### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12052653

Phase

Catalog #: 45012ET3G586/7-W22

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

Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW)

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

Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 4663 lb
Protection degree : IP55 Moment of inertia (J) : 368 sq.ft.lb

,			,		
Protection degree		: IP55	Moment of ine	ertia (J) : 368	sq.ft.lb
Output [HP]		450	400	400	400
Poles		6	6	6	6
Frequency [Hz]		60	50	50	50
Rated voltage [V]		460	380	400	415
Rated current [A]		532	580	558	542
L. R. Amperes [A]		3245	3074	3292	3415
LRC [A]		6.1x(Code G)	5.3x(Code F)	5.9x(Code G)	6.3x(Code G)
No load current [A	]	210	208	223	235
Rated speed [RPN	<b>/</b> 1]	1190	990	990	990
Slip [%]		0.83	1.00	1.00	1.00
Rated torque [ft.lb]		1980	2120	2120	2120
Locked rotor torque [%]		210	180	200	220
Breakdown torque	[%]	210	190	210	229
Service factor		1.15	1.00	1.00	1.00
Temperature rise		80 K	105 K	105 K	105 K
Locked rotor time		45s (cold) 25s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)
Noise level <sup>2</sup>		77.0 dB(A)	73.0 dB(A)	73.0 dB(A)	73.0 dB(A)
	25%	95.7	96.0	96.0	95.7
Efficiency (%)	50%	95.8	95.8	95.8	95.8
Elliciency (70)	75%	96.2	96.2	96.2	96.2
100%		96.2	95.8	95.8	96.2
	25%	0.43	0.45	0.42	0.39
Power Factor	50%	0.67	0.70	0.67	0.64
I OWEI FACIOI	75%	0.77	0.79	0.77	0.75
	100%	0.81	0.82	0.81	0.80
1					

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

Bearing type : 6322 C3 6319 C3 Max. traction : 7850 lb Sealing : Taconite Taconite Max. compression : 12513 lb

Sealing : Taconite Taconite Max. compression : 12513 lb 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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# DATA SHEET



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Customer	:					
		Space h	neater informatio	on		
Voltage: 200 - 24	10 V					
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#### Three Phase Induction Motor - Squirrel Cage



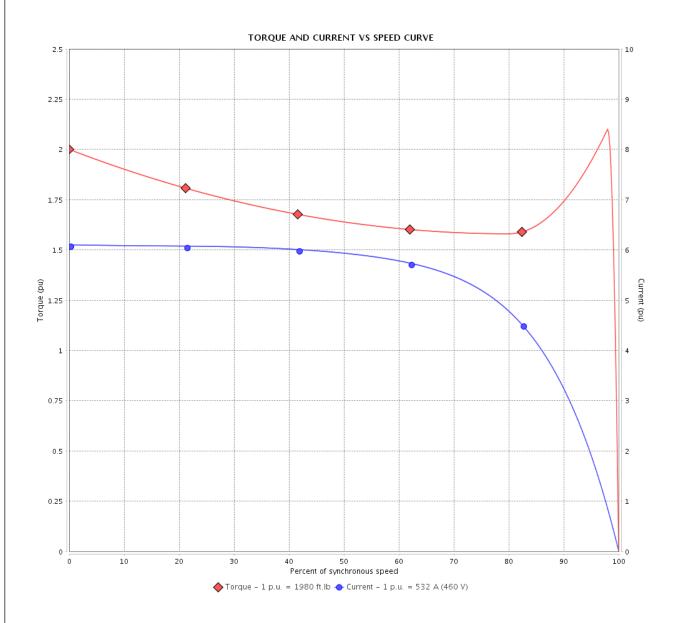
Customer :

Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

Product code: 12052653

Catalog #: 45012ET3G586/7-W22



Performance : 460 V 60 Hz 6P Rated current : 532 A Moment of inertia (J) : 368 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 1980 ft.lb Locked rotor torque : 210 % Service factor : 1.15 Breakdown torque : 210 % Temperature rise : 80 K Rated speed : 1190 rpm

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

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#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12052653

Phase

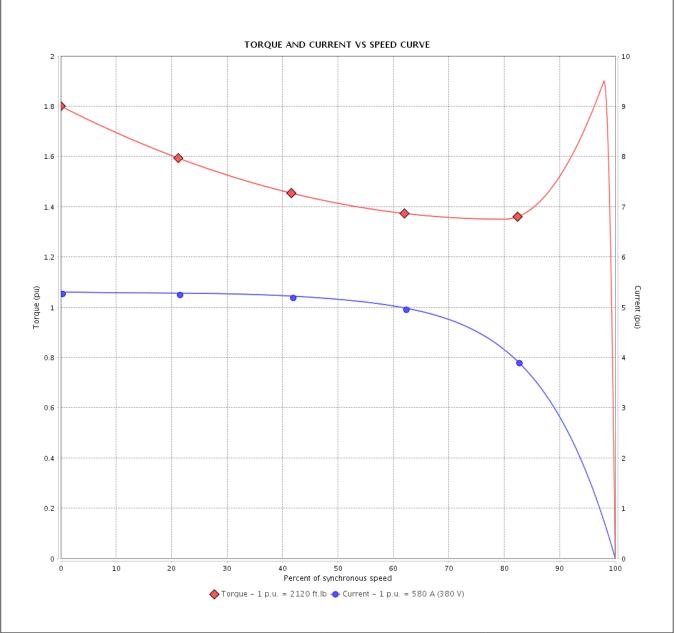
Catalog #: 45012ET3G586/7-W22

: 368 sq.ft.lb

: Cont.(S1)

: F

: 1.00



Performance : 380 V 50 Hz 6P IE3

Rated current : 580 A Moment of inertia (J)
LRC : 5.3 Duty cycle
Rated torque : 2120 ft.lb Insulation class
Locked rotor torque : 180 % Service factor

Breakdown torque : 190 % Temperature rise : 105 K Rated speed : 990 rpm

Locked rotor time : 36s (cold) 20s (hot)

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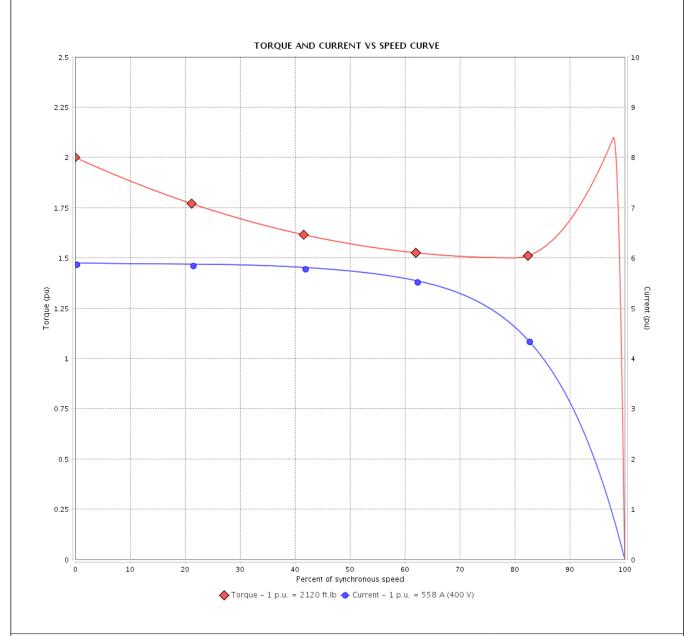


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12052653

Phase

Catalog #: 45012ET3G586/7-W22



Performance	: 400 V 50 Hz 6P IE3		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 558 A : 5.9 : 2120 ft.lb : 200 % : 210 % : 990 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise	: 368 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K
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Locked rotor time : 36s (cold) 20s (hot)

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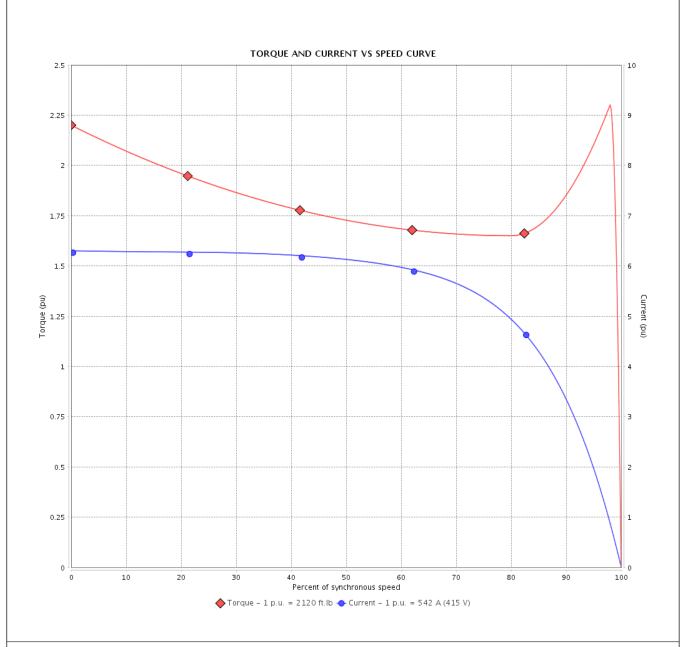
Customer :

Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 12052653

Catalog #: 45012ET3G586/7-W22



Performance : 415 V 50 Hz 6P IE3

Rated current : 542 A Moment of inertia (J)

LRC : 6.3
Rated torque : 2120 ft.lb
Locked rotor torque : 220 %
Breakdown torque : 229 %
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

Locked rotor time : 36s (cold) 20s (hot)

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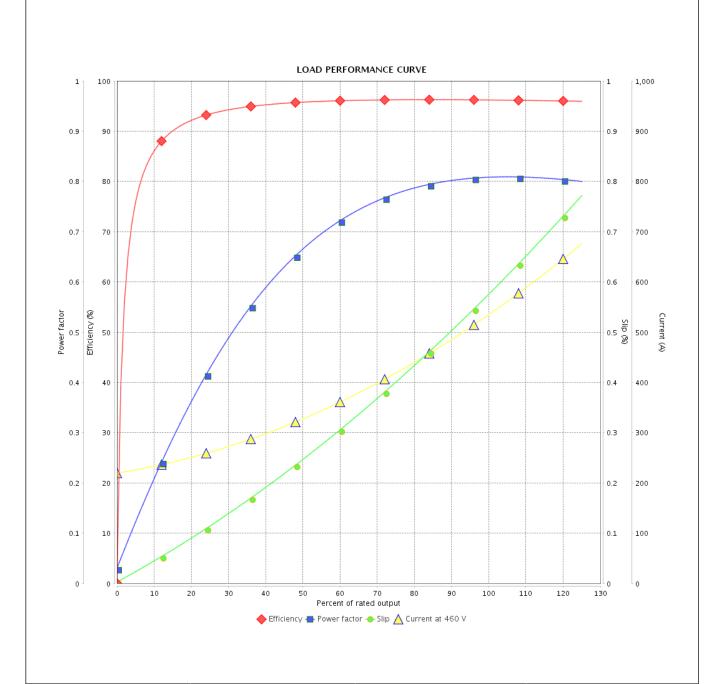
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 45012ET3G586/7-W22

12052653



Performance : 460 V 60 Hz 6P Rated current : 532 A Moment of inertia (J) : 368 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) : 1980 ft.lb Rated torque Insulation class : F Locked rotor torque : 210 % Service factor : 1.15 Breakdown torque : 210 % Temperature rise : 80 K Rated speed : 1190 rpm

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#### Three Phase Induction Motor - Squirrel Cage



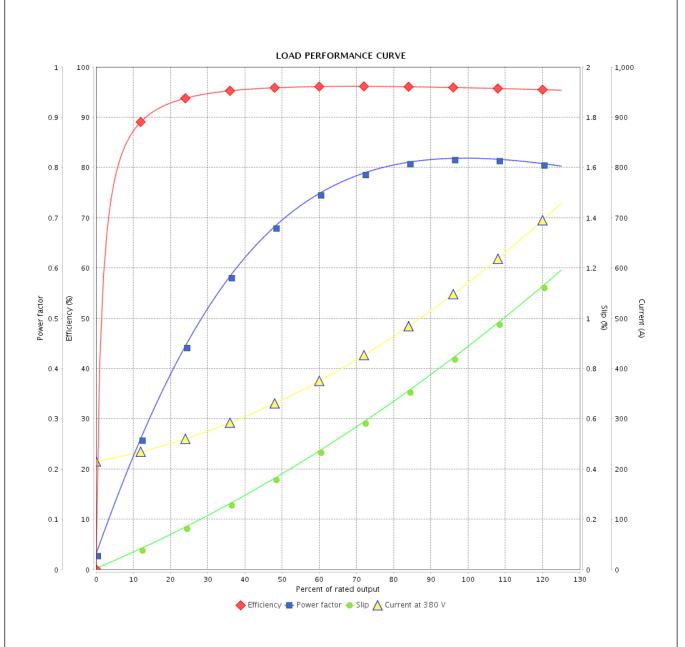
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12052653

Catalog #: 45012ET3G586/7-W22



Performance : 380 V 50 Hz 6P IE3 : 580 A Rated current Moment of inertia (J) : 368 sq.ft.lb **LRC** : 5.3 Duty cycle : Cont.(S1) : 2120 ft.lb Insulation class Rated torque : F Locked rotor torque : 180 % Service factor : 1.00

Breakdown torque : 190 % Temperature rise : 105 K Rated speed : 990 rpm

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### Three Phase Induction Motor - Squirrel Cage

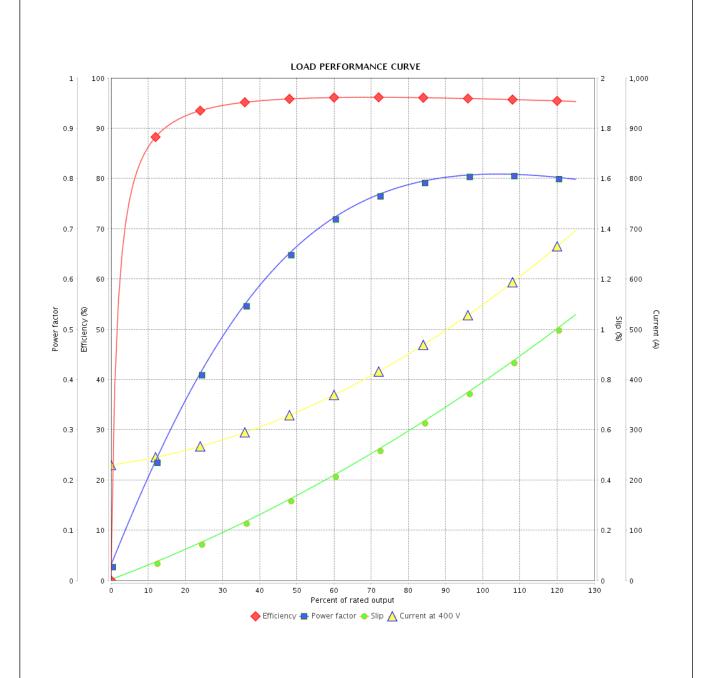


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12052653

Phase

Catalog #: 45012ET3G586/7-W22



Performance	: 400 V 50	Hz 6P IE3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed		Duty cycle	class ctor	: 368 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K	
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### Three Phase Induction Motor - Squirrel Cage



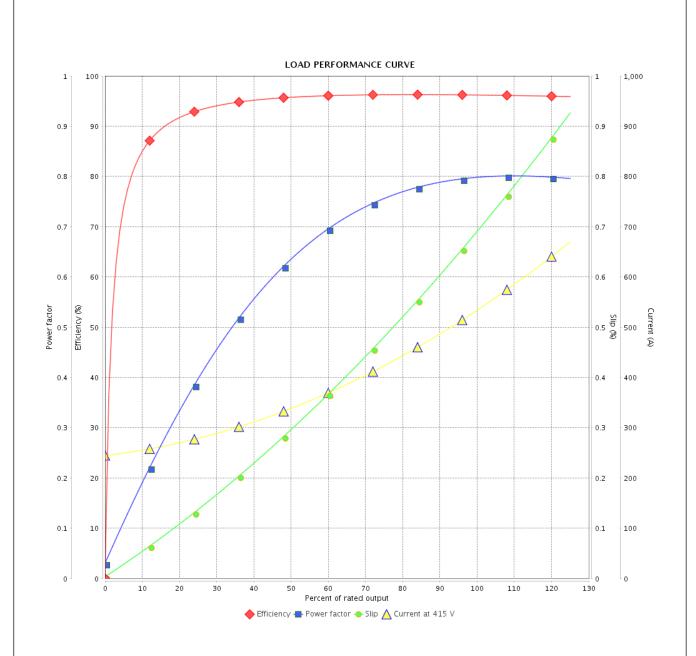
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 45012ET3G586/7-W22

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Performance	: 41	15 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6.3 : 21 jue : 22 ie : 22	42 A 3 120 ft.lb 20 % 29 % 00 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 368 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K	
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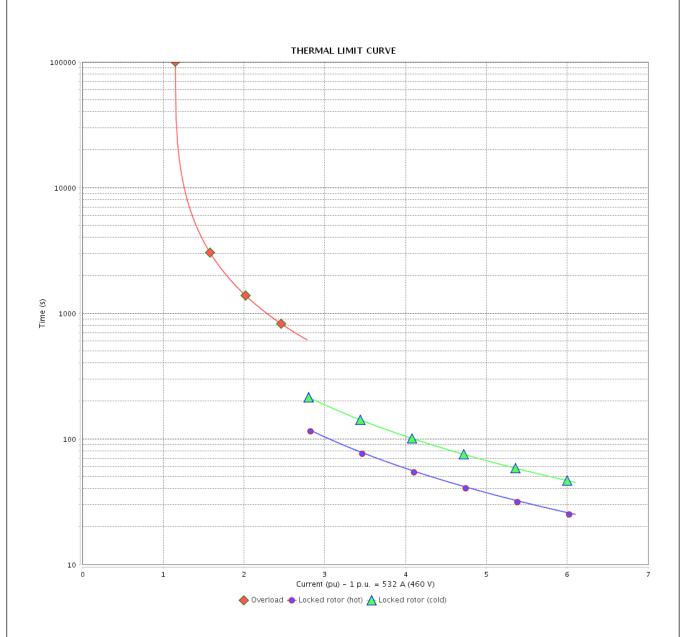


Customer	:					
Product line	:   P	NEMA Premium Efficiency hase		Product code :	12052653	
				Catalog # :	45012ET3G5	586/7-W22
Performance	. 4	60 V 60 Hz 6P				
Rated current		32 A	Moment o	of inertia (J)	: 368 sq.ft.lb	
LRC	: 6	.1	Duty cycle	Э	: Cont.(S1)	
Rated torque		980 ft.lb 10 %	Insulation Service fa		: F : 1.15	
Locked rotor tord Breakdown torqu		10 % 10 %	Temperat		: 80 K	
Rated speed		190 rpm				
Heating constan	 t					
Cooling constant						
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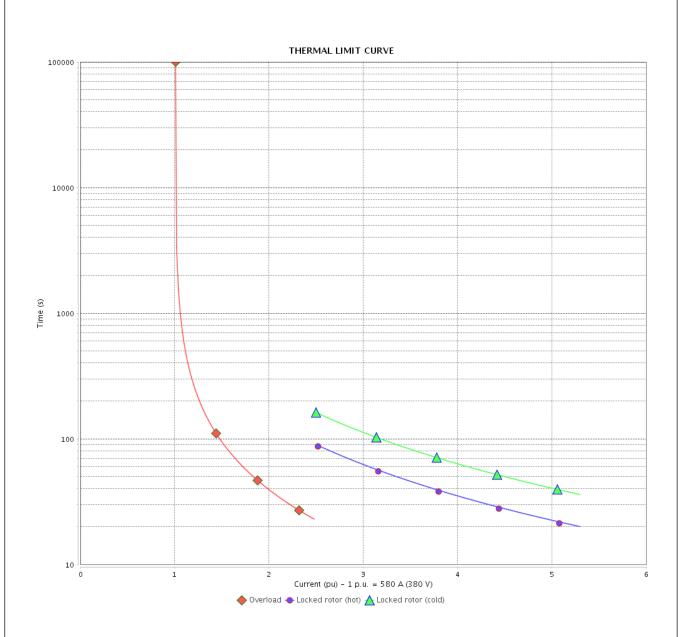


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Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	12052653	
		nasc		Catalog # :	45012ET3G5	86/7-W22
erformance	: 3	80 V 50 Hz 6P IE3				
Rated current RC Rated torque ocked rotor torque reakdown torque Rated speed	: 5 : 5 : 2 que : 1 ue : 1	80 A	Moment of Duty cycle Insulation Service fa Temperat	class actor	: 368 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K	
leating constan						
cooling constan Rev.	t .	Changes Summary		Performed	Checked	Date
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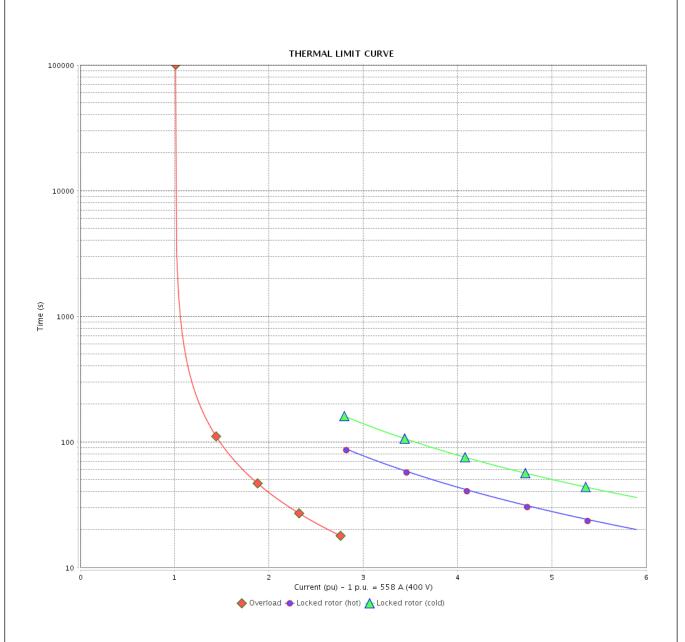


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Product line		NEMA Premium Efficiency	Throo	Product code :	12052653	
Floudet iiile		hase				
				Catalog # :	45012ET3G5	86/7-W22 
Performance	: 4	00 V 50 Hz 6P IE3				
Rated current		58 A	Moment o	of inertia (J)	: 368 sq.ft.lb	
LRC	: 5		Duty cycle	Э	: Cont.(S1) : F	
Rated torque Locked rotor tord		120 ft.lb 00 %	Insulation Service fa		: 1.00	
Breakdown torqu	•	10 %	Temperat		: 105 K	
			101116	are rise		
Rated speed	: 9	90 rpm				
Heating constan	: 9 t			ure rise		
Heating constan	: 9 t	90 rpm				
Heating constan	: 9 t			Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



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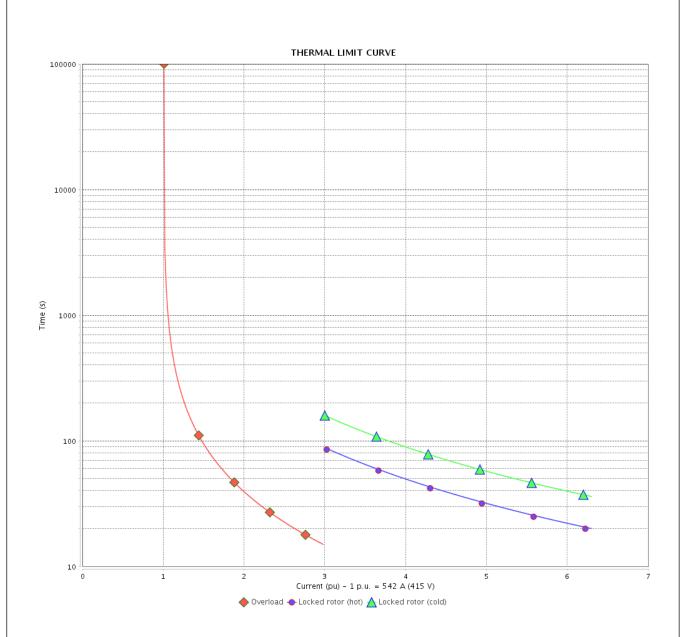


Customer	:					
Product line		NEMA Premium Efficiency T hase		Product code :	12052653	
	P	nase		Catalog # :	45012ET3G	586/7-W22
Performance Rated current RC Rated torque Locked rotor toro Breakdown torque Rated speed	: 5- : 6 : 2 que : 2 ie : 2	.3 120 ft.lb 20 %	Moment of Duty cycle Insulation Service fa	class ector	: 368 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K	
Heating constant	t					
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## Three Phase Induction Motor - Squirrel Cage



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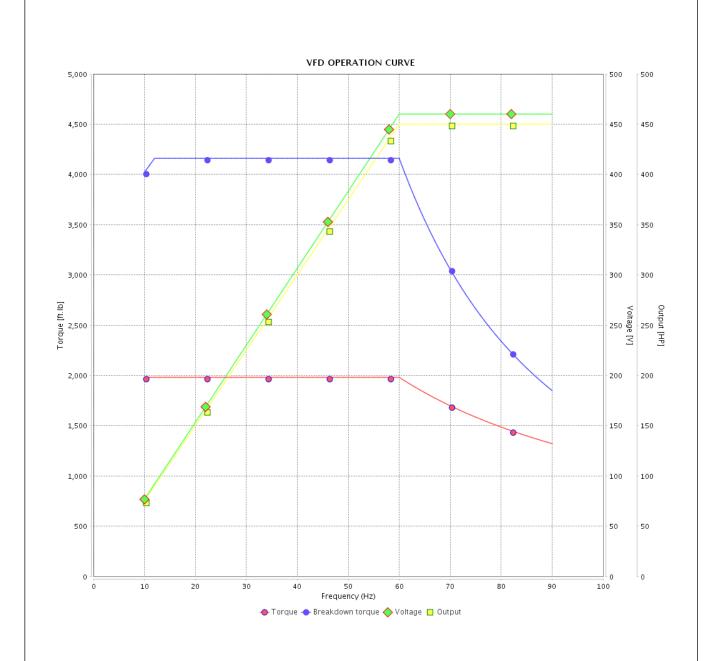
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 45012ET3G586/7-W22

12052653



 Performance
 : 460 V 60 Hz 6P

 Rated current
 : 532 A
 Moment of inertia (J)
 : 368 sq.ft.lb

 LRC
 : 6.1
 Duty cycle
 : Cont.(S1)

 Rated torque
 : 1980 ft.lb
 Insulation class
 : F

Locked rotor torque : 210 % Service factor : 1.15
Breakdown torque : 210 % Temperature rise : 80 K
Rated speed : 1190 rpm

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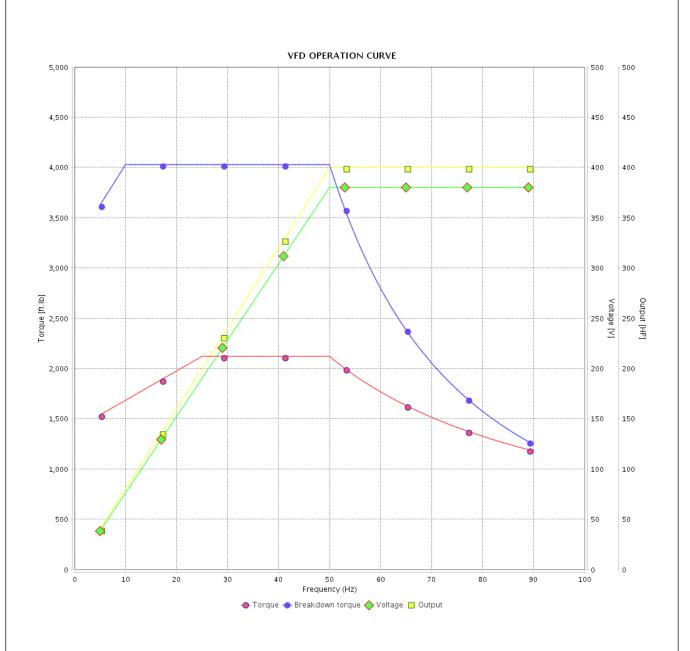
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12052653

Catalog #: 45012ET3G586/7-W22



Performance : 380 V 50 Hz 6P IE3 : 580 A Rated current Moment of inertia (J) : 368 sq.ft.lb **LRC** : 5.3 Duty cycle : Cont.(S1) : 2120 ft.lb Insulation class Rated torque : F Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 190 % Temperature rise : 105 K Rated speed : 990 rpm

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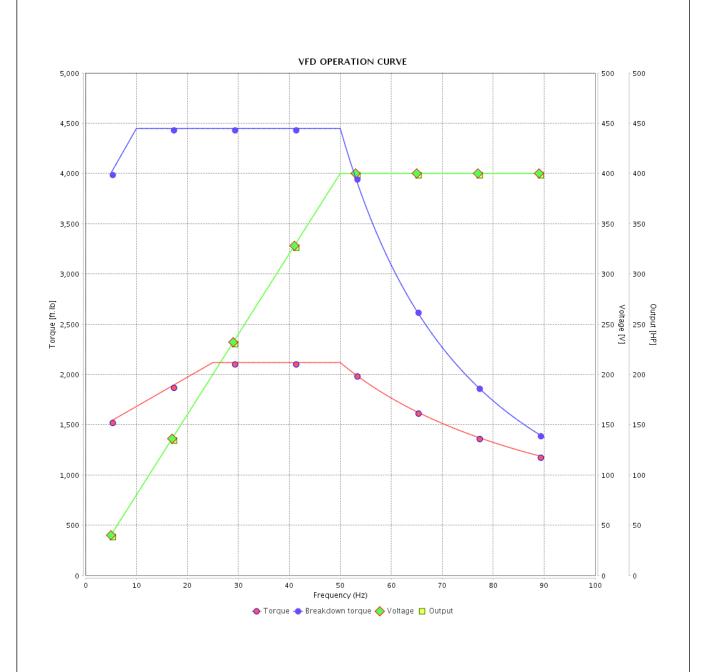
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 45012ET3G586/7-W22

12052653



Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed		Moment of Duty cycle Insulation Service fa Temperate	class ctor	: 368 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K	
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### Three Phase Induction Motor - Squirrel Cage



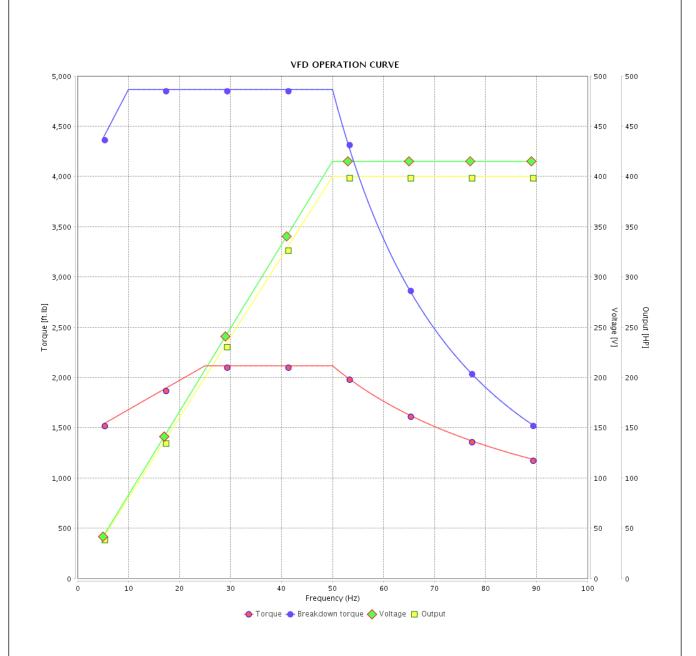
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 45012ET3G586/7-W22

12052653



Performance		: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 542 A : 6.3 : 2120 ft.lb : 220 % : 229 % : 990 rpm	Moment of Duty cycle Insulation Service fa Temperat	class actor	: 368 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K	
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