DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Product code: 13821179

Three-Phase

70036OT3Q5010S-W40 Catalog #:

Frame : 5010/11 Cooling method : IC01 - ODP

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

Altitude : 1000 m.a.s.l. Approx. weight3 : 3419 lb

Aititude		. 1000 III.a.	S.I.	\ \Abbiox	weigiit		- 13 10	
Protection degre	е	: IP23		Momer	nt of inertia (J)	: 7	8.5 sq.ft.lb	
Output [HP]		700	550	550	550	600	600	600
Poles		2	2	2	2	2	2	2
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		460	380	400	415	380	400	415
Rated current [A]		764	721	701	683	793	771	752
L. R. Amperes [A]		5195	5119	5398	5737	5155	5474	5790
LRC [A]		6.8x(Code	7.1x(Code	7.7x(Code H)	8.4x(Code J)	6.5x(Code	7.1x(Code H)	7.7x(Code H)
		G)	G)			G)		
No load current [A]	140	140	156	172	140	156	172
Rated speed [RPN	/ []	3570	2970	2970	2975	2970	2970	2975
Slip [%]		0.83	1.00	1.00	0.83	1.00	1.00	0.83
Rated torque [ft.lb]]	1030	972	972	971	1060	1060	1060
Locked rotor torqu	e [%]	229	229	250	280	220	229	250
Breakdown torque	[%]	240	240	250	260	220	229	240
Service factor		1.15	1.15	1.15	1.15	1.00	1.00	1.00
Temperature rise		80 K	105 K	105 K	105 K	105 K	105 K	105 K
Locked rotor time		28s (cold)	25s (cold)	25s (cold)	25s (cold)	25s (cold)	25s (cold)	25s (cold)
		16s (hot)	14s (hot)	14s (hot)	14s (hot)	14s (hot)	14s (hot)	14s (hot)
Noise level ²		89.0 dB(A)						
	25%	94.9	94.5	94.5	94.3	94.8	94.8	94.6
Efficiency (%)	50%	95.4	95.0	95.0	94.8	95.3	95.3	95.2
Emolerity (%)	75%	95.8	95.4	95.4	95.3	95.3	95.3	95.2
	100%	96.2	95.8	95.8	95.8	95.8	95.8	95.8
	25%	0.61	0.60	0.56	0.52	0.62	0.59	0.56
Power Factor	50%	0.79	0.78	0.75	0.72	0.80	0.78	0.75
I OWEI FACIOI	75%	0.86	0.85	0.84	0.82	0.86	0.84	0.83
	100%	0.88	0.88	0.86	0.85	0.88	0.86	0.85

Drive end Non drive end Foundation loads Bearing type 6314 C3 6314 C3 Max. traction

Without Without Sealing Max. compression Bearing Seal Bearing Seal

4500 h Lubrication interval 4500 h Lubricant amount 27 g 27 g Mobil Polyrex EM Lubricant type

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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Thermal protection

		•		
ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	155 °C

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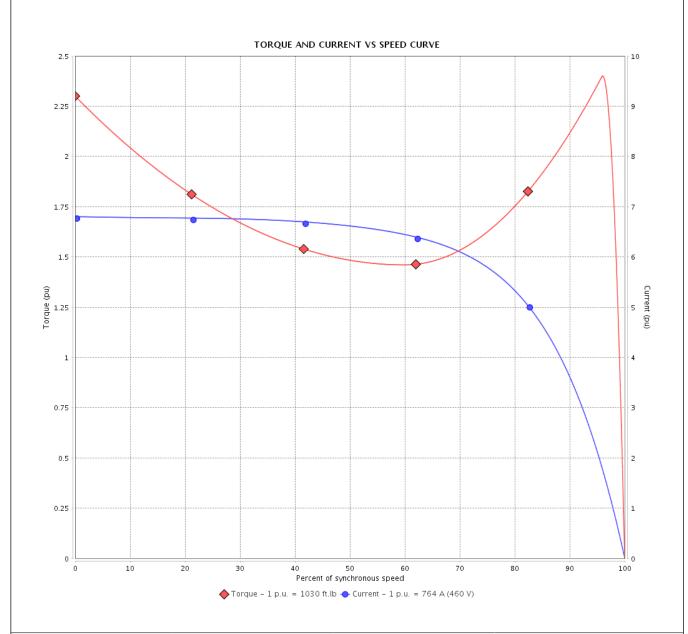
Customer :

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

roduct code: 13821179

Catalog #: 70036OT3Q5010S-W40



Performance : 460 V 60 Hz 2P Rated current : 764 A Moment of inertia (J) : 78.5 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) : 1030 ft.lb Insulation class : F Rated torque : 229 % Locked rotor torque Service factor : 1.15 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 3570 rpm

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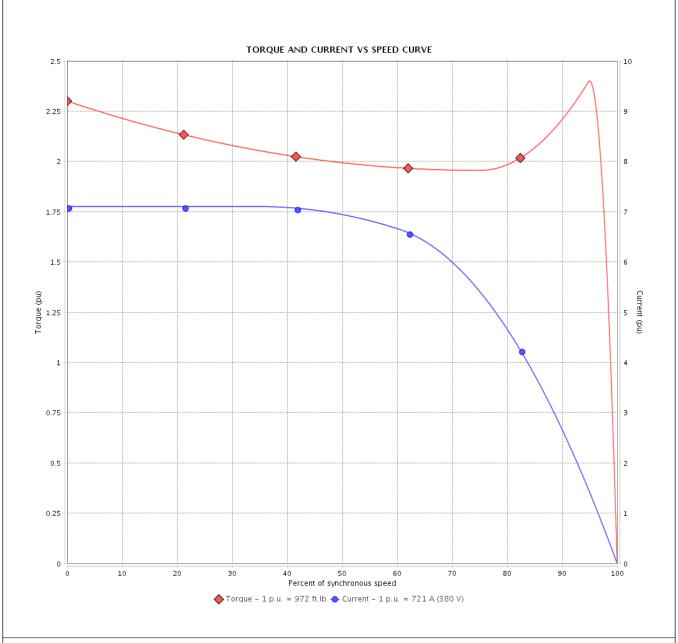
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13821179

Catalog #: 70036OT3Q5010S-W40

: 78.5 sq.ft.lb



Performance : 380 V 50 Hz 2P IE1

Rated current : 721 A Moment of inertia (J)

LRC : 7.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 972 ft.lb : F Service factor Locked rotor torque : 229 % : 1.15 Breakdown torque : 240 % Temperature rise : 105 K Rated speed : 2970 rpm

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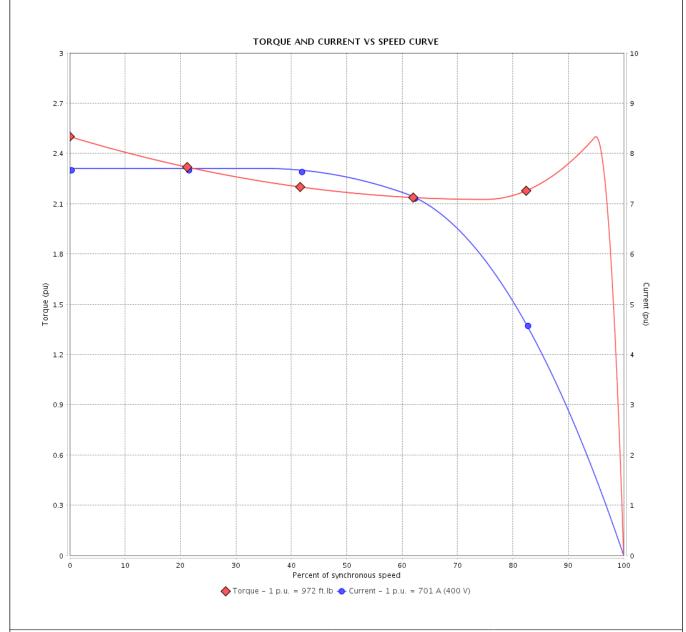
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13821179

Catalog #: 70036OT3Q5010S-W40



Performance : 400 V 50 Hz 2P IE1 Rated current : 701 A Moment of inertia (J) : 78.5 sq.ft.lb LRC : 7.7 Duty cycle : Cont.(S1) : 972 ft.lb Insulation class : F Rated torque : 250 % Service factor Locked rotor torque : 1.15 Breakdown torque : 250 % Temperature rise : 105 K Rated speed : 2970 rpm

LOCKCO TOTOL UITIN	. 2	03 (cold) 143 (flot)			
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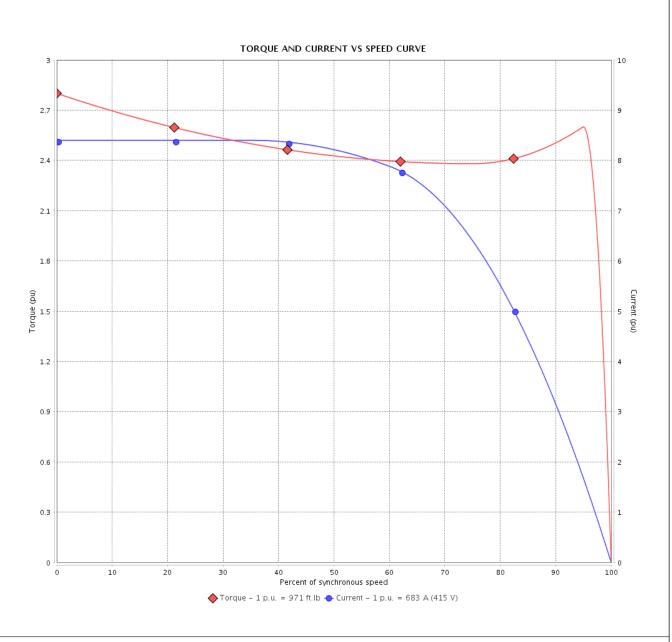


Customer :

Product line : W40 NEMA Premium Efficiency Product code : 13821179

Three-Phase

Catalog #: 70036OT3Q5010S-W40



Performance	: 415 V 50 Hz 2P IE1		
Rated current	: 683 A	Moment of inertia (J)	: 78.5 sq.ft.lb
LRC	: 8.4	Duty cycle	: Cont.(S1)
Rated torque	: 971 ft.lb	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.15
Breakdown torque	: 260 %	Temperature rise	: 105 K
Rated speed	: 2975 rpm		

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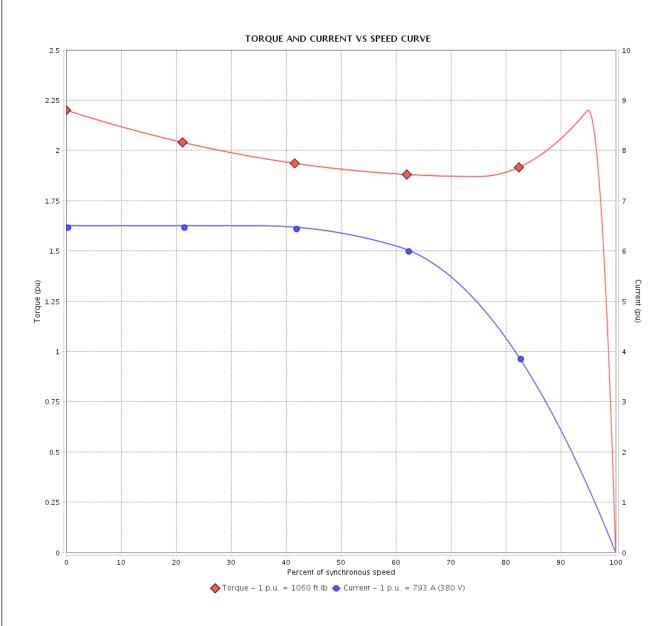
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13821179

Catalog #: 70036OT3Q5010S-W40



Performance : 380 V 50 Hz 2P IE3 Rated current : 793 A Moment of inertia (J) : 78.5 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) Rated torque : 1060 ft.lb Insulation class : F : 220 % Service factor Locked rotor torque : 1.00 Breakdown torque : 220 % Temperature rise : 105 K Rated speed : 2970 rpm

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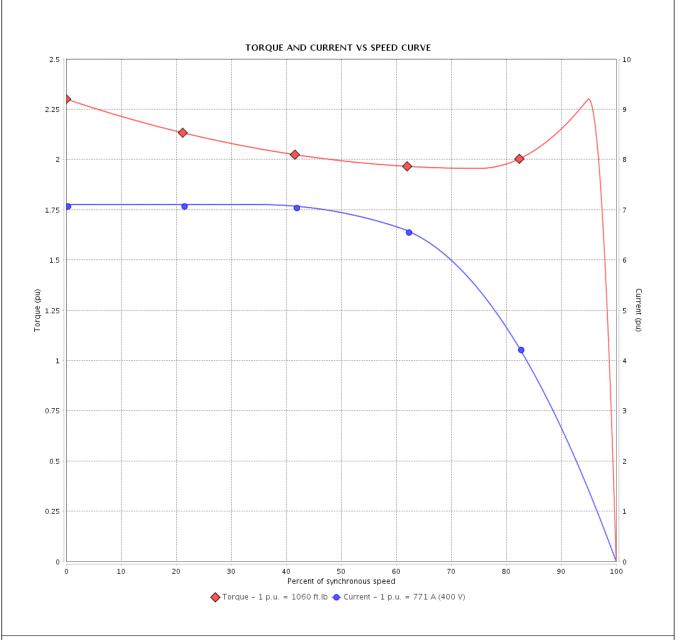
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13821179

Catalog #: 70036OT3Q5010S-W40



Performance : 400 V 50 Hz 2P IE3

Rated current : 771 A
LRC : 7.1
Rated torque : 1060 ft.lb
Locked rotor torque : 229 %

Breakdown torque

Rated speed

: 229 % : 2970 rpm Moment of inertia (J) : 78.5 sq.ft.lb

Duty cycle : Cont.(S1)

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

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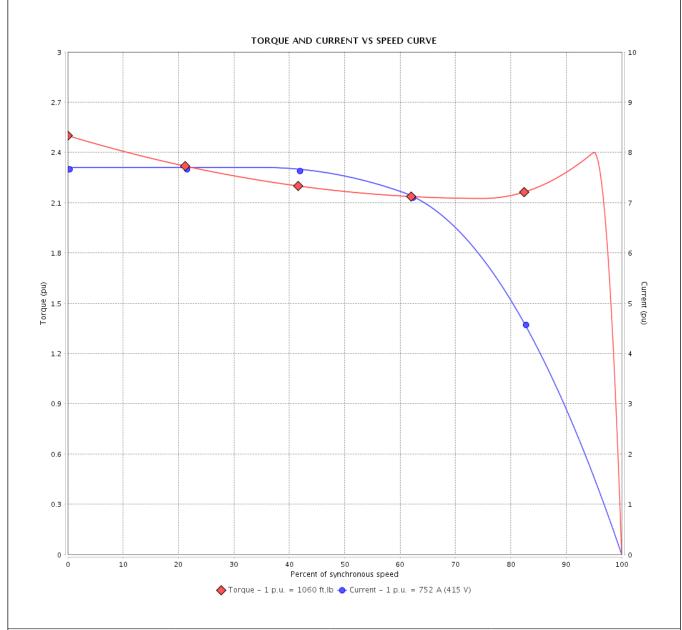
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13821179

Catalog #: 70036OT3Q5010S-W40



Performance : 415 V 50 Hz 2P IE3 Rated current : 752 A Moment of inertia (J) : 78.5 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) : 1060 ft.lb Insulation class Rated torque : F Locked rotor torque : 250 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 105 K Rated speed : 2975 rpm

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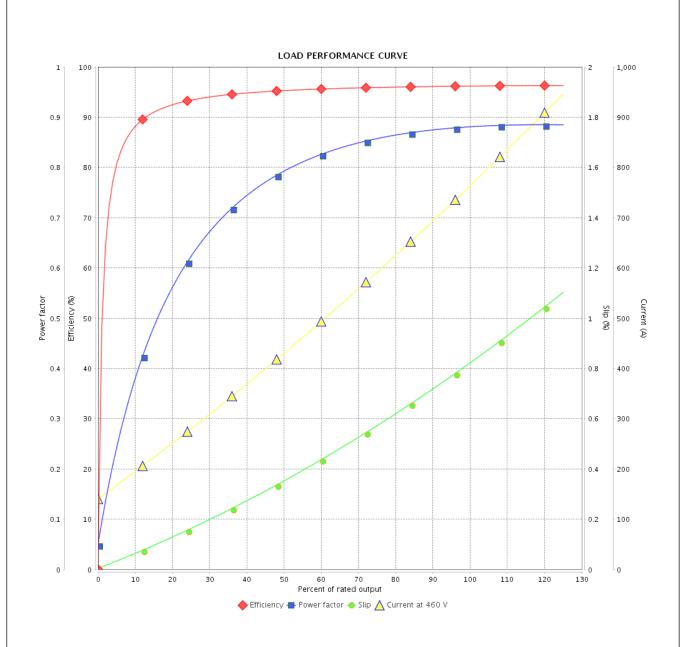
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13821179

Catalog #: 70036OT3Q5010S-W40

: 78.5 sq.ft.lb



Performance : 460 V 60 Hz 2P

Rated current : 764 A Moment of inertia (J)

LRC : 6.8 Duty cycle : Cont.(S1) : 1030 ft.lb Insulation class Rated torque : F Locked rotor torque : 229 % Service factor : 1.15 Breakdown torque : 240 % Temperature rise : 80 K

Rated speed : 3570 rpm

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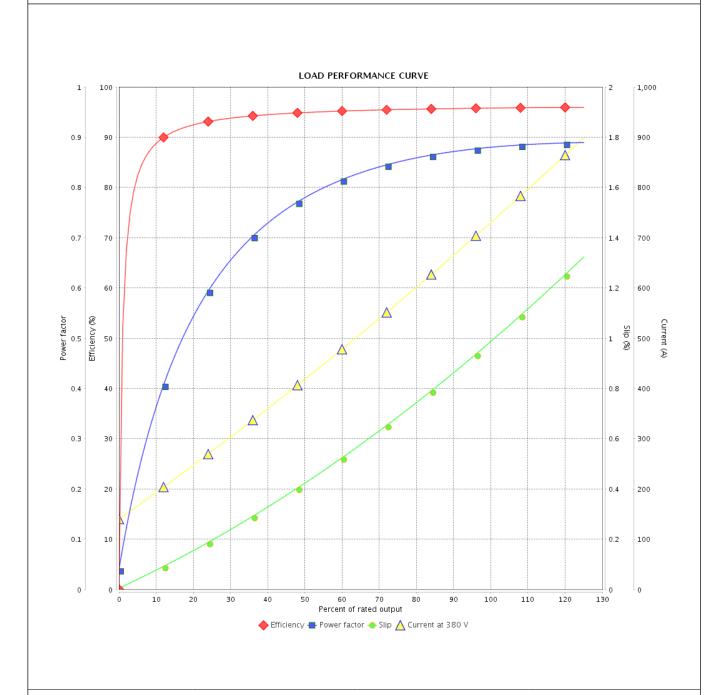
Customer

Product line : W40 NEMA Premium Efficiency Product code : 13821179

Three-Phase

Catalog #: 70036OT3Q5010S-W40

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Performance	: 380 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 78.5 sq.ft.lb : Cont.(S1) : F : 1.15 : 105 K	
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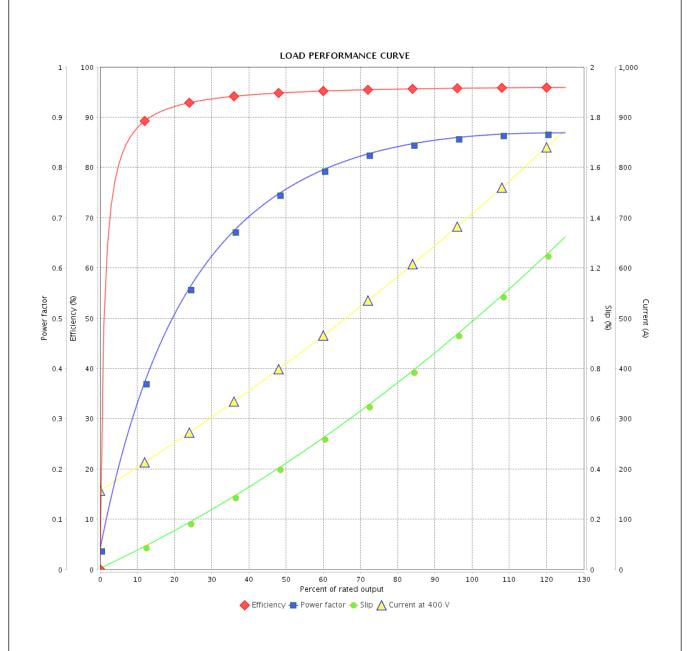
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Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13821179

Catalog #: 70036OT3Q5010S-W40



D (400 \ / 50 \ \ . OD \ 5				
Performance		: 400 V 50 Hz 2P IE1	1			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 701 A : 7.7 : 972 ft.lb : 250 % : 250 % : 2970 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) : 78.5 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.15 Temperature rise : 105 K		
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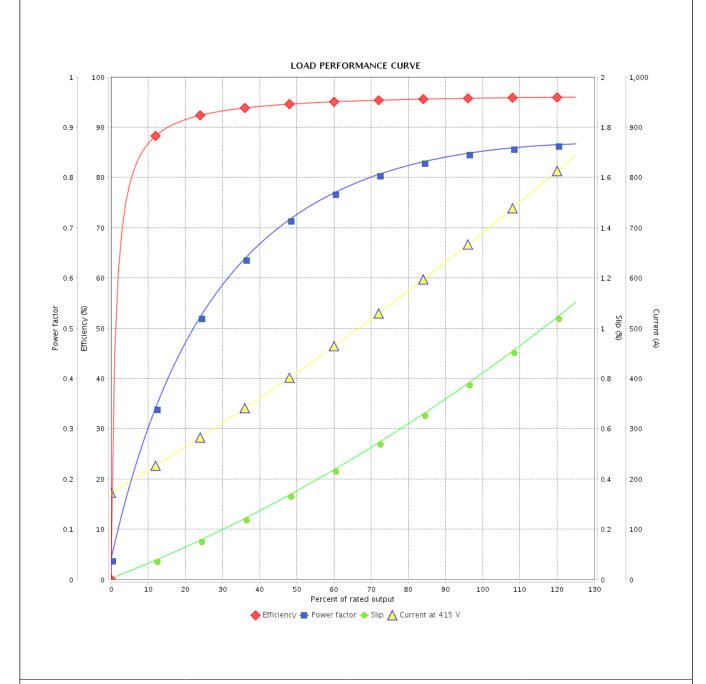


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Product line : W40 NEMA Premium Efficiency Product code : 13821179

Three-Phase

Catalog #: 70036OT3Q5010S-W40



Performance	: 4	: 415 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 8. : 9 : 20 : 20	33 A 4 71 ft.lb 80 % 60 % 975 rpm	Moment o Duty cycle Insulation Service fa Temperatu	class ctor	: 78.5 sq.ft.lb : Cont.(S1) : F : 1.15 : 105 K	
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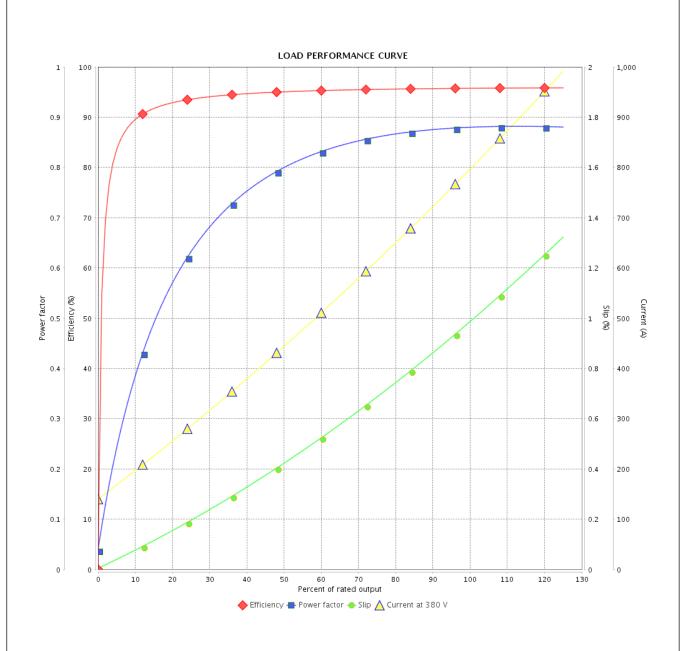
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13821179

Catalog #: 70036OT3Q5010S-W40



Performance : 380 V 50 Hz 2P IE3 : 793 A Rated current Moment of inertia (J) : 78.5 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) : 1060 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 105 K Rated speed : 2970 rpm

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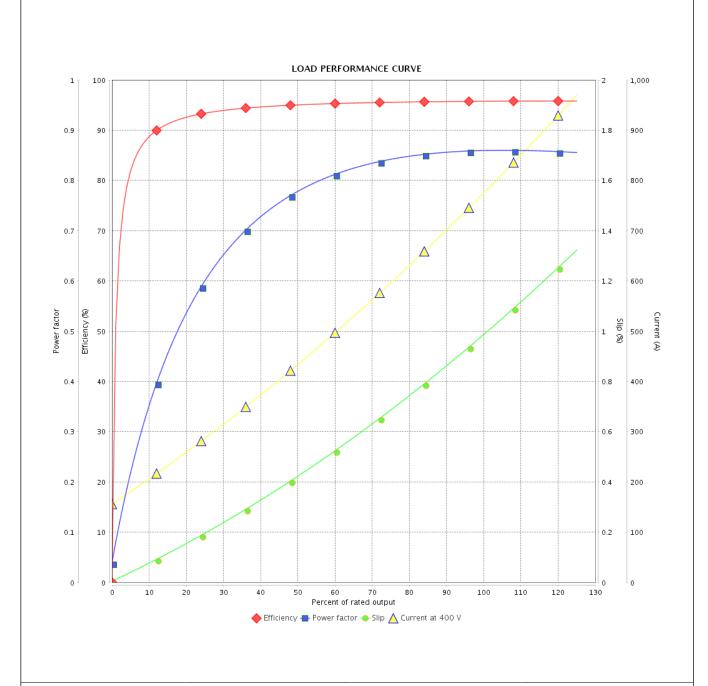
Customer

Product line : W40 NEMA Premium Efficiency Product code : 13821179

Three-Phase

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Performance	: 400 V 50 Hz 2P IE3				
Rated current	: 771 A	Moment of	inertia (J)	: 78.5 sq.ft.lb	
LRC	: 7.1	Duty cycle		: Cont.(S1)	
Rated torque	: 1060 ft.lb	Insulation c	lass	: F	
Locked rotor torque	: 229 %	Service fact	Service factor : 1.00 Temperature rise : 105 K		
Breakdown torque	: 229 %	Temperatur			
Rated speed	: 2970 rpm	·			
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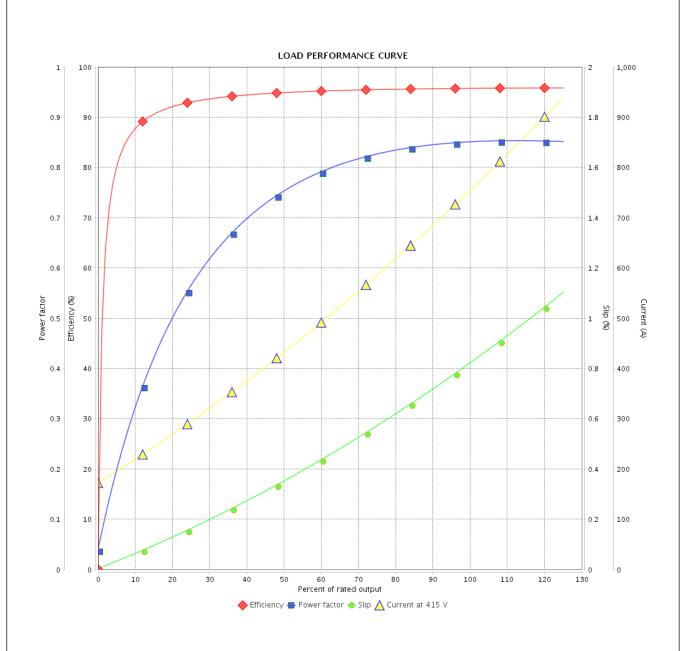
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13821179

Catalog #: 70036OT3Q5010S-W40



Performance : 415 V 50 Hz 2P IE3 : 752 A Rated current Moment of inertia (J) : 78.5 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) : 1060 ft.lb Insulation class Rated torque : F Locked rotor torque : 250 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 105 K Rated speed : 2975 rpm

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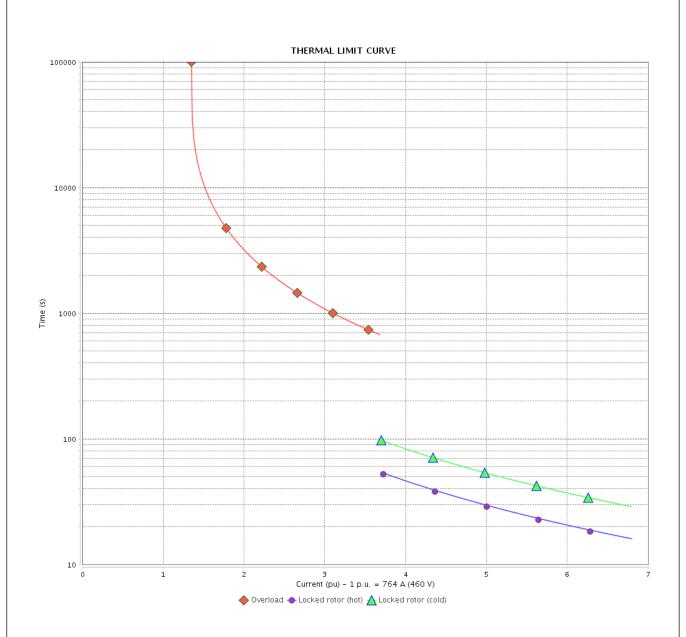


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Product line	T	W40 NEMA Premium Effic hree-Phase		Product code :	13821179	
				Catalog # :	70036OT3Q	5010S-W40
. .		201/0011 05				
Performance Rated current		60 V 60 Hz 2P 64 A	Moment	finartia (I)	· 79 5 ag ft lb	
LRC	: 6		Duty cycle	of inertia (J)	: 78.5 sq.ft.lb : Cont.(S1)	
Rated torque		030 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown tord	que : 2: ue : 2:	29 % 40 %	Service fa Temperati		: 1.15 : 80 K	
Rated speed		570 rpm				
Heating constan	t					
Cooling constan						
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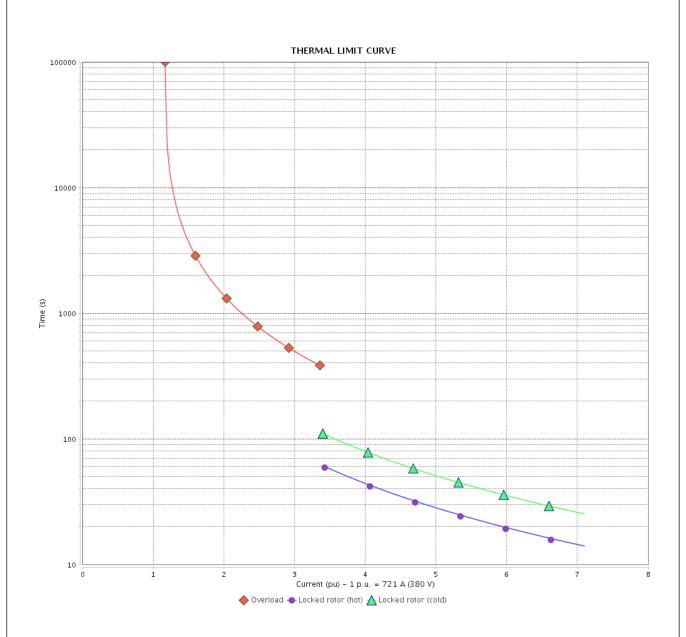


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Product line	. 1	W40 NEMA Premium Effic	iency	Product code :	13821179	
Product line	T	hree-Phase				
				Catalog # :	70036OT3Q	5010S-W40
Performance		80 V 50 Hz 2P IE1	N4	f:t:- (1)	. 70 5 # 11-	
Rated current LRC	: 72	21 A .1	Duty cycle	of inertia (J)	: 78.5 sq.ft.lb : Cont.(S1)	
Rated torque	: 9'	72 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu	que : 2:	29 % 40 %	Service fa Temperati		: 1.15 : 105 K	
Rated speed		970 rpm	Temperati	ure rise	. 105 K	
Heating constan	 t					
Cooling constan						
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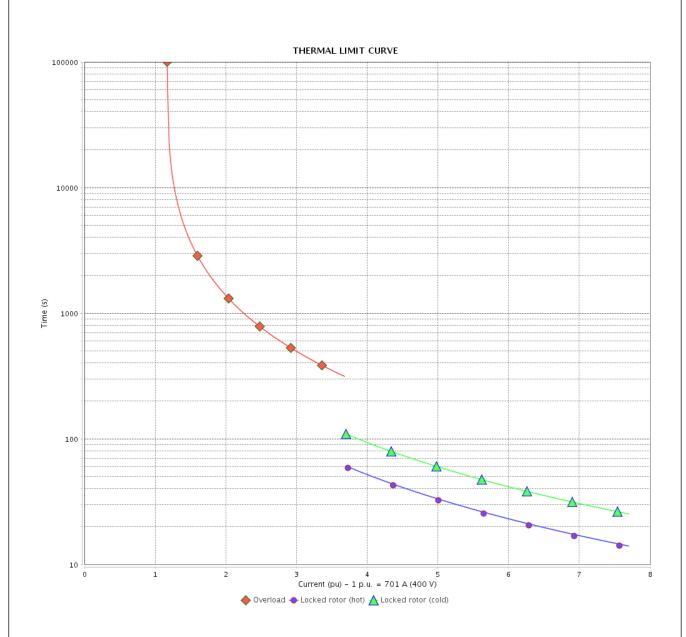


Product line	: N	W40 NEMA Premium Efficance-Phase	ciency	Product code : Catalog # :	13821179 70036OT3Q	5010S-W40
		TOO THOSE		Catalog #:	70036OT3Q	5010S-W40
Performance Rated current .RC Rated torque .ocked rotor torque Breakdown torque Rated speed	: 70 : 7. : 97 ue : 25 e : 25 : 29	00 V 50 Hz 2P IE1 01 A 7 72 ft.lb 50 % 60 %	Moment of Duty cycle Insulation Service for Temperat	n class actor	: 78.5 sq.ft.lb : Cont.(S1) : F : 1.15 : 105 K	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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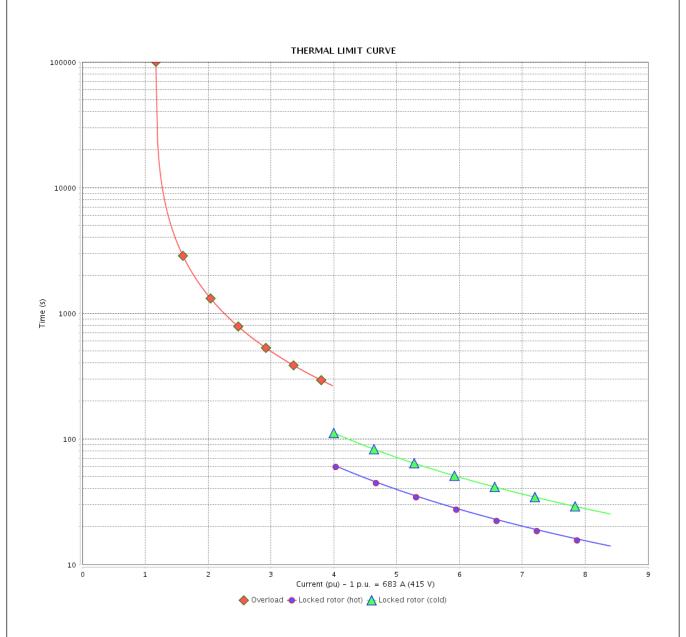


Rated torque : 971 ft.lb Insulation class : F cocked rotor torque : 280 % Service factor : 1.15 Breakdown torque : 260 % Temperature rise : 105 K Rated speed : 2975 rpm	Customer	:					
Three-Phase Catalog # : 700360T3Q5010S-W40	Duaduat line	.,	IA/AO NICNA Dramaiuma Cffia		Draduat and a	42024470	
Performance : 415 V 50 Hz 2P IE1 talted current : 683 A	Product line	T	w40 NEMA Premium Emc hree-Phase				
Rated current : 683 A					Catalog # :	70036OT3Q	5010S-W40
Rated current : 683 A							
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Rated current : 683 A							
Rated current : 683 A	D. (45.7.50.11. 00.154				
RC : 8.4 Duty cycle : Cont.(\$1) Rated torque : 971 ft.lb Insulation class : F ocked rotor torque : 280 % Service factor : 1.15 Breakdown torque : 260 % Temperature rise : 105 K Rated speed : 2975 rpm Reating constant Cooling constant Rev. Changes Summary Performed Checked Date Performed by Checked by Page Revision				Moment	f inortia (I)	· 79 5 cg ft lb	
Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 105 K Rated speed : 2975 rpm Heating constant Cooling constant Rev. Changes Summary Performed Checked Date Performed by Checked by Page Revision	LRC	: 8	.4	Duty cycle	9	: Cont.(S1)	
Reakdown torque : 260 % Temperature rise : 105 K Rated speed : 2975 rpm Reating constant Cooling constant Rev. Changes Summary Performed Checked Date Performed by Checked by Page Revision	Rated torque						
Rated speed : 2975 rpm Heating constant Cooling constant Rev. Changes Summary Performed Checked Date Performed by Checked by Page Revision	Breakdown torqi	ie : 20					
Rev. Changes Summary Performed Checked Date Performed by Checked by Page Revision	Rated speed						
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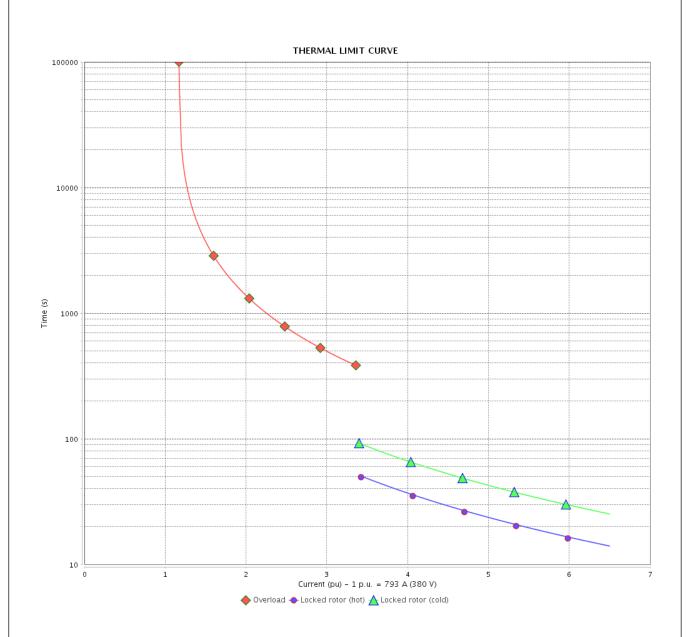


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Product line	- 1	MAO NEMA Dromitima Effici	ionov.	Draduct and :	12024470	
Product line	: ` T	W40 NEMA Premium Effic hree-Phase		Product code :	13821179	
				Catalog # :	70036OT3Q	5010S-W40
Performance		80 V 50 Hz 2P IE3				
Rated current LRC	: 79 : 6	93 A .5	Moment of Duty cycle	of inertia (J)	: 78.5 sq.ft.lb : Cont.(S1)	
Rated torque	: 10	060 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown tord	que : 2:	20 % 20 %	Service fa		: 1.00 : 105 K	
Rated speed		970 rpm	remperati	uie lise	. 105 K	
Heating constan						
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



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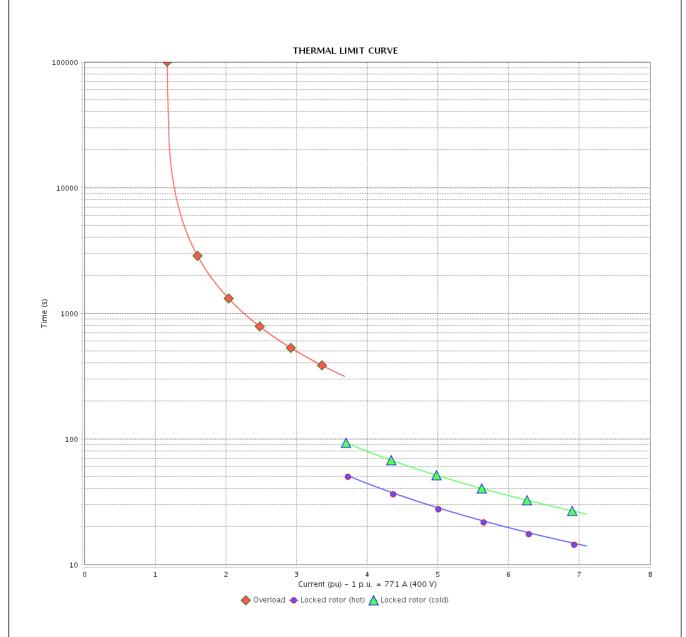


Customer	:					
Product line	- 1	MAO NEMA Drossium Effi-	ionov	Draduct and :	12024470	
Product line	: ` T	W40 NEMA Premium Effic hree-Phase		Product code :	13821179	
				Catalog # :	70036OT3Q	5010S-W40
Performance		00 V 50 Hz 2P IE3 71 A	Moment	of inactio (I)	. 70 E og filb	
Rated current LRC	: 7		Duty cycle	of inertia (J) e	: 78.5 sq.ft.lb : Cont.(S1)	
Rated torque		060 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown tord	que : 23 ue : 23	29 % 29 %	Service fa Temperat		: 1.00 : 105 K	
Rated speed		970 rpm	Tomporat	aro 1100	. 100 11	
Heating constan	t					
Cooling constan						
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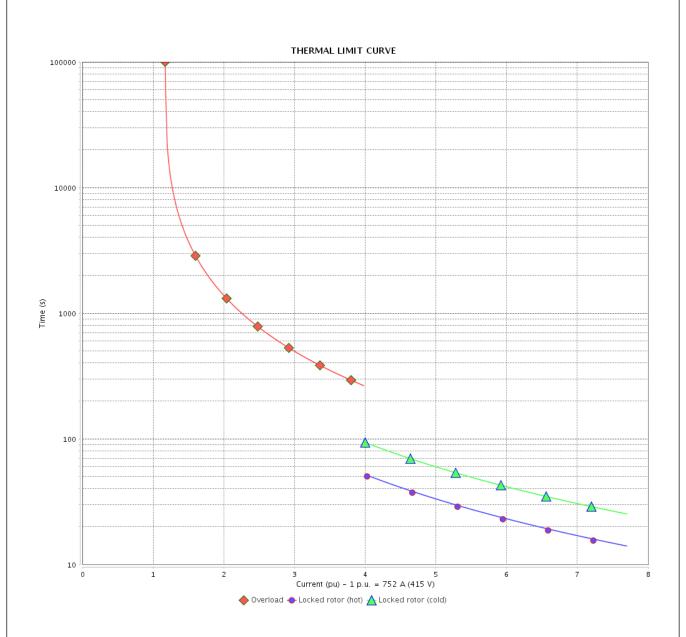


Customer	:					
Product line	- 1	MAO NEMA Dropsium Effi-	iono:	Droduct and :	12024470	
Product line	: T	W40 NEMA Premium Effic hree-Phase	siency	Product code :	13821179	
				Catalog # :	70036OT3Q	5010S-W40
Performance		15 V 50 Hz 2P IE3	T.,	5 : (: ()	70.5 6.11	
Rated current LRC	: 7: : 7	52 A .7	Moment o	of inertia (J)	: 78.5 sq.ft.lb : Cont.(S1)	
Rated torque	: 1	060 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown tord		50 % 40 %	Service fa Temperati		: 1.00 : 105 K	
Rated speed		975 rpm	Temperati	are rise	. 105 K	
Heating constan						
Cooling constan						
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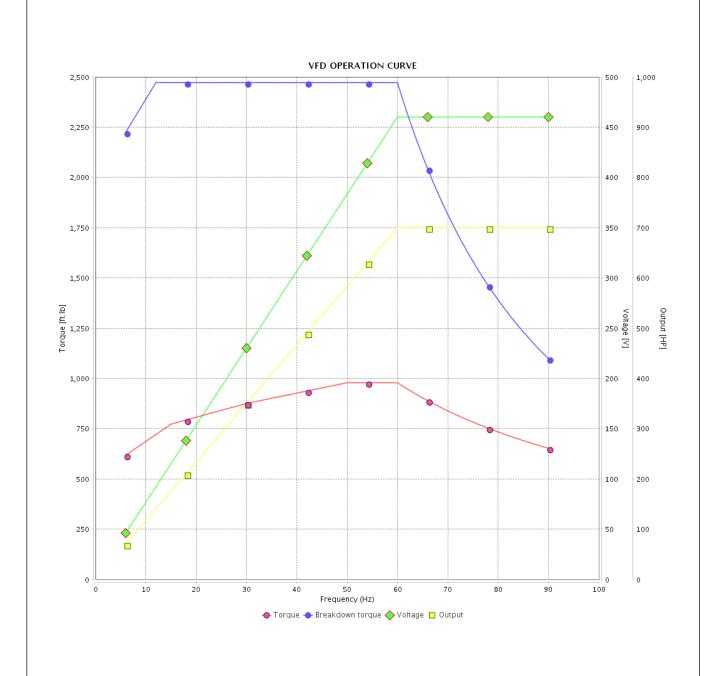
Customer

Product line : W40 NEMA Premium Efficiency Product of

Three-Phase

Product code: 13821179

Catalog #: 70036OT3Q5010S-W40



 Performance
 : 460 V 60 Hz 2P

 Rated current
 : 764 A
 Moment of inertia (J)
 : 78.5 sq.ft.lb

 LRC
 : 6.8
 Duty cycle
 : Cont.(S1)

 Rated torque
 : 1030 ft.lb
 Insulation class
 : F

Locked rotrque : 229 % Service factor : 1.15

Breakdown torque : 240 % Temperature rise : 80 K

Rated speed : 3570 rpm

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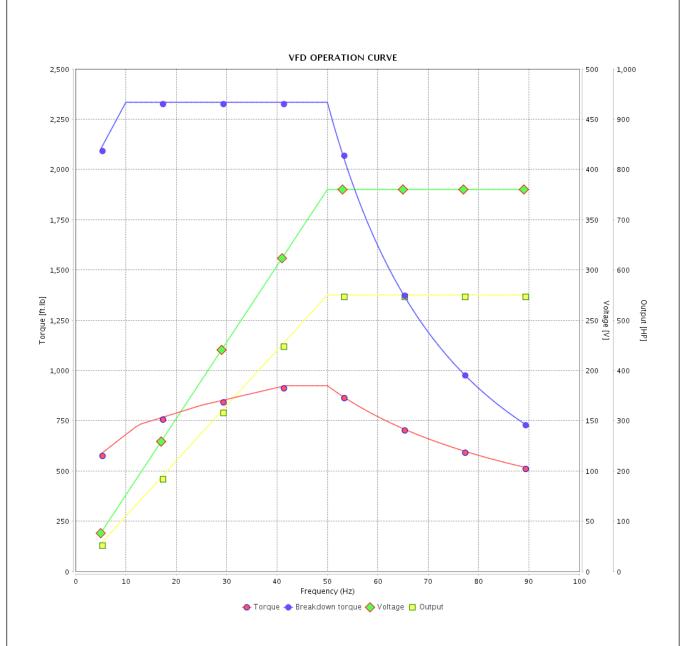
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13821179

Catalog #: 70036OT3Q5010S-W40



Performance : 380 V 50 Hz 2P IE1

Rated current : 721 A Moment of inertia (J) : 78.5 sq.ft.lb LRC : 7.1 Duty cycle : Cont.(S1)

Rated torque : 972 ft.lb Insulation class : F
Locked rotor torque : 229 % Service factor : 1.15
Breakdown torque : 240 % Temperature rise : 105 K

Rated speed : 2970 rpm

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Customer

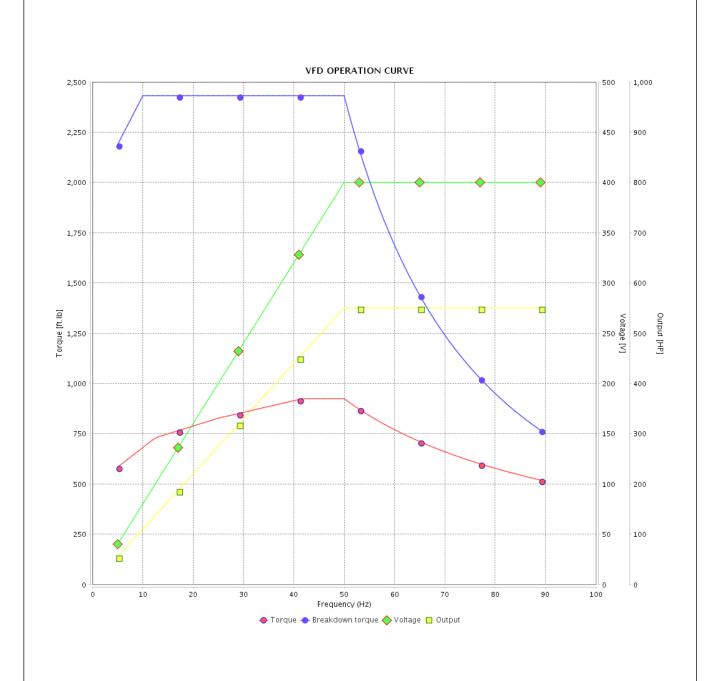
Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Catalog #: 70036OT3Q5010S-W40

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Performance	: 400 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 701 A : 7.7 : 972 ft.lb : 250 % : 250 % : 2970 rpm	Moment o Duty cycle Insulation Service fa Temperatu	class ctor	: 78.5 sq.ft.lb : Cont.(S1) : F : 1.15 : 105 K	
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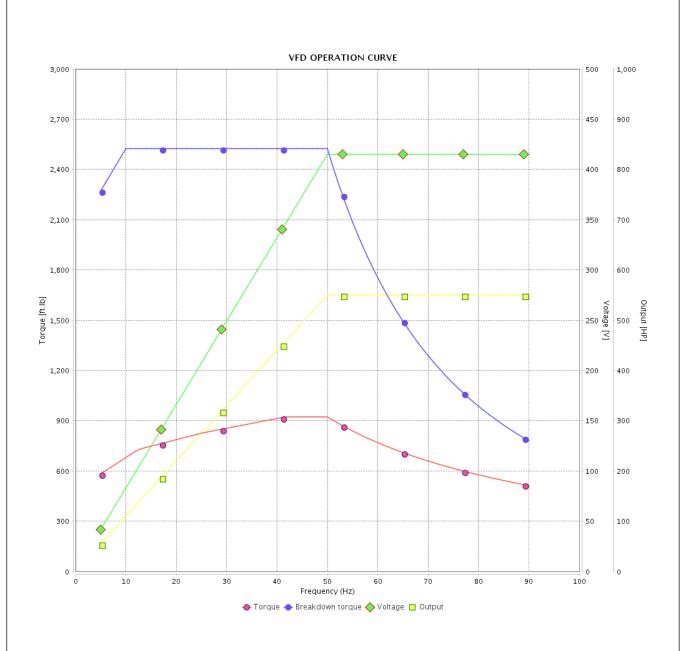
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13821179

Catalog #: 70036OT3Q5010S-W40



Performance : 415 V 50 Hz 2P IE1

Rated current : 683 A Moment of inertia (J) : 78.5 sq.ft.lb LRC : 8.4 Duty cycle : Cont.(S1)

Rated torque : 971 ft.lb Insulation class : F
Locked rotor torque : 280 % Service factor : 1.15
Breakdown torque : 260 % Temperature rise : 105 K

Rated speed : 2975 rpm

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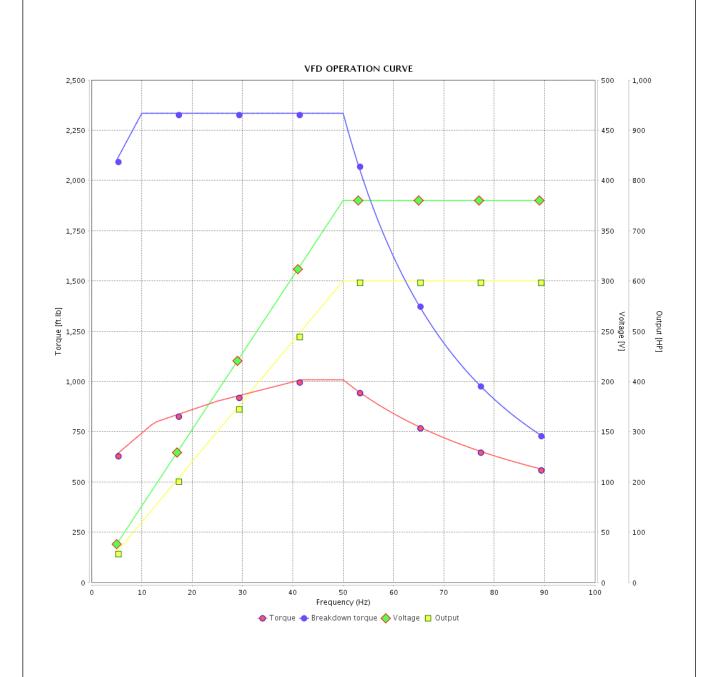


Customer

Product line : W40 NEMA Premium Efficiency Product code : 13821179

Three-Phase

Catalog #: 70036OT3Q5010S-W40



Performance : 380 V 50 Hz 2P IE3 : 793 A Rated current Moment of inertia (J) : 78.5 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) : 1060 ft.lb Insulation class : F Rated torque Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 105 K Rated speed : 2970 rpm

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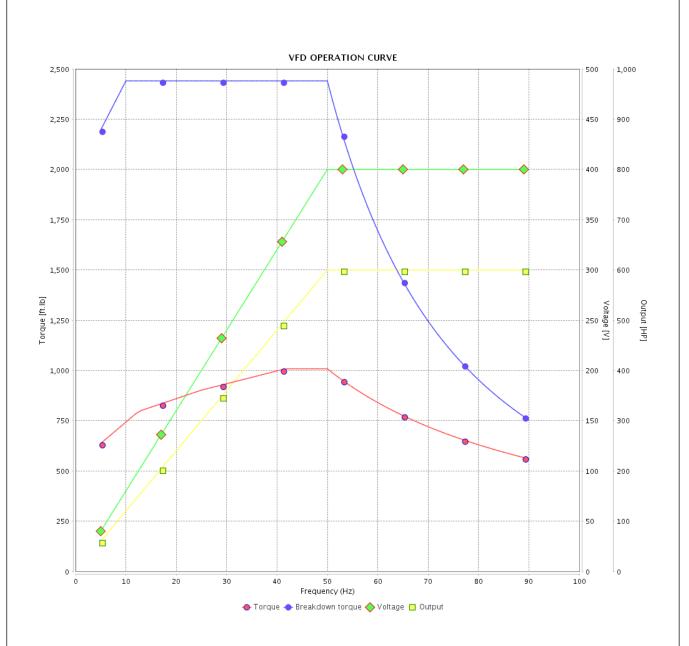
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13821179

Catalog #: 70036OT3Q5010S-W40



Performance : 400 V 50 Hz 2P IE3

Rated current : 771 A Moment of inertia (J) : 78.5 sq.ft.lb LRC : 7.1 Duty cycle : Cont.(S1)

Rated torque : 1060 ft.lb Insulation class : F
Locked rotor torque : 229 % Service factor : 1.00
Breakdown torque : 229 % Temperature rise : 105 K

Rated speed : 2970 rpm

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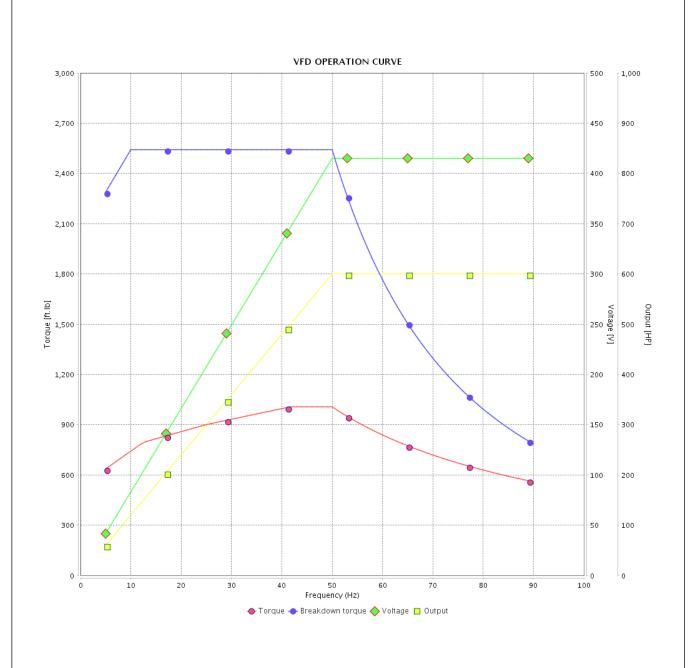
Customer

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Catalog #: 70036OT3Q5010S-W40

13821179



Performance		: 415 V 50 Hz 2P IE3				
Rated current LRC		: 752 A : 7.7	1	Moment of inertia (J) Duty cycle		
Rated torque Locked rotor tord	que	: 1060 ft.lb : 250 %	Insulation Service fa	class	: Cont.(S1) : F : 1.00	
Breakdown torque : 240 % Rated speed : 2975 rpm		. =	Temperatu	ure rise	: 105 K	
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