### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11564991

Catalog #: 30012ET3G586/7-W22

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

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) : -20°C to +40°C

Ambient temperature Starting method : Direct On Line : 1000 m.a.s.l. Approx. weight<sup>3</sup> Altitude : 3759 lb

Protection degree		: IP55	Moment of ine	ertia (J) : 277	sq.ft.lb
Design		: B			
Output [HP]		300	250	250	250
Poles	Poles		6	6	6
Frequency [Hz]		60	50	50	50
Rated voltage [V]		460	380	400	415
Rated current [A]		356	362	348	340
L. R. Amperes [A]		2136	2027	2158	2244
LRC [A]		6.0x(Code G)	5.6x(Code F)	6.2x(Code G)	6.6x(Code H)
No load current [A	]	127	125	135	145
Rated speed [RPN	<b>/</b> []	1190	990	990	990
Slip [%]		0.83	1.00	1.00	1.00
	Rated torque [ft.lb]		1330		
	Locked rotor torque [%]		150	170	190
Breakdown torque	[%]	190	180	200	229
Service factor		1.15	1.15		
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		54s (cold) 30s (hot)	45s (cold) 25s (hot)	45s (cold) 25s (hot)	45s (cold) 25s (hot)
Noise level <sup>2</sup>		77.0 dB(A)	73.0 dB(A)	73.0 dB(A)	73.0 dB(A)
	25%	95.3	95.3	95.3	94.5
Efficiency (%)	50%	95.4	95.4	95.4	95.0
Liliciency (70)	75%	95.8	95.8	95.8	95.4
	100%	95.8	95.8	95.8	95.8
25% 50%		0.45	0.46	0.42	0.39
		0.69	0.70	0.66	0.63
1 OWCI I actor	75%	0.78	0.79	0.76	0.74
	100%	0.81	0.81	0.80	0.79

Drive end Non drive end Foundation loads

Bearing type 6322 C3 6319 C3 Max. traction : 4484 lb Sealing Taconite Taconite Max. compression : 8243 lb

Labyrinth Labyrinth 11000 h 13000 h Lubrication interval

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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		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: 11564991 Catalog #: 30012ET3G586/7-W22 TORQUE AND CURRENT VS SPEED CURVE 1.8 1.4 1.2 Current Torque (pu) 0.8

Performance : 460 V 60 Hz 6P Rated current : 356 A Moment of inertia (J) : 277 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) : 1320 ft.lb Insulation class : F Rated torque : 160 % Locked rotor torque Service factor : 1.15 Breakdown torque : 190 % Temperature rise : 80 K Rated speed : 1190 rpm Design : B

Percent of synchronous speed 🔷 Torque – 1 p.u. = 1320 ft.lb 🔷 Current – 1 p.u. = 356 A (460 V)

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

0.4

0.2

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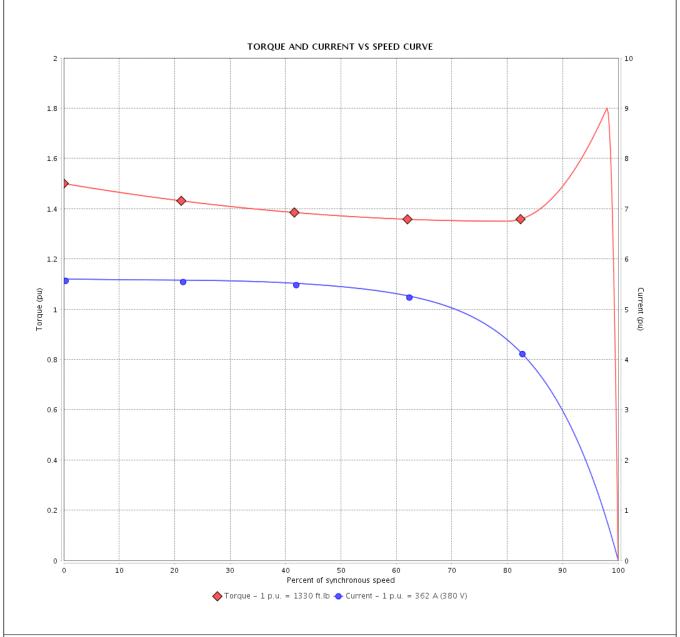
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11564991

Catalog #: 30012ET3G586/7-W22



Performance : 380 V 50 Hz 6P IE3 Rated current : 362 A Moment of inertia (J) : 277 sq.ft.lb **LRC** : 5.6 Duty cycle : Cont.(S1) : F : 1330 ft.lb Insulation class Rated torque Locked rotor torque : 150 % Service factor : 1.15 Breakdown torque : 180 % Temperature rise : 80 K Rated speed : 990 rpm Design : B

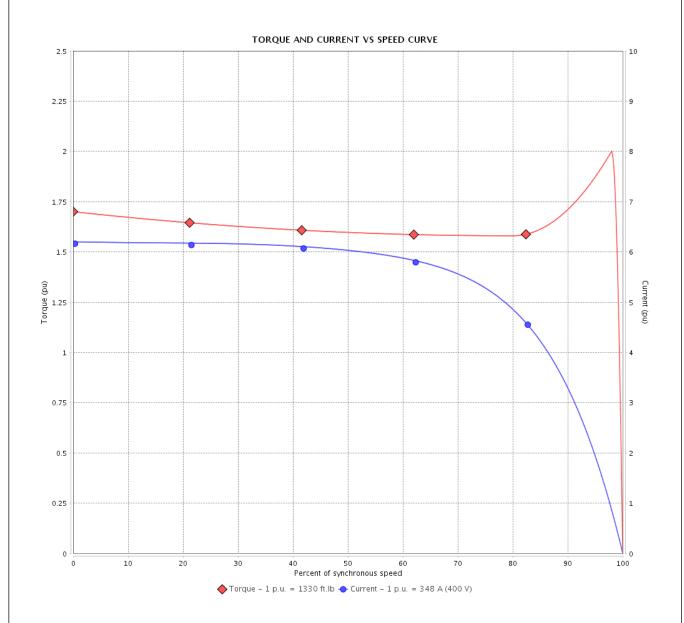
Locked rotor time : 45s (cold) 25s (hot)

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Customer Product line : NEMA Premium Efficiency Three-Product code: 11564991 Catalog #: 30012ET3G586/7-W22



Performance	: 400 V 50 Hz 6P IE3			
Rated current	: 348 A	Moment of inertia (J)	: 277 sq.ft.lb	
LRC	: 6.2	Duty cycle	: Cont.(S1)	
Rated torque	: 1330 ft.lb	Insulation class	: F	
Locked rotor torque	: 170 %	Service factor	: 1.15	
Breakdown torque	: 200 %	Temperature rise	: 80 K	
Rated speed	: 990 rpm	Design	: B	
Locked rotor time	: 45s (cold) 25s (hot)		<del></del>	

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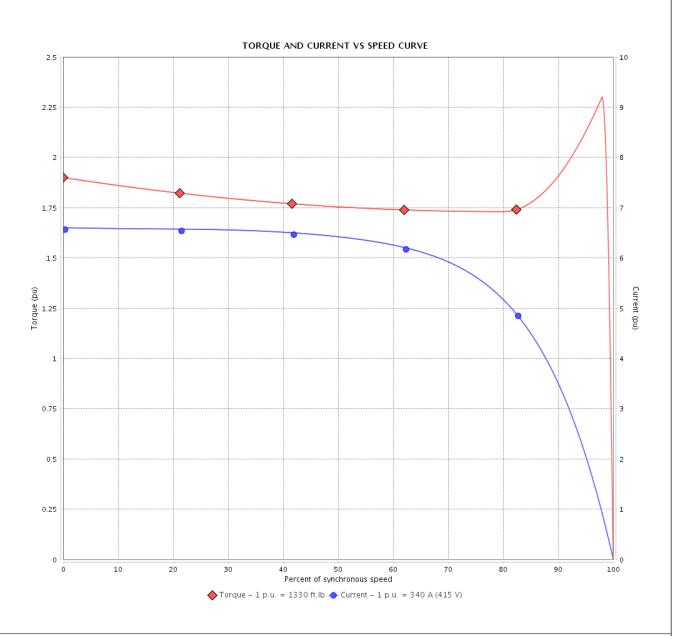
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 30012ET3G586/7-W22

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Performance : 415 V 50 Hz 6P IE3 Rated current : 340 A Moment of inertia (J) : 277 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) : F : 1330 ft.lb Insulation class Rated torque Locked rotor torque : 190 % Service factor : 1.15 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 990 rpm Design : B

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

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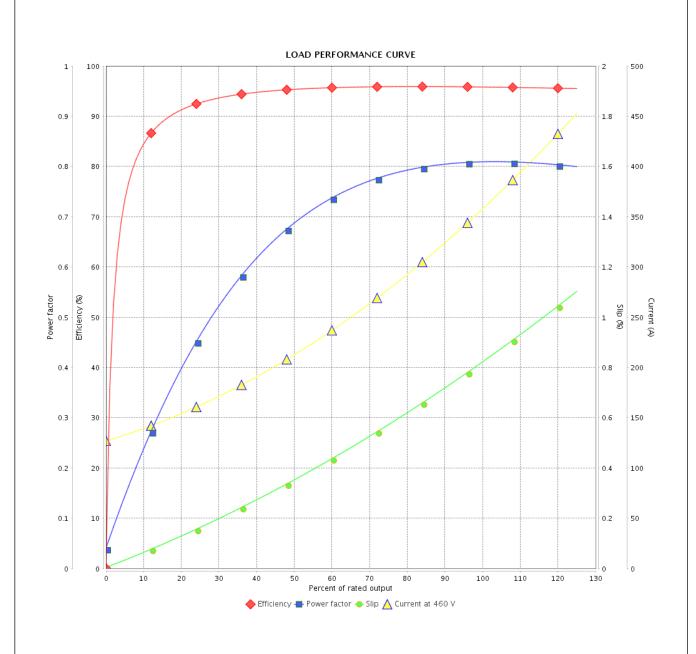
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Phase

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Performance		: 460 V 60 Hz 6P					
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	que ue	: 356 A : 6.0 : 1320 ft.lb : 160 % : 190 % : 1190 rpm	Duty Insul Serv Tem	Moment of inertia (J) : 277 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.15 Temperature rise : 80 K Design : B			
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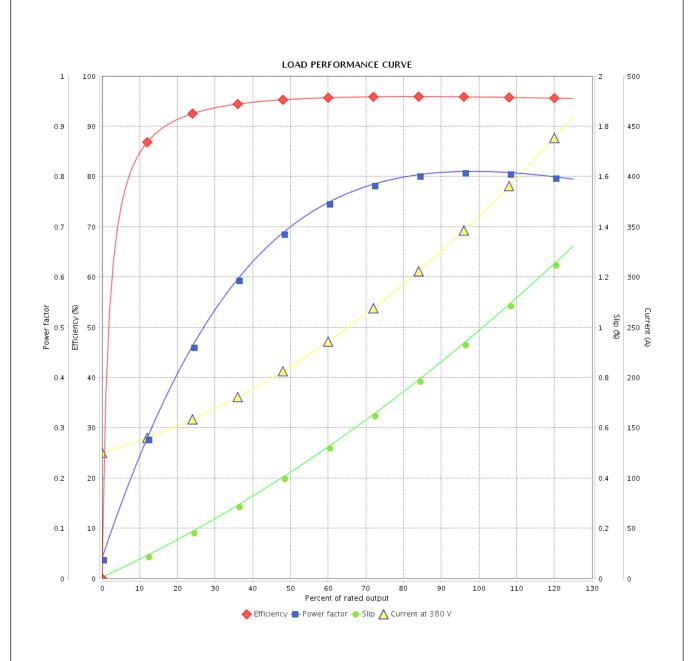
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Donformana	. 200 V 50 H= CD IF2	,		
Performance	: 380 V 50 Hz 6P IE3			
Rated current	: 362 A	Moment of inertia (J)	: 277 sc	q.ft.lb
LRC	: 5.6	Duty cycle	: Cont.(	S1)
Rated torque	: 1330 ft.lb	Insulation class	: F	
Locked rotor torque	: 150 %	Service factor		
Breakdown torque	: 180 %	Temperature rise		
Rated speed	: 990 rpm	Design	: B	
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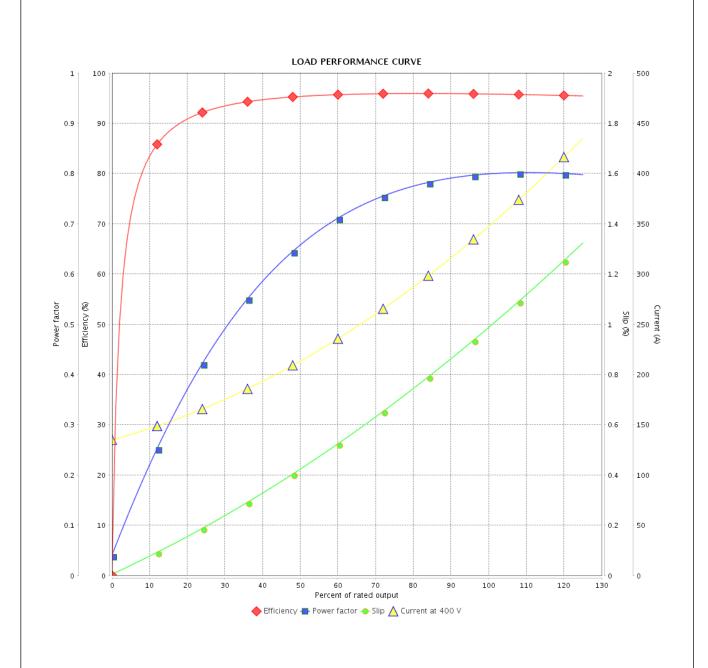


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Product line : NEMA Premium Efficiency Three- Product code : 11564991

Phase

Catalog #: 30012ET3G586/7-W22



Performance	: 4	00 V 50 Hz 6P IE3				
Rated current	: 3	48 A	Moment o	f inertia (J)	: 277 sq.ft.lb	
LRC	: 6	.2	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 1	330 ft.lb	Insulation	class	: F	
Locked rotor torqu	e :1	70 %	Service fa	ctor	: 1.15	
Breakdown torque : 200 %		Temperati	Temperature rise			
Rated speed	: 9	90 rpm Design		: B		
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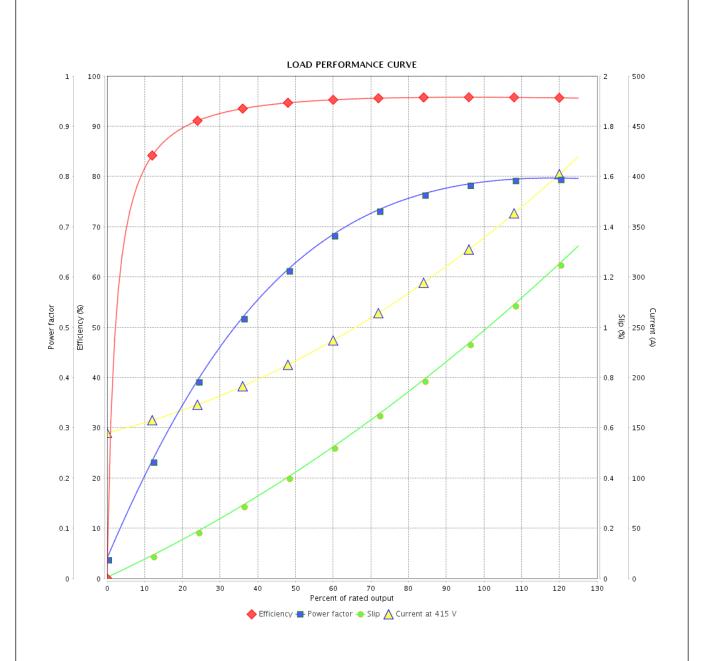
Product line : NEMA Premium Efficiency Three- Product code :

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Performance : 415 V 50 Hz 6P IE3 : 340 A Rated current Moment of inertia (J) : 277 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) : 1330 ft.lb Insulation class Rated torque : F Locked rotor torque : 190 % Service factor : 1.15 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 990 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

### Three Phase Induction Motor - Squirrel Cage

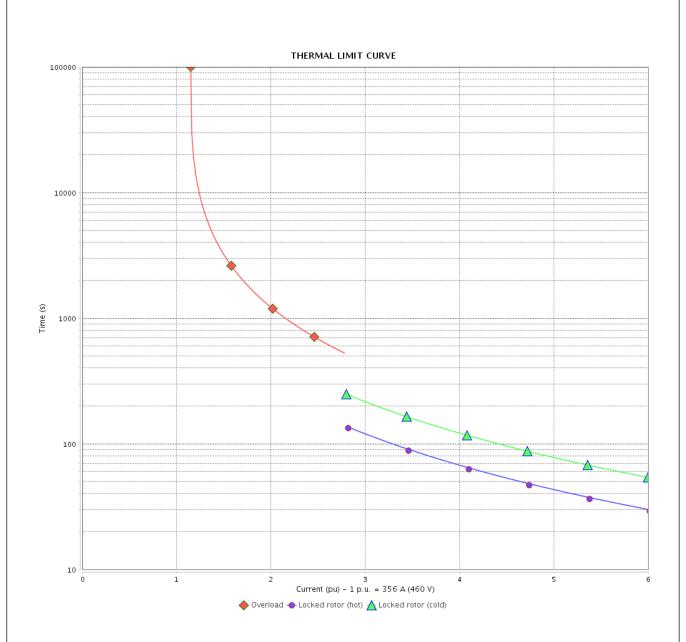


Product line		NEMA Premium Efficiency Th	ree- Pi	oduct code :	11564991	
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Performance Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed	: 3 : 6 : 1 que : 1 ue : 1 : 1	.0 D Ir 320 ft.lb Ir 60 % S 90 % To	floment of i Outy cycle Insulation cl Bervice fact The semperature Oesign	ass or	: 277 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar	: 3 : 6 : 1 que : 1 ue : 1 : 1	56 A M .0 D 320 ft.lb Ir 60 % S 90 %	Outy cycle Insulation classifier classifier contractions  Service fact Semperature	ass or	: Cont.(S1) : F : 1.15 : 80 K	
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed	: 3 : 6 : 1 que : 1 ue : 1 : 1	56 A	Outy cycle Insulation classifier classifier contractions  Service fact Semperature	ass or	: Cont.(S1) : F : 1.15 : 80 K	Date
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar Cooling constar	: 3 : 6 : 1 que : 1 ue : 1 : 1	56 A M .0 D 320 ft.lb Ir 60 % S 90 %	Outy cycle Insulation classifier classifier contractions  Service fact Semperature	ass or e rise	: Cont.(S1) : F : 1.15 : 80 K : B	Date
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar Cooling constar Rev.	: 3 : 6 : 1 que : 1 ue : 1 : 1	56 A	Outy cycle Insulation classifier classifier contractions  Service fact Semperature	ass or e rise	: Cont.(S1) : F : 1.15 : 80 K : B	Date
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar Cooling constar	: 3 : 6 : 1 que : 1 ue : 1 : 1	56 A	Outy cycle Insulation classifier classifier contractions  Service fact Semperature	ass or e rise	: Cont.(S1) : F : 1.15 : 80 K : B	Date

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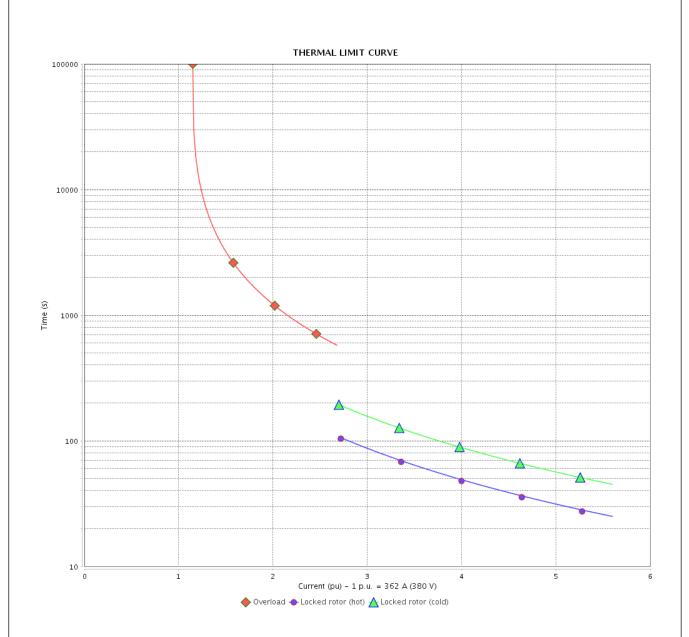


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Product line		NEMA Premium Efficiency <sup>-</sup> hase		Product code : Catalog # :	11564991 30012ET3G5	86/7-W22
Performance Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	: 36 : 5. : 13 que : 18 ue : 18 : 99	80 V 50 Hz 6P IE3 62 A 6 330 ft.lb 50 % 80 %	Moment of Duty cycle Insulation Service fa Temperate Design	class actor	: 277 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant Cooling constant						
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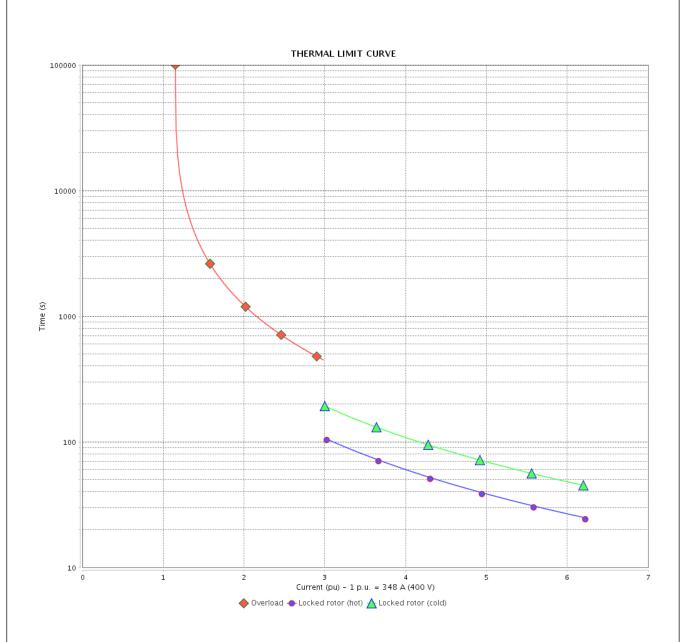


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Customer	:					
Product line		NEMA Premium Efficiency <sup>-</sup> hase		Product code : Catalog # :	11564991 30012ET3G5	86/7-W22
Performance Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed Heating constant	: 34 : 6. : 13 que : 17 ue : 20 : 99	00 V 50 Hz 6P IE3 48 A 2 330 ft.lb 70 % 90 rpm	Moment of Duty cycle Insulation Service fa Temperati Design	class actor	: 277 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Cooling constant						
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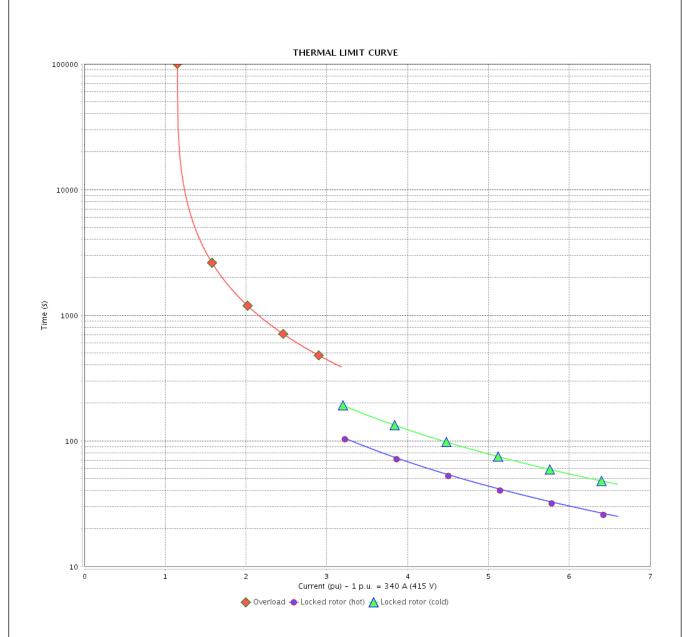


Customer	:					
Product line		NEMA Premium Efficiency <sup>-</sup> hase		Product code : Catalog # :	11564991 30012ET3G5	86/7-W22
Performance Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	: 34 : 6. : 13 que : 19 ue : 22 : 99	15 V 50 Hz 6P IE3 40 A 6 330 ft.lb 90 % 29 % 90 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 277 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant Cooling constant						
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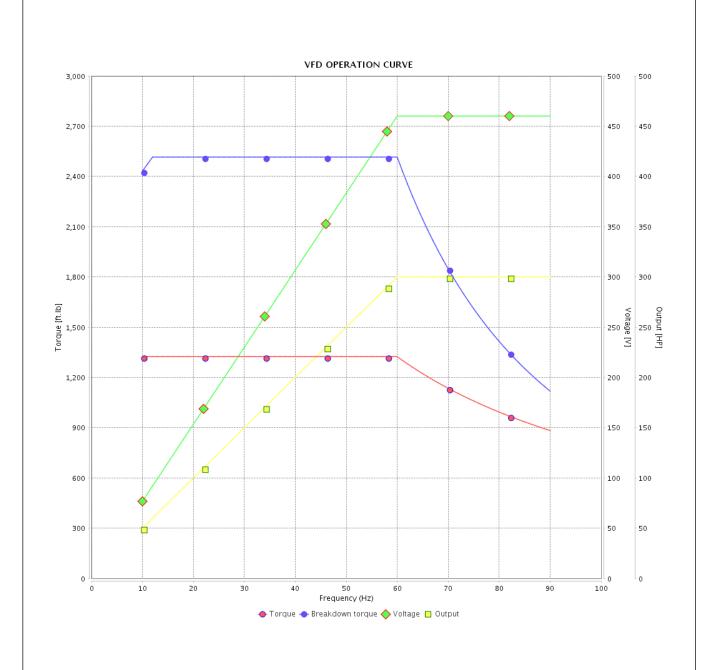
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11564991

Phase

Catalog #: 30012ET3G586/7-W22

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Performance	: 460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 356 A : 6.0 : 1320 ft.lb : 160 % : 190 % : 1190 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 277 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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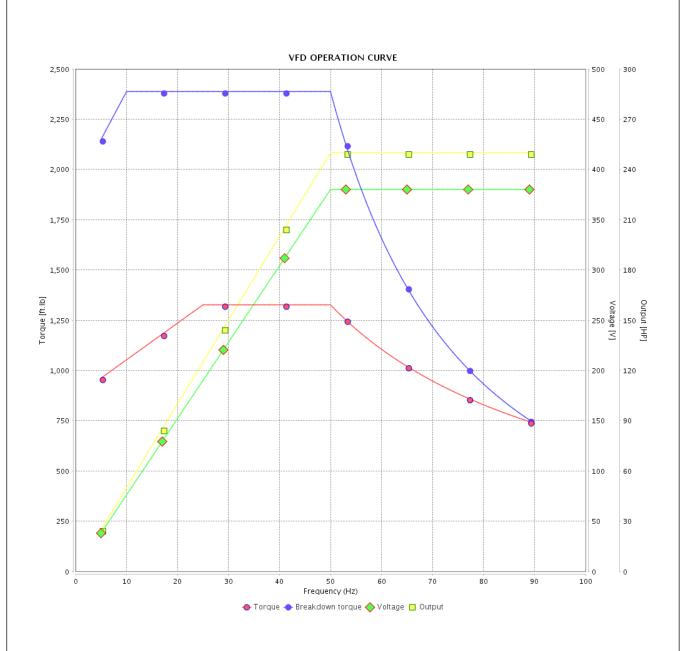
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Performance	: 380 V 50 Hz 6P IE3				
Rated current	: 362 A	Moment of inertia (J)		: 277 sq.ft.lb	
LRC	: 5.6	Duty cycle	9	: Cont.(S1)	
Rated torque	: 1330 ft.lb	Insulation	class	: F	
Locked rotor torque	: 150 %	Service factor		: 1.15 : 80 K	
Breakdown torque	: 180 %	Temperature rise			
Rated speed	: 990 rpm	Design		: B	
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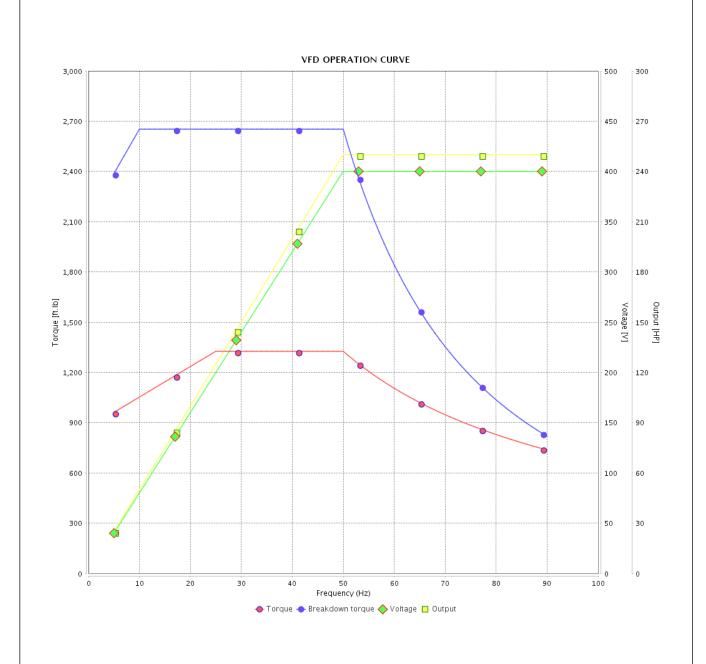
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roduct code : 11564991

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Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 348 A : 6.2 : 1330 ft.lb : 170 % : 200 % : 990 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		
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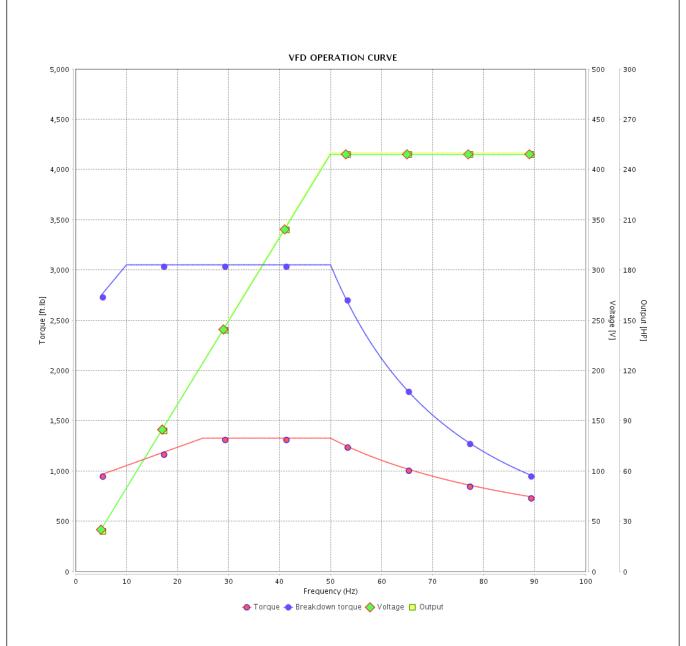
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Performance : 415 V 50 Hz 6P IE3 : 340 A Rated current Moment of inertia (J) : 277 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) : 1330 ft.lb Insulation class : F Rated torque Locked rotor torque : 190 % Service factor : 1.15 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 990 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

