DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Product code : 13325233

Three-Phase

1780

Catalog #: 35018OT3G447/9TS-W40

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

Insulation class : F Mounting : F-1

1480

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 : 2077 lb

Protection degree : IP23 Moment of inertia (J) : 66.1 sq.ft.lb

Protection degree : IP23
Design : B

Rated speed [RPM]

Output [HP]	350	250	250	250	300	300	300
Poles	4	4	4	4	4	4	4
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	460	380	400	415	380	400	415
Rated current [A]	396	337	323	315	403	387	377
L. R. Amperes [A]	2614	2460	2584	2867	2458	2593	2865
LRC [A]	6.6x(Code	7.3x(Code H)	8.0x(Code J)	9.1x(Code K)	6.1x(Code F)	6.7x(Code	7.6x(Code
	G)					G)	
No load current [A]	125	124	135	144	124	135	144

1480

1480

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Slip [%]		1.11	1.33	1.33	1.33	1.33	1.33	1.33
Rated torque [ft.lb]]	1030	887	887	887	1060	1060	1060
Locked rotor torqu	ıe [%]	200	220	250	280	180	210	229
Breakdown torque	: [%]	229	250	290	320	210	240	270
Service factor		1.15	1.15	1.15	1.15	1.15	1.15	1.15
Temperature rise		80 K						
Locked rotor time	Locked rotor time		19s (cold)	19s (cold)	18s (cold)	19s (cold)	19s (cold)	18s (cold)
		10s (hot)	11s (hot)	11s (hot)	10s (hot)	11s (hot)	11s (hot)	10s (hot)
Noise level ²		77.0 dB(A)						
	25%	95.7	93.7	93.3	93.3	94.5	94.5	94.5
Efficiency (%)	50%	95.8	94.7	94.3	94.3	95.0	95.0	95.0
Elliciency (70)	75%	95.8	95.0	95.1	95.1	95.0	95.0	95.0
	100%	95.8	96.0	96.0	96.0	95.4	95.4	95.4
	25%	0.51	0.48	0.45	0.41	0.55	0.51	0.47
Power Factor	50%	0.76	0.74	0.71	0.67	0.81	0.77	0.74
FOWEI FACIOI	75%	0.83	0.84	0.82	0.80	0.85	0.85	0.83
	100%	0.86	0.87	0.86	0.85	0.87	0.86	0.85

Bearing type : <u>Drive end Non drive end Poundation loads</u>
Searing type : 6314 C3 6314 C3 Max traction

Bearing type : 6314 C3 6314 C3 | Max. traction : 6623 lb Sealing : Without Without | Max. compression : 8700 lb

Bearing Seal Bearing Seal
Lubrication interval : 20000 h 20000 h

Lubricant amount : 27 g 27 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



Customer		

Thermal	protection
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ID Application		Туре	Quantity Sensing Temperatur	
1	Winding	Thermistor - 2 wires	1 x Phase	155 °C

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Three Phase Induction Motor - Squirrel Cage



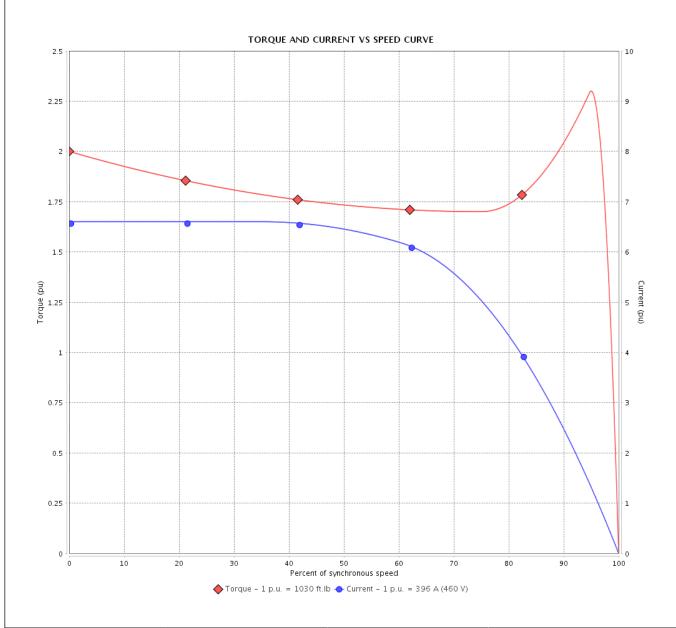
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13325233

Catalog #: 35018OT3G447/9TS-W40



Performance : 460 V 60 Hz 4P Rated current : 396 A Moment of inertia (J) : 66.1 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) : 1030 ft.lb Insulation class : F Rated torque : 200 % Locked rotor torque Service factor : 1.15 : 229 % Breakdown torque Temperature rise : 80 K : B Rated speed : 1780 rpm Design

Locked rotor time : 18s (cold) 10s (hot)

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Three Phase Induction Motor - Squirrel Cage



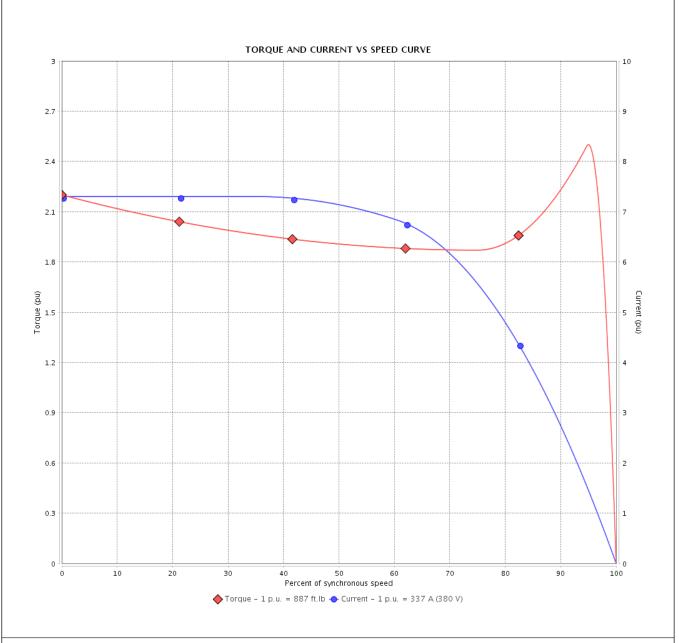
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13325233

Catalog #: 35018OT3G447/9TS-W40



Performance : 380 V 50 Hz 4P IE3 Rated current : 337 A Moment of inertia (J) : 66.1 sq.ft.lb **LRC** : 7.3 Duty cycle : Cont.(S1) : F : 887 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 220 % : 1.15

Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B

Locked rotor time : 19s (cold) 11s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : W40 NEMA Premium Efficiency Product code: 13325233 Three-Phase Catalog #: 35018OT3G447/9TS-W40 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Torque (pu) 1.2 0.6 0.3 40 50 60 Percent of synchronous speed ◆ Torque - 1 p.u. = 887 ft.lb ◆ Current - 1 p.u. = 323 A (400 V) Performance : 400 V 50 Hz 4P IE3

Rated current LRC Rated torque Locked rotor torque	: 323 A : 8.0 : 887 ft.lb : : 250 %	Moment of inertia (J) Duty cycle Insulation class Service factor	: 66.1 sq.ft.lb : Cont.(S1) : F : 1.15	
Breakdown torque	: 290 %	Temperature rise	: 80 K	
Rated speed	: 1480 rpm	Design	: B	
Locked rotor time	: 19s (cold) 11s (hot)		,	
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Three Phase Induction Motor - Squirrel Cage



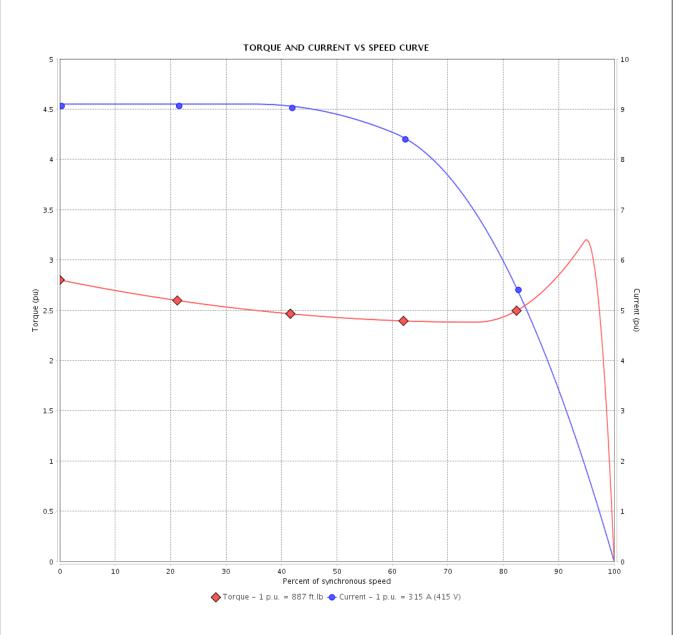
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13325233

Catalog #: 35018OT3G447/9TS-W40



Performance	: 415 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 315 A : 9.1 : 887 ft.lb : 280 % : 320 % : 1480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 66.1 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Locked rotor time	: 18s (cold) 10s (hot)			

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Three Phase Induction Motor - Squirrel Cage Customer Product line : W40 NEMA Premium Efficiency Product code: 13325233 Catalog #: 35018OT3G447/9TS-W40 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 (pd) 1.25 Current 0.5 0.25 40 50 o. Percent of synchronous speed ◆ Torque - 1 p.u. = 1060 ft.lb ◆ Current - 1 p.u. = 403 A (380 V)

Performance	: 380 V 50 Hz 4P IE2		
Rated current	: 403 A	Moment of inertia (J)	: 66.1 sq.ft.lb
LRC	: 6.1	Duty cycle	: Cont.(S1)
Rated torque	: 1060 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 210 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B
Looked reter time	: 10a (aald) 11a (bat)		·

Locked rotor time : 19s (cold) 11s (hot)

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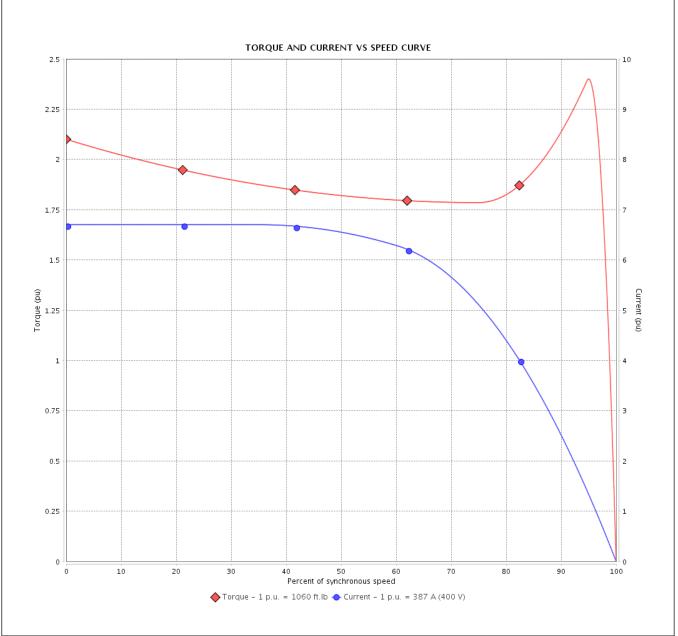
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13325233

Catalog #: 35018OT3G447/9TS-W40



Performance : 400 V 50 Hz 4P IE2 Rated current : 387 A Moment of inertia (J) : 66.1 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : F : 1060 ft.lb Insulation class Rated torque : 210 % Service factor Locked rotor torque : 1.15 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B

Locked rotor time : 19s (cold) 11s (hot)

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1.2

0.6

0.3



TORQUE AND CURRENT VS SPEED CURVE Three Phase Induction Motor - Squirrel Cage Customer Product line : W40 NEMA Premium Efficiency Product code: 13325233 Catalog #: 35018OT3G447/9TS-W40 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Torque (pu)

Performance	: 415 V 50 Hz 4P IE2		
Rated current	: 377 A	Moment of inertia (J)	: 66.1 sq.ft.lb
LRC	: 7.6	Duty cycle	: Cont.(S1)
Rated torque	: 1060 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.15
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B
Locked rotor time	: 18s (cold) 10s (hot)		

40 50 Percent of synchronous speed ◆ Torque - 1 p.u. = 1060 ft.lb ◆ Current - 1 p.u. = 377 A (415 V)

Locked folor till	. 10	os (cold) Tos (Hot)			
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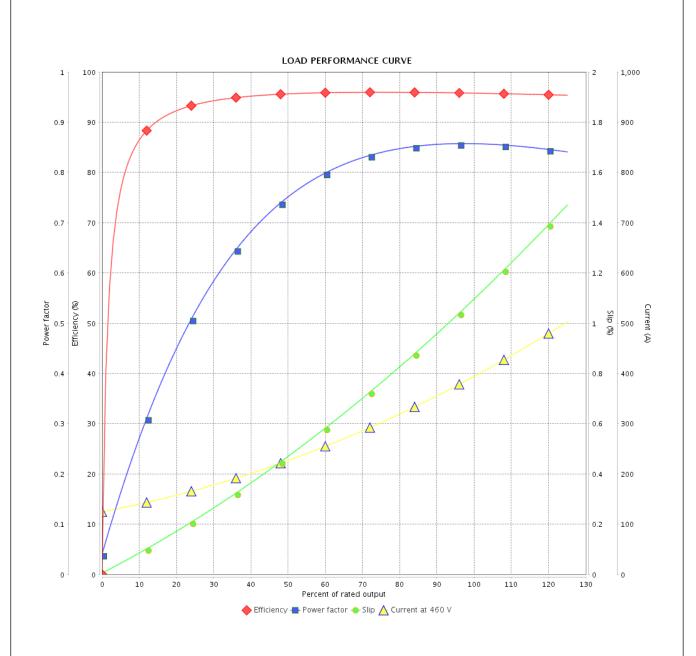
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13325233

Catalog #: 35018OT3G447/9TS-W40

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Performance	: 460 V 60 Hz 4P			
Performance	. 460 V 60 HZ 4P	1		
LRC : 6.6 Duty cycle Rated torque : 1030 ft.lb Insulation class Locked rotor torque : 200 % Service factor		Insulation class	: 66.1 sq.ft.lb : Cont.(S1) : F : 1.15	
Breakdown torque Rated speed	: 229 % : 1780 rpm	Temperature rise Design	: 80 K : B	
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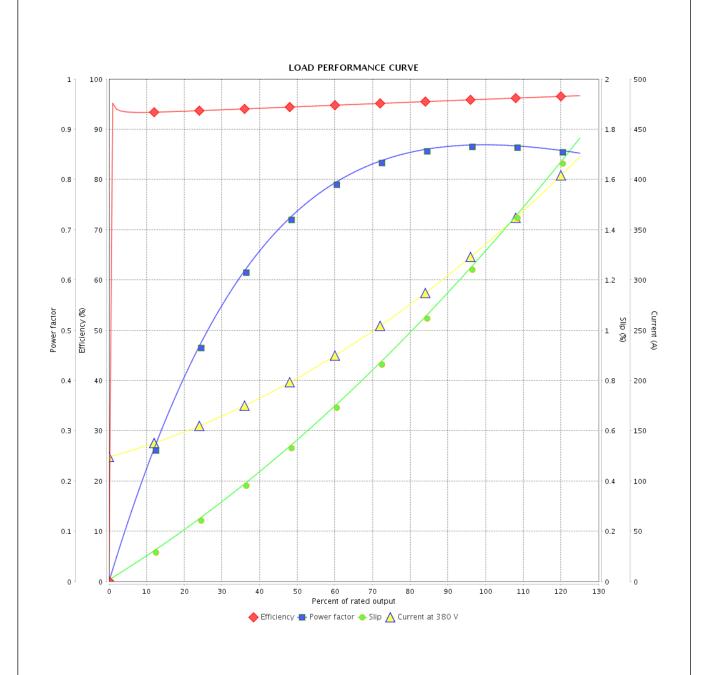


Customer

Product line : W40 NEMA Premium Efficiency Product code : 13325233

Three-Phase

Catalog #: 35018OT3G447/9TS-W40



Performance	:	380 V 50 Hz 4P IE3				
Rated current	:	337 A	Moment o	f inertia (J)	: 66.1 sq.ft.lb	
LRC	:	7.3	Duty cycle)	: Cont.(S1)	
Rated torque	:	887 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	220 %	Service fa	ctor	: 1.15	
Breakdown torque	:	250 %	Temperature rise		: 80 K	
Rated speed	:	: 1480 rpm		Design		
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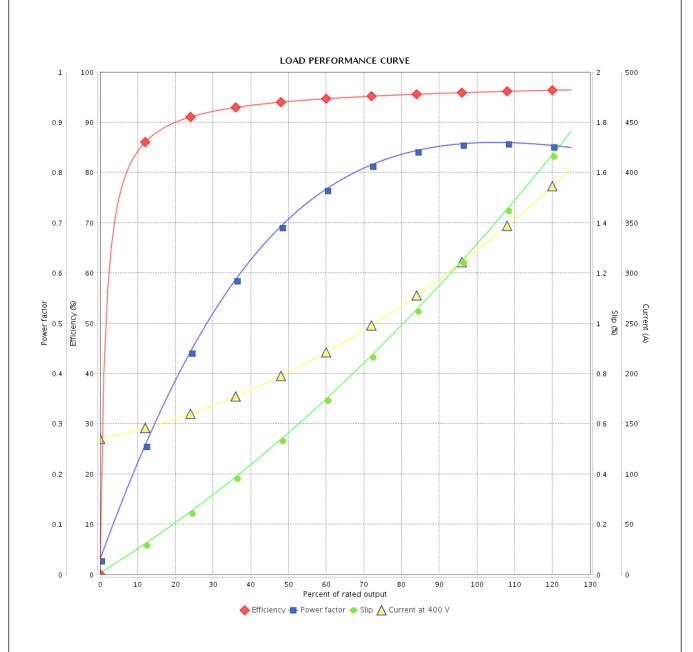
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13325233

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D. (400 \ / 50 \ \ . 4D \ \ F0			
Performance	: 400 V 50 Hz 4P IE3			
Rated current LRC	: 323 A : 8.0	Moment of inertia (J) Duty cycle	: 66.1 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque	: 887 ft.lb Insulation class Service factor		: F : 1.15	
Breakdown torque Rated speed	: 290 % : 1480 rpm	Temperature rise Design	: 80 K : B	
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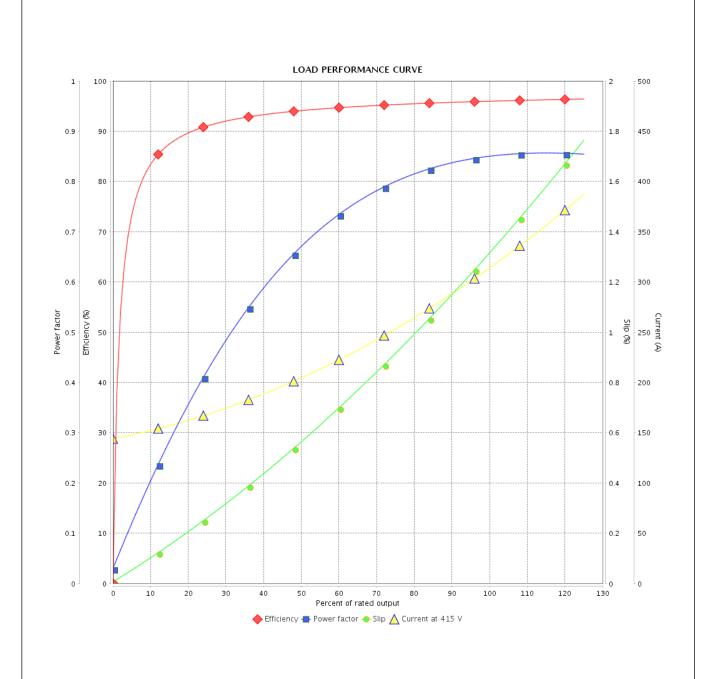


Customer

Product line : W40 NEMA Premium Efficiency Product code : 13325233

Three-Phase

Catalog #: 35018OT3G447/9TS-W40



Performance	:	415 V 50 Hz 4P IE3				
Rated current		315 A	Moment o	f inertia (J)	: 66.1 sq.ft.lb	
LRC	:	9.1	Duty cycle)	: Cont.(S1)	
Rated torque	:	887 ft.lb	Insulation	class	:F	
Locked rotor torque	e :	280 %	Service fa	ctor	: 1.15	
Breakdown torque	:	320 %	Temperature rise		: 80 K	
Rated speed	:	1480 rpm	Design		: B	
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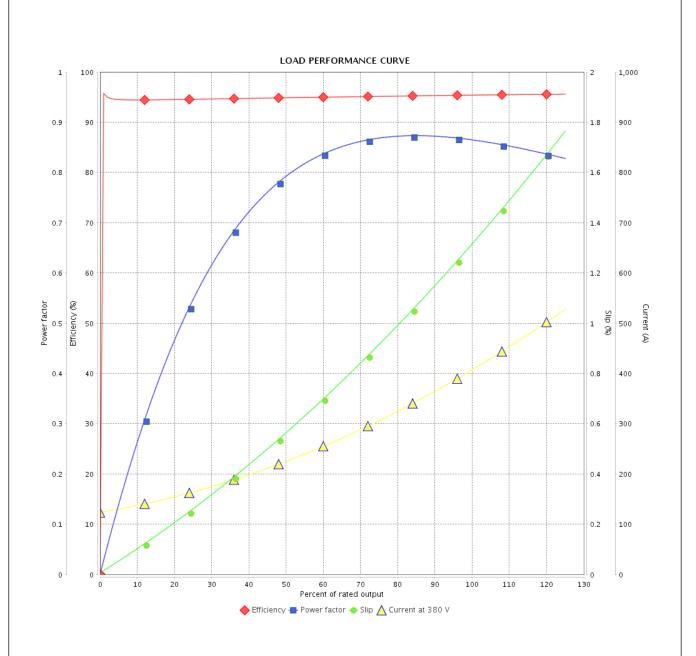
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13325233

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Performance	: 380 V 50 Hz 4P IE2				
Rated current	: 403 A	Moment of inertia (J)		: 66.1 sq.ft.lb	
LRC	: 6.1	Duty cycle	9	: Cont.(S1)	
Rated torque	: 1060 ft.lb	Insulation class		: F	
Locked rotor torque	: 180 %	Service fa	ictor	: 1.15	
Breakdown torque	: 210 %	Temperature rise	: 80 K		
Rated speed	: 1480 rpm			: B	
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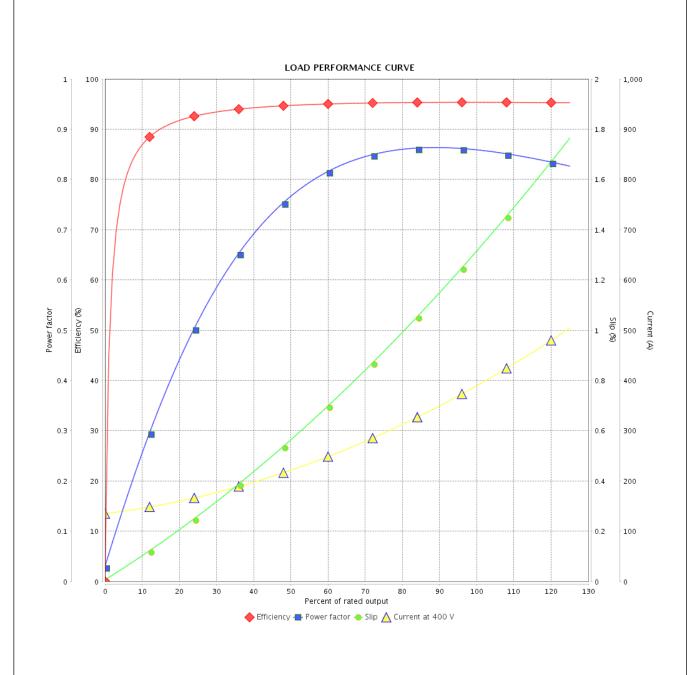


Customer

Product line : W40 NEMA Premium Efficiency Product code : 13325233

Three-Phase

Catalog #: 35018OT3G447/9TS-W40



Performance	:	400 V 50 Hz 4P IE2				
Rated current	:	: 387 A Moment of ir		f inertia (J)	: 66.1 sq.ft.lb	
LRC	:	6.7	Duty cycle	}	: Cont.(S1)	
Rated torque	:	1060 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	210 %	Service fa	ctor	: 1.15	
Breakdown torque	:	240 %	Temperature rise		: 80 K	
Rated speed	:	1480 rpm	Design		: B	
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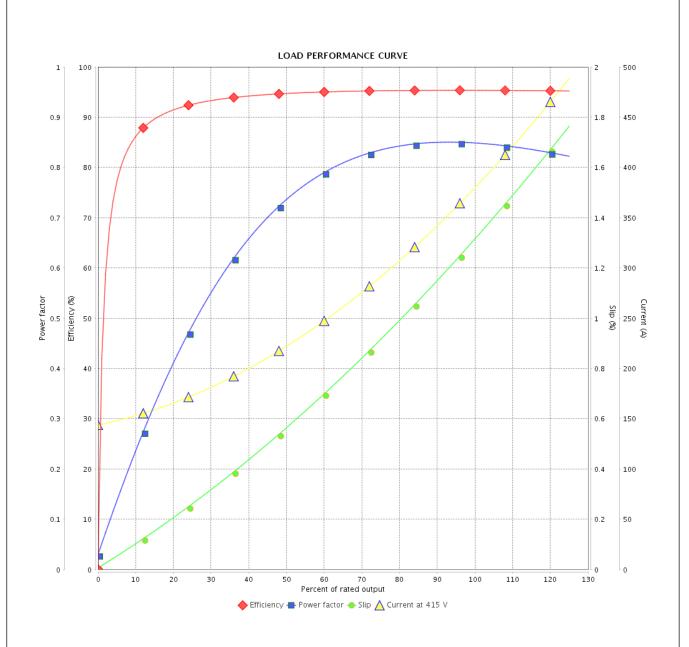
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13325233

Catalog #: 35018OT3G447/9TS-W40

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Performance	:	415 V 50 Hz 4P IE2	2			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: que : ue :	377 A 7.6 1060 ft.lb 229 % 270 % 1480 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		
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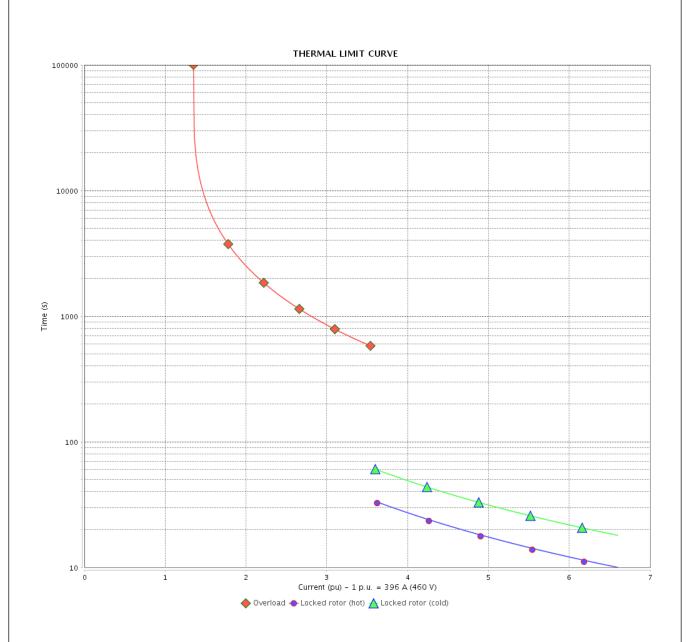


Customer				
Product line	A Premium Efficiency	Product code :	13325233	
	5	Catalog # :	35018OT3G	6447/9TS-W
erformance	· 4P			
lated current RC lated torque ocked rotor tord reakdown torquated speed	Dut Insu Ser	ion class e factor rature rise	: 66.1 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
leating constan				
cooling constant	Summary	Performed	Checked	Date
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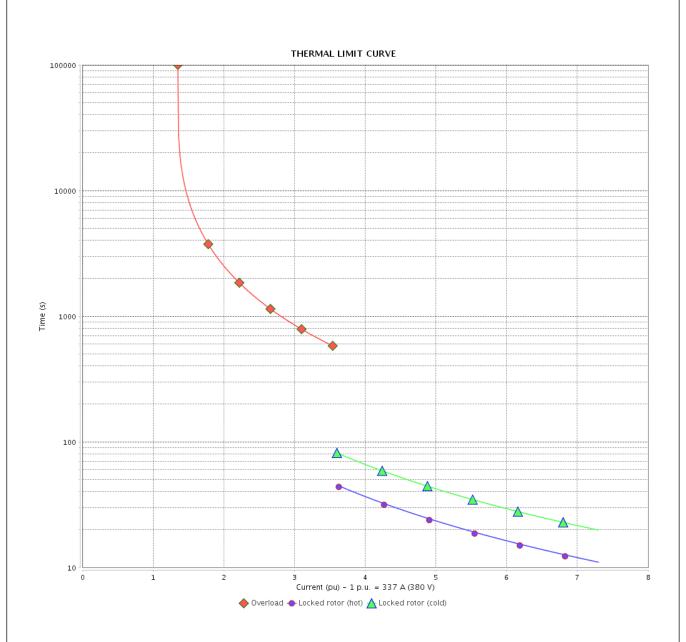


Customer	:					
Product line	:	W40 NEMA Premium Effic	ciency	Product code :	13325233	
	·	THOS T HASS		Catalog # :	35018OT3G	447/9TS-W40
Performance Rated current LRC Rated torque Locked rotor toro	: 3 : 7 : 8	80 V 50 Hz 4P IE3 37 A 387 ft.lb 20 %	Moment of Duty cycle Insulation Service fa	class	: 66.1 sq.ft.lb : Cont.(S1) : F : 1.15	
Breakdown torqu Rated speed	ie : 2	250 % 480 rpm	Temperat Design		: 80 K : B	
Heating constan						
Cooling constan	t			'		
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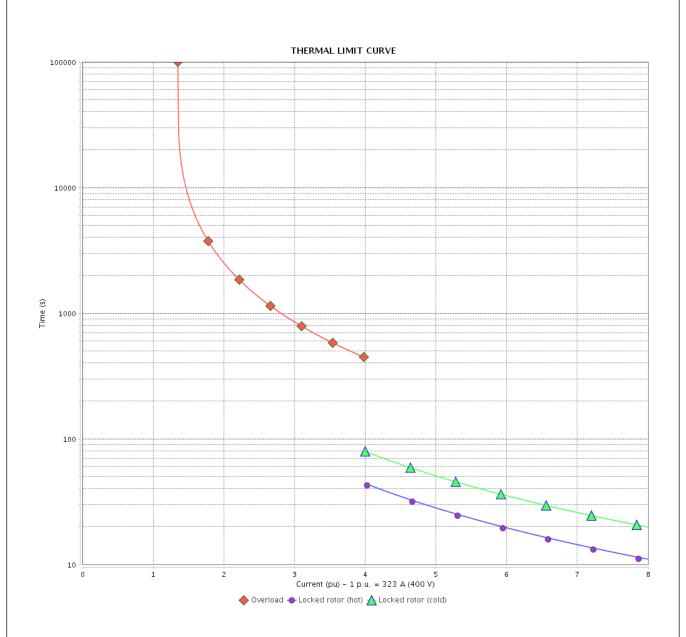


Customer	:				
Product line	: W40 NEMA Premium Effici Three-Phase		Product code : Catalog # :	13325233 35018OT3G	447/9TS-W40
Performance Rated current LRC	: 400 V 50 Hz 4P IE3 : 323 A : 8.0	Moment of	of inertia (J)	: 66.1 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque Breakdown torque Rated speed	: 887 ft.lb : 250 % : 290 % : 1480 rpm	Insulation Service fa Temperati Design	class actor	: F : 1.15 : 80 K : B	
Heating constant Cooling constant					
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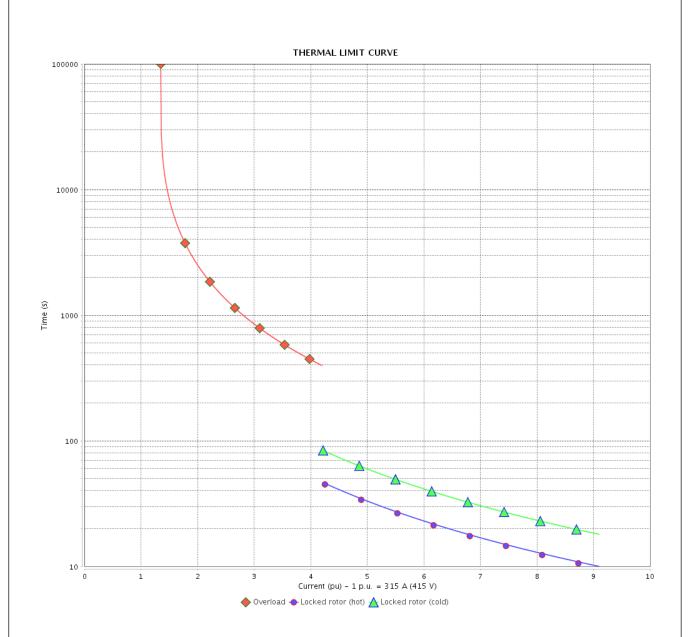


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Product line	,	IA/AO NICMA Decembro Cff:-:	onov	Draduat code :	12205020	
Product line	: T	W40 NEMA Premium Effici hree-Phase		Product code :	13325233	
				Catalog # :	35018OT3G4	147/9TS-W40
Performance		15 V 50 Hz 4P IE3	Mamarit	finantic (1)	. CC 4 # U	
Rated current LRC	: 3 : 9	15 A .1	Moment o	of inertia (J)	: 66.1 sq.ft.lb : Cont.(S1)	
Rated torque	: 8	87 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown tord	que : 2	80 % 20 %	Service fa Temperati		: 1.15 : 80 K	
Rated speed		480 rpm	Design	u. 0 1100	: B	
Heating constan	t					
Cooling constan						
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Three Phase Induction Motor - Squirrel Cage



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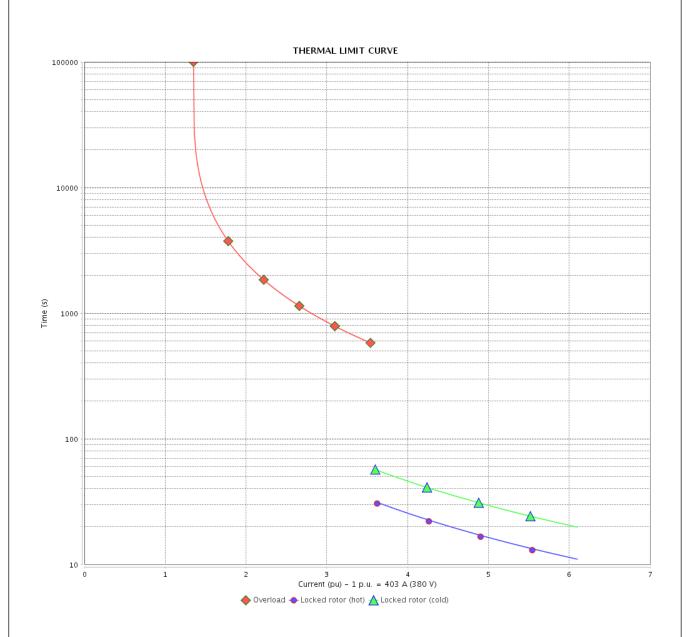


Customer	:					
Product line	: \	W40 NEMA Premium Efficie	ency	Product code :	13325233	
	TI	hree-Phase		Catalog # :	35018OT3G	447/9TS-W40
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed Heating constant Cooling constant	: 40 : 6. : 10 que : 18 ue : 2° : 14	B0 V 50 Hz 4P IE2 03 A 1 060 ft.lb 80 % 10 % 480 rpm	Moment of Duty cycle Insulation Service fa Temperature Design	class ctor	: 66.1 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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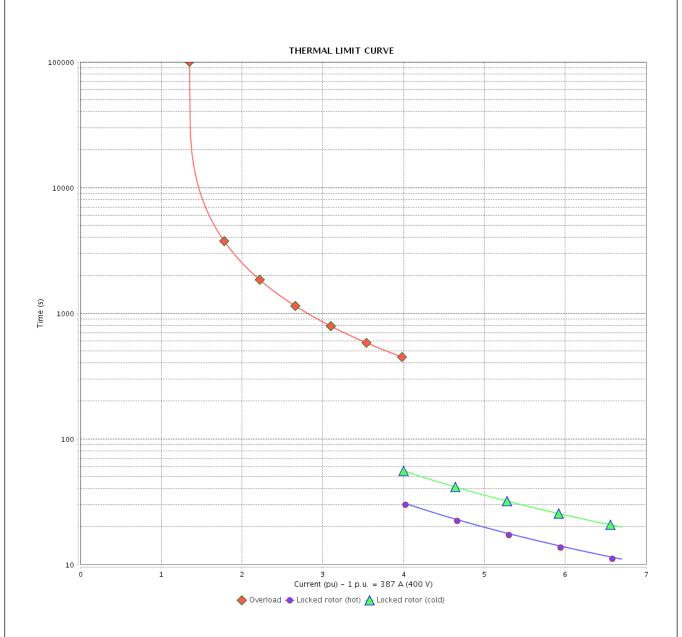


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Product line	- 1	MAAO NIEMA Dromiii Effici	onov.	Droduct and :	12225022	
Product line	T	W40 NEMA Premium Effici hree-Phase	ency	Product code :	13325233	
				Catalog # :	35018OT3G4	147/9TS-W40
Donformon	. 4	00 V 50 H= 4D IF2				
Performance Rated current		00 V 50 Hz 4P IE2 87 A	Moment o	f inertia (J)	: 66.1 sq.ft.lb	
LRC	: 6	.7	Duty cycle	;	: Cont.(S1)	
Rated torque		060 ft.lb 10 %	Insulation Service fa		: F : 1.15	
Locked rotor tord Breakdown torqu		40 %	Temperati		: 80 K	
Rated speed		480 rpm	Design		: B	
Heating constan	t					
Cooling constan	t				1	
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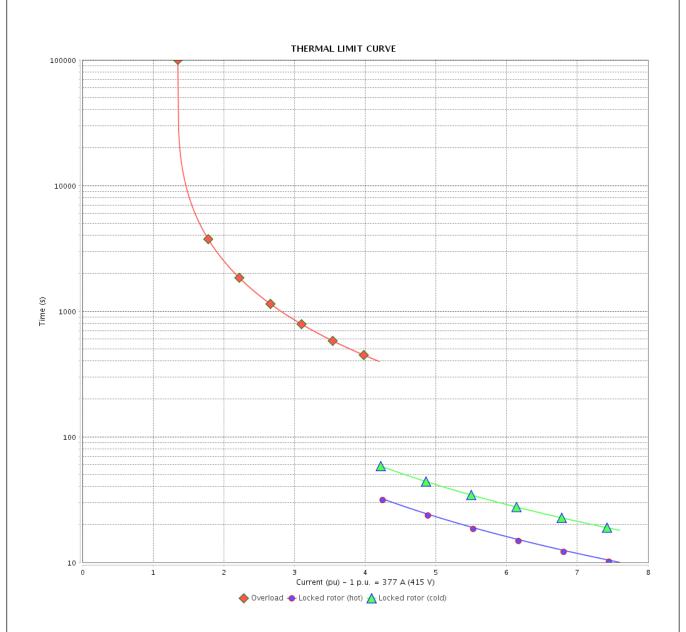


Customer	:					
Product line	: '	W40 NEMA Premium Effic hree-Phase	iency	Product code :	13325233	
	ı	mee-Phase		Catalog # :	35018OT3G	447/9TS-W40
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 3 : 7 : 1 que : 2 ue : 2 : 1	15 V 50 Hz 4P IE2 77 A .6 060 ft.lb 29 % 70 % 480 rpm	Moment of Duty cycle Insulation Service fa Temperati Design	class actor	: 66.1 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constan						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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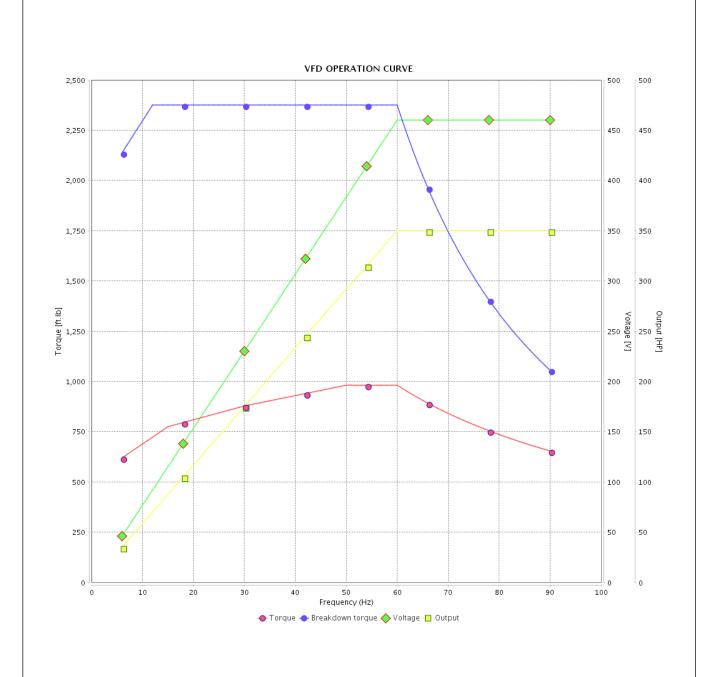
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13325233

Catalog #: 35018OT3G447/9TS-W40



Performance	: 4	60 V 60 Hz 4P				
Rated current	: 3	: 396 A Mo		f inertia (J)	: 66.1 sq.ft.lb	
LRC	: 6	5.6	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	030 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	.00 %	Service fa	ctor	: 1.15	
Breakdown torque	: 2	29 %	7 % Temperature rise		: 80 K	
Rated speed	: 1	780 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



Customer :

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Date

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Product line : W40 NEMA Premium Efficiency

Three-Phase

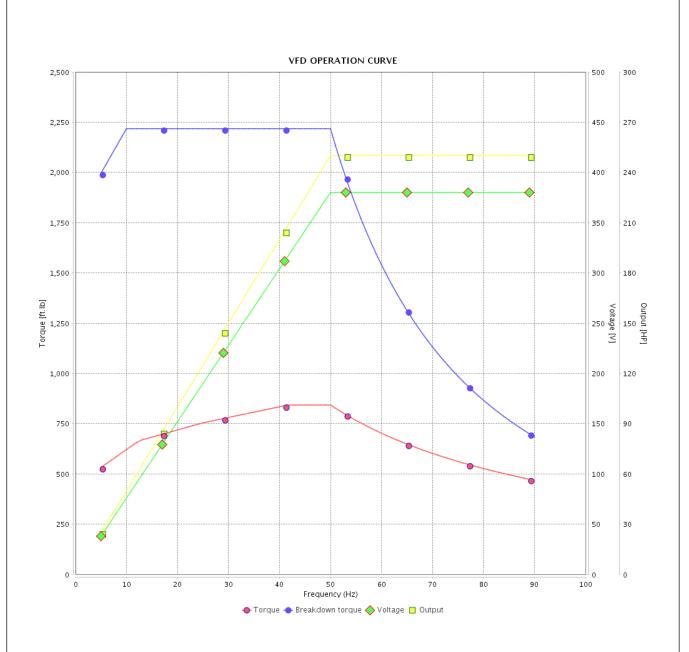
Product code: 13325233

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Performance	:	380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: que :	337 A 7.3 887 ft.lb 220 % 250 % 1480 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 66.1 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



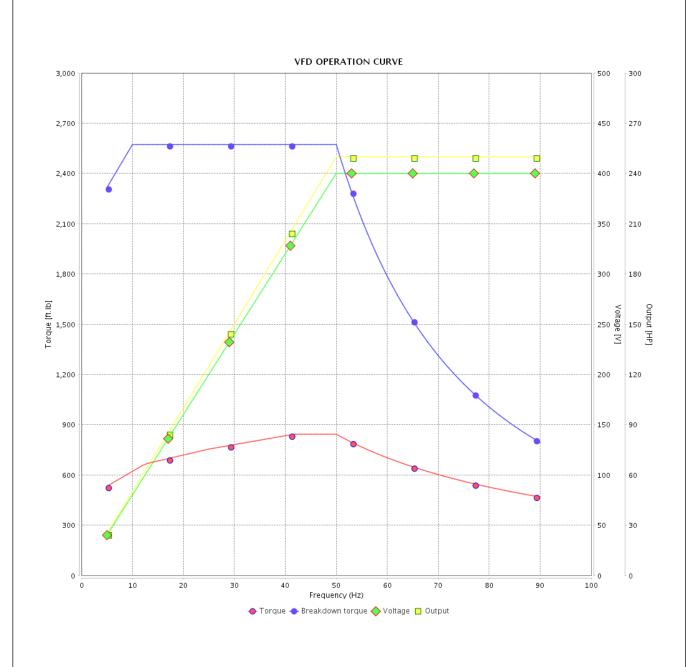
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13325233

Catalog #: 35018OT3G447/9TS-W40



Performance	: 4	00 V 50 Hz 4P IE3				
Rated current	: 3	: 323 A		Moment of inertia (J)		
LRC	: 8	.0	Duty cycle	:	: Cont.(S1)	
Rated torque	: 8	87 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 2	50 %	Service fa	ctor	: 1.15	
Breakdown torqu	e :2	90 %	Temperature rise		: 80 K	
Rated speed	: 1	480 rpm	Design		: B	
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Product line : W40 NEMA Premium Efficiency

Three-Phase

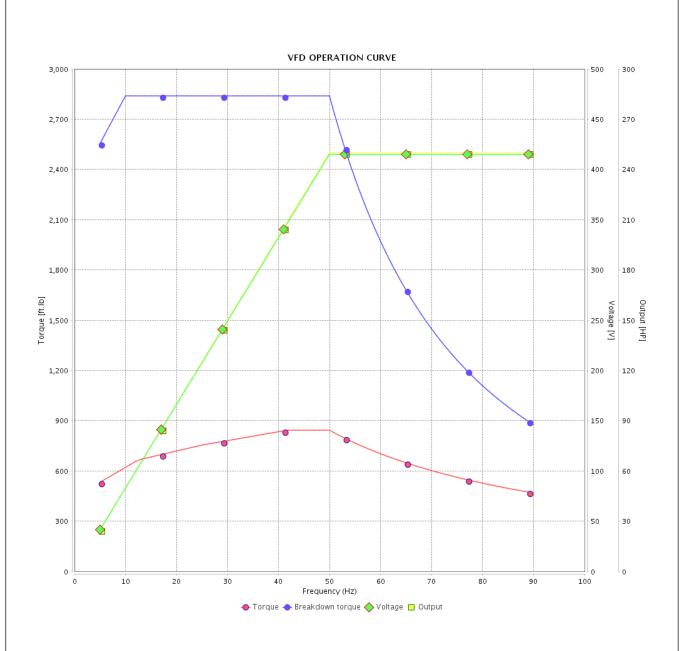
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Revision



: 4′	15 V 50 Hz 4P IE3				
: 9. : 88 jue : 28 ie : 32	.1 87 ft.lb 80 % 20 %	Duty cycle Insulation Service fa	class ctor	: 66.1 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
	Changes Summary	'	Performed	Checked	Date
í	: 3 : 9 : 8 que : 2 ie : 3	ie : 320 % : 1480 rpm	: 315 A	: 315 A Moment of inertia (J) : 9.1 Duty cycle : 887 ft.lb Insulation class que : 280 % Service factor tie : 320 % Temperature rise : 1480 rpm Design	: 315 A

Three Phase Induction Motor - Squirrel Cage



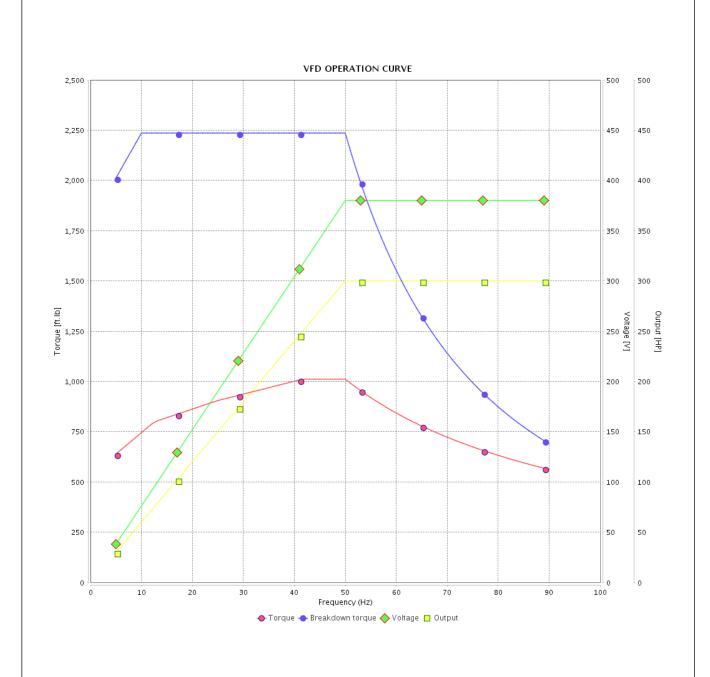
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13325233

Catalog #: 35018OT3G447/9TS-W40



Performance	: 38	80 V 50 Hz 4P IE2				
Rated current	: 40	: 403 A		of inertia (J)	: 66.1 sq.ft.lb	
LRC	: 6.	.1	Duty cycle		: Cont.(S1)	
Rated torque	: 10	060 ft.lb	Insulation	class	: F	
Locked rotor torg	jue : 18	80 %	Service fa	actor	: 1.15	
Breakdown torqu	ie : 2 ⁻	10 %	Temperature rise		: 80 K	
Rated speed	: 14	480 rpm	Design		: B	
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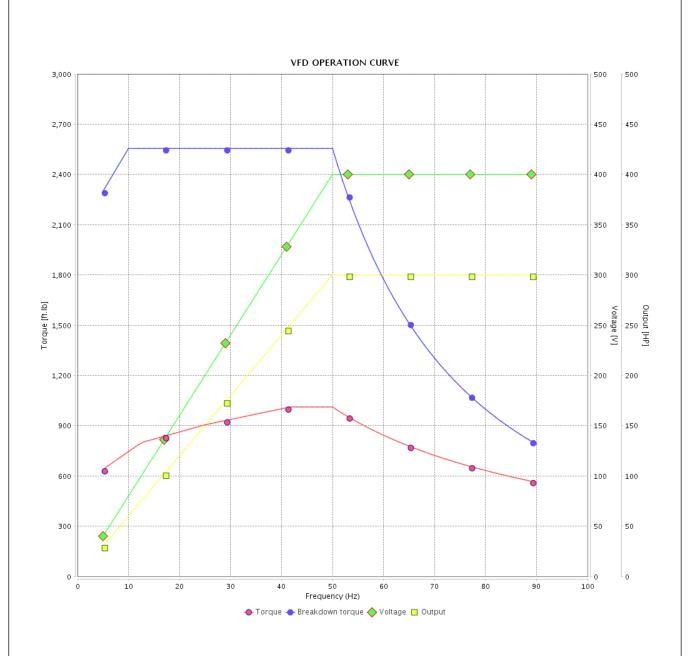
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Three-Phase

Product code: 13325233

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Performance	: 400 V 50 Hz 4P IE2				
Rated current : 387 A		Moment of inertia (J)		: 66.1 sq.ft.lb	
LRC	: 6.7	Duty cycle		: Cont.(S1)	
Rated torque	: 1060 ft.lb	Insulation	class	: F	
Locked rotor torque	: 210 %	Service factor		: 1.15	
Breakdown torque	: 240 %	Temperature rise		: 80 K	
Rated speed	: 1480 rpm	Design		: B	
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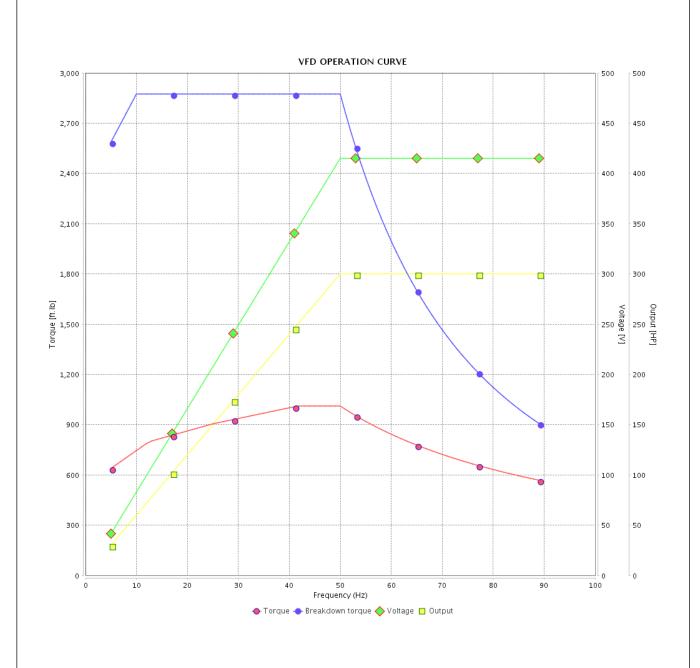
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13325233

Catalog #: 35018OT3G447/9TS-W40



Performance	: 4	415 V 50 Hz 4P IE2				
Rated current	current : 377 A		Moment o	Moment of inertia (J)		
LRC	: 7	7.6	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	1060 ft.lb	Insulation	class	: F	
Locked rotor torqu	e :2	229 %	Service fa	ctor	: 1.15	
Breakdown torque	: 2	270 %	Temperature rise		: 80 K	
Rated speed	: ′	1480 rpm	Design		: B	
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