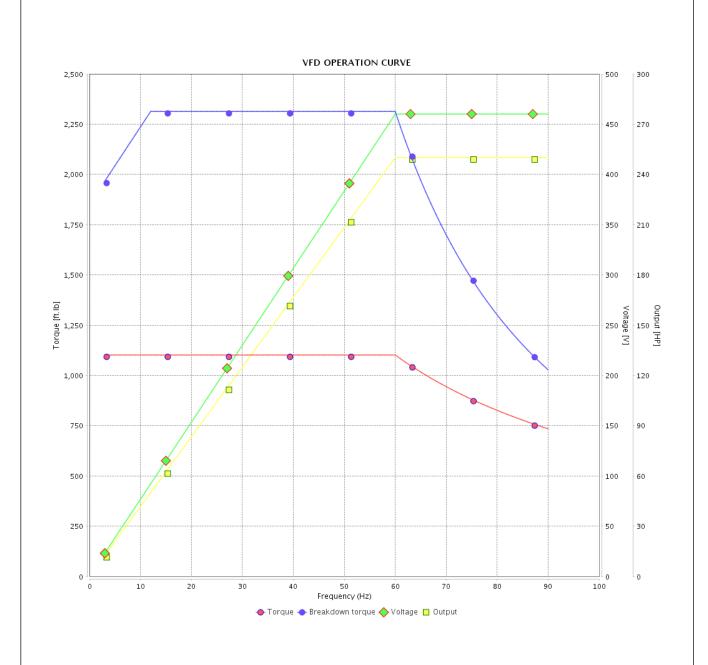
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Product line : NEMA Premium Efficiency Three-

Product code: 11440692

Catalog #: 25012ET3G586/7-W22



Performance : 460 V 60 Hz 6P : 299 A Rated current Moment of inertia (J) : 226 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) : 1100 ft.lb Insulation class Rated torque : F Locked rotor torque : 190 % Service factor : 1.15 Breakdown torque : 210 % Temperature rise : 80 K Rated speed : 1190 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three- Prod

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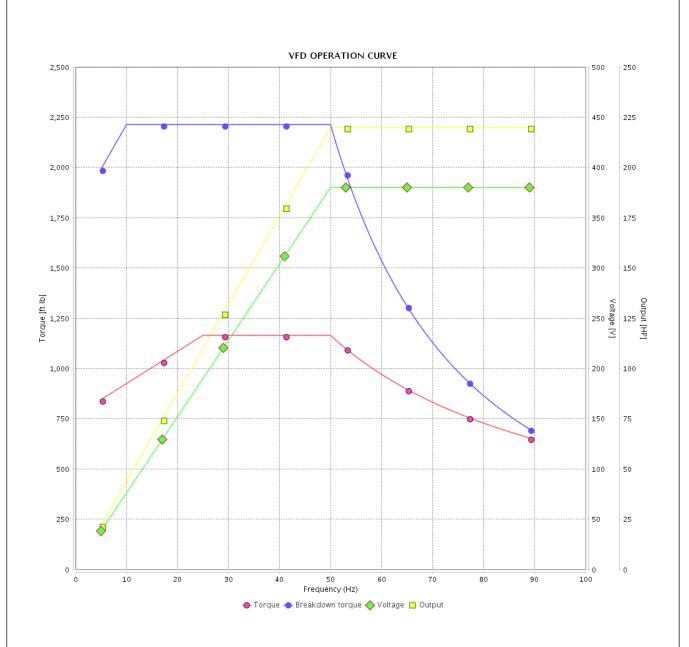
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Performance		: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	lue le	: 310 A : 5.5 : 1160 ft.lb : 160 % : 190 % : 985 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 226 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Rev.		Changes Summary	,	Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



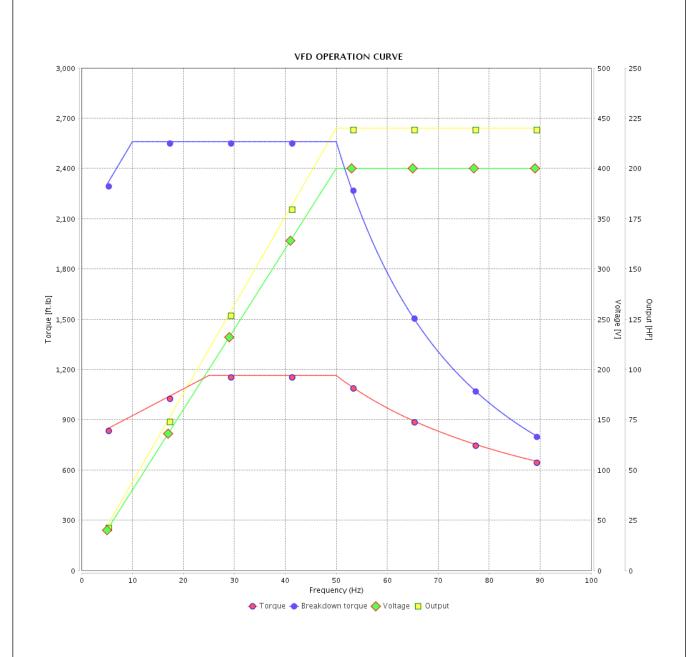
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Product line : NEMA Premium Efficiency Three- Product code : 11440692

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Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 298 A : 6.1 : 1160 ft.lb : 180 % : 220 % : 990 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	lass tor	: 226 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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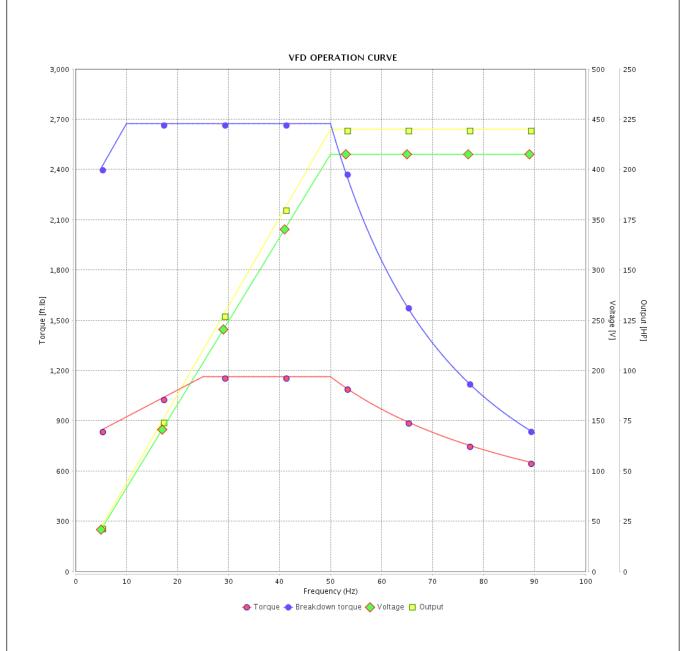
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Phase

Product code: 11440692

Catalog #: 25012ET3G586/7-W22



Performance	: 4	115 V 50 Hz 6P IE3	3			
Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	: 6 : 1 que : 2 ue : 2	291 A 6.5 1160 ft.lb 210 % 229 % 990 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 226 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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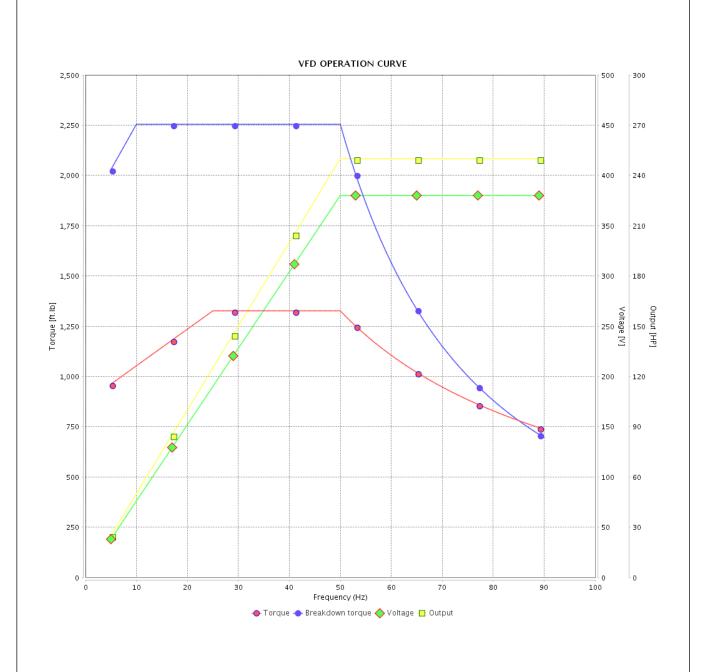
Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three-Product code: 11440692

Catalog #: 25012ET3G586/7-W22



Performance		: 380 V 50 Hz 6P IE2						
Rated current		61 A Moment of inertia (J)		: 226 sq.ft.lb				
LRC :		4.8	Duty cycle	Duty cycle				
Rated torque		330 ft.lb	Insulation class		: F			
Locked rotor torque		40 %	Service factor		: 1.00			
Breakdown torque	: 1	70 %	Temperati	Temperature rise				
Rated speed	: 9	985 rpm	Design	Design				
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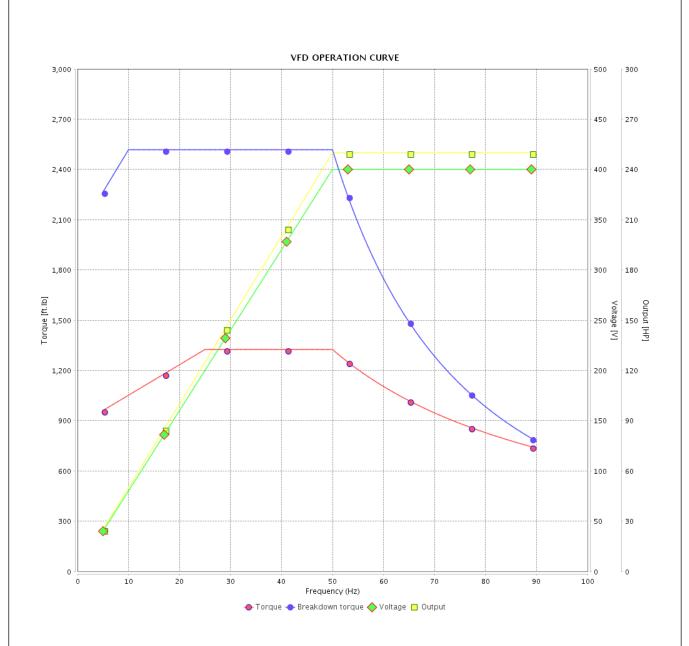
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Product line : NEMA Premium Efficiency Three- Product c

Phase

Product code: 11440692

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Performance : 400 V 50 Hz 6P IE2 : 341 A Rated current Moment of inertia (J) : 226 sq.ft.lb **LRC** : 5.4 Duty cycle : Cont.(S1) : 1320 ft.lb Insulation class Rated torque Locked rotor torque : 160 % Service factor : 1.00 Breakdown torque : 190 % Temperature rise : 105 K Rated speed : 990 rpm Design : B

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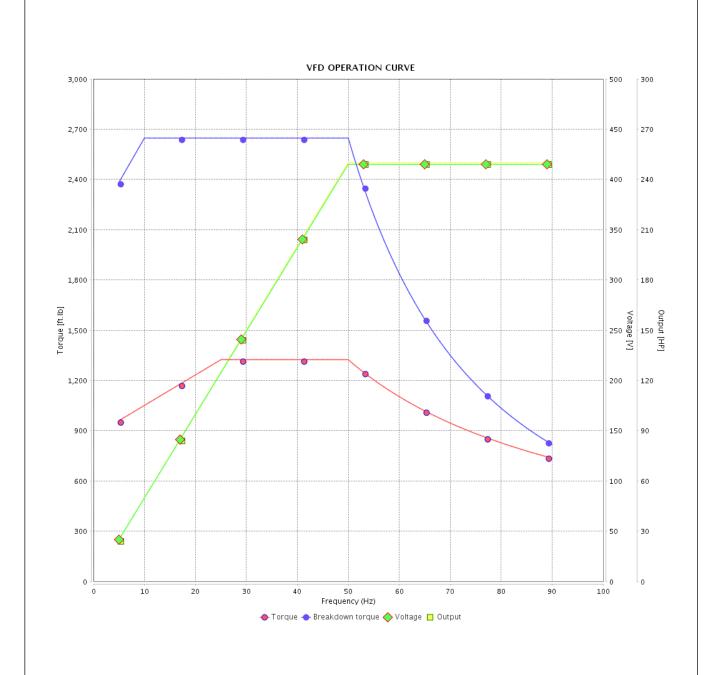
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

roduct code: 11440692

Catalog #: 25012ET3G586/7-W22



Performance :		: 415 V 50 Hz 6P IE2						
Rated current		33 A Moment of inertia (J)		: 226 sq.ft.lb				
LRC : 5		.8	Duty cycle		: Cont.(S1)			
Rated torque :		320 ft.lb	Insulation class		: F			
Locked rotor torque :		80 %	Service factor		: 1.00			
Breakdown torque	: 2	00 %	Temperature rise		: 105 K			
Rated speed	: 9	90 rpm	Design		: B			
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