DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Product code:

Three-Phase

30018OT3G447/9T-W40 Catalog #:

13621553

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 Starting method Ambient temperature : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight³ : 1951 lb Protection degree : IP23 Moment of inertia (J) : 56.1 sa.ft.lb

Protection degree		. IP23	25 Wioment of mertia (J) . 50.1 Sq.it.ib		sq.ii.ib
Design		: B			
Output [HP]		300	250	250	250
Poles		4	4	4	4
Frequency [Hz]		60	50	50	50
Rated voltage [V]		460	380	400	415
Rated current [A]		339	344	331	323
L. R. Amperes [A]		2407	2236	2416	2519
LRC [A]		7.1x(Code H)	6.5x(Code G)	7.3x(Code H)	7.8x(Code J)
No load current [A]	105	103	113	120
Rated speed [RPN	1]	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 ²		77.0 dB(A)			
	25%	95.7	94.3	94.3	94.3
Efficiency (%)	50%	95.8	95.0	95.0	95.0
Liliciency (70)	75%	95.8	95.4	95.4	95.4
100%		95.8	96.0	96.0	96.0
	25%	0.52	0.52	0.48	0.45
Power Factor	50%	0.76	0.76	0.73	0.70
I OWEL FACIOI	75%	0.83	0.83	0.81	0.79
	100%	0.85	0.85	0.84	0.83

Drive end Non drive end Foundation loads

Bearing type 6314 C3 6319 C3 Max. traction : 5173 lb Without Sealing Without

Max. compression : 7124 lb Bearing Seal Bearing Seal Lubrication interval 20000 h 20000 h

45 g Lubricant amount 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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Thermal protection

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

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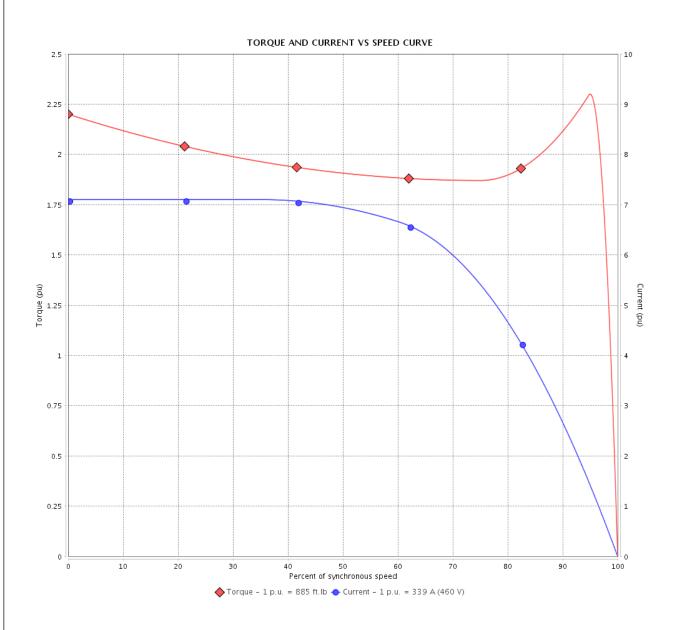
Customer :

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

roduct code: 13621553

Catalog #: 30018OT3G447/9T-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	: F	
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)			

Locked rotor time : 28s (cold) 16s (hot)

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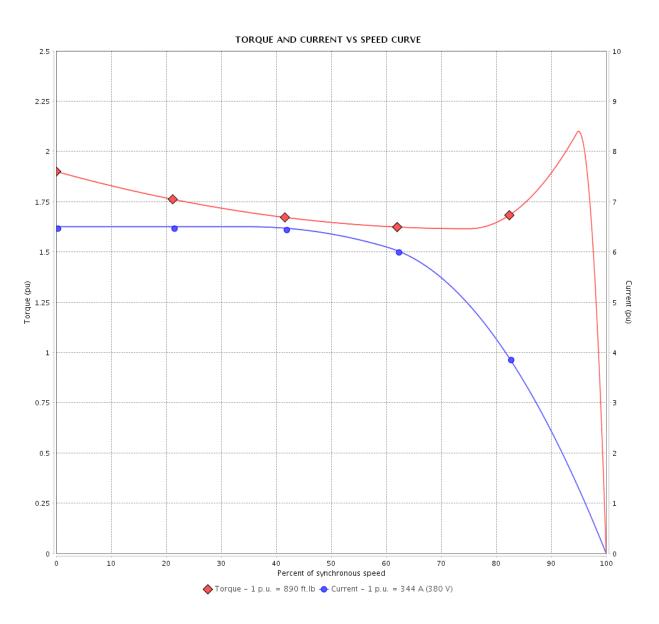
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13621553

Catalog #: 30018OT3G447/9T-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)	
Rated torque	: 890 ft.lb	Insulation class	: F ` ´	
Locked rotor torque	: 190 %	Service factor	: 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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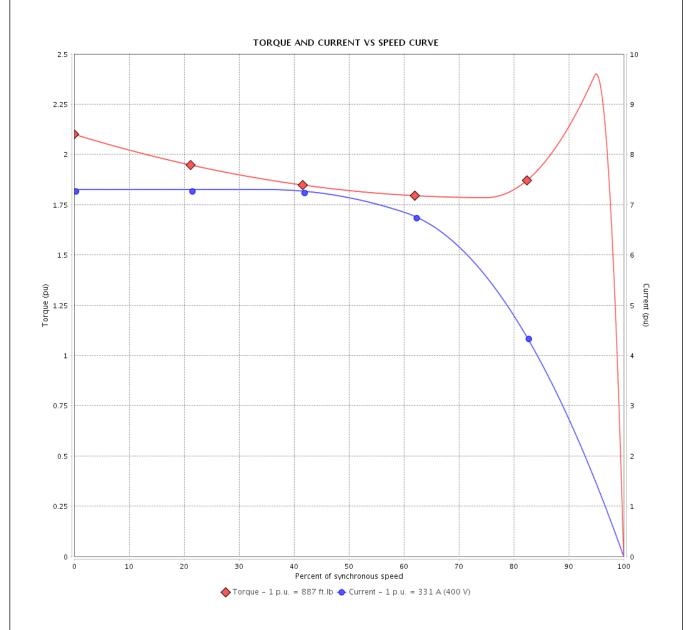


Customer :

Product line : W40 NEMA Premium Efficiency Product code : 13621553

Three-Phase

Catalog #: 30018OT3G447/9T-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)			

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

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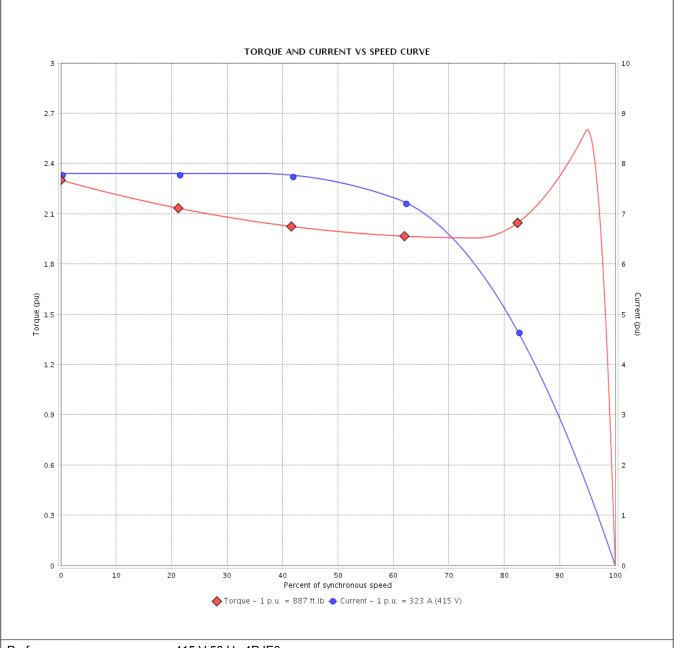
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 13621553

Catalog #: 30018OT3G447/9T-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

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

: 1480 rpm

Rated speed

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Design

: B

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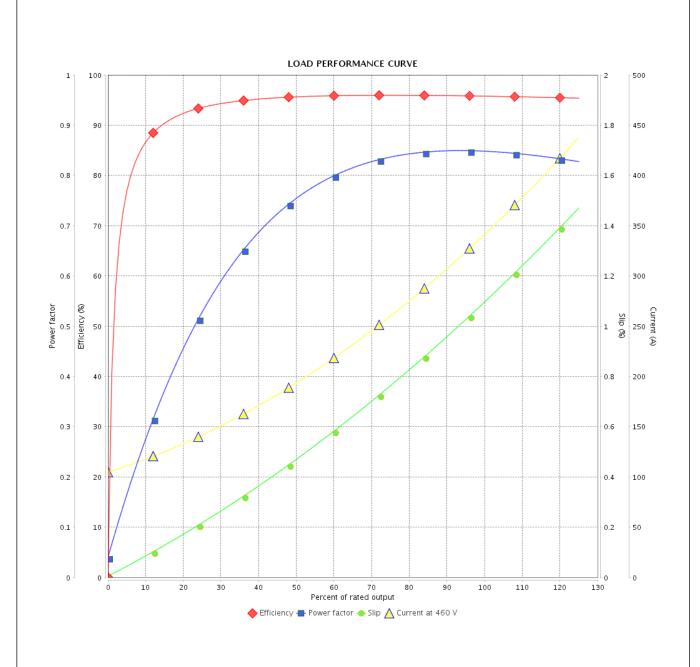
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Performance	: 460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 339 A : 7.1 : 885 ft.lb : 220 % : 229 % : 1780 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 56.1 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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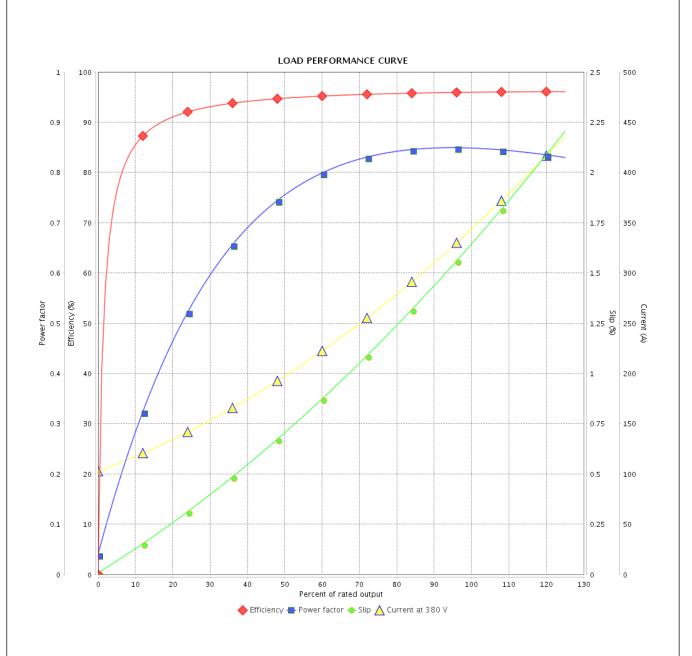
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Product code: 13621553

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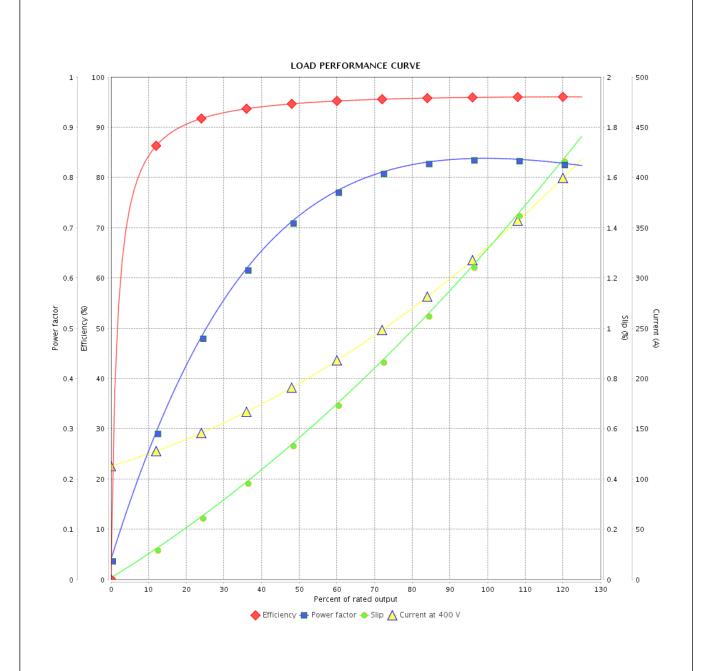
Customer

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Three-Phase

Product code: 13621553

Catalog #: 30018OT3G447/9T-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	.3	Duty cycle	;	: Cont.(S1)	
Rated torque	: 8	87 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	10 %	Service fa	ctor	: 1.15	
Breakdown torque	: : 2	40 %	Temperati	ıre rise	: 80 K	
Rated speed	: 1	480 rpm	Design		: B	
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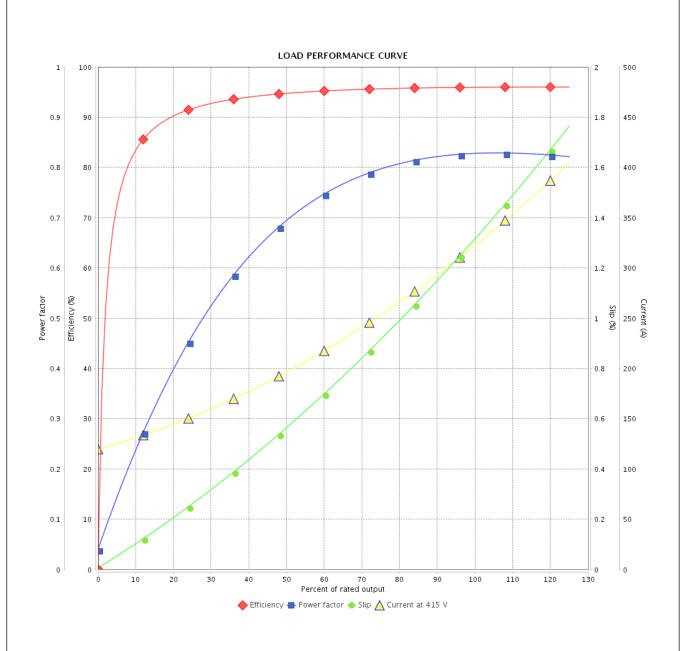
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Three-Phase

Product code: 13621553

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Performance	: 415 V 50 Hz 4P IE3				
Rated current	: 323 A	Moment of	of inertia (J)	: 56.1 sq.ft.lb	
LRC	: 7.8	Duty cycle	9	: Cont.(S1)	
Rated torque	: 887 ft.lb	Insulation	class	: F	
Locked rotor torque	: 229 %	Service fa	ictor	: 1.15	
Breakdown torque	: 260 %	Temperature rise		: 80 K	
Rated speed	: 1480 rpm	Design		: B	
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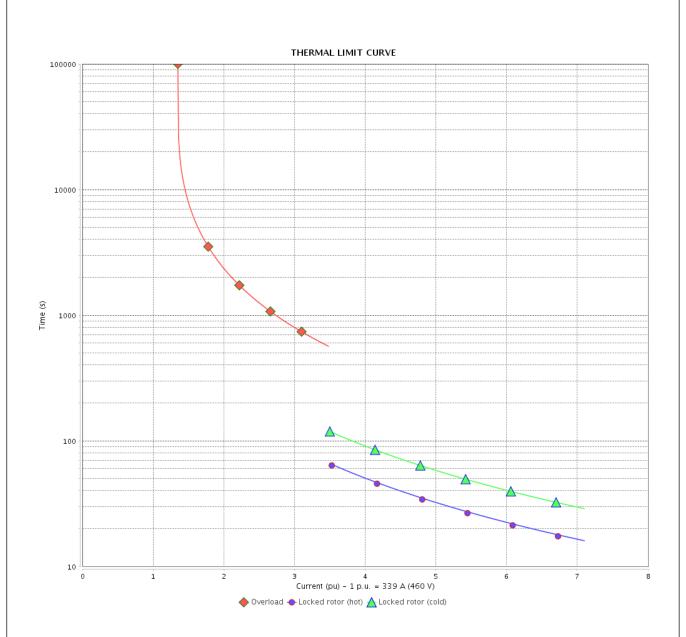


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Product line		W40 NEMA Premium Effic hree-Phase	ciency	Product code :	13621553	
		illee-riidse		Catalog # :	30018OT3G	447/9T-W40
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 3 : 7 : 8 que : 2 ue : 2	60 V 60 Hz 4P 39 A .1 85 ft.lb 20 % 29 % 780 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 56.1 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
leating constan						
Cooling constan	t	01 0				
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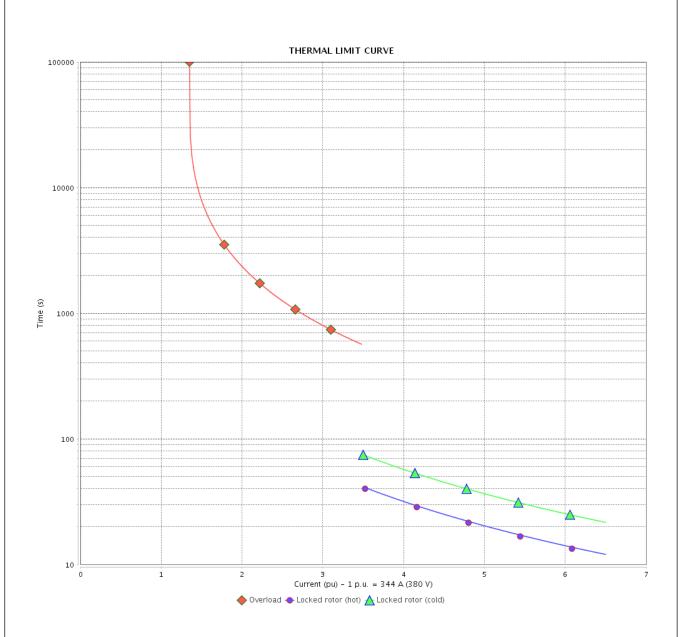


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Customer	:					
Product line	: \ TI	W40 NEMA Premium Effici hree-Phase	ency	Product code :	13621553	
		ince i nase		Catalog # :	30018OT3G	447/9T-W40
Performance		80 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 3 ⁴ : 6. : 89 que : 19 ue : 2 ⁻	44 A	Moment of Duty cycle Insulation Service fa Temperate Design	class ector	: 56.1 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constan						
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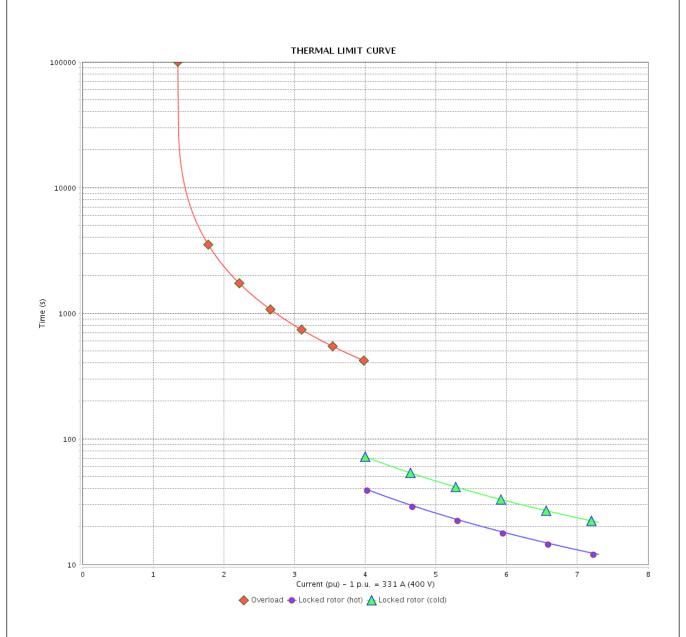


Customer	:					
Product line	: ' T	W40 NEMA Premium Effici hree-Phase	iency	Product code :	13621553	
		illee-Filase		Catalog # :	30018OT3G	447/9T-W40
Performance Rated current RC Rated torque Locked rotor tord Breakdown torque Rated speed	: 3: : 7 : 8: que : 2: ue : 2:	00 V 50 Hz 4P IE3 31 A .3 87 ft.lb 10 % 40 % 480 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 56.1 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constan						
Cooling constant	<u> </u>	-				
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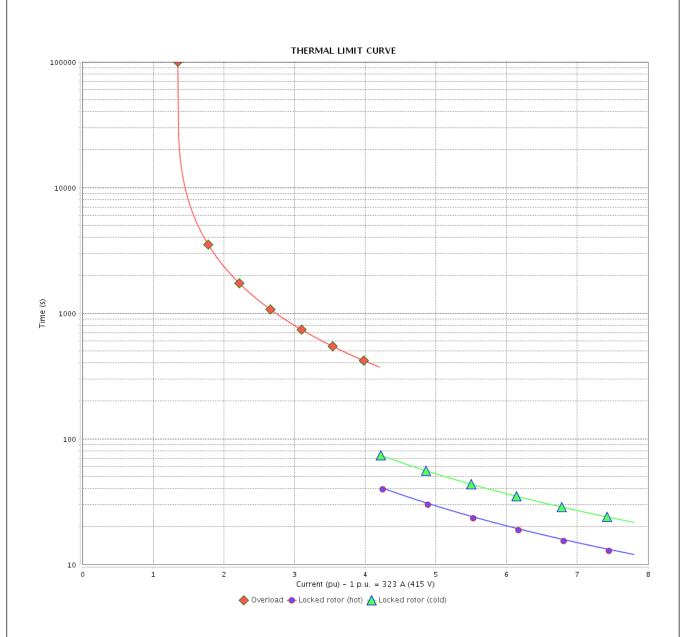


Customer	:					
Product line	: \ TI	W40 NEMA Premium Efficion hree-Phase		Product code : Catalog # :	13621553 30018OT3G	447/9T-W40
				-		
Performance	· 4·	15 V 50 Hz 4P IE3				
Rated current		23 A	Moment o	of inertia (J)	: 56.1 sq.ft.lb	
LRC	: 7.		Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor tord		87 ft.lb 29 %	Insulation Service fa		: F : 1.15	
Breakdown torqu	ie : 26	60 %	Temperati		: 80 K	
Rated speed	: 14	480 rpm	Design		: B	
Heating constant						
Cooling constant	1	Channa Comme		Dorf	Ohl !	D-4:
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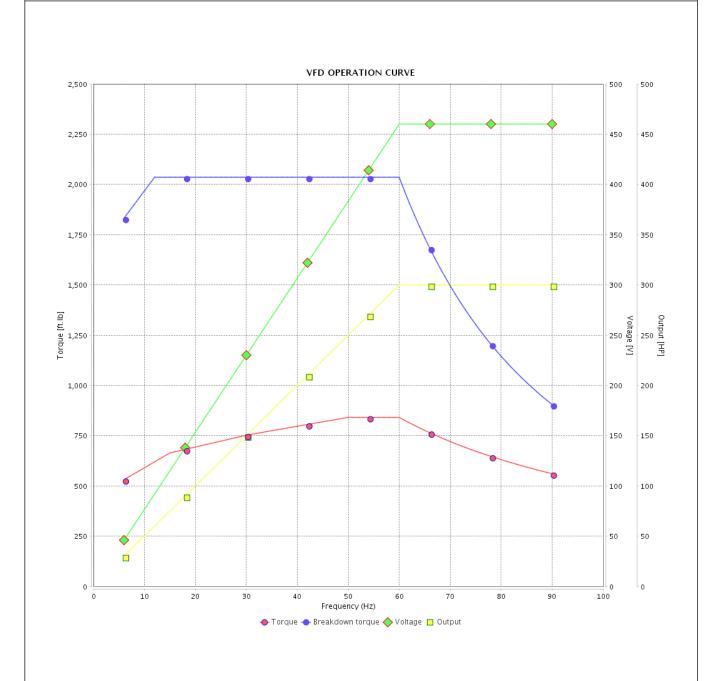


Customer

Product line : W40 NEMA Premium Efficiency Product code: 13621553

Three-Phase

Catalog #: 30018OT3G447/9T-W40



Performance	: 46	60 V 60 Hz 4P				
Rated current :		39 A	Moment o	Moment of inertia (J)		
LRC : 7.		1	Duty cycle	Duty cycle		
Rated torque : 8		35 ft.lb	Insulation	Insulation class		
Locked rotor torque :		20 %	Service fa	Service factor		
Breakdown torque	e : 22	29 %	Temperati	Temperature rise		
Rated speed	: 17	780 rpm	Design		: B	
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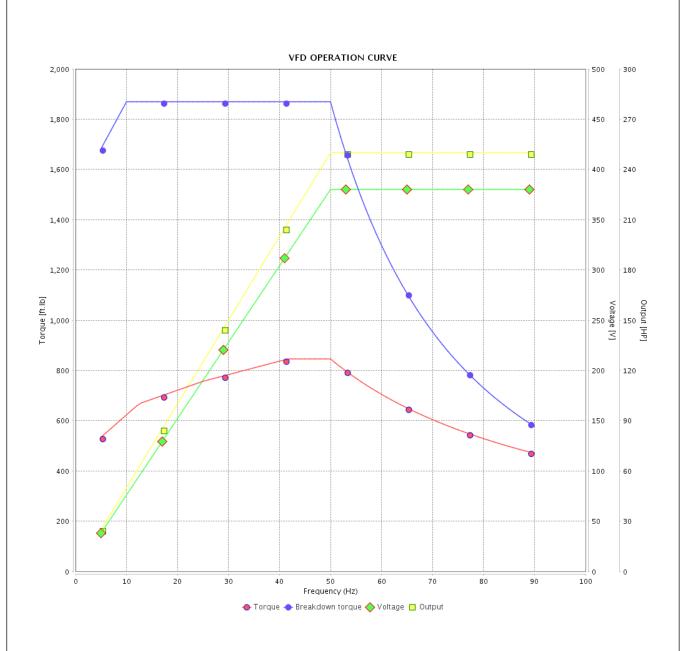
Product line : W40 NEMA Premium Efficiency

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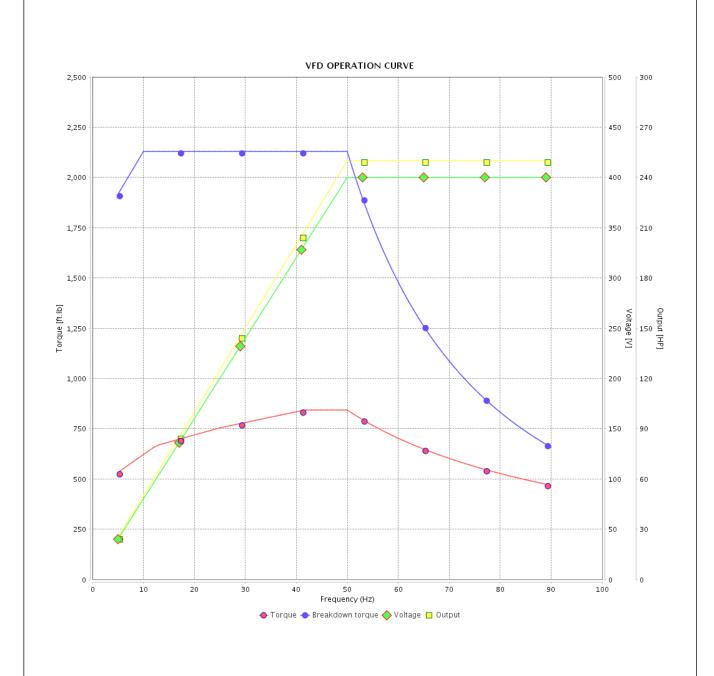
Customer

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

roduct code: 13621553

Catalog #: 30018OT3G447/9T-W40



Performance	: 4	00 V 50 Hz 4P IE3				
Rated current : 33		31 A	Moment of	Moment of inertia (J)		
LRC : 7.3		.3	Duty cycle		: Cont.(S1)	
Rated torque :		87 ft.lb	Insulation class		: F	
Locked rotor torque		10 %	Service factor		: 1.15	
Breakdown torque	: 2	40 %	Temperati	Temperature rise		
Rated speed	: 1	480 rpm	Design		: B	
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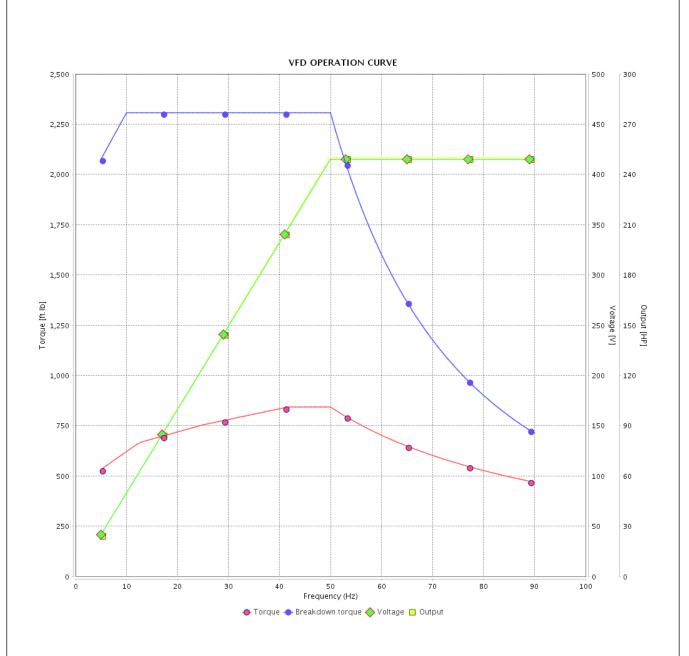
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Performance	: 415 V 50 Hz 4P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 323 A : 7.8 : 887 ft.lb : 229 % : 260 % : 1480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 56.1 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B		
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