DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Product code: 13621556

Three-Phase

55036OT3G447/9TS-W40 Catalog #:

Frame : 447/9TS Cooling method : IC01 - ODP

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

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

Altitude		: 1000 m.a.s	s.l.	Approx	k. weight³	: 2	284 lb	
Protection degree	е	: IP23		Mome	Moment of inertia (J)		0.3 sq.ft.lb	
Output [HP]		550	450	450	450	500	500	500
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]		580	582	552	538	655	619	604
L. R. Amperes [A]		4176	3899	4085	4412	3930	4147	4470
LRC [A]		7.2x(Code G)	6.7x(Code G)	7.4x(Code G)	8.2x(Code H)	6.0x(Code F)	6.7x(Code G)	7.4x(Code H)
No load current [A]]	122	120	135	145	120	135	145
Rated speed [RPN	1]	3565	2965	2970	2970	2960	2965	2965
Slip [%]		0.97	1.17	1.00	1.00	1.33	1.17	1.17
Rated torque [ft.lb]		810	797	796	796	887	886	886
Locked rotor torqu	e [%]	200	200	220	240	180	200	220
Breakdown torque	[%]	250	240	270	280	220	240	250
Service factor		1.15	1.15	1.15	1.15	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		25s (cold)	21s (cold)	21s (cold)	21s (cold)	21s (cold)	21s (cold)	21s (cold)
		14s (hot)	12s (hot)	12s (hot)	12s (hot)	12s (hot)	12s (hot)	12s (hot)
Noise level ²		87.0 dB(A)						
	25%	95.7	93.7	93.6	93.6	94.5	94.2	94.2
Efficiency (%)	50%	95.8	94.5	94.3	94.3	95.0	95.0	95.0
Lincichoy (70)	75%	96.2	95.1	95.2	95.2	95.0	95.0	95.0
	100%	96.2	95.8	95.8	95.8	95.4	95.8	95.8
	25%	0.63	0.62	0.58	0.56	0.66	0.62	0.60
Power Factor	50%	0.84	0.82	0.80	0.79	0.85	0.83	0.82
1 OWEL FACIOI	75%	0.89	0.89	0.88	0.87	0.89	0.88	0.88
	100%	0.90	0.90	0.90	0.89	0.90	0.90	0.89

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

: 4760 lb Sealing Without Without Max. compression : 7044 lb

Bearing Seal Bearing Seal 14418 h 14418 h Lubrication interval 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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Customer	

Thermal protection

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

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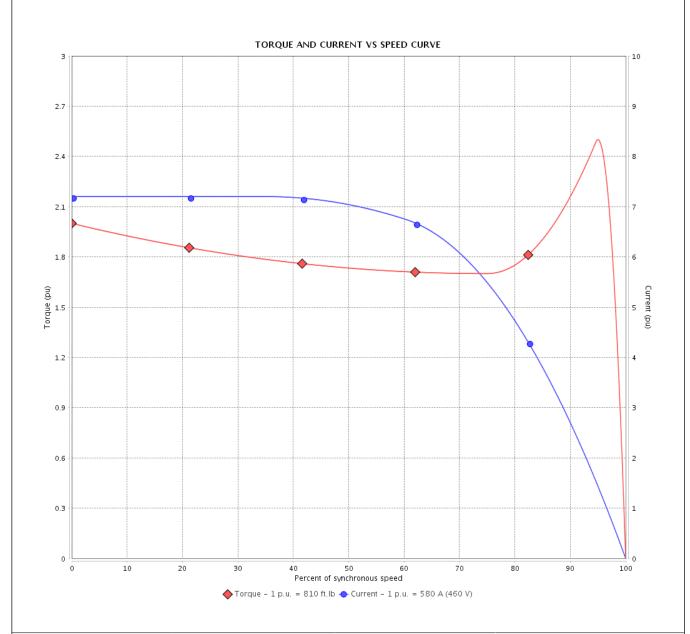
Customer :

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

roduct code: 13621556

Catalog #: 55036OT3G447/9TS-W40



Performance	: 460 V 60 Hz 2P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 580 A : 7.2 : 810 ft.lb : 200 % : 250 % : 3565 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise	: 50.3 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K	
Looked reter time	: 25s (sold) 14s (hot)			

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Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency

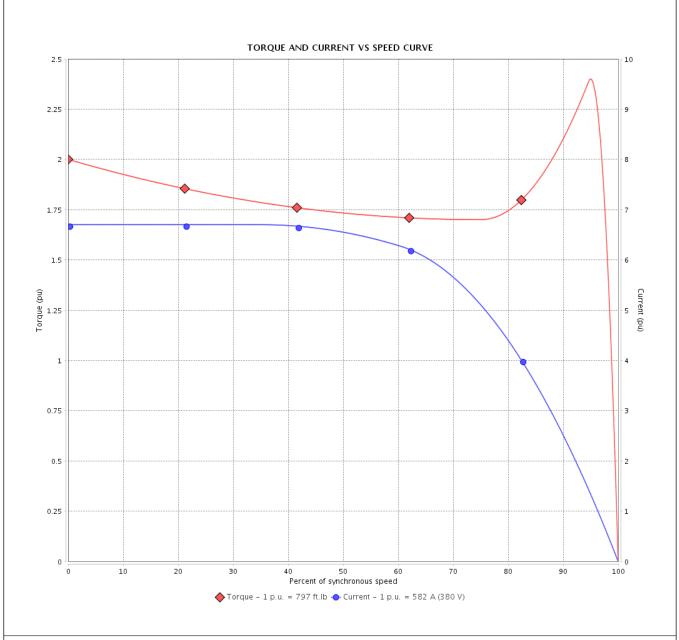
Three-Phase

Product code: 13621556

Catalog #: 55036OT3G447/9TS-W40

: 50.3 sq.ft.lb

: Cont.(S1)



Performance : 380 V 50 Hz 2P IE3 Rated current : 582 A Moment of inertia (J) **LRC** : 6.7 Duty cycle : 797 ft.lb Insulation class Rated torque

: 2965 rpm

: F Service factor Locked rotor torque : 200 % : 1.15 Breakdown torque : 240 % Temperature rise : 105 K Rated speed

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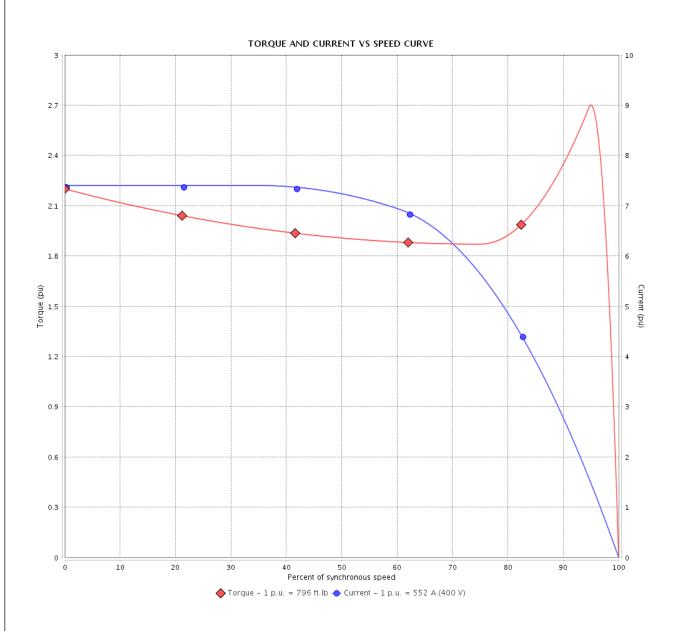
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13621556

Catalog #: 55036OT3G447/9TS-W40



Performance	: 400 V 50 Hz 2P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 552 A : 7.4 : 796 ft.lb : 220 % : 270 % : 2970 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise	: 50.3 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: 13621556

Catalog # : 55036OT3G447/9TS-W40

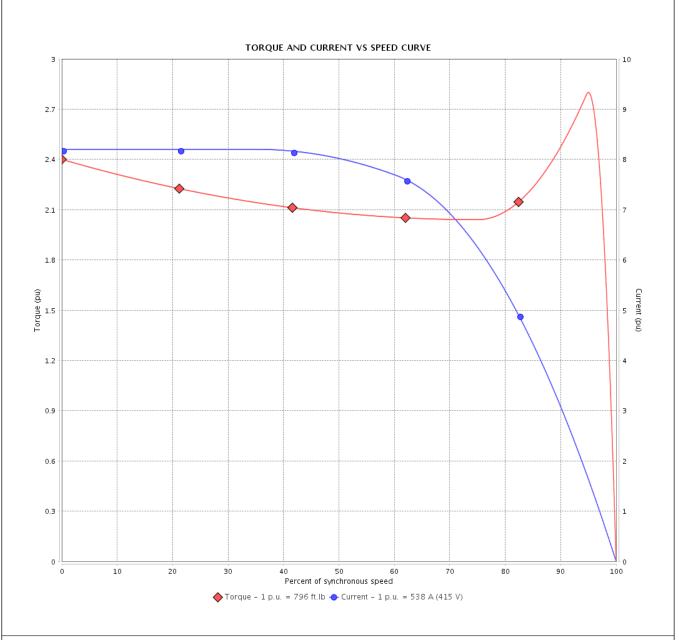
: 50.3 sq.ft.lb

: Cont.(S1)

: F

: 1.15

: 80 K



Performance : 415 V 50 Hz 2P IE3

Rated current : 538 A Moment of inertia (J)
LRC : 8.2 Duty cycle
Rated torque : 796 ft.lb Insulation class
Locked rotor torque : 240 % Service factor

Breakdown torque : 280 % Temperature rise
Rated speed : 2970 rpm

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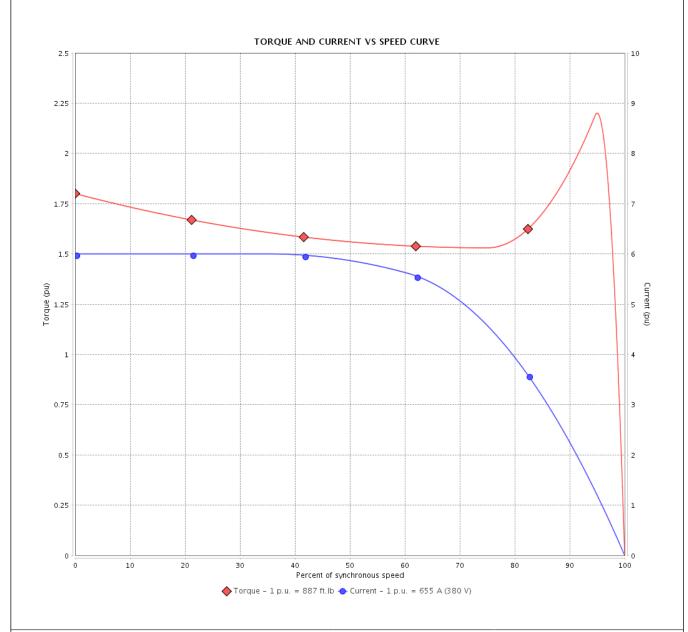
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13621556

Catalog #: 55036OT3G447/9TS-W40



Performance : 380 V 50 Hz 2P IE2 Rated current : 655 A Moment of inertia (J) : 50.3 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) : 887 ft.lb Insulation class Rated torque : F Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 105 K Rated speed : 2960 rpm

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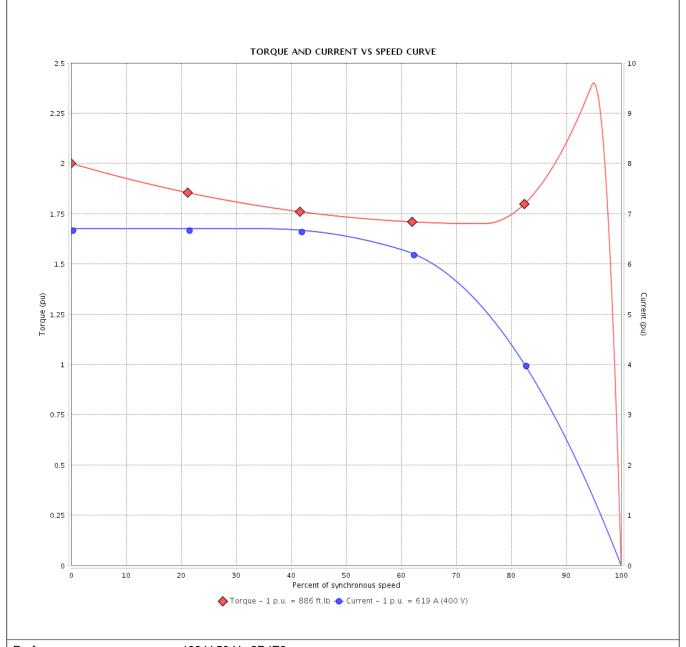
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13621556

Catalog #: 55036OT3G447/9TS-W40



Performance : 400 V 50 Hz 2P IE3 Rated current : 619 A Moment of inertia (J) : 50.3 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1)

: 886 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 200 % : 1.00 Breakdown torque : 240 % Temperature rise : 105 K Rated speed

Locked rotor time : 21s (cold) 12s (hot)

: 2965 rpm

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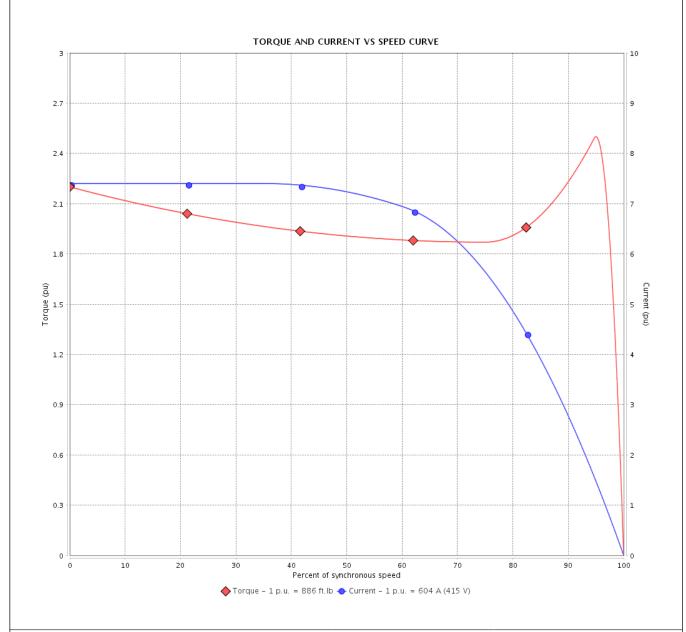
Customer :

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

roduct code: 13621556

Catalog #: 55036OT3G447/9TS-W40



Performance : 415 V 50 Hz 2P IE3 Rated current : 604 A Moment of inertia (J) : 50.3 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 886 ft.lb Insulation class Rated torque : F : 220 % Locked rotor torque Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 105 K Rated speed : 2965 rpm

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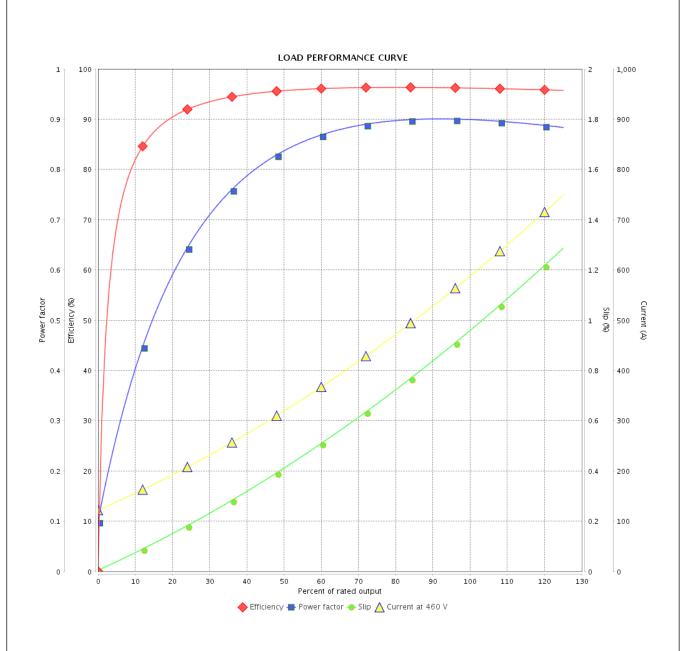
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13621556

Catalog #: 55036OT3G447/9TS-W40



Performance : 460 V 60 Hz 2P Rated current : 580 A Moment of inertia (J) : 50.3 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) : 810 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 3565 rpm Changes Summary Rev. Checked Date Performed

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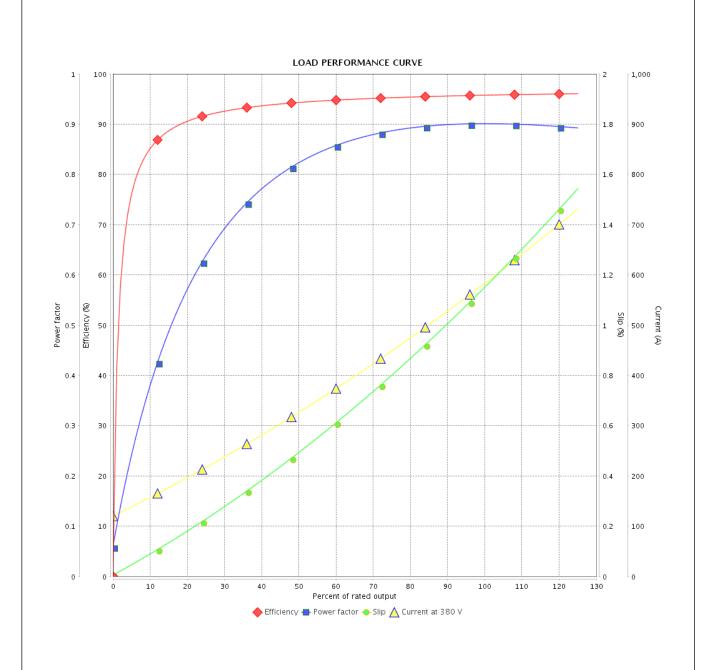
Customer

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Product code: 13621556

Catalog #: 55036OT3G447/9TS-W40



Performance	: 380 V	50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	.lb	Moment of Duty cycle Insulation Service fa Temperate	class ctor	: 50.3 sq.ft.lb : Cont.(S1) : F : 1.15 : 105 K	
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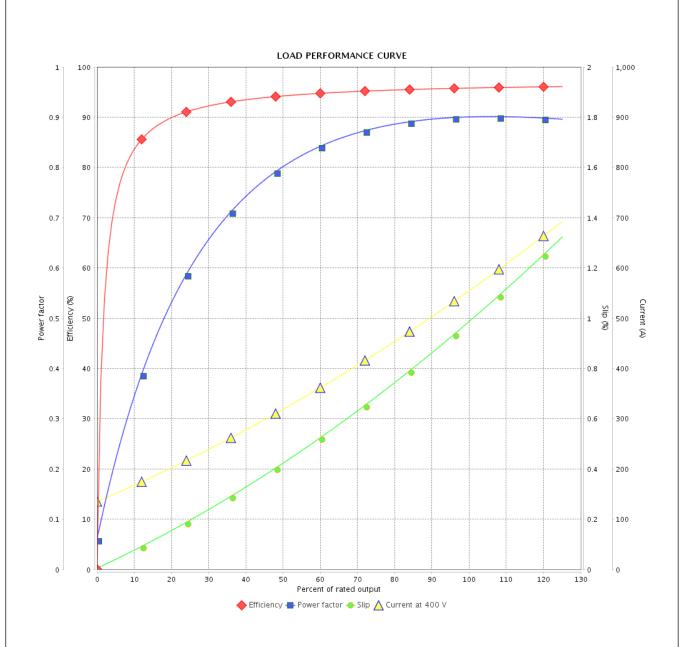
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13621556

Catalog #: 55036OT3G447/9TS-W40



Performance : 400 V 50 Hz 2P IE3

Rated current : 552 A
LRC : 7.4
Rated torque : 796 ft.lb
Locked rotor torque : 220 %
Breakdown torque : 270 %

Moment of inertia (J) : 50.3 sq.ft.lb

Duty cycle : Cont.(S1)

Insulation class : F
Service factor : 1.15
Temperature rise : 105 K

Rated speed	: 29	970 rpm				
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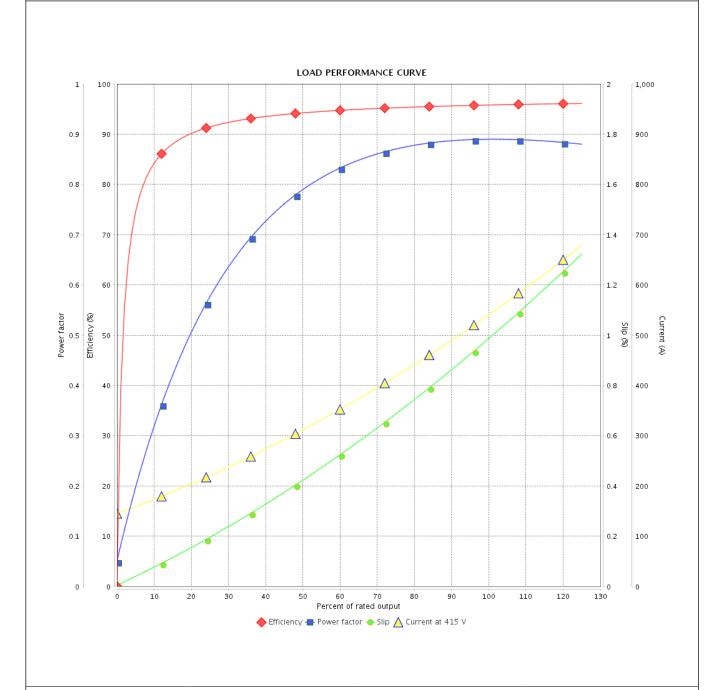


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Product line : W40 NEMA Premium Efficiency Product code : 13621556

Three-Phase

Catalog #: 55036OT3G447/9TS-W40



Performance	: 4	15 V 50 Hz 2P IE3				
Rated current	: 5 : 8	38 A	ı	f inertia (J)	: 50.3 sq.ft.lb	
LRC Rated torque		.∠ 96 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord		40 %	Service fa		. r : 1.15	
Breakdown torqu	ıe : 2	80 %	Temperati	ure rise	: 80 K	
Rated speed	: 2	970 rpm				
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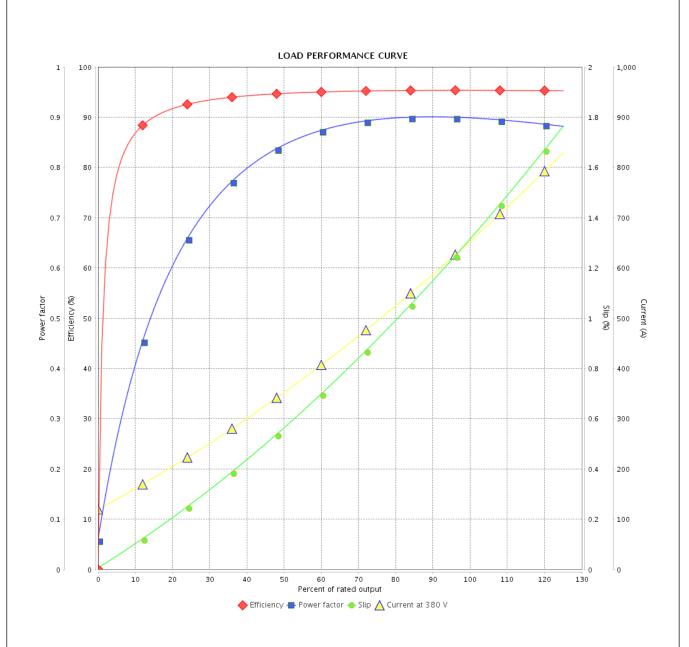
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13621556

Catalog #: 55036OT3G447/9TS-W40



Performance : 380 V 50 Hz 2P IE2 Rated current : 655 A Moment of inertia (J) : 50.3 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) : 887 ft.lb Insulation class Rated torque : F Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 105 K

Rated speed : 2960 rpm

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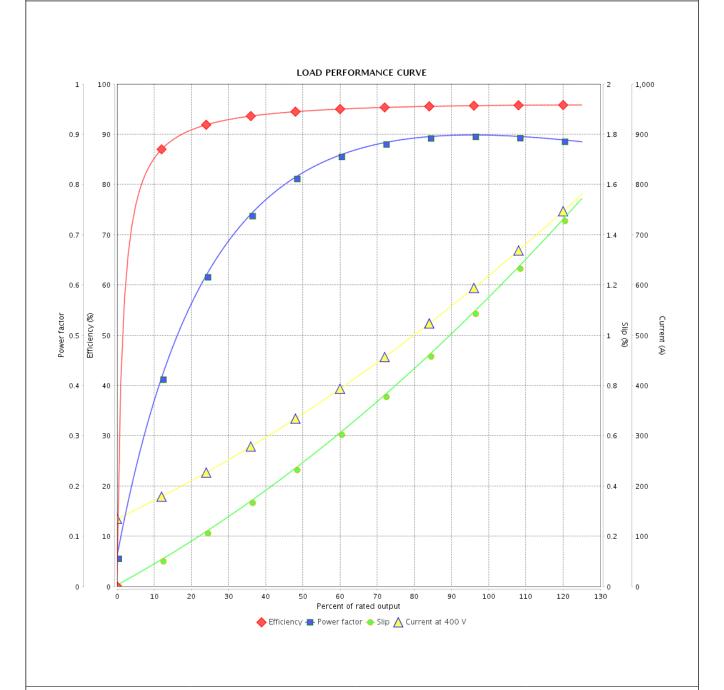
Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Catalog # : 55036OT3G447/9TS-W40

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13621556



Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torqu Breakdown torque Rated speed		Moment of Duty cycle Insulation Service fa	class ctor	: 50.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K	
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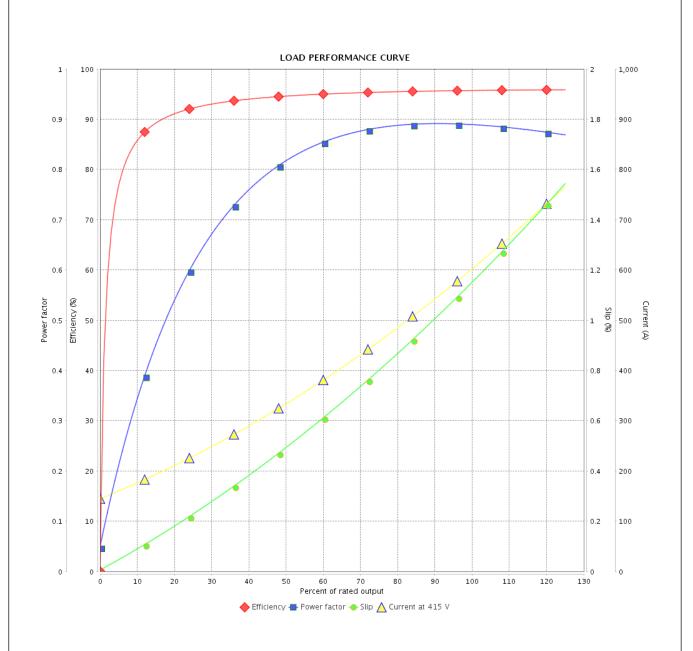
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13621556

Catalog #: 55036OT3G447/9TS-W40



Performance : 415 V 50 Hz 2P IE3 : 604 A Rated current Moment of inertia (J) : 50.3 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 886 ft.lb Insulation class Rated torque : F : 220 % Locked rotor torque Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 105 K : 2965 rpm Rated speed

rated speed	. 2	300 ipiii			
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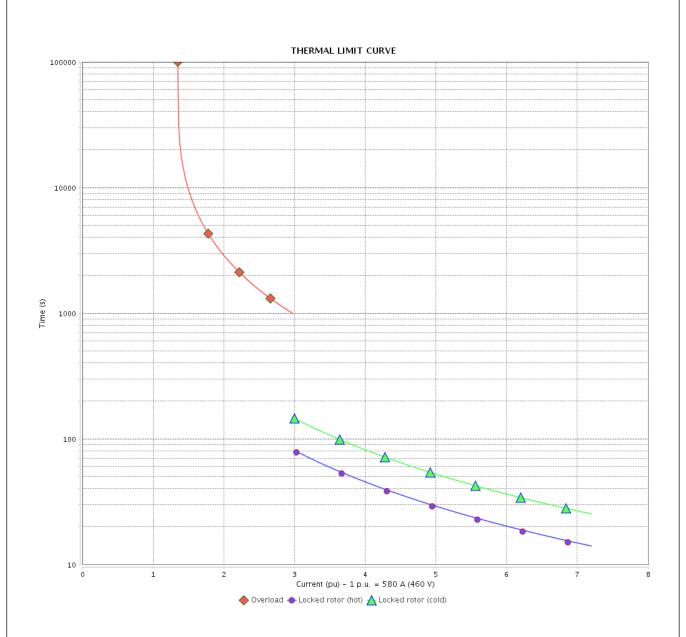


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Product line	: ' T	W40 NEMA Premium Effici hree-Phase	ency	Product code :	13621556	
	·	nice i nace		Catalog # :	55036OT3G	447/9TS-W
erformance		60 V 60 Hz 2P	Moment	of inertia (1)	· 50 2 ca # lb	
ated current RC	: 7		Duty cycle		: 50.3 sq.ft.lb : Cont.(S1)	
ated torque ocked rotor tor		10 ft.lb 00 %	Insulation Service fa		: F : 1.15	
reakdown torqi ated speed	ue : 2	50 % 50 % 565 rpm	Temperat		: 80 K	
eating constan						
ooling constan Rev.	t I	Changes Summary		Dowformed	Ob a also d	
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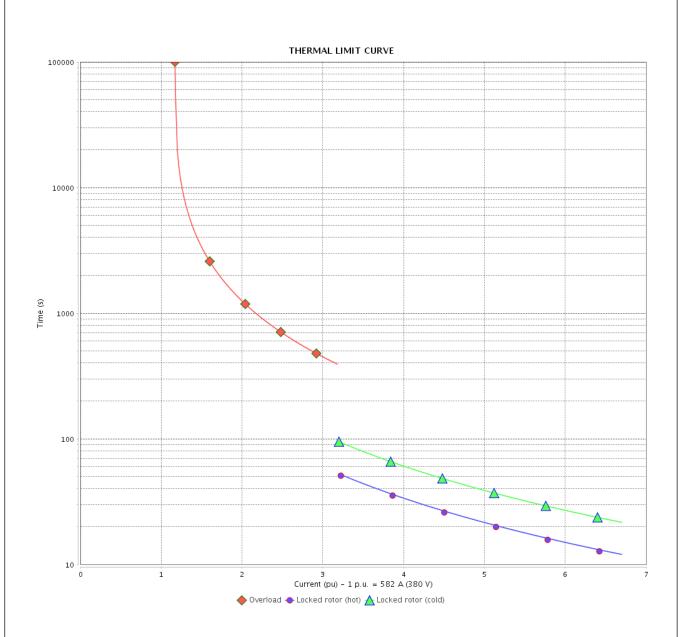


Customer	:					
Product line	<u>:</u>	W40 NEMA Premium Effic	ciency	Product code :	13621556	
		Three I hase		Catalog # :	55036OT3G4	447/9TS-W
erformance ated current		380 V 50 Hz 2P IE3 582 A	Moment o	of inertia (J)	: 50.3 sq.ft.lb	
RC ated torque ocked rotor torq reakdown torqu	: 6 : 7 que : 2 ue : 2	5.7 797 ft.lb 200 % 240 %	Duty cycle Insulation Service fa Temperat	e class actor	: Cont.(S1) : F : 1.15 : 105 K	
ated speed eating constan		2965 rpm				
ooling constan						
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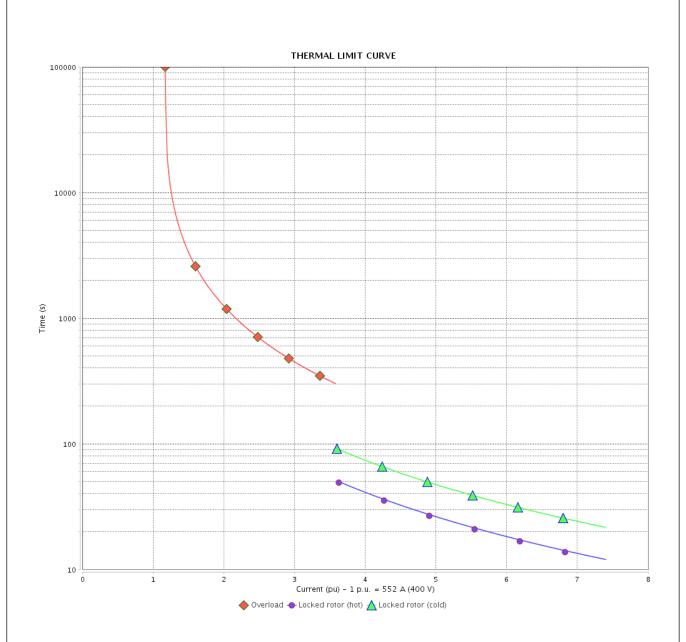


Customer	:					
Product line	- 1	MAO NEMA Dromitte Effici	ionov	Droduct and a	12624550	
Product line	T	W40 NEMA Premium Effici hree-Phase		Product code :	13621556	
				Catalog # :	55036OT3G4	147/9TS-W40
Performance Rated current		00 V 50 Hz 2P IE3 52 A	Moment	f inartia (I)	· 50 2 02 # Ib	
LRC	: 7.		Duty cycle	of inertia (J)	: 50.3 sq.ft.lb : Cont.(S1)	
Rated torque		96 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		20 % 70 %	Service fa Temperati		: 1.15 : 105 K	
Rated speed		970 rpm	Temperati		. 100 10	
Heating constan	t					
Cooling constan						
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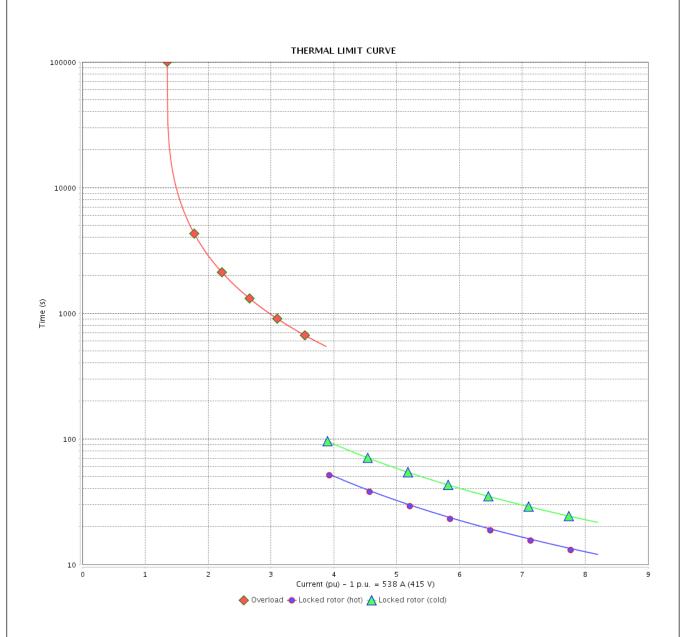


Customer	:					
Product line	: ' T	W40 NEMA Premium Effic hree-Phase	iency	Product code :	13621556	
	•	ince i nasc		Catalog # :	55036OT3G4	47/9TS-W
erformance ated current		15 V 50 Hz 2P IE3 38 A	Moment o	of inertia (J)	: 50.3 sq.ft.lb	
RC	: 8	.2	Duty cycle	е	: Cont.(S1)	
ated torque	. 7	96 ft Ih	Inculation	class	·F	
ocked rotor tor	que : 2	96 ft.lb 40 %	Insulation Service fa	actor	: F : 1.15	
ated torque ocked rotor tord reakdown tord ated speed	que : 24 ue : 2			actor	: F	
ocked rotor tord reakdown tord ated speed eating constan	que : 2 ue : 2 : 2	40 % 80 %	Service fa	actor	: F : 1.15	
ocked rotor tord reakdown tord ated speed eating constan ooling constan	que : 2 ue : 2 : 2	40 % 80 % 970 rpm	Service fa	actor ure rise	: F : 1.15 : 80 K	Data
ocked rotor tord reakdown tord ated speed eating constan	que : 2 ue : 2 : 2	40 % 80 %	Service fa	actor	: F : 1.15	Date
ocked rotor tore reakdown torquated speed eating constan ooling constan Rev.	que : 2 ue : 2 : 2	40 % 80 % 970 rpm	Service fa	actor ure rise	: F : 1.15 : 80 K	Date
ocked rotor tord reakdown tord ated speed eating constan ooling constan	que : 2 ue : 2 : 2	40 % 80 % 970 rpm	Service fa	actor ure rise	: F : 1.15 : 80 K	Date

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Customer :



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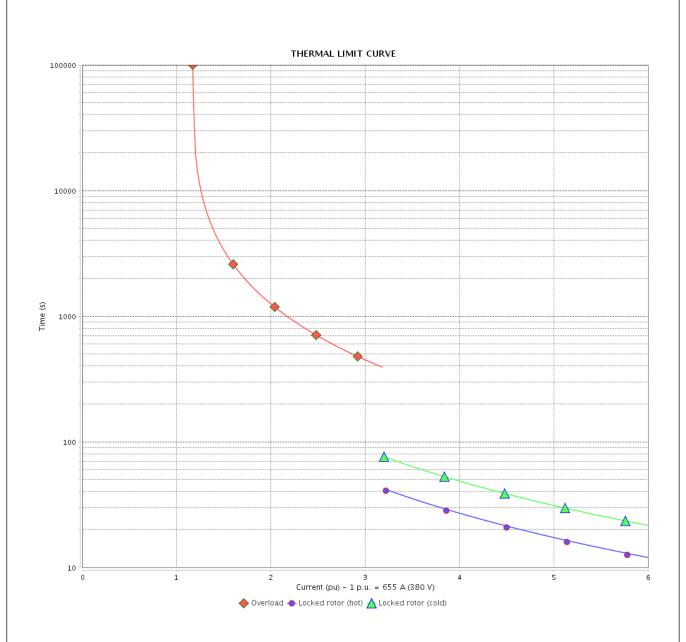


Customer	:					
Product line	: T	W40 NEMA Premium Effic hree-Phase	iency	Product code :	13621556	
		THE THE THE		Catalog # :	55036OT3G	447/9TS-W
erformance	: 3	80 V 50 Hz 2P IE2				
lated current RC lated torque locked rotor tor	: 6 : 8 que : 1	87 ft.lb 80 %	Duty cycle Insulation Service fa	class ictor	: 50.3 sq.ft.lb : Cont.(S1) : F : 1.00	
reakdown torq		20 % 960 rpm	Temperat	ure rise	: 105 K	
leating constant						
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Customer :



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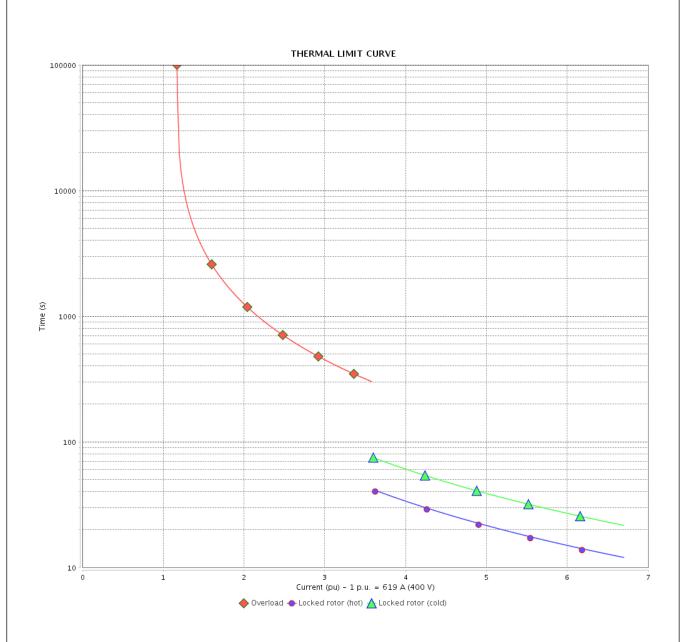


Product line	: '	W40 NEMA Premium Efficie	encv	Product code :	13621556	
	Т	hree-Phase		Catalog # :	55036OT3G4	447/OTC \M/40
				Catalog # .		17/10/10-114
Performance Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar	: 6 : 6 : 8 que : 2 ue : 2 : 2	.7 86 ft.lb 00 %	Moment or Duty cycle Insulation Service fa Temperatu	class ctor	: 50.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K	
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed	: 6 : 6 : 8 que : 2 ue : 2 : 2	19 A .7 86 ft.lb 00 % 40 %	Duty cycle Insulation Service fa	class ctor	: Cont.(S1) : F : 1.00	
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed	: 6 : 6 : 8 que : 2 ue : 2 : 2	19 A .7 86 ft.lb 00 % 40 %	Duty cycle Insulation Service fa	class ctor	: Cont.(S1) : F : 1.00	Date
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar Cooling constar	: 6 : 6 : 8 que : 2 ue : 2 : 2	19 A .7 86 ft.lb 00 % 40 % 965 rpm	Duty cycle Insulation Service fa	class ctor ure rise	: Cont.(S1) : F : 1.00 : 105 K	Date
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar Cooling constar Rev.	: 6 : 6 : 8 que : 2 ue : 2 : 2	19 A .7 86 ft.lb 00 % 40 % 965 rpm	Duty cycle Insulation Service fa	class ctor ure rise	: Cont.(S1) : F : 1.00 : 105 K	Date
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar Cooling constar	: 6 : 6 : 8 que : 2 ue : 2 : 2	19 A .7 86 ft.lb 00 % 40 % 965 rpm	Duty cycle Insulation Service fa	class ctor ure rise	: Cont.(S1) : F : 1.00 : 105 K	Date

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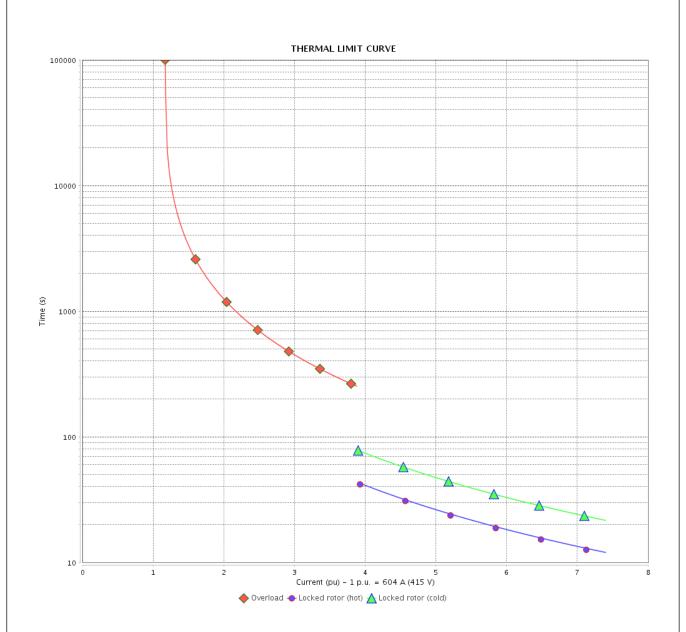


Three-Phase	Product line		W40 NEMA Premium Efficie	encv	Product code :	13621556	
Performance	T Toddot line	-	Three-Phase				147/9TS-W4
ated current : 604 A Moment of inertia (J) : 50.3 sq.ft.lb RC : 7.4 Duty cycle : Cont.(S1) ated torque : 886 ft.lb Insulation class : F ocked rotor torque : 220 % Service factor : 1.00 reakdown torque : 250 % Temperature rise : 105 K eating constant ooling constant							
Duty cycle : Cont.(S1) lated torque : 886 ft.lb Insulation class : F locked rotor torque : 220 % Service factor : 1.00 reakdown torque : 250 % Temperature rise : 105 K leating constant Service factor : 1.00 Servi	ated current			Moment o	f inertia (J)	: 50.3 sq.ft.lb	
ooling constant	ated torque ocked rotor torc reakdown torqu	: 8 gue : 2 ge : 2	886 ft.lb 220 % 250 %	Insulation Service fa	class ctor	: Cont.(S1) : F : 1.00	
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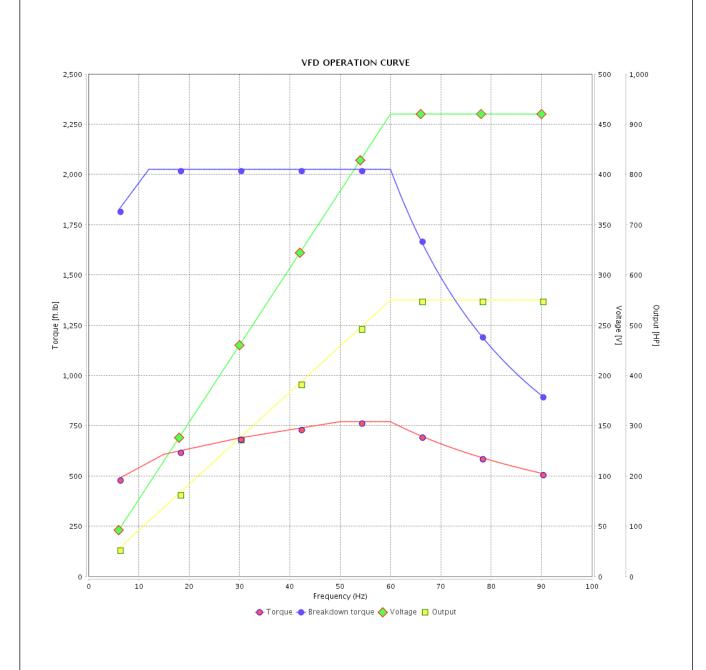
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13621556

Catalog #: 55036OT3G447/9TS-W40



Performance	: 460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Moment of Duty cycle Insulation Service fa Temperate	class ctor	: 50.3 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K	
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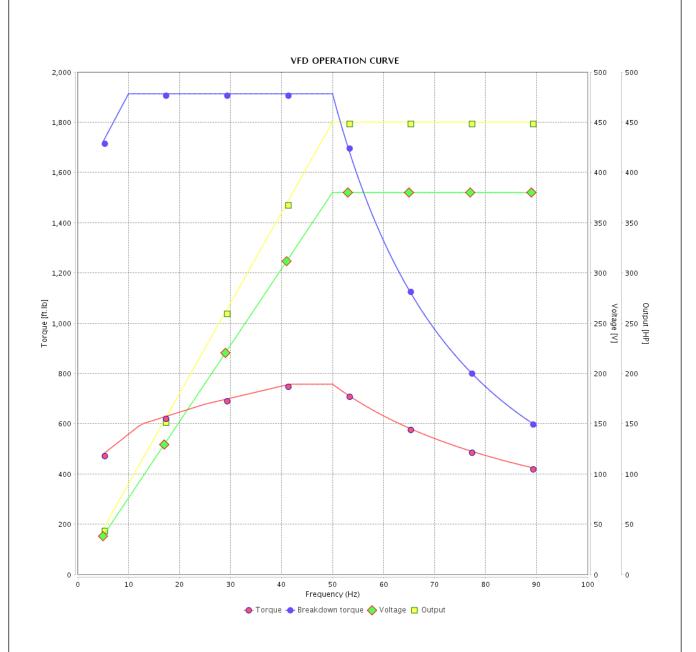
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13621556

Catalog # : 55036OT3G447/9TS-W40



Performance : 380 V 50 Hz 2P IE3

Rated current : 582 A
LRC : 6.7
Rated torque : 797 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 240 %

Moment of inertia (J) : 50.3 sq.ft.lb

Duty cycle : Cont.(S1)

Insulation class : F

Service factor : 1.15 Temperature rise : 105 K

Rated speed		965 rpm			
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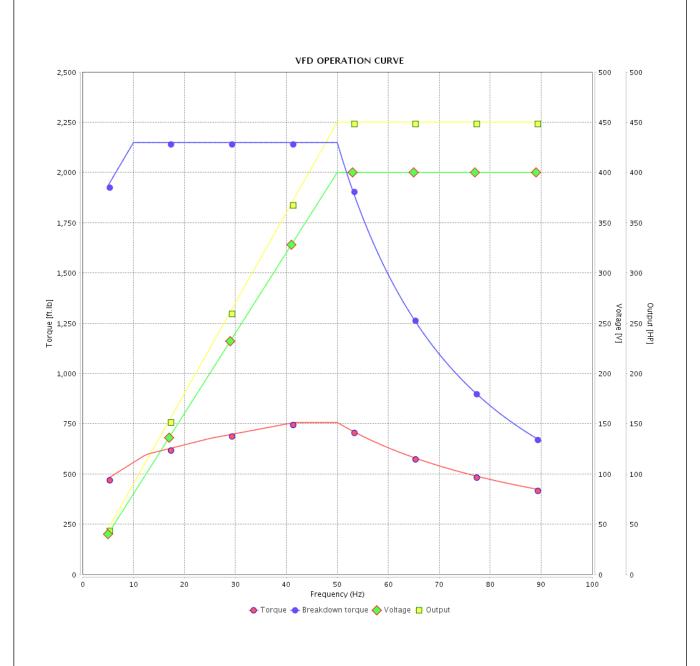
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Product line : W40 NEMA Premium Efficiency Product

Three-Phase

Product code: 13621556

Catalog # : 55036OT3G447/9TS-W40



Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 50.3 sq.ft.lb : Cont.(S1) : F : 1.15 : 105 K	
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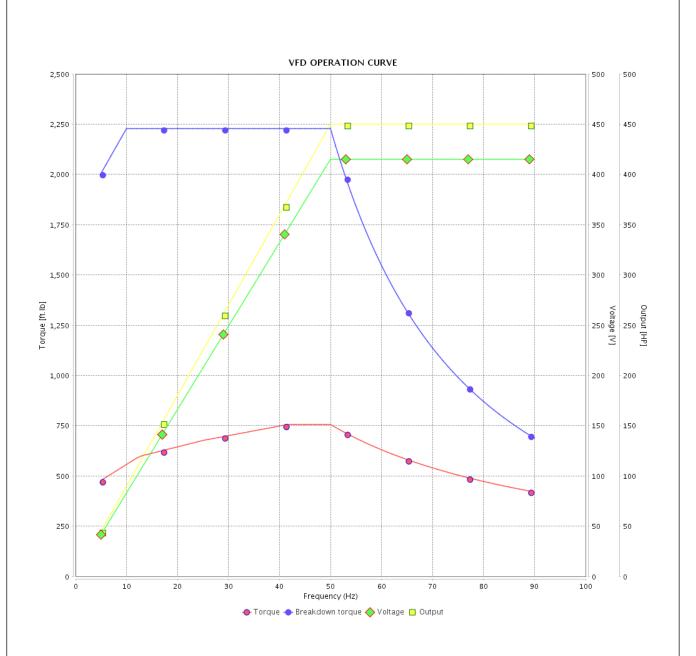
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Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13621556

Catalog #: 55036OT3G447/9TS-W40



Performance	:	415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		538 A 8.2 796 ft.lb 240 % 280 % 2970 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		
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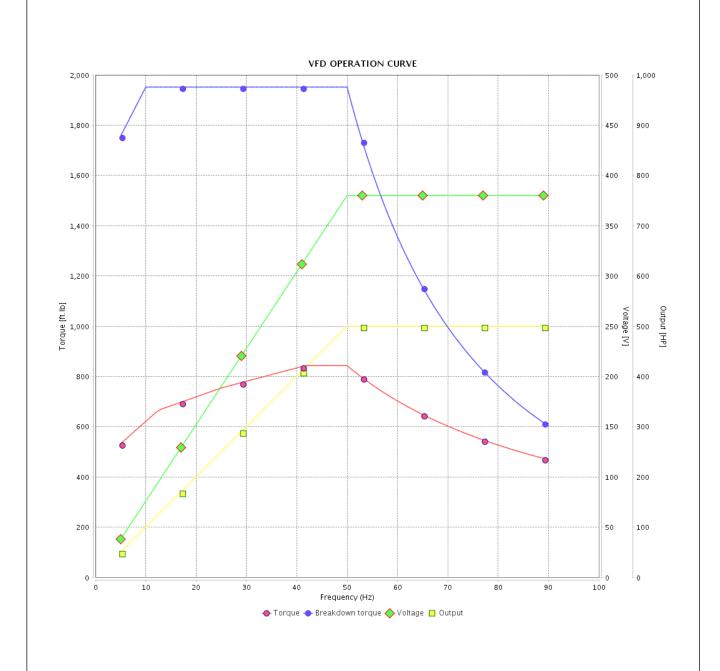
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Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Product code: 13621556

Catalog #: 55036OT3G447/9TS-W40



 Performance
 : 380 V 50 Hz 2P IE2

 Rated current
 : 655 A
 Moment of inertia (J)
 : 50.3 sq.ft.lb

 LRC
 : 6.0
 Duty cycle
 : Cont.(S1)

 Rated torque
 : 887 ft.lb
 Insulation class
 : F

Locked rotor torque : 180 % Service factor : 1.00
Breakdown torque : 220 % Temperature rise : 105 K
Rated speed : 2960 rpm

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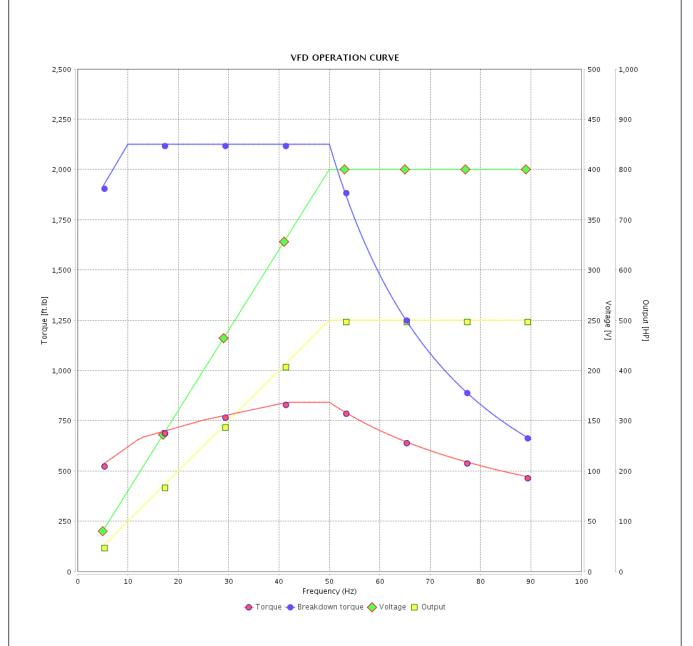
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13621556

Catalog #: 55036OT3G447/9TS-W40



Performance : 400 V 50 Hz 2P IE3 Rated current : 619 A Moment of inertia (J) : 50.3 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 886 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 105 K

Rated speed : 2965 rpm

rated speed	. 2	500 Ipili					
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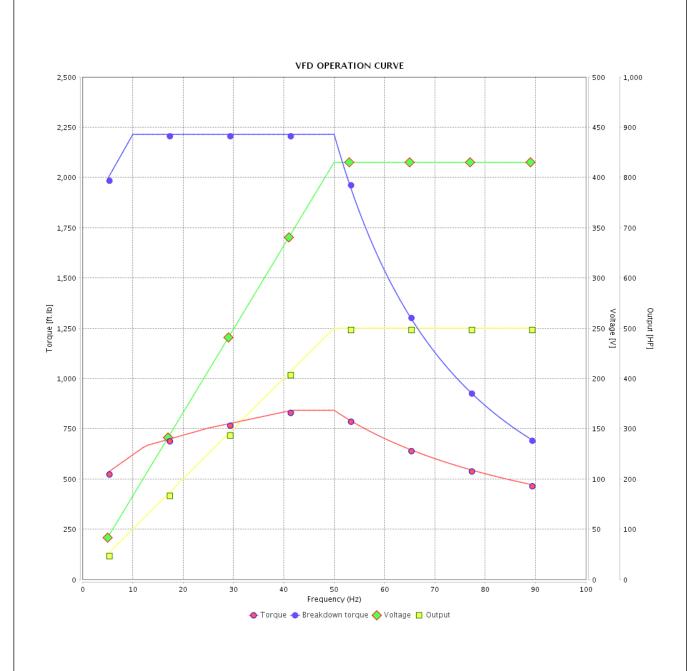
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Product line : W40 NEMA Premium Efficiency Product code : 13621556

Three-Phase

Catalog # : 55036OT3G447/9TS-W40



Rated current					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 604 A : 7.4 : 886 ft.lb : 220 % : 250 % : 2965 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		
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