DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Product code: 13611338

Three-Phase

Catalog #: 25012OT3G447/9T-W40

Frame : 447/9T 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

: 1000 m.a.s.l. Approx. weight3 Altitude : 2179 lb

Protection degree : IP23 Moment of inertia (J) : 115 sq.ft.lb Design : A Output [HP] 250 175 175 175 200 200 200 Poles 6 6 6 6 6 6 6 60 50 50 50 50 50 Frequency [Hz] 50 Rated voltage [V] 400 380 400 460 380 415 415 Rated current [A] 296 294 299 263 263 264 291 L. R. Amperes [A] 1835 1999 1944 1841 1999 2376 2386 6.5x(Code | 7.0x(Code H) | 7.6x(Code J) | 9.0x(Code L) | 6.2x(Code | 6.8x(Code H) | 8.2x(Code K) LRC [A] G) G) No load current [A] 125 123 136 149 123 136 149 Rated speed [RPM] 1185 985 985 985 985 985 985 Slip [%] 1.25 1.50 1.50 1.50 1.50 1.50 1.50 Rated torque [ft.lb] 1110 933 933 933 1070 1070 1070 Locked rotor torque [%] 220 229 260 300 200 229 260 Breakdown torque [%] 240 270 310 330 240 270 290 Service factor 1.15 1.15 1.15 1.15 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K 105 K 105 K 105 K Locked rotor time 32s (cold) 16s (cold) 16s (cold) 16s (cold) 16s (cold) 16s (cold) 16s (cold) 18s (hot) 9s (hot) 9s (hot) 9s (hot) 9s (hot) 9s (hot) 9s (hot) Noise level² 79.0 dB(A) 25% 95.3 93.8 92.7 92.1 94.4 94.0 93.4 50% 95.4 94.4 93.7 93.2 94.5 94.1 93.6 Efficiency (%) 75% 95.8 94.9 94.5 94.3 95.0 94.5 94.5 100% 95.8 95.4 95.4 95.4 94.9 94.5 94.5 25% 0.42 0.38 0.34 0.30 0.42 0.37 0.33 50% 0.67 0.62 0.57 0.52 0.67 0.62 0.57 Power Factor 75% 0.77 0.75 0.70 0.66 0.77 0.73 0.69

Drive end Non drive end Bearing type 6319 C3 6314 C3 Without Without Sealing

0.81

Bearing Seal Bearing Seal

0.80

20000 h 20000 h

Lubrication interval Lubricant amount 27 g Mobil Polyrex EM Lubricant type

100%

Foundation loads

0.73

0.76

Max. traction : 7154 lb : 9333 lb Max. compression

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.

0.81

0.78

0.76

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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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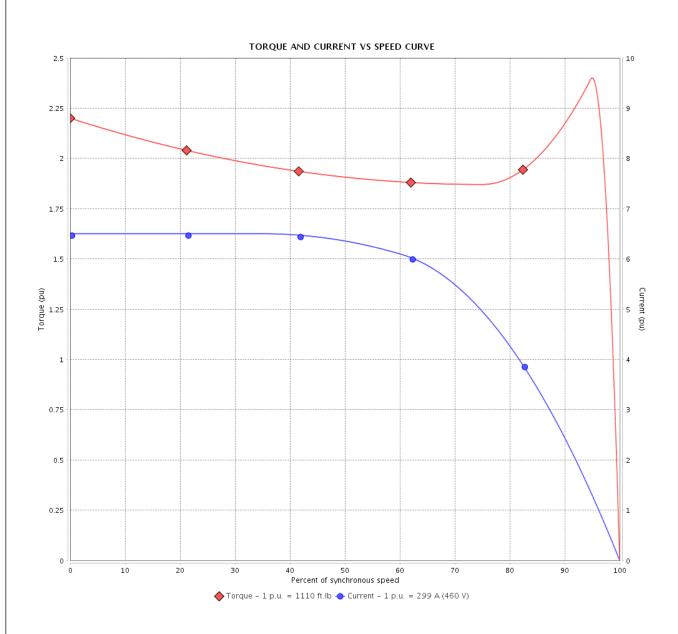
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Product code: 13611338

Catalog #: 25012OT3G447/9T-W40



Performance	: 460 V 60 Hz 6P			
Rated current	: 299 A	Moment of inertia (J)	: 115 sq.ft.lb	
LRC	: 6.5	Duty cycle	: Cont.(S1)	
Rated torque	: 1110 ft.lb	Insulation class	:F	
Locked rotor torque	: 220 %	Service factor	: 1.15	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 1185 rpm	Design	: A	
Locked rotor time	· 32s (cold) 18s (hot)			

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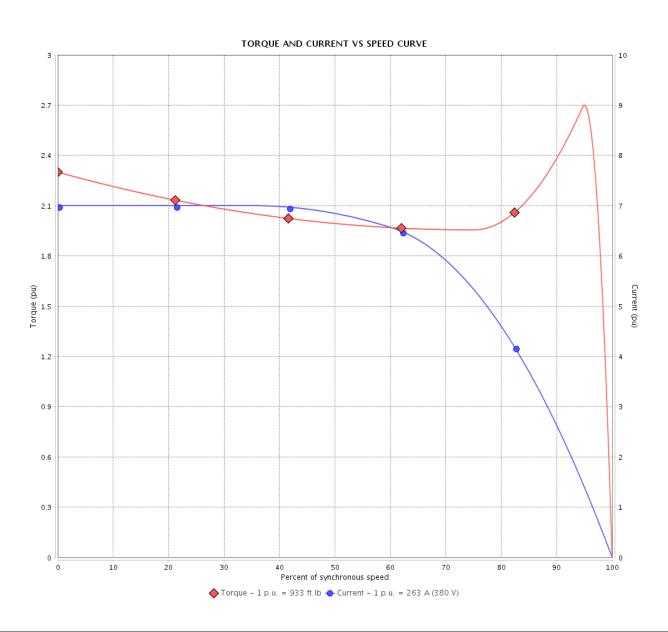
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13611338

Catalog #: 25012OT3G447/9T-W40



Performance : 380 V 50 Hz 6P IE3 Rated current : 263 A Moment of inertia (J) : 115 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 933 ft.lb : F Service factor Locked rotor torque : 229 % : 1.15 : 80 K Breakdown torque : 270 % Temperature rise Rated speed : 985 rpm Design : A

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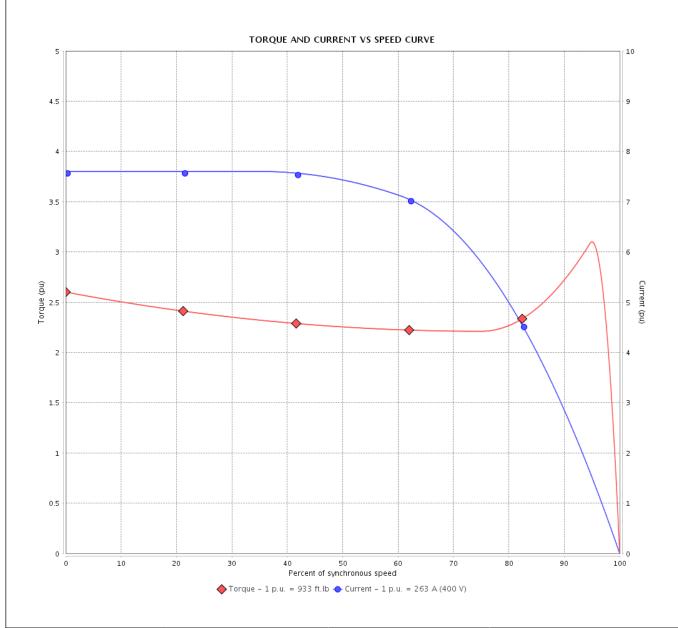
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13611338

Catalog #: 25012OT3G447/9T-W40



Performance : 400 V 50 Hz 6P IE3 Rated current : 263 A Moment of inertia (J) : 115 sq.ft.lb **LRC** : 7.6 Duty cycle : Cont.(S1) : 933 ft.lb Insulation class : F Rated torque : 260 % Locked rotor torque Service factor : 1.15 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 985 rpm Design : A

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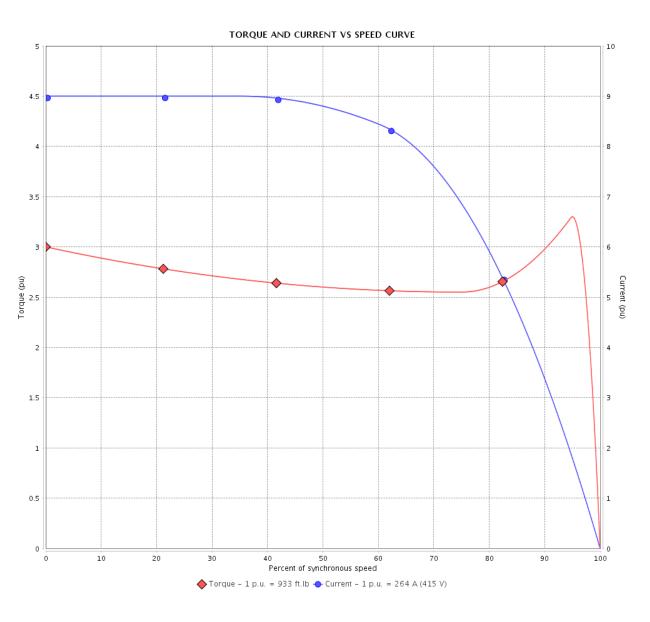


Customer :

Product line : W40 NEMA Premium Efficiency Product code : 13611338

Three-Phase

Catalog #: 25012OT3G447/9T-W40



Performance	: 415 V 50 Hz 6P IE3			
Rated current	: 264 A	Moment of inertia (J)	: 115 sq.ft.lb	
LRC	: 9.0	Duty cycle	: Cont.(S1)	
Rated torque	: 933 ft.lb	Insulation class	:F	
Locked rotor torque	: 300 %	Service factor	: 1.15	
Breakdown torque	: 330 %	Temperature rise	: 80 K	
Rated speed	: 985 rpm	Design	: A	
Locked rotor time	: 16s (cold) 9s (hot)			

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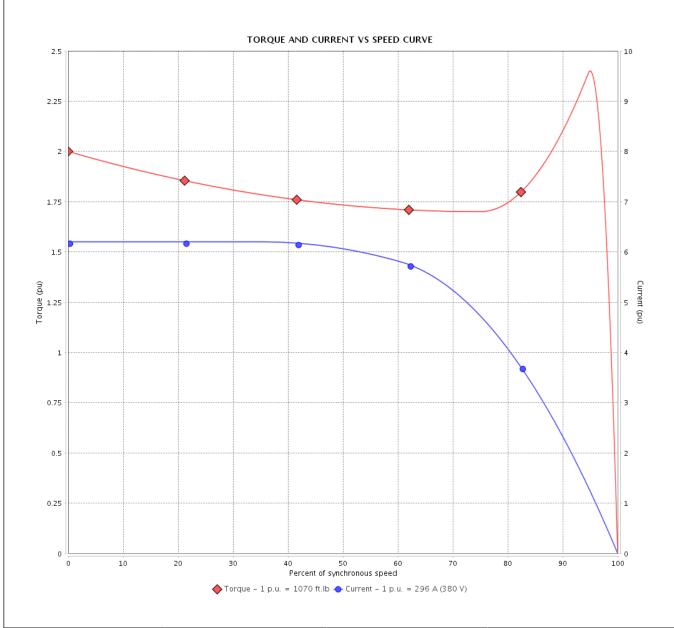
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13611338

Catalog #: 25012OT3G447/9T-W40



Performance : 380 V 50 Hz 6P IE2 Rated current : 296 A Moment of inertia (J) : 115 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) : 1070 ft.lb Insulation class : F Rated torque : 200 % : 1.00 Locked rotor torque Service factor : 105 K Breakdown torque : 240 % Temperature rise Rated speed : 985 rpm Design : A

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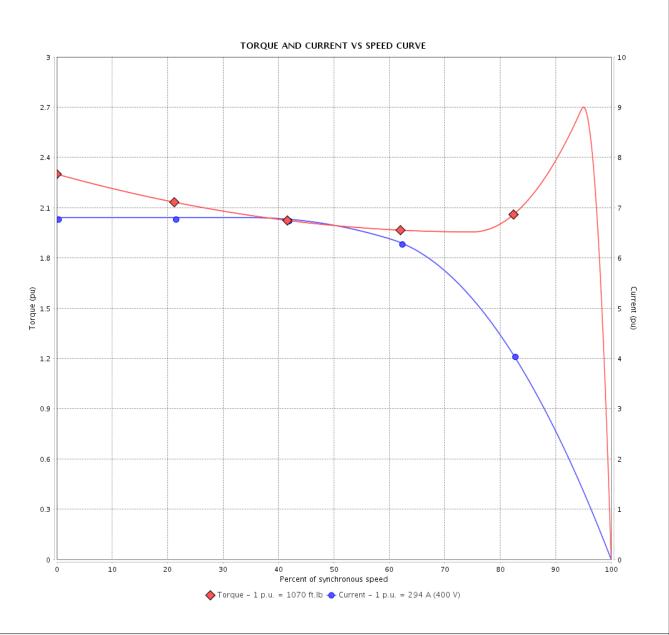
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13611338

Catalog #: 25012OT3G447/9T-W40



Performance : 400 V 50 Hz 6P IE1 Rated current : 294 A Moment of inertia (J) : 115 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) : 1070 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 229 % : 1.00 : 105 K Breakdown torque : 270 % Temperature rise Rated speed : 985 rpm Design : A

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Three Phase Induction Motor - Squirrel Cage Customer Product line : W40 NEMA Premium Efficiency Product code: 13611338 Three-Phase Catalog #: 25012OT3G447/9T-W40 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed 🔷 Torque – 1 p.u. = 1070 ft.lb 🔷 Current – 1 p.u. = 291 A (415 V) Performance : 415 V 50 Hz 6P IE1 Rated current : 291 A Moment of inertia (J) : 115 sq.ft.lb **LRC** : 8.2 Duty cycle : Cont.(S1) : 1070 ft.lb Insulation class Rated torque : F : 260 % Locked rotor torque Service factor : 1.00 : 105 K Breakdown torque : 290 % Temperature rise Rated speed : A : 985 rpm Design Locked rotor time : 16s (cold) 9s (hot) Date Rev. **Changes Summary** Performed Checked

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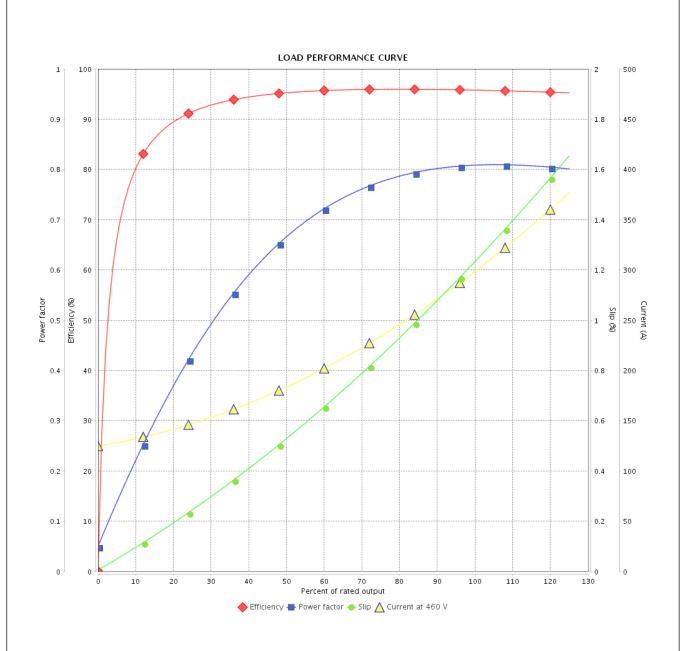
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13611338

Catalog #: 25012OT3G447/9T-W40

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Performance : 460 V 60 Hz 6P : 299 A Rated current Moment of inertia (J) : 115 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) : 1110 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.15 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1185 rpm Design : A Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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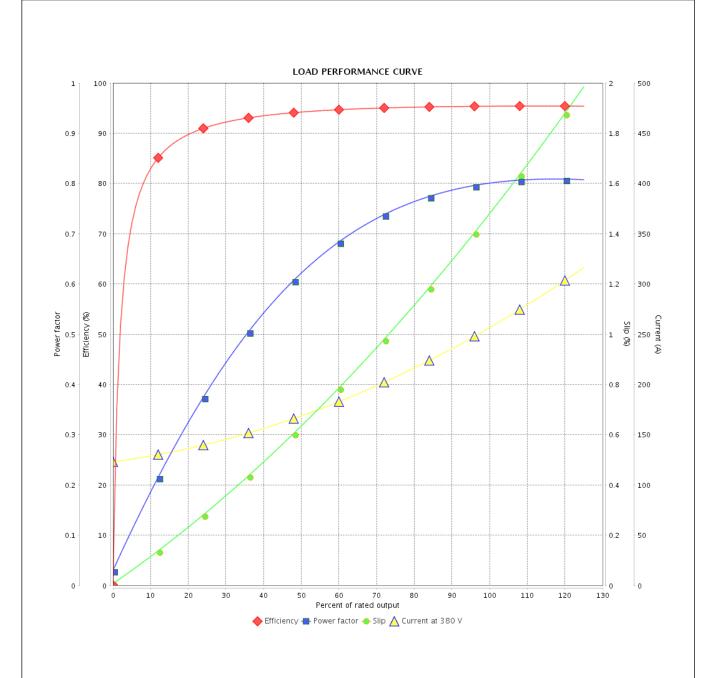


Customer

Product line : W40 NEMA Premium Efficiency Product code : 13611338

Three-Phase

Catalog #: 25012OT3G447/9T-W40



Performance	::	380 V 50 Hz 6P IE3	•			
Rated current	ed current : 263 A		Moment o	f inertia (J)	: 115 sq.ft.lb	
LRC	: '	7.0	Duty cycle	;	: Cont.(S1)	
Rated torque	: !	933 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue ::	229 %	Service fa	ctor	: 1.15	
Breakdown torque : 270 %		270 %	Temperature rise		: 80 K	
Rated speed	: :	985 rpm	Design		: A	
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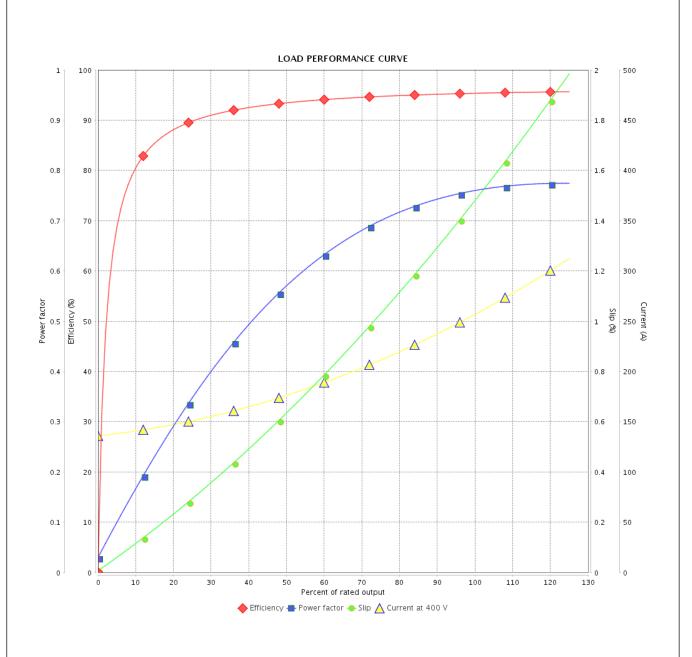
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13611338

Catalog #: 25012OT3G447/9T-W40



Performance	: 4	100 V 50 Hz 6P IE3	3			
Rated current	Rated current : 263 A		Moment o	Moment of inertia (J)		
LRC	: 7	' .6	Duty cycle	9	: Cont.(S1)	
Rated torque	: 9	933 ft.lb	Insulation	class	: F	
Locked rotor torqu	cked rotor torque : 260 % Service factor		ictor	: 1.15		
Breakdown torque	e : 3	310 %	Temperature rise		: 80 K	
Rated speed	: 9	985 rpm	Design		: A	
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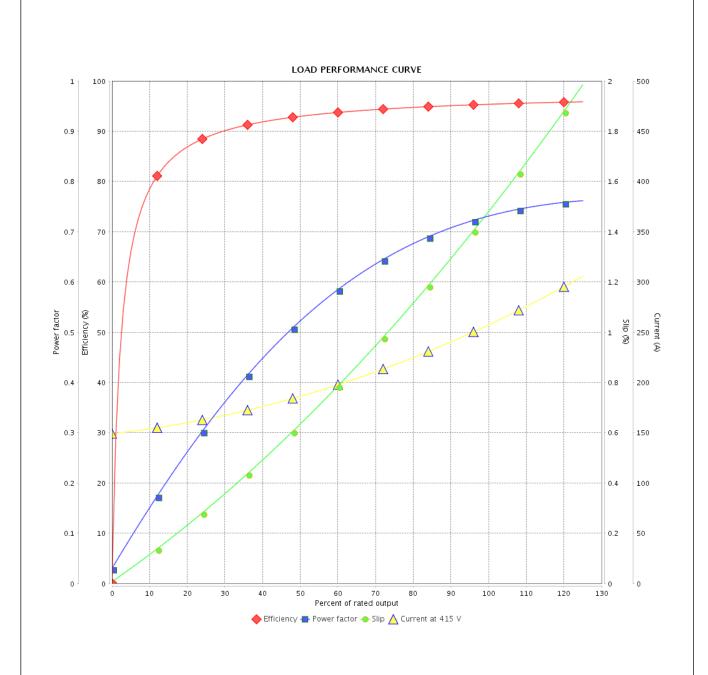


Customer

Product line : W40 NEMA Premium Efficiency Product code : 13611338

Three-Phase

Catalog #: 25012OT3G447/9T-W40



Performance	: 4	115 V 50 Hz 6P IE3	3			
Rated current	tated current : 264 A		Moment o	f inertia (J)	: 115 sq.ft.lb	
LRC	: 9	9.0	Duty cycle		: Cont.(S1)	
Rated torque	: 9	933 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue :3	300 %	Service fa	ctor	: 1.15	
Breakdown torque : 330 %		330 %	Temperature rise		: 80 K	
Rated speed	: 9	985 rpm	Design		: A	
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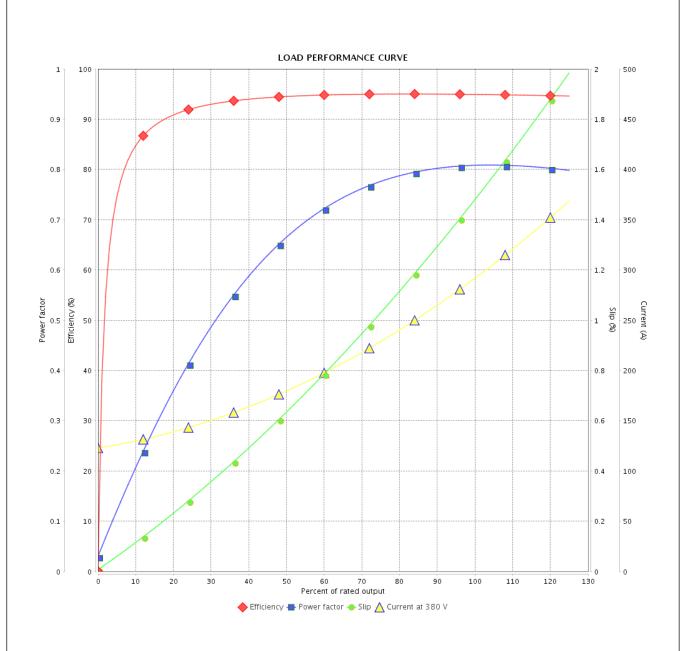
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Three-Phase

Product code: 13611338

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Performance	: 380 V 50 Hz 6P IE2		,	
renormance	. 300 V 50 HZ 0F IEZ			
Rated current : 296 A		Moment of inertia (J)	: 115 sq.ft.lb	
LRC : 6.2		Duty cycle	: Cont.(S1)	
Rated torque : 1070 ft.lb		Insulation class	: F	
Locked rotor torque	: 200 %	Service factor	: 1.00	
Breakdown torque	: 240 %	Temperature rise	: 105 K	
Rated speed	: 985 rpm	Design	: A	
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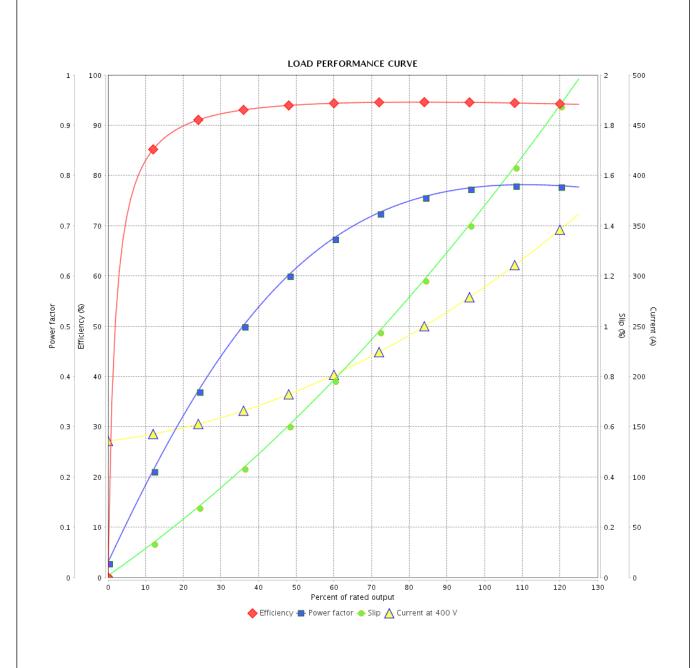
Customer

Product line : W40 NEMA Premium Efficiency Product code : 13611338

Three-Phase

Catalog #: 25012OT3G447/9T-W40

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Performance	: 400 V 50 Hz 6P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 294 A : 6.8 : 1070 ft.lb : 229 % : 270 % : 985 rpm	Moment of in Duty cycle Insulation of Service factor Temperature Design	lass	: 115 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : A	
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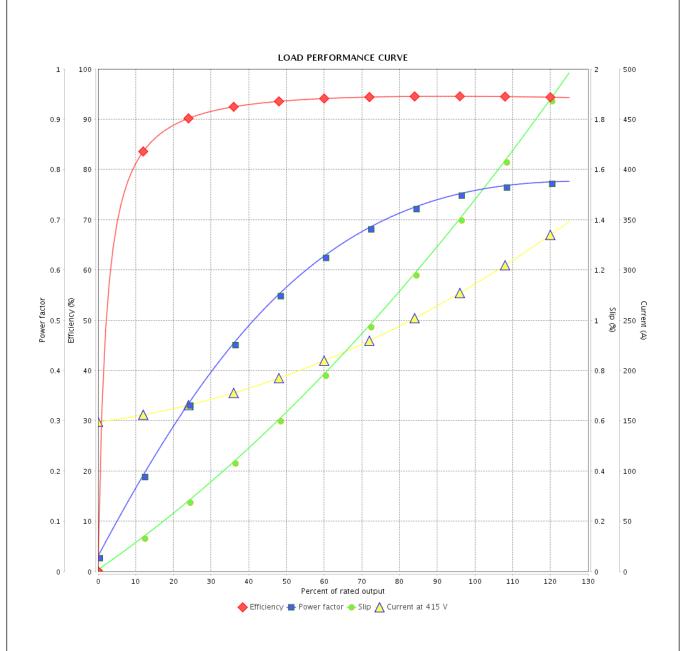
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13611338

Catalog #: 25012OT3G447/9T-W40



Performance	ce : 415 V 50 Hz 6P IE1					
Rated current	ated current : 291 A		Moment of	Moment of inertia (J)		
LRC : 8.2		3.2	Duty cycle	9	: Cont.(S1)	
Rated torque	: 1	070 ft.lb	Insulation class		: F	
Locked rotor torc	que : 2	Service factor		: 1.00		
Breakdown torque		290 %	Temperati	Temperature rise		
Rated speed	: 9	985 rpm	Design		: A	
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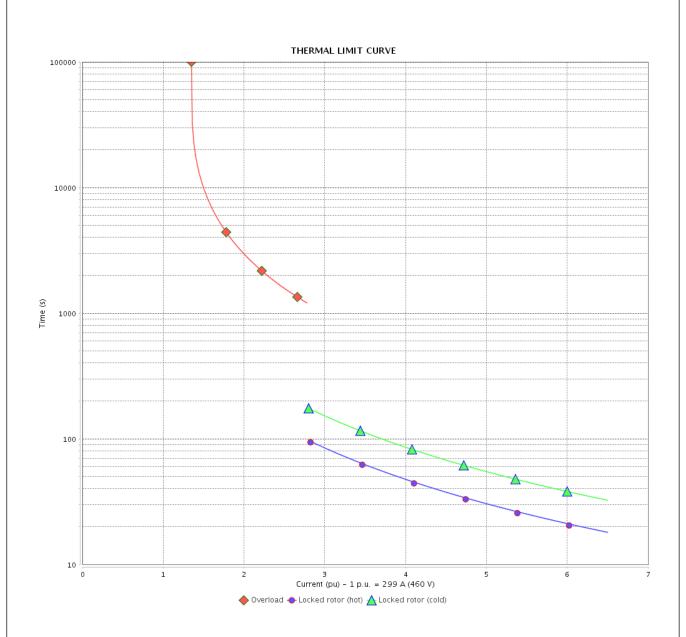


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Product line	: :	W40 NEMA Premium Effic	ciency	Product code :	13611338	
		Tillee-Filase		Catalog # :	25012OT3G4	147/9T-W40
Performance Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed	: 2 : 6 : 1 que : 2 ue : 2	299 A 3.5 110 ft.lb 220 % 440 % 185 rpm	Moment of Duty cycl Insulation Service fa Temperat Design	n class actor	: 115 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : A	
Rated current LRC Rated torque Locked rotor tor Breakdown torq	: 2 : 6 : 1 que : 2 ue : 2	199 A 5.5 110 ft.lb 120 % 140 %	Duty cycl Insulation Service fa Temperat	e ı class actor	: Cont.(S1) : F : 1.15 : 80 K	
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed	: 2 : 6 : 1 que : 2 : 1	199 A 5.5 110 ft.lb 120 % 140 %	Duty cycl Insulation Service fa Temperat	e ı class actor	: Cont.(S1) : F : 1.15 : 80 K	
Rated current .RC Rated torque .ocked rotor tor Breakdown torq Rated speed	: 2 : 6 : 1 que : 2 : 1	199 A 5.5 110 ft.lb 120 % 140 %	Duty cycl Insulation Service fa Temperat	e ı class actor	: Cont.(S1) : F : 1.15 : 80 K	Date
Rated current .RC Rated torque .ocked rotor tor Breakdown torq Rated speed Heating constar Cooling constar	: 2 : 6 : 1 que : 2 : 1	199 A 5.5 110 ft.lb 120 % 140 % 185 rpm	Duty cycl Insulation Service fa Temperat	e n class actor ure rise	: Cont.(S1) : F : 1.15 : 80 K : A	Date
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar Cooling constar	: 2 : 6 : 1 que : 2 : 1	199 A 5.5 110 ft.lb 120 % 140 % 185 rpm	Duty cycl Insulation Service fa Temperat	e n class actor ure rise	: Cont.(S1) : F : 1.15 : 80 K : A	Date
Rated current .RC Rated torque .ocked rotor tor Breakdown torq Rated speed Heating constar Cooling constar Rev.	: 2 : 6 : 1 que : 2 : 1	199 A 5.5 110 ft.lb 120 % 140 % 185 rpm	Duty cycl Insulation Service fa Temperat	e n class actor ure rise	: Cont.(S1) : F : 1.15 : 80 K : A	Date

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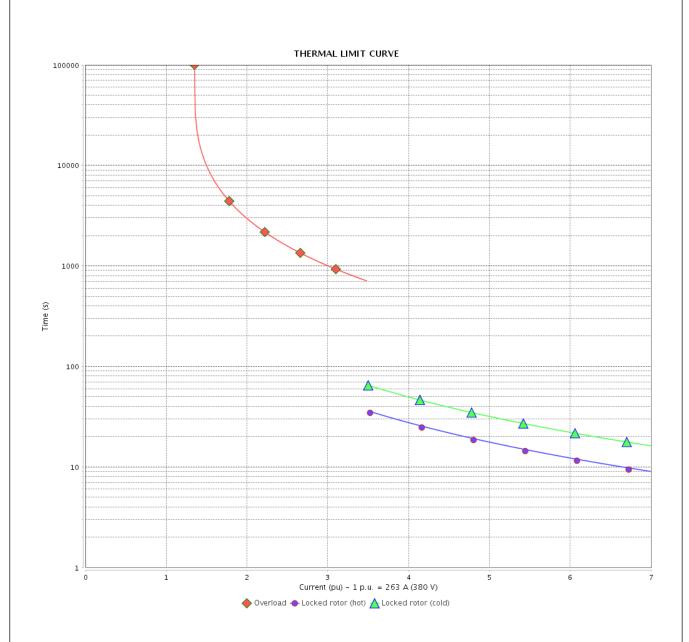


Customer	:					
Product line		W40 NEMA Premium Efficie	ency	Product code :	13611338	
	TI	hree-Phase		Catalog # :	25012OT3G	447/9T-W40
Performance Rated current		80 V 50 Hz 6P IE3 63 A	Marasist	finartic (1)	. 445 6 11	
LRC Rated torque Locked rotor tord	: 7. : 93		Duty cycle Insulation Service fa	class	: 115 sq.ft.lb : Cont.(S1) : F : 1.15	
Breakdown torqu Rated speed	ue : 27	70 % 85 rpm	Temperatu Design	ure rise	: 80 K : A	
Heating constan						
Cooling constant	<u>t</u>	Changes Summary		Performed	Checked	Date
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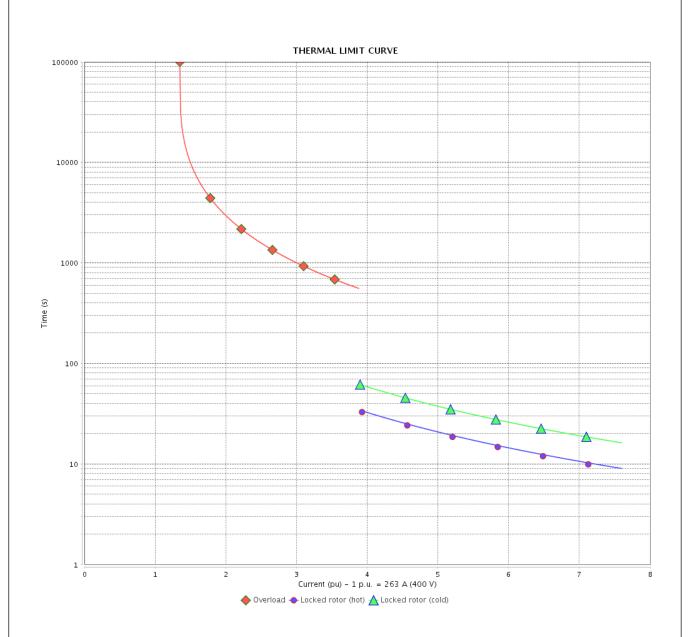


Customer	:					
Product line	: T	W40 NEMA Premium Effici hree-Phase	iency	Product code :	13611338	
	·	Thee I hade		Catalog # :	25012OT3G	447/9T-W40
Performance Rated current LRC Rated torque Locked rotor torque	: 2 : 7 : 9 que : 2 ue : 3	33 ft.lb 60 % 10 %	Duty cycle Insulation Service fa Temperat	class actor	: 115 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : A	
Rated speed Heating constan		85 rpm	Design		. A	
Cooling constan						
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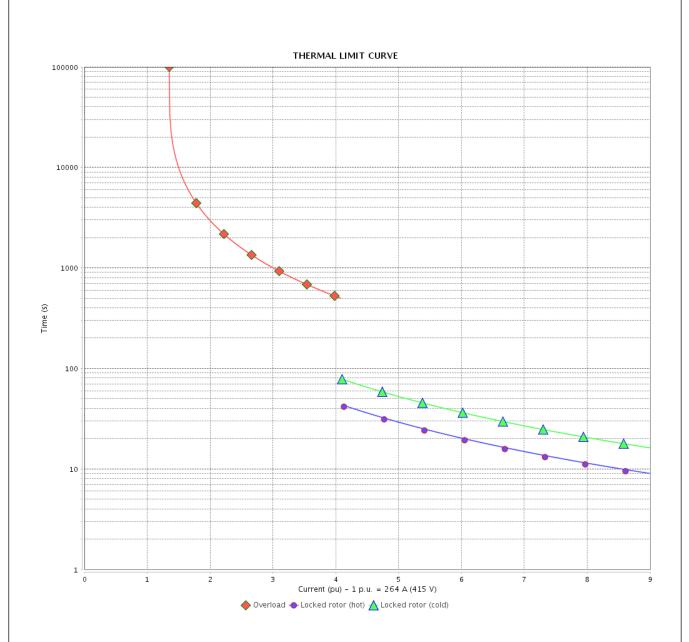


Customer	:					
Product line	: ' T	W40 NEMA Premium Effic hree-Phase	iency	Product code :	13611338	
	'	nice i nase		Catalog # :	25012OT3G4	147/9T-W40
Performance Rated current LRC Rated torque	: 20 : 9	15 V 50 Hz 6P IE3 64 A 0 33 ft.lb	Moment of Duty cycle Insulation	of inertia (J)	: 115 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord Breakdown tord Rated speed	que : 30 ue : 33	00 % 30 % 85 rpm	Service fa Temperati Design	ictor	: 1.15 : 80 K : A	
Heating constan						
Cooling constan	t					
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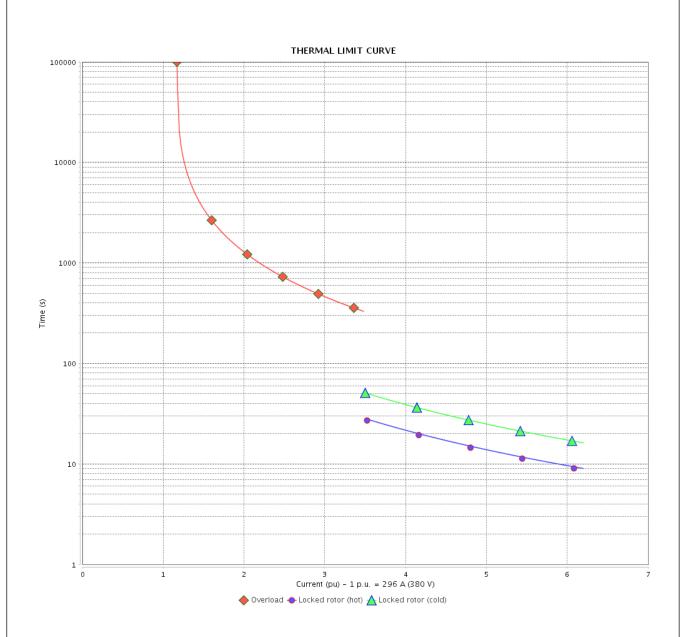


Customer	:					
Product line	: T	W40 NEMA Premium Effic hree-Phase	ciency	Product code :	13611338	
	·	THE THUSE		Catalog # :	25012OT3G4	47/9T-W40
erformance	: 3	80 V 50 Hz 6P IE2				
Rated current RC Rated torque ocked rotor tord reakdown torquated speed	: 2 : 6 : 1 que : 2 ue : 2	96 A	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 115 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : A	
leating constan	t					
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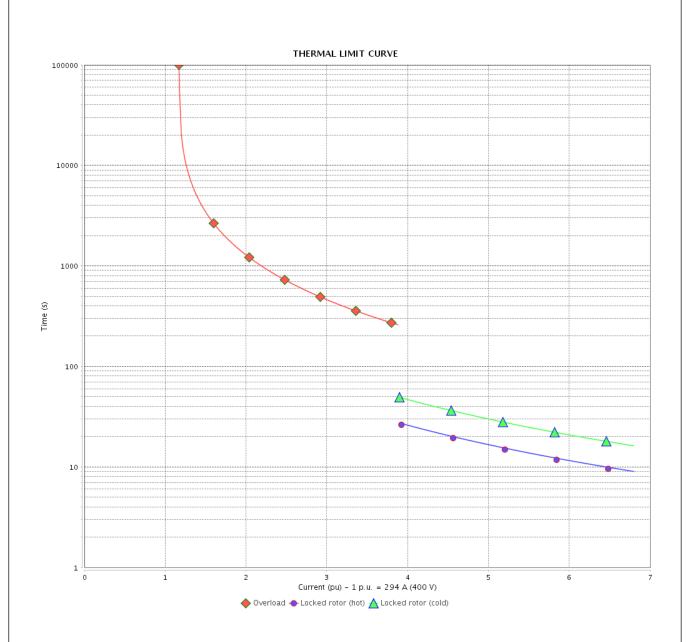


Customer	:					
Product line	: ' T	W40 NEMA Premium Effic hree-Phase	iency	Product code :	13611338	
	·			Catalog # :	25012OT3G4	47/9T-W4
erformance	: 4	00 V 50 Hz 6P IE1				
lated current RC lated torque ocked rotor tord reakdown torque	: 6 : 10 que : 2: ue : 2	070 ft.lb 29 % 70 %	Duty cycle Insulation Service fa Temperat	class actor	: 115 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K	
eating constan	t	35 rpm	Design		: A	
ooling constan Rev.	t	Changes Summary		Performed	Checked	Date
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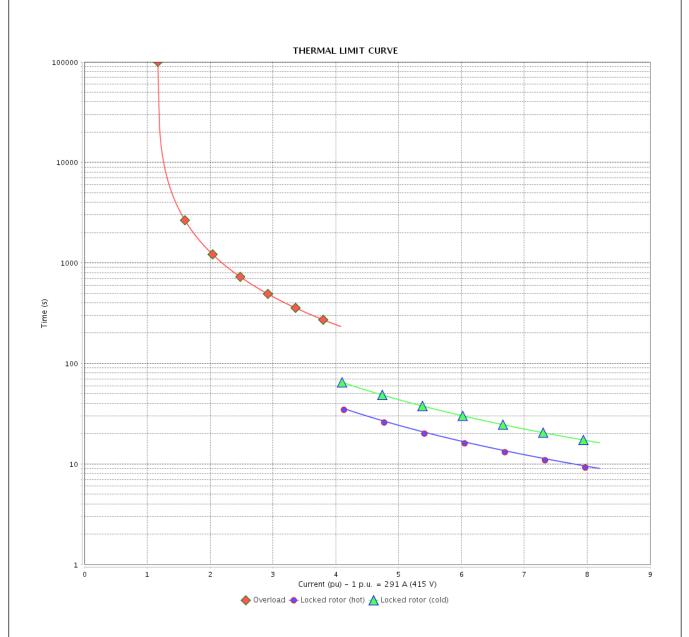


Customer	:					
Product line	: ' T	W40 NEMA Premium Effic hree-Phase	iency	Product code :	13611338	
	'	nice i nase		Catalog # :	25012OT3G4	447/9T-W40
Performance Rated current LRC		15 V 50 Hz 6P IE1 91 A 2	Moment of	of inertia (J)	: 115 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord Breakdown torqu Rated speed	: 10 que : 20 ue : 29	2070 ft.lb 60 % 90 % 85 rpm	Insulation Service fa Temperate Design	class ictor	: F : 1.00 : 105 K : A	
Heating constan	t					
Cooling constant	t					
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Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

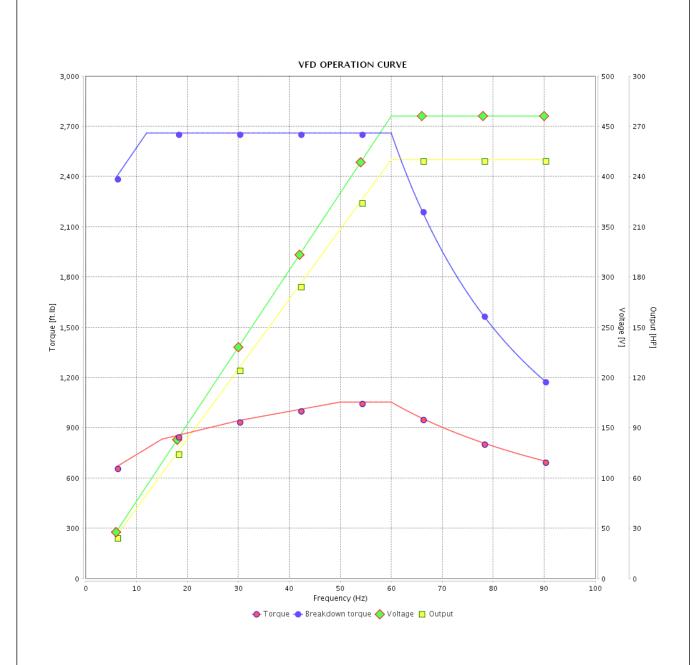
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Performance	: 460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 299 A : 6.5 : 1110 ft.lb : 220 % : 240 % : 1185 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 115 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : A	
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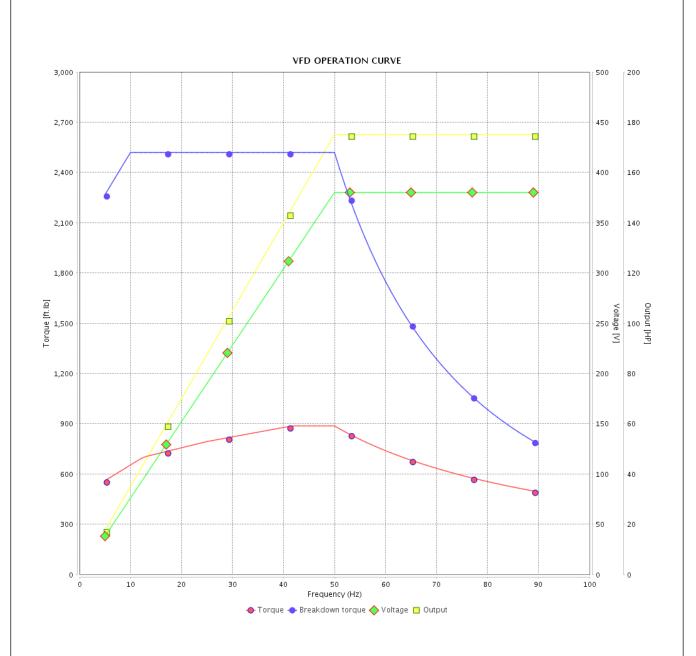
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13611338

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Performance	: 380 V 50 Hz 6P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 263 A : 7.0 : 933 ft.lb : 229 % : 270 % : 985 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 115 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : A	
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Three Phase Induction Motor - Squirrel Cage



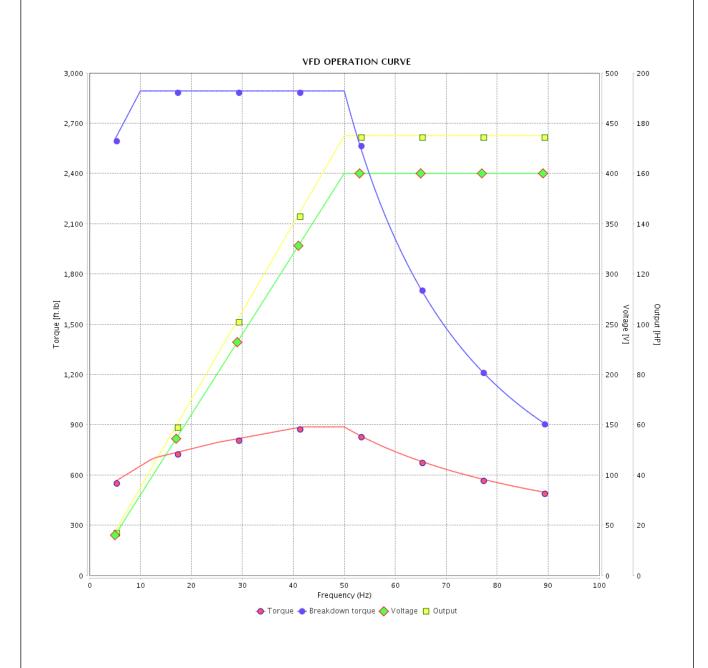
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Product line : W40 NEMA Premium Efficiency Product

Three-Phase

Product code: 13611338

Catalog #: 25012OT3G447/9T-W40



Performance	. 4	00 V 50 Hz 6P IE3				
Rated current		63 A	Moment	f inertia (J)	: 115 sq.ft.lb	
LRC	: 7		1	` '	•	
		• •	Duty cycle		: Cont.(S1)	
Rated torque	: 9	33 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	60 %	Service fa	ctor	: 1.15	
Breakdown torque	: 3	10 %	Temperati	ıre rise	: 80 K	
Rated speed	: 9	85 rpm	Design		: A	
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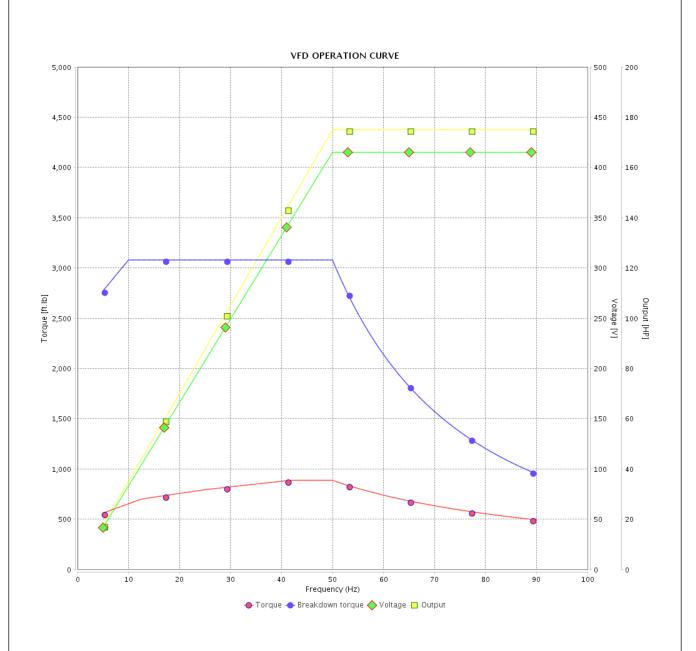
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Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13611338

Catalog #: 25012OT3G447/9T-W40



Performance	: 4	15 V 50 Hz 6P IE3	,			
Rated current	urrent : 264 A Mom		Moment of	of inertia (J)	: 115 sq.ft.lb	
LRC	: 9	.0	Duty cycle	9	: Cont.(S1)	
Rated torque	: 9	33 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 3	00 %	Service fa	ctor	: 1.15	
Breakdown torqu	ue : 3	30 %	Temperat	ure rise	: 80 K	
Rated speed	: 9	85 rpm	Design		: A	
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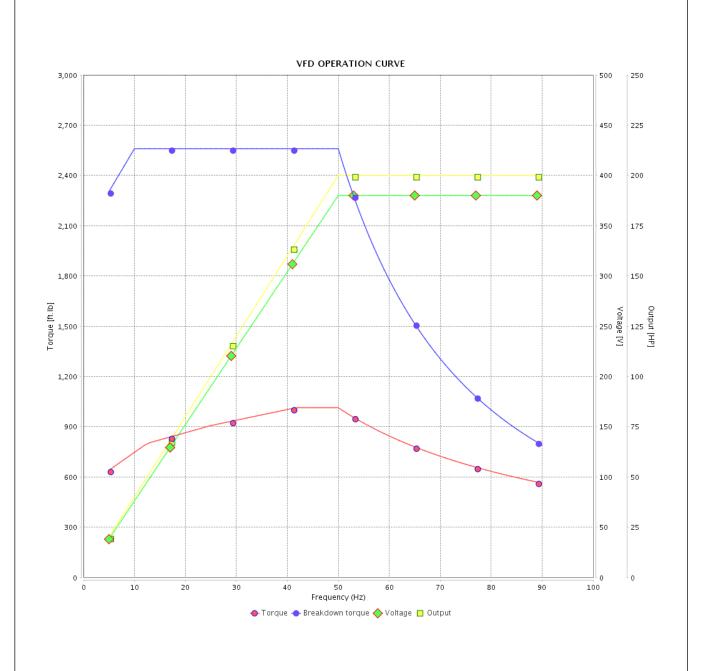
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Product line : W40 NEMA Premium Efficiency Produ

Three-Phase

Product code: 13611338

Catalog #: 25012OT3G447/9T-W40



Performance	: 3	: 380 V 50 Hz 6P IE2						
Rated current	: 2	296 A Moment of inertia (J)		: 115 sq.ft.lb				
LRC	: 6	5.2	Duty cycle		: Cont.(S1)			
Rated torque	: 1	070 ft.lb	Insulation class		: F			
Locked rotor torque	e : 2	200 %	Service factor		: 1.00			
Breakdown torque	: 2	: 240 % : 985 rpm		Temperature rise Design				
Rated speed	: 9							
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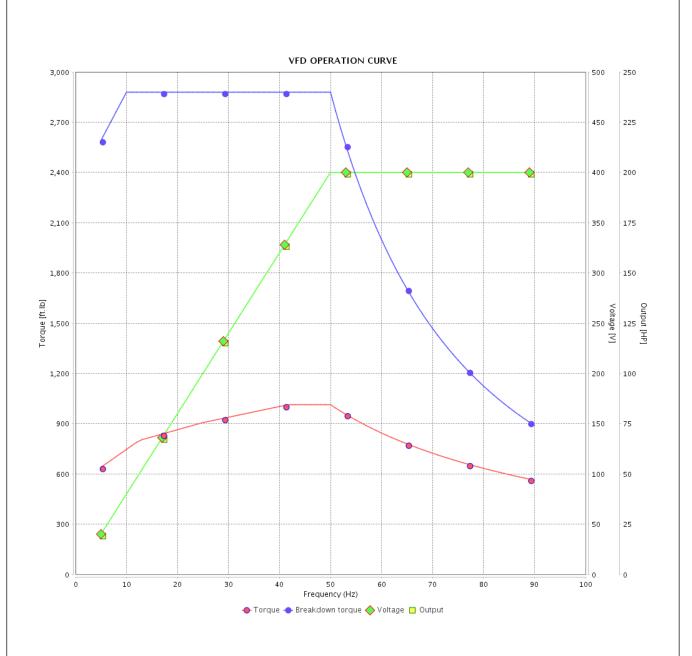
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13611338

Catalog # : 25012OT3G447/9T-W40

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Performance	: 400 V 50 Hz 6P IE1						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 294 A : 6.8 : 1070 ft.lb : 229 % : 270 % : 985 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 115 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : A			
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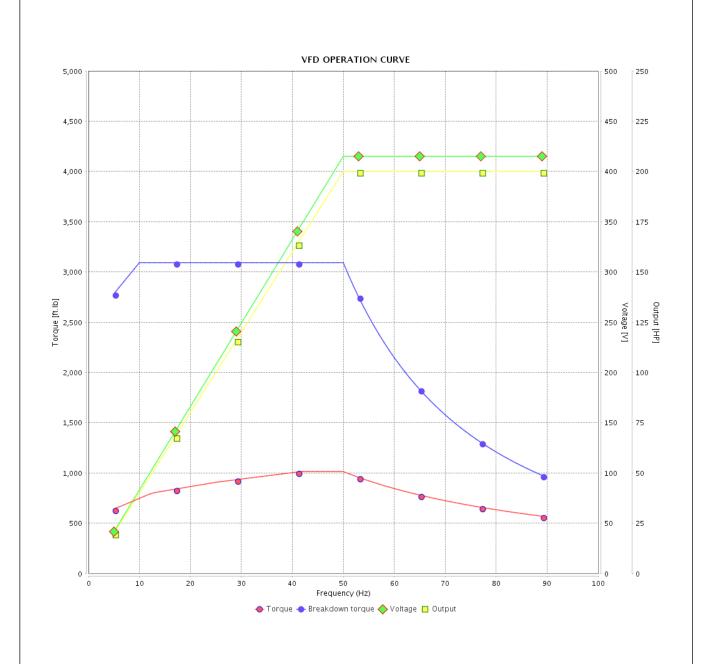
Product line : W40 NEMA Premium Efficiency Pro

Three-Phase

Product code: 13611338

Catalog #: 25012OT3G447/9T-W40

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Performance	: 415 V 50 Hz 6P IE1						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 291 A : 8.2 : 1070 ft.lb : 260 % : 290 % : 985 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 115 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : A			
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