## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Product code:

Three-Phase

Catalog #: 30018OT3G447/9TS-W40

13413434

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

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line

: 1000 m.a.s.l. Approx. weight3 : 1915 lb Altitude

Protection degree : IP23

Design : B

Moment of inertia (J) : 56.1 sq.ft.lb

Output [HP] 300 250 250 250 Poles 4 4 4 Frequency [Hz] 60 50 50 50 Rated voltage [V] 380 400 415 460 Rated current [A] 344 339 331 323 L. R. Amperes [A] 2407 2236 2416 2519 7.1x(Code H) 6.5x(Code G) 7.3x(Code H) 7.8x(Code J) LRC [A] No load current [A] 105 103 113 120 Rated speed [RPM] 1780 1475 1480 1480 Slip [%] 1.11 1.67 1.33 1.33 Rated torque [ft.lb] 885 890 887 887 Locked rotor torque [%] 220 190 210 229 Breakdown torque [%] 229 210 240 260 Service factor 1.15 1.15 1.15 1.15 Temperature rise 80 K 80 K 80 K 80 K Locked rotor time 28s (cold) 16s (hot) 21s (cold) 12s (hot) 21s (cold) 12s (hot) 21s (cold) 12s (hot) Noise level<sup>2</sup> 77.0 dB(A) 25% 95.7 94.3 94.3 94.3 50% 95.8 95.0 95.0 95.0 Efficiency (%) 75% 95.4 95.4 95.4 95.8 100% 95.8 96.0 96.0 96.0 25% 0.52 0.52 0.48 0.45 50% 0.73 0.70 0.76 0.76 Power Factor 75% 0.79 0.83 0.83 0.81

> Drive end Non drive end Foundation loads

0.85

Bearing type 6314 C3 6314 C3 Max. traction : 5191 lb Sealing Without Without Max. compression : 7106 lb

Bearing Seal Bearing Seal 20000 h Lubrication interval 20000 h

0.85

Lubricant amount 27 g 27 g Lubricant type Mobil Polyrex EM

100%

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.

0.84

0.83

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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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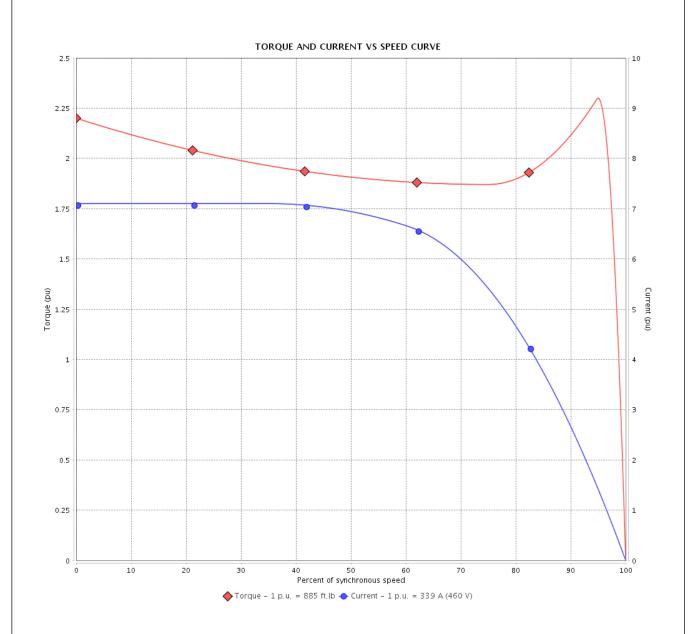
## Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Product code: 13413434

Catalog #: 30018OT3G447/9TS-W40



Performance	: 460 V 60 Hz 4P			
Rated current	: 339 A	Moment of inertia (J)	: 56.1 sq.ft.lb	
LRC	: 7.1	Duty cycle	: Cont.(S1)	
Rated torque	: 885 ft.lb	Insulation class	: <b>F</b>	
Locked rotor torque	: 220 %	Service factor	: 1.15	
Breakdown torque	: 229 %	Temperature rise	: 80 K	
Rated speed	: 1780 rpm	Design	: B	
Locked rotor time	: 28s (cold) 16s (hot)	I		

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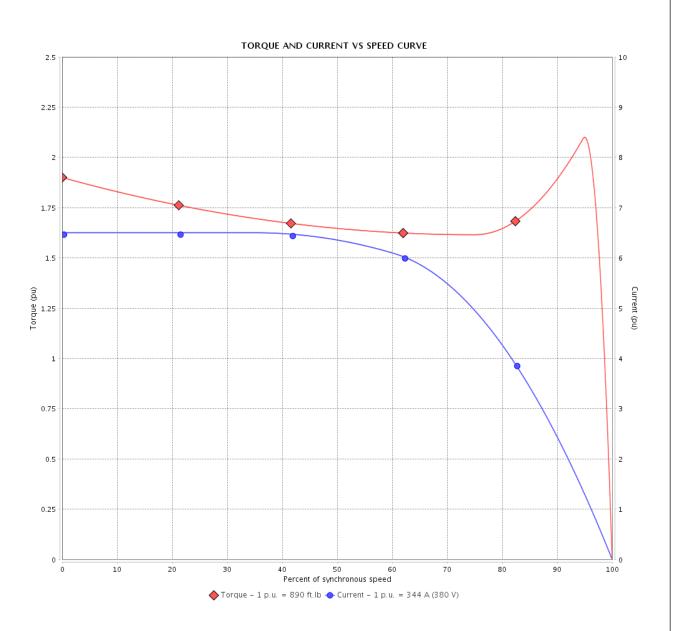
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13413434

Catalog #: 30018OT3G447/9TS-W40



Performance : 380 V 50 Hz 4P IE3 Rated current : 344 A Moment of inertia (J) : 56.1 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) : F : 890 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 190 % : 1.15 Breakdown torque : 210 % Temperature rise : 80 K Rated speed : 1475 rpm Design : B Locked rotor time

: 21s (cold) 12s (hot)

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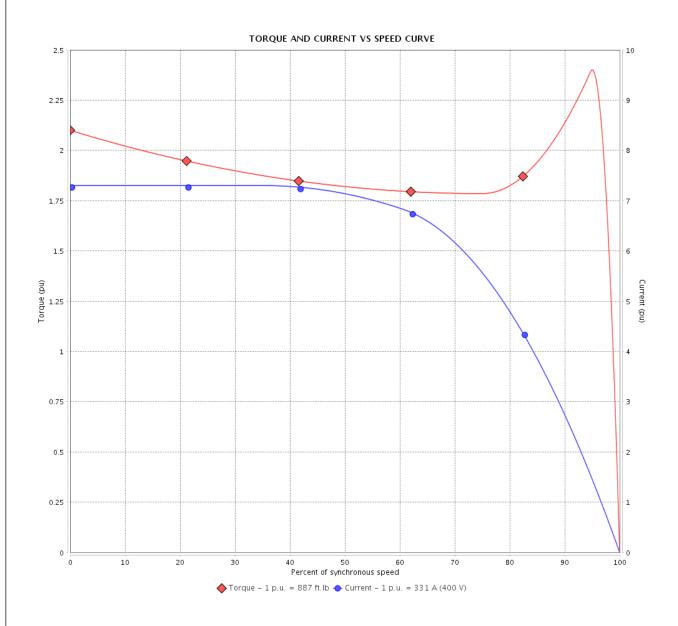
Customer

Product line : W40 NEMA Premium Efficiency Product

Three-Phase

Product code: 13413434

Catalog # : 30018OT3G447/9TS-W40



Performance	: 400 V 50 Hz 4P IE3			
Rated current	: 331 A	Moment of inertia (J)	: 56.1 sq.ft.lb	
LRC	: 7.3	Duty cycle	: Cont.(S1)	
Rated torque	: 887 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	

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

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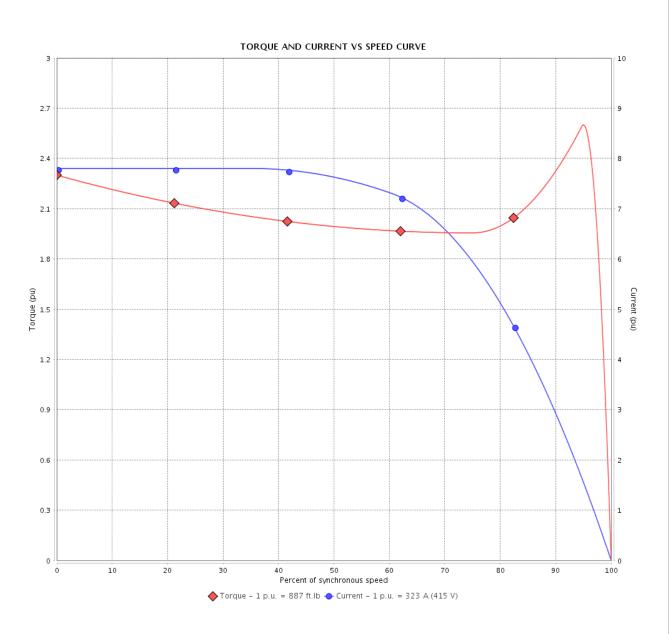
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13413434

Catalog #: 30018OT3G447/9TS-W40



Performance : 415 V 50 Hz 4P IE3 Rated current : 323 A Moment of inertia (J) : 56.1 sq.ft.lb **LRC** : 7.8 Duty cycle : Cont.(S1) : F : 887 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 229 % : 1.15 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B

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

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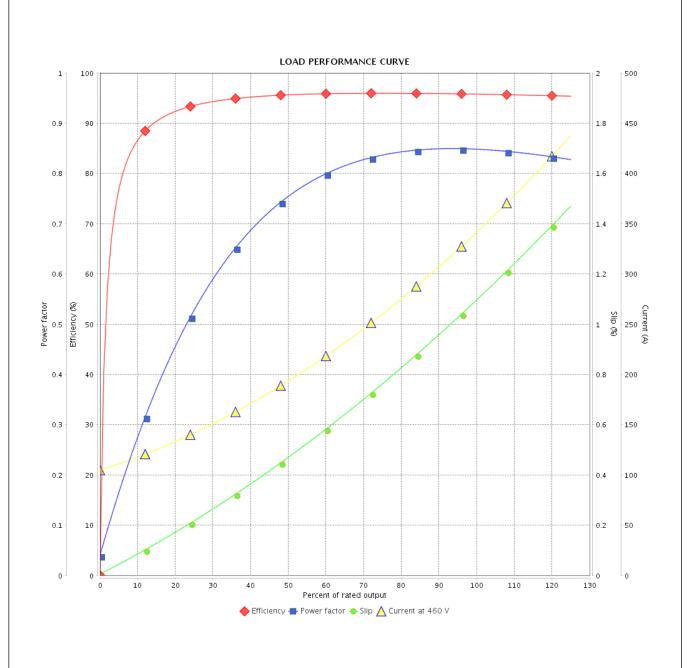


Customer

Product line : W40 NEMA Premium Efficiency Product code : 13413434

Three-Phase

Catalog #: 30018OT3G447/9TS-W40



Performance	: •	460 V 60 Hz 4P				
Rated current	::	339 A	Moment o	f inertia (J)	: 56.1 sq.ft.lb	
LRC	: '	7.1	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: :	885 ft.lb	Insulation	class	:F	
Locked rotor torque	e ::	220 %	Service factor Temperature rise		: 1.15	
Breakdown torque		229 %			: 80 K	
Rated speed	:	: 1780 rpm		Design		
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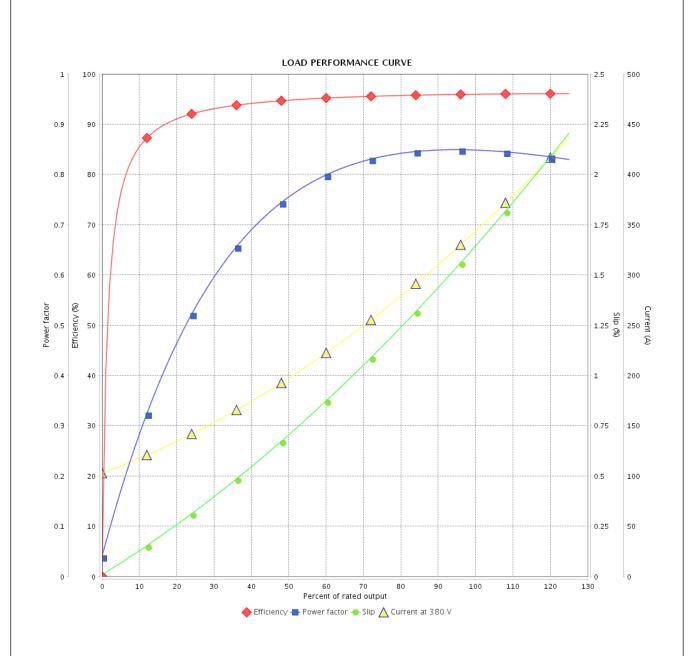
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13413434

Catalog #: 30018OT3G447/9TS-W40

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Performance	:	380 V 50 Hz 4P IE3	3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : : :que :	: 344 A       Moment of inertia (J)       : 56.1 sq.ft         : 6.5       Duty cycle       : Cont.(S1)         : 890 ft.lb       Insulation class       : F         : 190 %       Service factor       : 1.15         : 210 %       Temperature rise       : 80 K         : 1475 rpm       Design       : B		Duty cycle Insulation class Service factor Temperature rise		
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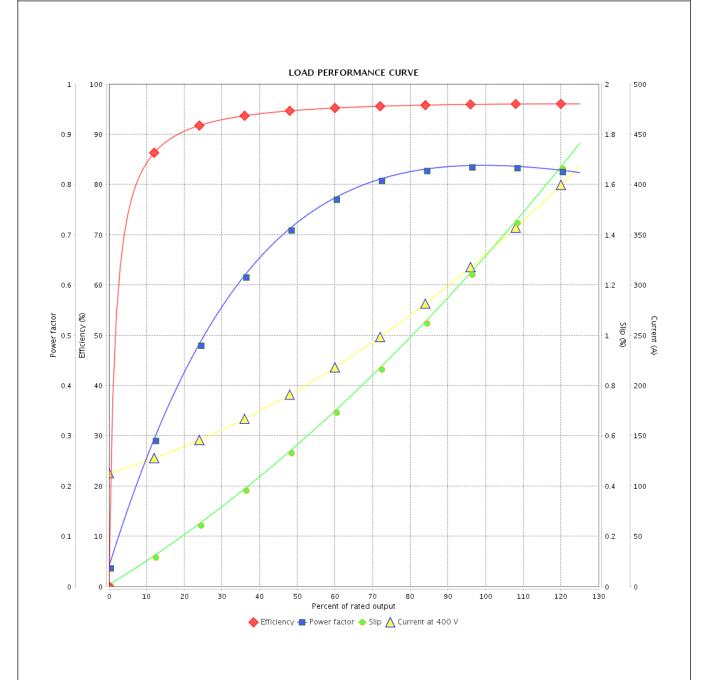


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Product line : W40 NEMA Premium Efficiency Product code : 13413434

Three-Phase

Catalog #: 30018OT3G447/9TS-W40



Performance	: 4	00 V 50 Hz 4P IE3				
Rated current	: 3	31 A	Moment o	f inertia (J)	: 56.1 sq.ft.lb	
LRC	: 7	7.3	Duty cycle	<b>:</b>	: Cont.(S1)	
Rated torque	: 8	87 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	10 %	Service fa	ctor	: 1.15	
Breakdown torque	: 2	40 %	7 % Temperature rise		: 80 K	
Rated speed	: 1	480 rpm	Design		: B	
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Product line : W40 NEMA Premium Efficiency

Three-Phase

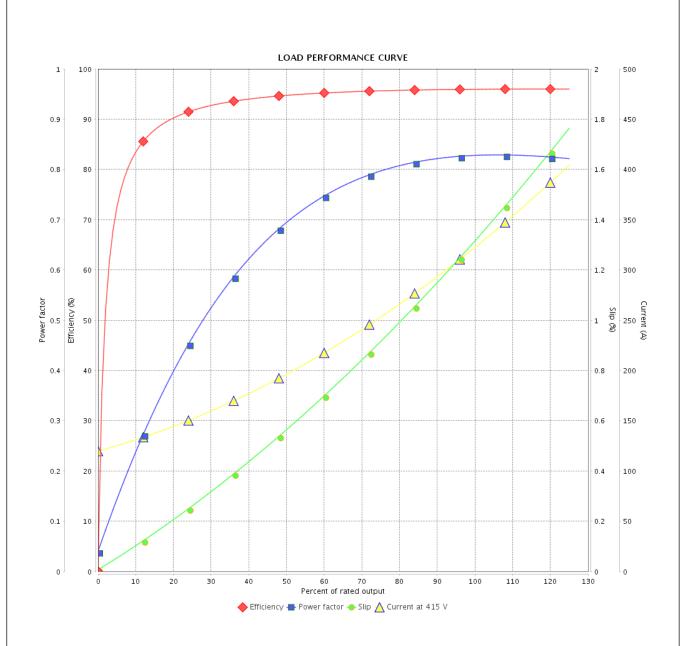
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Performance : 415 V 50 Hz 4P IE3 Rated current : 323 A Moment of inertia (J) : 56.1 sq.ft.lb **LRC** : 7.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 887 ft.lb : F Locked rotor torque : 229 % Service factor : 1.15 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

## Three Phase Induction Motor - Squirrel Cage

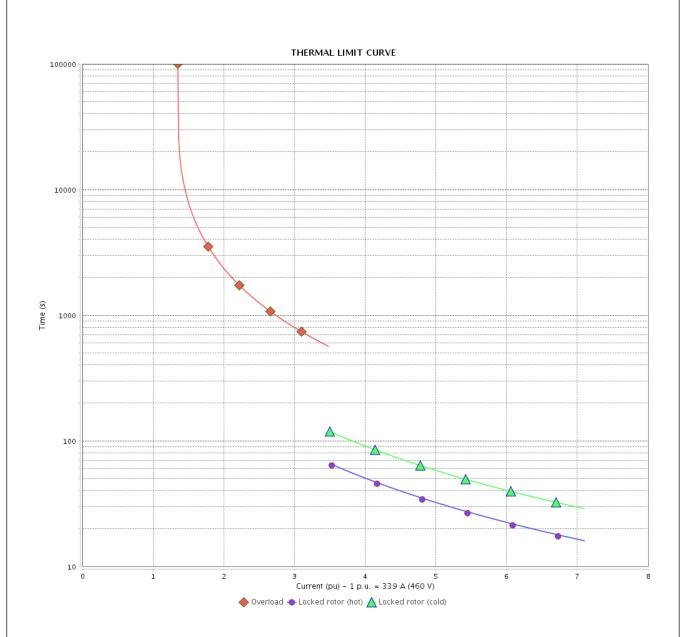


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Product line	.,	W40 NEMA Premium Effici	ionov	Product code :	13413434	
FIOUUCI IIIIE	Т	hree-Phase				
				Catalog # :	30018OT3G	447/9TS-W40
Performance	: 3	60 V 60 Hz 4P 39 A		of inertia (J)	: 56.1 sq.ft.lb	
LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	que : 2 ue : 2 : 1	.1 85 ft.lb 20 % 29 % 780 rpm	Duty cycle Insulation Service fa Temperate Design	class ictor	: Cont.(S1) : F : 1.15 : 80 K : B	
Heating constan						
Cooling constant	<u> </u>	01		Devit 1	Ob. 1	
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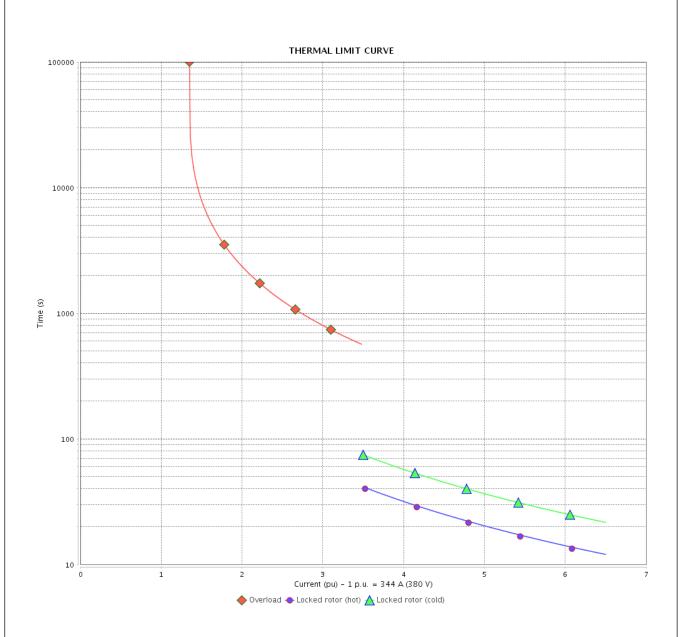


Product line : W40 NEMA Premium Efficiency Three-Phase	Product code : Catalog # :	13413434 30018OT3G4	447/9TS-W
THEE-F Hase	Catalog # :	30018OT3G4	447/9TS-W
	nt of inertia (J)	: 56.1 sq.ft.lb	
ocked rotor torque : 190 % Service	ion class e factor rature rise	: Cont.(S1) : F : 1.15 : 80 K : B	
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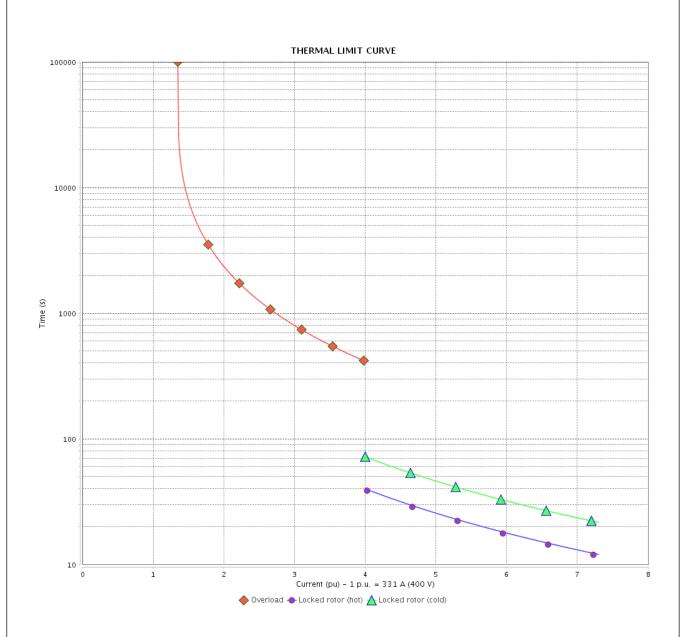


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Product line	:\	W40 NEMA Premium Efficie	ency	Product code :	13413434	
	TI	hree-Phase		Catalog # :	30018OT3G	447/9TS-W40
Performance Rated current LRC Rated torque	: 33 : 7. : 88	87 ft.lb	Duty cycle Insulation	class	: 56.1 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord Breakdown tord Rated speed	ue : 24 : 14	10 % 40 % 480 rpm	Service fa Temperatu Design		: 1.15 : 80 K : B	
Heating constan						
Cooling constan Rev.	t	Changes Summary		Performed	Checked	Date
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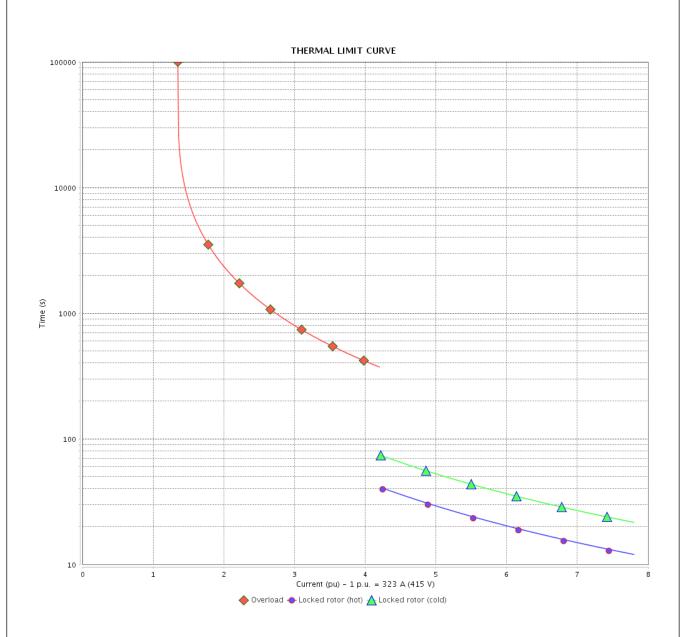


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Product line	: Т	W40 NEMA Premium Effici hree-Phase		Product code :	13413434	
				Catalog # :	30018OT3G	147/9TS-W40
D . (		45.7.50.11. 40.150				
Performance Rated current		15 V 50 Hz 4P IE3 23 A	Moment	f inertia (J)	: 56.1 sq.ft.lb	
LRC	. 3 : 7		Duty cycle	e inertia (J)	: Cont.(S1)	
Rated torque		87 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		29 % 60 %	Service fa Temperati		: 1.15 : 80 K	
Rated speed		480 rpm	Design		: B	
Heating constan	t					
Cooling constan						
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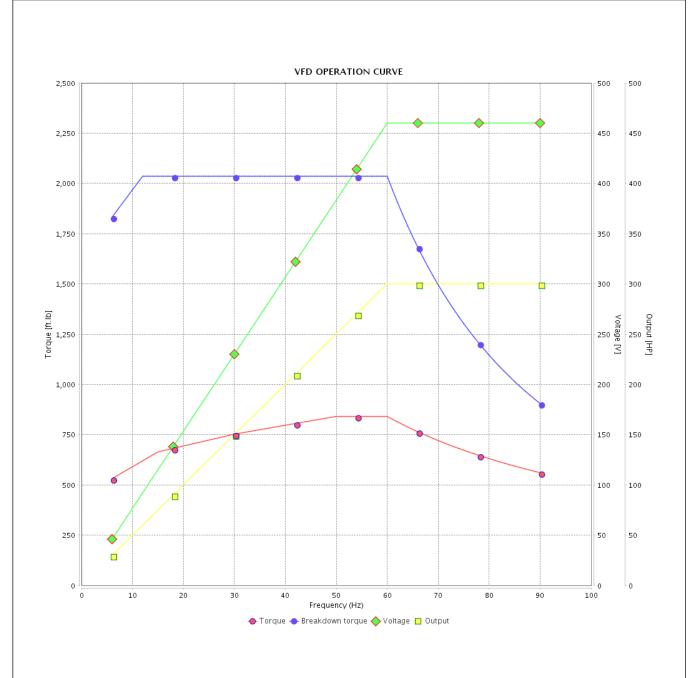
Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Catalog #:

13413434

30018OT3G447/9TS-W40



Performance	: 40	60 V 60 Hz 4P				
Rated current	: 3:	39 A	Moment o	f inertia (J)	: 56.1 sq.ft.lb	
LRC	: 7.	.1	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 88	85 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2:	20 %	Service fa	ctor	: 1.15	
Breakdown torque	: 2	29 %	9 % Temperature rise		: 80 K	
Rated speed	: 1	780 rpm	Design		: B	
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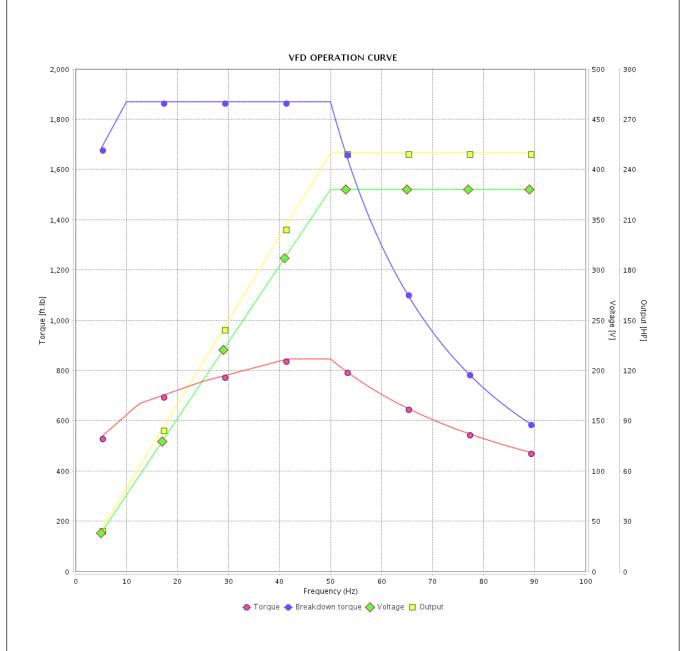
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13413434

Catalog #: 30018OT3G447/9TS-W40

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				,	
Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC	: 344 A : 6.5	Moment of inertia (J) Duty cycle		: 56.1 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque Breakdown torque	: 890 ft.lb : 190 % : 210 %	Insulation class Service factor Temperature rise		: F : 1.15 : 80 K	
Rated speed	: 1475 rpm	Design		: B	
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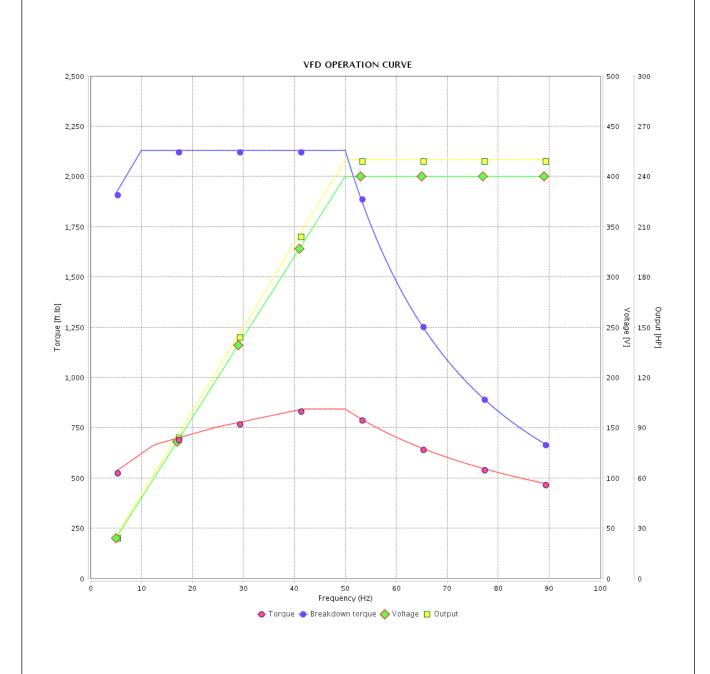
Customer :

Product line : W40 NEMA Premium Efficiency Produ

Three-Phase

Product code: 13413434

Catalog #: 30018OT3G447/9TS-W40



Performance	:	400 V 50 Hz 4P IE3				
Rated current		331 A	Moment o	f inertia (J)	: 56.1 sq.ft.lb	
LRC	:	7.3	Duty cycle	)	: Cont.(S1)	
Rated torque	:	887 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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Three-Phase

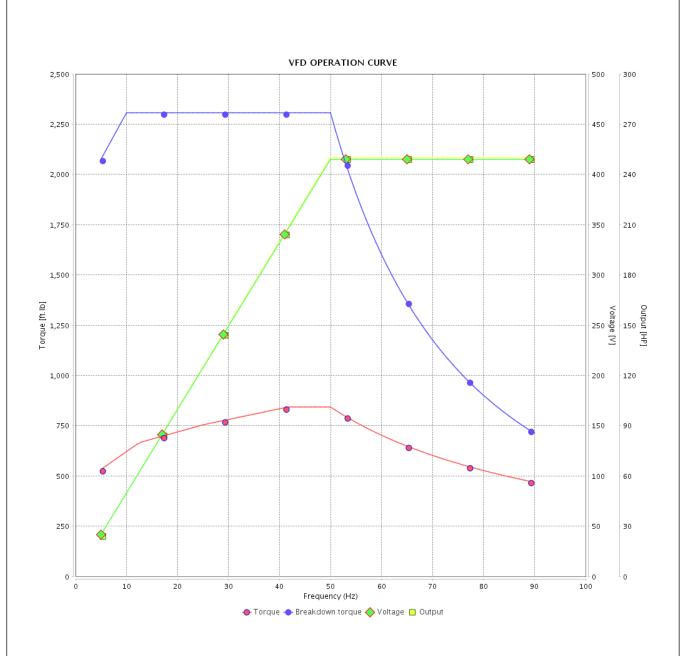
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Performance	: 415 V 50 Hz 4P IE3	· · · · · · · · · · · · · · · · · · ·			
renomiance	. 415 V 50 HZ 4F 1E5				
Rated current	: 323 A	Moment of inertia (J)		: 56.1 sq.ft.lb	
LRC	: 7.8	Duty cycle		: Cont.(S1)	
Rated torque	: 887 ft.lb	Insulation class		:F	
Locked rotor torque	: 229 %	Service factor		: 1.15	
Breakdown torque	: 260 %	Temperature rise		: 80 K	
Rated speed	: 1480 rpm	Design		: B	
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