DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11679203

Phase

Catalog #: 50036ET3G586/7S-W22

Frame : 586/7TS 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 : 4345 lb

Altitude : 1000 m.a.s.l. Approx. weight : 4345 lb Protection degree : IP55 Moment of inertia (J) : 143 sq.ft.lb

Protection degree		. 1533	Montent of the	Montent of mertia (3) . 143 Sq.it.ib			
Design		: B					
Output [HP]		500	450	450	450		
Poles		2	2	2	2		
Frequency [Hz]		60	50	50	50		
Rated voltage [V]		460	380	400	415		
Rated current [A]		530	575	546	530		
L. R. Amperes [A]		4505	3450	3658	3816		
LRC [A]		8.5x(Code J)	6.0x(Code F)	6.7x(Code G)	7.2x(Code G)		
No load current [A]	100	99.0	106	111		
Rated speed [RPN	<i>/</i> I]	3580	2980	2980	2980		
Slip [%]		0.56	0.67	0.67	0.67		
Rated torque [ft.lb]]	733	793	793	793		
Locked rotor torqu		220	200	220	240		
Breakdown torque	[%]	240	220	240	260		
Service factor		1.15	1.00	1.00	1.00		
Temperature rise		80 K	105 K	105 K	105 K		
Locked rotor time		70s (cold) 39s (hot)	54s (cold) 30s (hot)	54s (cold) 30s (hot)	54s (cold) 30s (hot)		
Noise level ²		84.0 dB(A)	80.0 dB(A)	80.0 dB(A)	80.0 dB(A)		
	25%	95.7	95.7	96.1	95.7		
Efficiency (%)	50%	95.8	95.8	95.8	95.8		
Efficiency (70)	75%	96.2	95.8	96.2	96.2		
100%		96.2	95.8	95.8	96.2		
25%		0.67	0.69	0.67	0.65		
Power Factor	50%	0.88	0.89	0.88	0.87		
I OWEI FACIOI	75%	0.90	0.90	0.90	0.89		
	100%	0.91	0.91	0.91	0.90		

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

Bearing type : 6314 C3 6314 C3 Max. traction : 2129 lb Sealing : Taconite Taconite Max. compression : 6474 lb

Sealing : Taconite Taconite Max. compression : 6474 lb Labyrinth Labyrinth Lubrication interval : 4000 h

Lubricant amount : 27 g 27 g Lubricant type : Mobil Polyrex EM

Notes . Wool

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



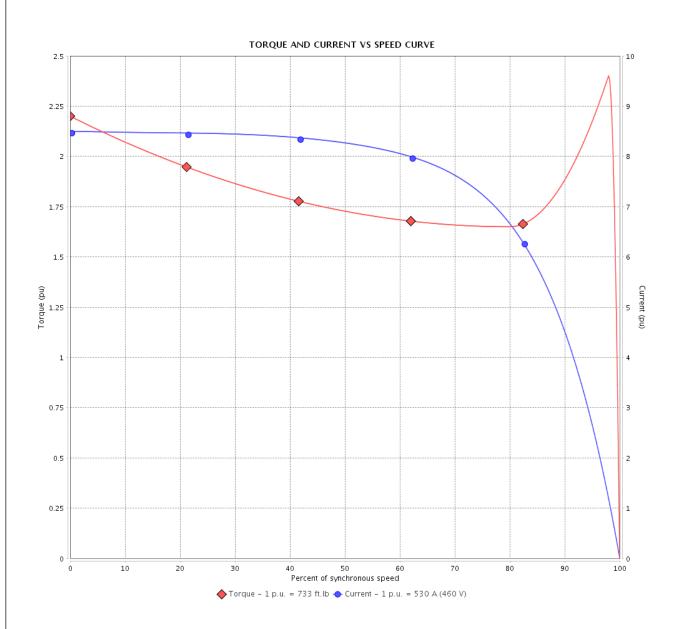
Three Pha	se Induction	n Motor - Squirrel Cage			
Customer	:				
		Space heater informa	tion		
Voltage: 200 - 240 V					
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Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11679203

> Catalog #: 50036ET3G586/7S-W22



Performance	: 460 V 60 Hz 2P			
Rated current	: 530 A	Moment of inertia (J)	: 143 sq.ft.lb	
LRC	: 8.5	Duty cycle	: Cont.(S1)	
Rated torque	: 733 ft.lb	Insulation class	: F	
Locked rotor torque	: 220 %	Service factor	: 1.15	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 3580 rpm	Design	: B	
Locked rotor time	: 70s (cold) 39s (hot)	1		

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Three Phase Induction Motor - Squirrel Cage



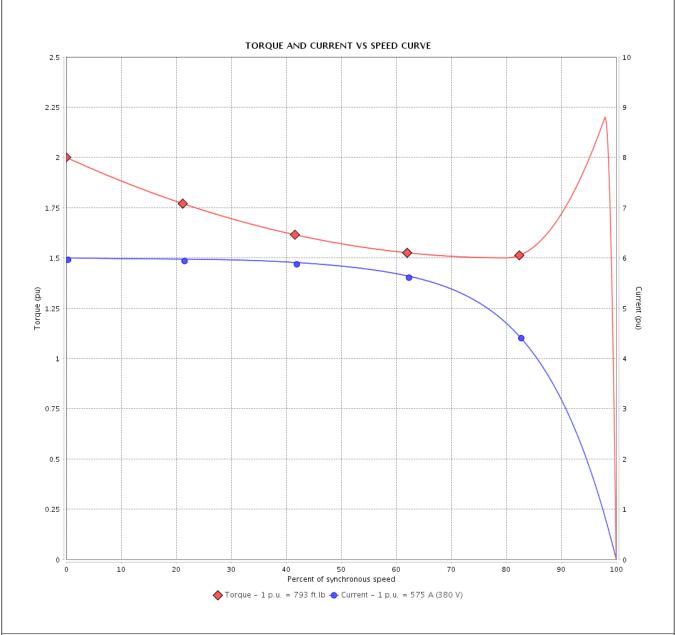
Customer :

Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 11679203

Catalog #: 50036ET3G586/7S-W22



Performance : 380 V 50 Hz 2P IE3 Rated current : 575 A Moment of inertia (J) : 143 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 793 ft.lb : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 105 K Rated speed : 2980 rpm Design : B

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

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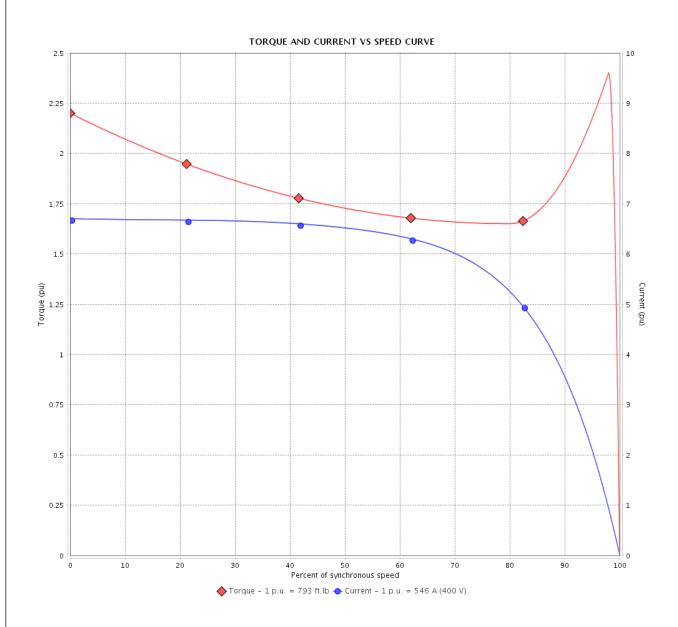


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11679203

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Catalog # : 50036ET3G586/7S-W22



Performance	: 400 V 50 Hz 2P IE3			
Rated current	: 546 A	Moment of inertia (J)	: 143 sq.ft.lb	
LRC	: 6.7	Duty cycle	: Cont.(S1)	
Rated torque	: 793 ft.lb	Insulation class	:F	
Locked rotor torque	: 220 %	Service factor	: 1.00	
Breakdown torque	: 240 %	Temperature rise	: 105 K	
Rated speed	: 2980 rpm	Design	: B	
Locked rotor time	: 54s (cold) 30s (hot)			

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

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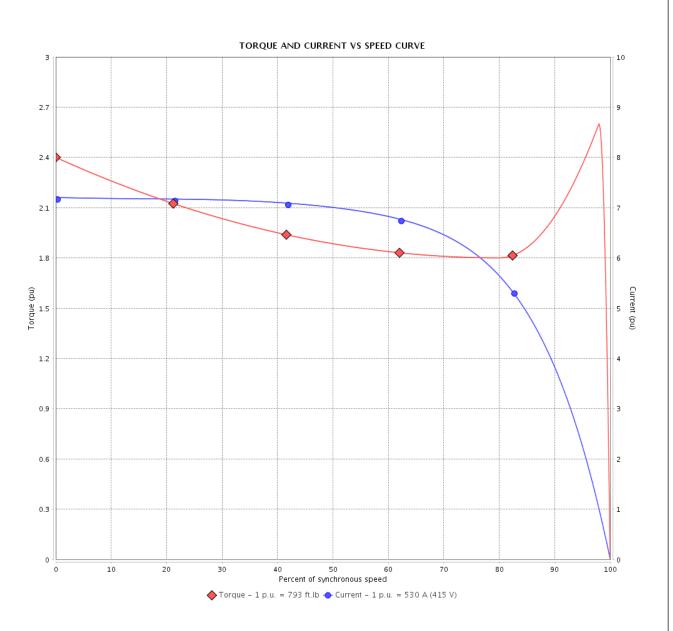


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11679203

Phase

Catalog #: 50036ET3G586/7S-W22



Performance : 415 V 50 Hz 2P IE3 Rated current : 530 A Moment of inertia (J) : 143 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 793 ft.lb : F Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 105 K Rated speed : 2980 rpm Design : B

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

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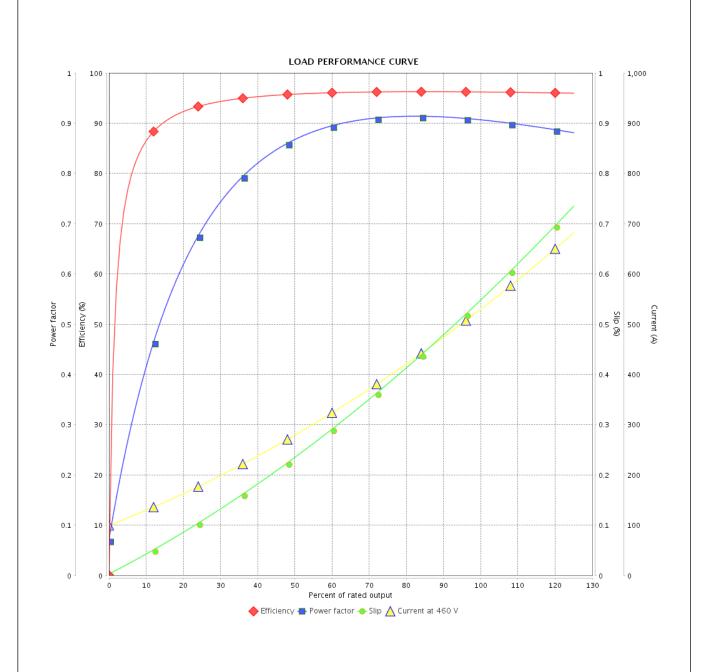


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11679203

Phase

Catalog #: 50036ET3G586/7S-W22



Performance	: 46	60 V 60 Hz 2P				
Rated current	: 50	30 A	Moment o	Moment of inertia (J)		
LRC	: 8.	5	Duty cycle)	: Cont.(S1)	
Rated torque	: 73	33 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 22	20 %	Service fa	ctor	: 1.15	
Breakdown torque	: 24	40 %	Temperati	ıre rise	: 80 K	
Rated speed	: 38	580 rpm	Design		: B	
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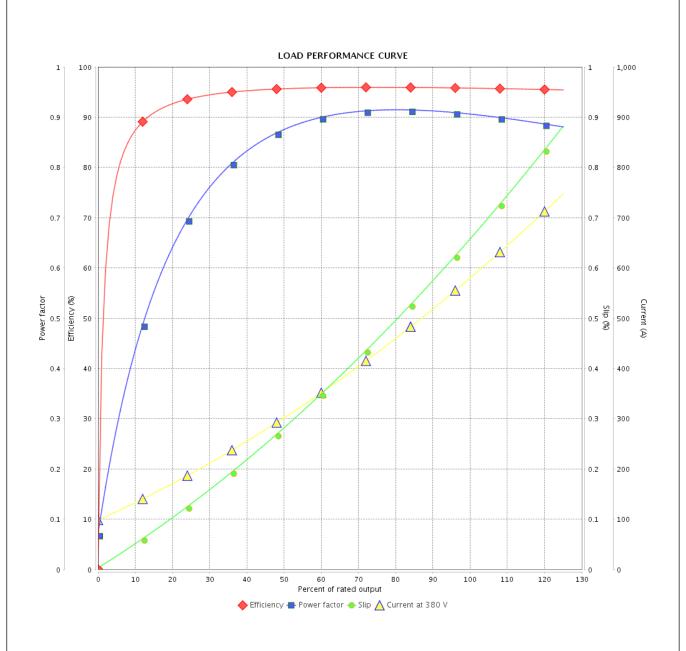
Product line : NEMA Premium Efficiency Three- Pro

Phase

Product code: 11679203

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	<u> </u>				
Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 575 A : 6.0 : 793 ft.lb : 200 % : 220 % : 2980 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	n class actor	: 143 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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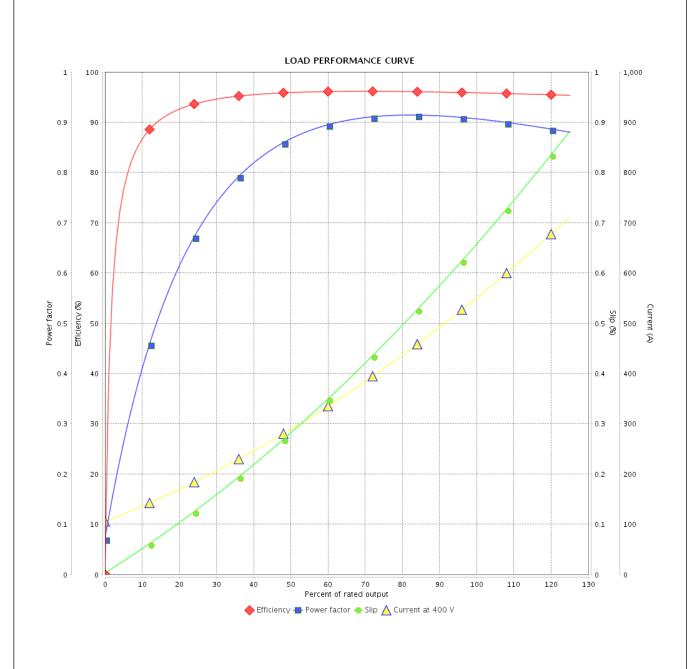


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11679203

Phase

Catalog #: 50036ET3G586/7S-W22



Performance	:	400 V 50 Hz 2P IE3				
Rated current		546 A	Moment o	f inertia (J)	: 143 sq.ft.lb	
LRC	-	6.7	Duty cycle	` '	: Cont.(S1)	
Rated torque	:	793 ft.lb	Insulation		: F	
Locked rotor torque	e :	220 %	Service fa	ctor	: 1.00	
Breakdown torque		240 %	Temperature rise		: 105 K	
Rated speed	:	2980 rpm	Design		: B	
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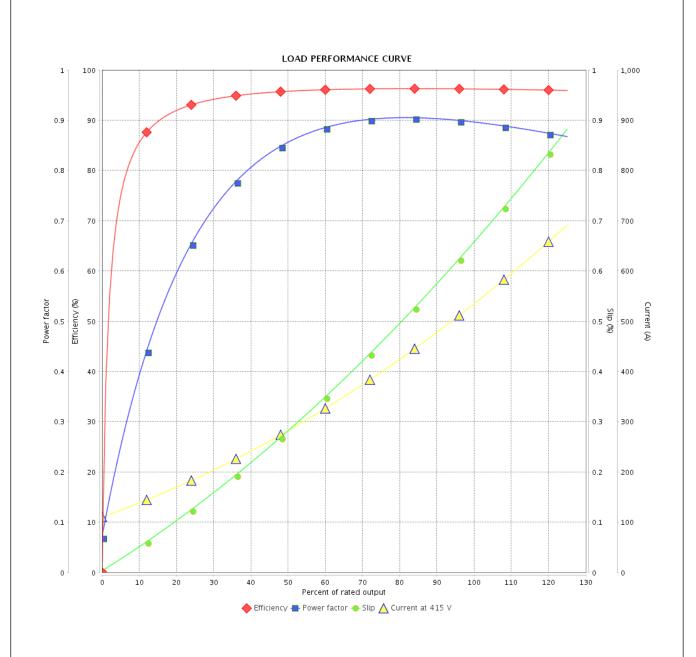
Customer :

Product line : NEMA Premium Efficiency Three- Pr

Phase

Product code: 11679203

Catalog #: 50036ET3G586/7S-W22



Performance	: 4	115 V 50 Hz 2P IE3				
Rated current	: 5	530 A	Moment of	f inertia (J)	: 143 sq.ft.lb	
LRC	: 7	7.2	Duty cycle	•	: Cont.(S1)	
Rated torque	: 7	793 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 2	240 %	Service fa	ctor	: 1.00	
Breakdown torqu	e : 2	260 %	Temperature rise		: 105 K	
Rated speed	: 2	2980 rpm	Design		: B	
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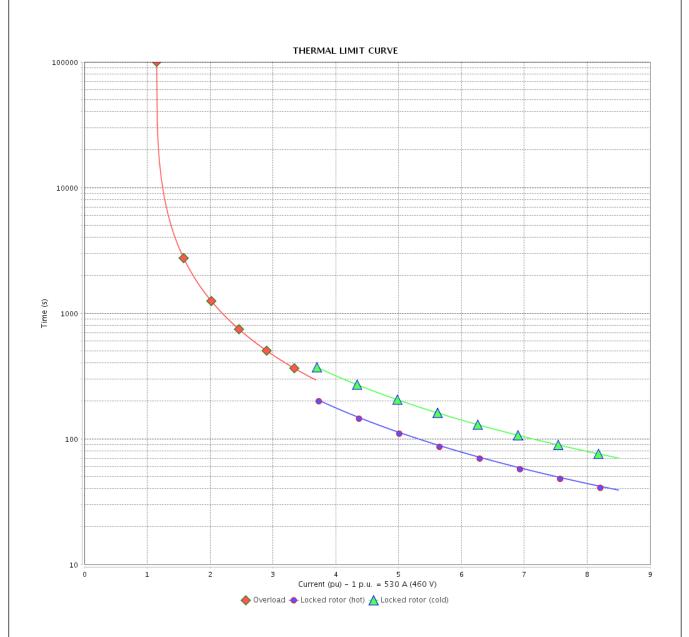


Customer	:					
Product line		NEMA Premium Efficiency ⁻ hase		Product code : Catalog # :	11679203 50036ET3G5	86/7S-W22
Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: 50 : 8. : 70 jue : 22 ie : 24 : 36	60 V 60 Hz 2P 30 A 5 33 ft.lb 20 % 40 % 580 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 143 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant Cooling constant						
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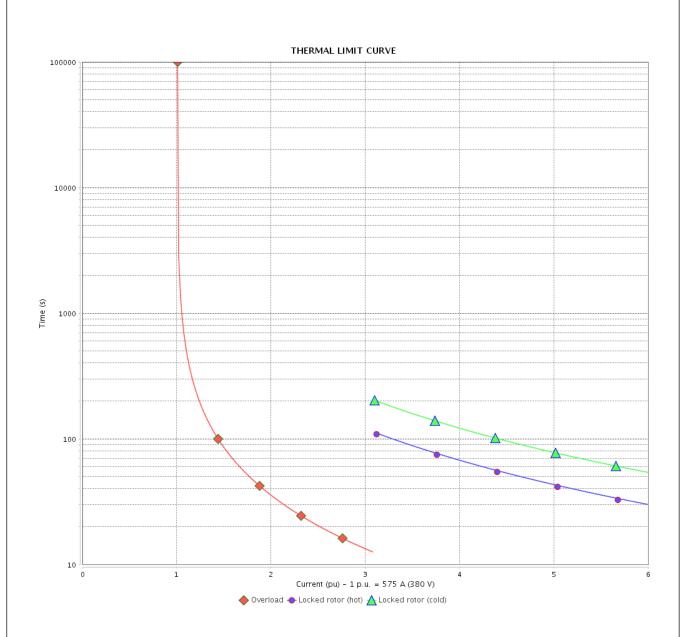


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	11679203	
1 Toddot IIIIc		Phase				
				Catalog # :	50036ET3G5	86/7S-W22
Performance		80 V 50 Hz 2P IE3				
Rated current LRC		75 A	Moment of Duty cycle	of inertia (J)	: 143 sq.ft.lb : Cont.(S1)	
Rated torque	· 6	.0		•		
i tatoa torquo	: 6 : 7	93 ft.lb	Insulation	class	: F	
Locked rotor tord	: 7 que : 2	93 ft.lb 00 %	Insulation Service fa	class actor	: F : 1.00	
Locked rotor tord Breakdown tordi	: 7 que : 2 ue : 2	93 ft.lb 00 % 20 %	Insulation Service fa Temperat	class actor	: F	
Locked rotor tord Breakdown torqu Rated speed	: 7 que : 2 ue : 2 : 2	93 ft.lb 00 %	Insulation Service fa	class actor	: F : 1.00 : 105 K	
Locked rotor tord Breakdown tord Rated speed Heating constan	: 7 que : 2 ue : 2 : 2	93 ft.lb 00 % 20 %	Insulation Service fa Temperat	class actor	: F : 1.00 : 105 K	
Locked rotor tord Breakdown torqu Rated speed Heating constan Cooling constan	: 7 que : 2 ue : 2 : 2	93 ft.lb 00 % 20 % 980 rpm	Insulation Service fa Temperat	class actor ure rise	: F : 1.00 : 105 K : B	Date
Locked rotor tord Breakdown tord Rated speed Heating constan	: 7 que : 2 ue : 2 : 2	93 ft.lb 00 % 20 %	Insulation Service fa Temperat	class actor	: F : 1.00 : 105 K	Date
Locked rotor tord Breakdown torqu Rated speed Heating constan Cooling constan	: 7 que : 2 ue : 2 : 2	93 ft.lb 00 % 20 % 980 rpm	Insulation Service fa Temperat	class actor ure rise	: F : 1.00 : 105 K : B	Date
Locked rotor tore Breakdown torque Rated speed Heating constan Cooling constan Rev.	: 7 que : 2 ue : 2 : 2	93 ft.lb 00 % 20 % 980 rpm	Insulation Service fa Temperat	class actor ure rise	: F : 1.00 : 105 K : B	Date

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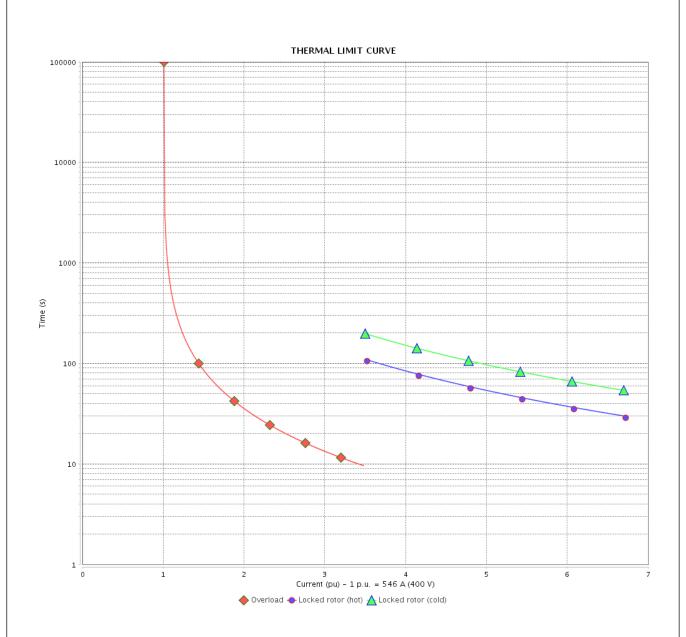


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	11679203	
1 Toddot iiilo		hase				
				Catalog # :	50036ET3G5	586/7S-W22
Performance		00 V 50 Hz 2P IE3	Moment	of inactic (1)	. 140 an # III	
Rated current LRC	: 6	46 A .7	Duty cycle	of inertia (J) e	: 143 sq.ft.lb : Cont.(S1)	
Rated torque	: 7	93 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		20 % 40 %	Service fa Temperat		: 1.00 : 105 K	
Rated speed		980 rpm	Design	uic lise	: B	
Heating constan						
Cooling constant						
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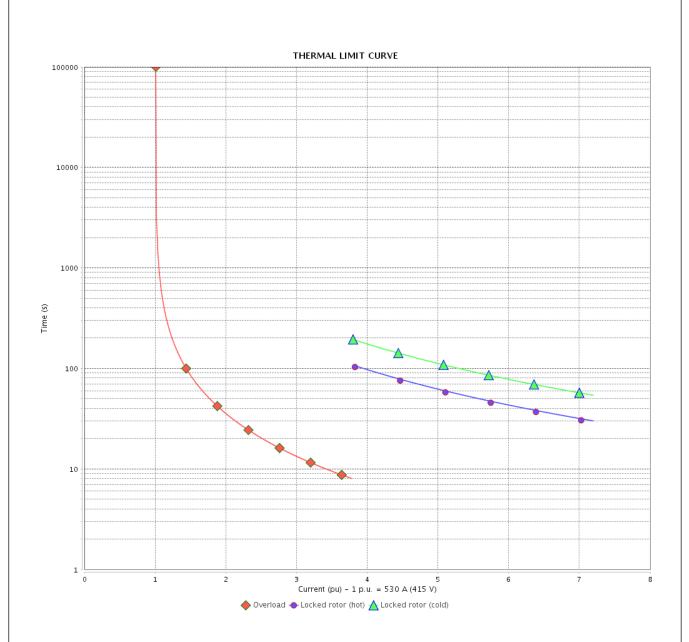


Customer	:					
Product line		NEMA Premium Efficiency ⁻ hase		Product code : Catalog # :	11679203 50036ET3G5	86/7S-W22
Performance Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed Heating constant	: 50 : 7. : 79 gue : 24 ie : 26 : 29	15 V 50 Hz 2P IE3 30 A 2 93 ft.lb 40 % 60 % 980 rpm	Moment of Duty cycle Insulation Service for Temperat Design	class actor	: 143 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Cooling constant						
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Customer

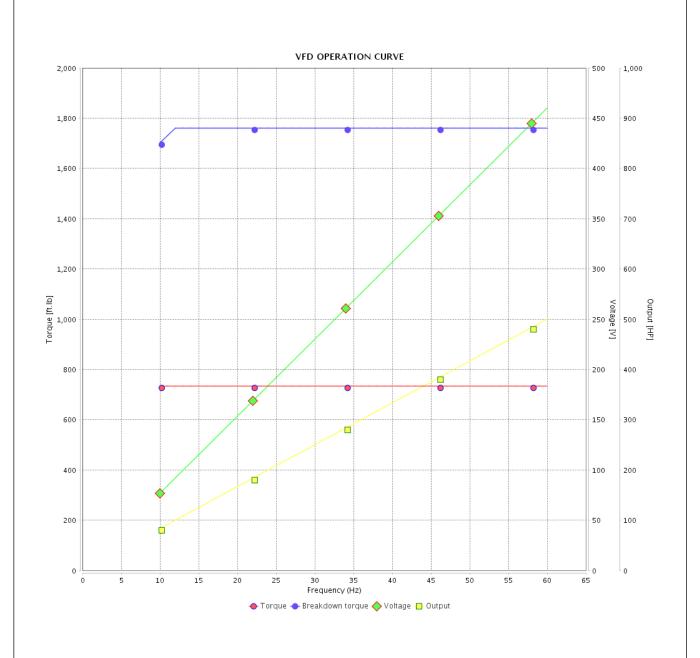
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 50036ET3G586/7S-W22

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11679203



Performance	: 460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 530 A : 8.5 : 733 ft.lb : 220 % : 240 % : 3580 rpm	Moment of iner Duty cycle Insulation class Service factor Temperature ris Design	8	: 143 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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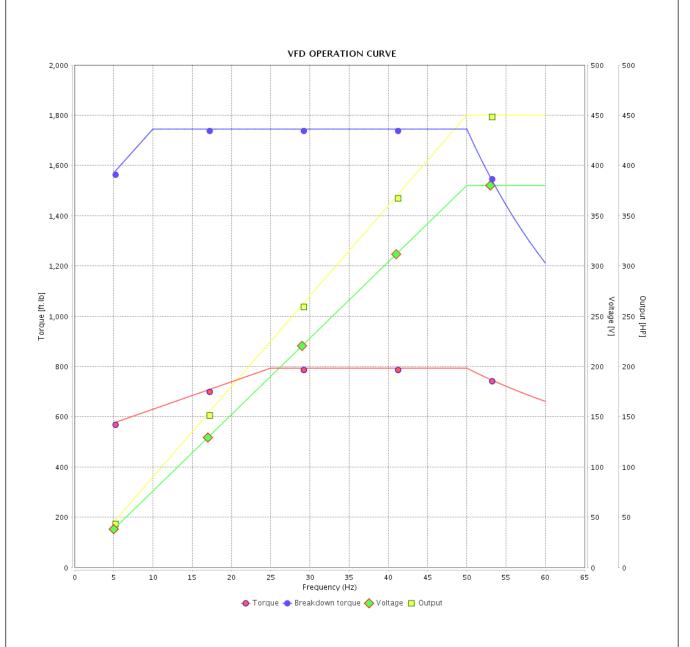
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11679203

Catalog # : 50036ET3G586/7S-W22

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Performance	: 380 V 50 Hz 2P IE3	-			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 575 A : 6.0 : 793 ft.lb : 200 % : 220 % : 2980 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 143 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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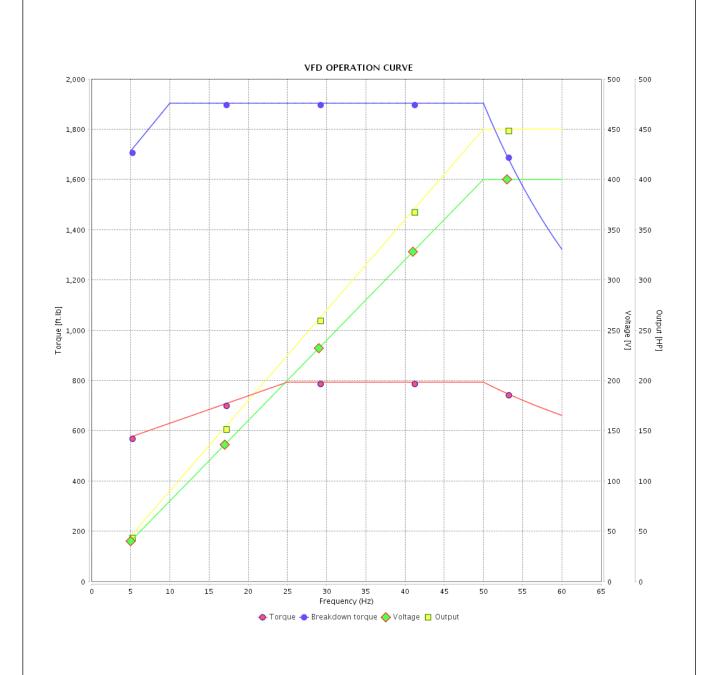


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11679203

Phase

Catalog #: 50036ET3G586/7S-W22



Performance		400 V 50 Hz 2P IE3				
Rated current		546 A	Moment o	f inertia (J)	: 143 sq.ft.lb	
LRC	:	6.7	Duty cycle)	: Cont.(S1)	
Rated torque	:	793 ft.lb	Insulation	class	:F	
Locked rotor torque) :	220 %	Service fa	ctor	: 1.00	
Breakdown torque	:	: 240 % Temperature rise		ıre rise	: 105 K	
Rated speed	:	2980 rpm	Design		: B	
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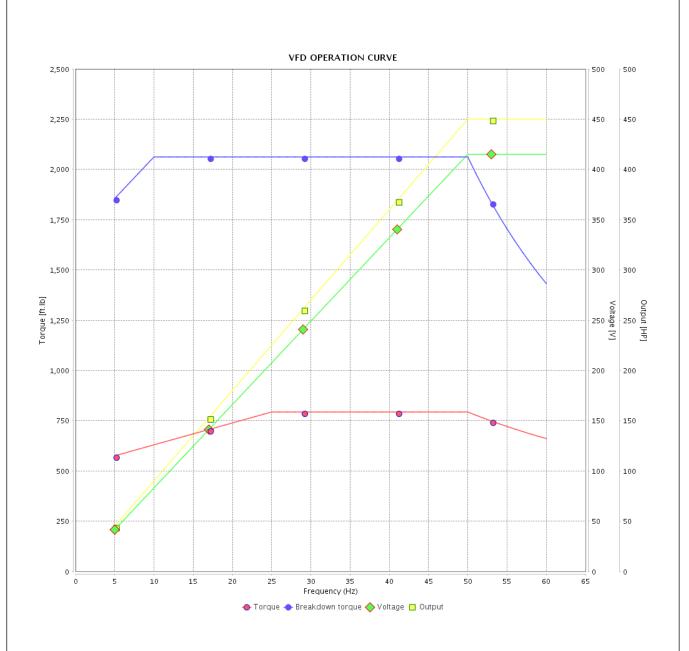
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11679203

Catalog #: 50036ET3G586/7S-W22

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Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 530 A : 7.2 : 793 ft.lb : 240 % : 260 % : 2980 rpm	Moment of ine Duty cycle Insulation clas Service factor Temperature r Design	s	: 143 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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