DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14285003

10012OT3E444T-W40G Catalog #:

Frame : 444/5T 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 : 1301 lb Protection degree : 60.6 sq.ft.lb : IP23 Moment of inertia (J)

1 Totalion degree		. 11 20	Monterit of merita (b)		
Design		: B			
Output [HP]		100 75 75		75	
Poles		6	6	6	6
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		254/127	115	112	111
L. R. Amperes [A]		1549/775	794	773	799
LRC [A]		6.1x(Code G)	6.9x(Code H)	6.9x(Code J)	7.2x(Code J)
No load current [A]]	113/56.5	55.8	60.2	63.7
Rated speed [RPM	1]	1190	990	990	990
Slip [%]		0.83	1.00	1.00	1.00
Rated torque [ft.lb]		441	398	398	398
Locked rotor torqu	e [%]	200	220		
Breakdown torque	[%]	250	250	270	290
Service factor		1.25	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		23s (cold) 13s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	23s (cold) 13s (hot)
Noise level ²		69.0 dB(A)			
	25%	94.4	93.6	92.8	91.9
Efficiency (%)	50%	94.5	93.7	93.0	92.4
Linciency (70)	75%	95.0	94.1	94.1	93.8
	100%	95.0 94.1 94.1		94.1	
	25%	0.37	0.34	0.31	0.29
Power Factor	50%	0.61	0.56	0.53	0.50
I OWELL ACIO	75%	0.71	0.69	0.65	0.61
	100%	0.78	0.77	0.75	0.73
	100%	0.78	0.77	0.75	0.73

Drive end Non drive end Foundation loads

6319 C3 6314 C3 Bearing type Max. traction : 2425 lb Sealing Without Without Max. compression : 3726 lb

Bearing Seal Bearing Seal 20000 h 20000 h Lubrication interval

Lubricant amount 27 g 45 g Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 281A SF 1.15 SFA 323A

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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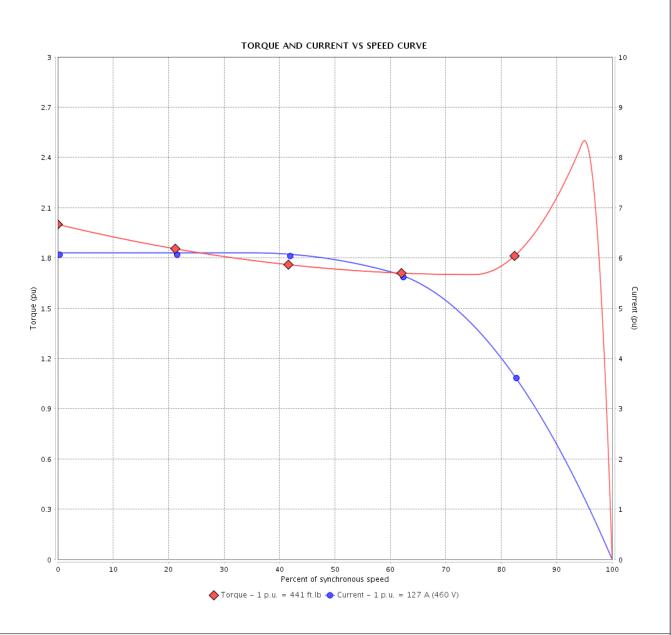
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14285003

Catalog #: 10012OT3E444T-W40G



Performance : 230/460 V 60 Hz 6P Rated current : 254/127 A Moment of inertia (J) : 60.6 sq.ft.lb **LRC** Duty cycle : Cont.(S1) Insulation class Rated torque : 441 ft.lb : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1190 rpm Design : B

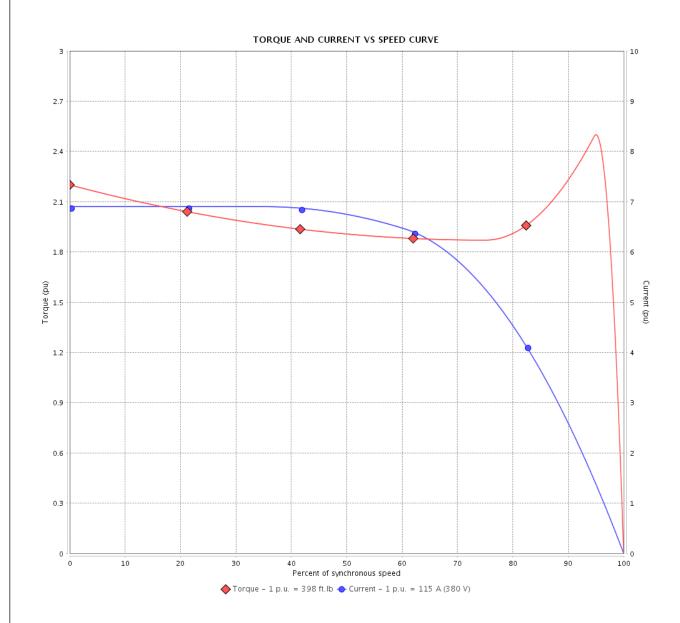
Locked rotor time : 23s (cold) 13s (hot)

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Customer Product line : W40 NEMA Premium Efficiency Product code: 14285003 Three-Phase Catalog #: 10012OT3E444T-W40G



Performance : 380 V 50 Hz 6P IE3 Rated current : 115 A Moment of inertia (J) : 60.6 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) : 398 ft.lb Insulation class : F Rated torque : 220 % : 1.00 Locked rotor torque Service factor : 80 K Breakdown torque : 250 % Temperature rise : B Rated speed : 990 rpm Design Locked rotor time : 25s (cold) 14s (hot)

LOCKCO TOTOL UITIN	. 2	03 (cold) 143 (flot)			
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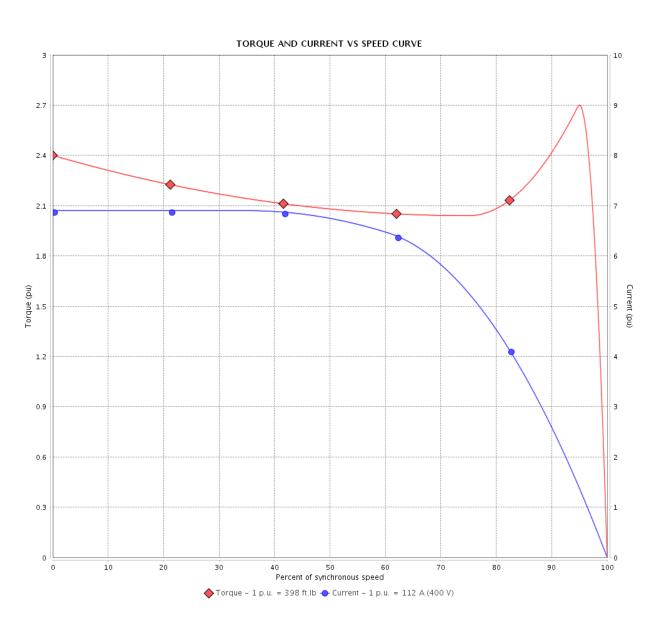
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14285003

Catalog #: 10012OT3E444T-W40G



Performance	: 400 V 50 Hz 6P IE3		
Rated current	: 112 A	Moment of inertia (J)	: 60.6 sq.ft.lb
LRC	: 6.9	Duty cycle	: Cont.(S1)
Rated torque	: 398 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 990 rpm	Design	: B
		-	

Locked rotor time : 25s (cold) 14s (hot)

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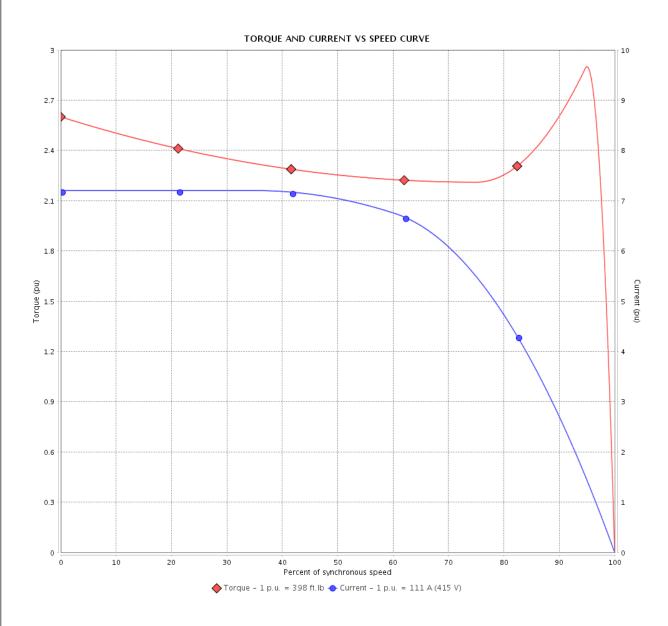
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14285003

Catalog #: 10012OT3E444T-W40G



Performance	: 415 V 50 Hz 6P IE3			
Rated current	: 111 A	Moment of inertia (J)	: 60.6 sq.ft.lb	
LRC	: 7.2	Duty cycle	: Cont.(S1)	
Rated torque	: 398 ft.lb	Insulation class	:F	
Locked rotor torque	: 260 %	Service factor	: 1.00	
Breakdown torque	: 290 %	Temperature rise	: 80 K	
Rated speed	: 990 rpm	Design	: B	
Locked rotor time	: 23s (cold) 13s (hot)			

Locked rotor time : 23s (cold) 13s (hot)

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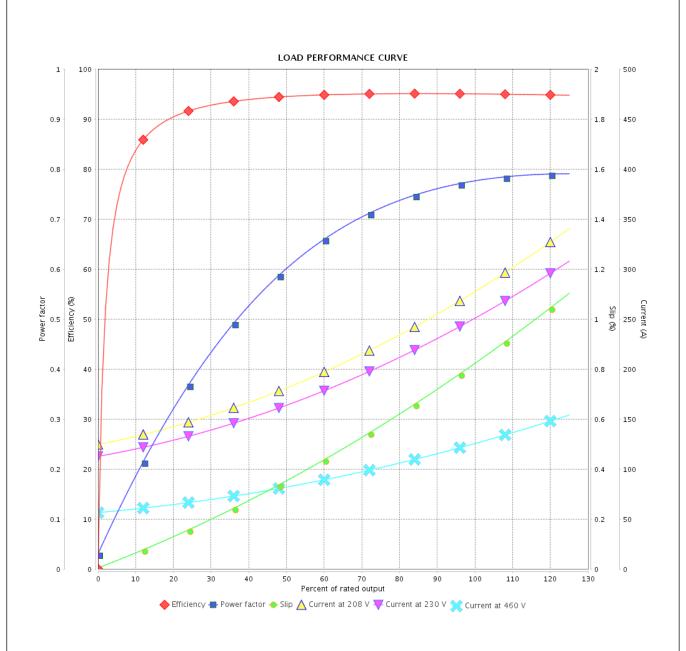
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14285003

Catalog #: 10012OT3E444T-W40G

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Performance	: 230/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 254/127 A : 6.1 : 441 ft.lb : 200 % : 250 % : 1190 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 60.6 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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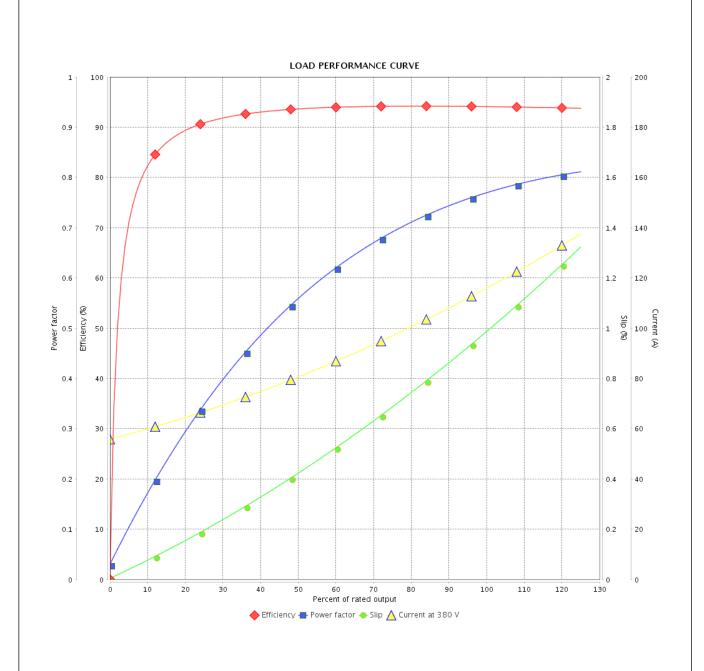
Customer

Product line : W40 NEMA Premium Efficiency Product code : 14285003

Three-Phase

Catalog #: 10012OT3E444T-W40G

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Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 115 A : 6.9 : 398 ft.lb : 220 % : 250 % : 990 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 60.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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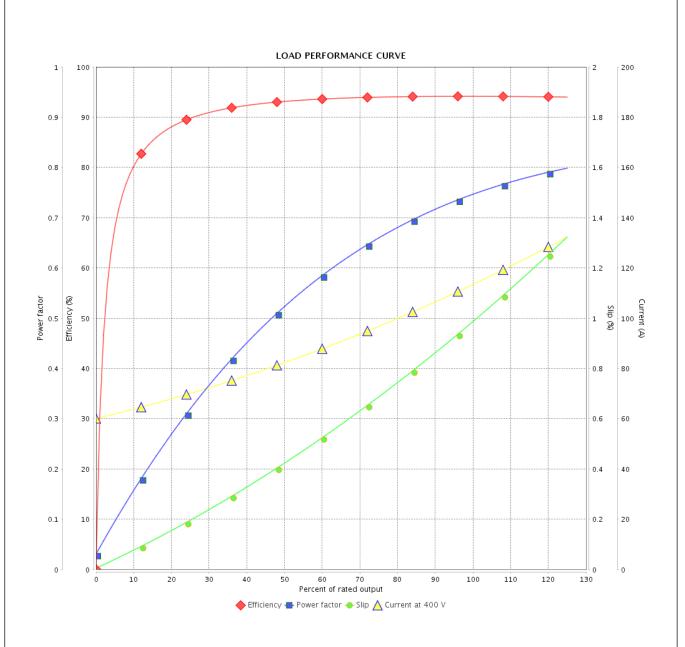
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Three-Phase

Product code: 14285003

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Performance	: 40	00 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 39 que : 24 ue : 27	12 A 9 98 ft.lb 40 % 70 % 90 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class actor	: 60.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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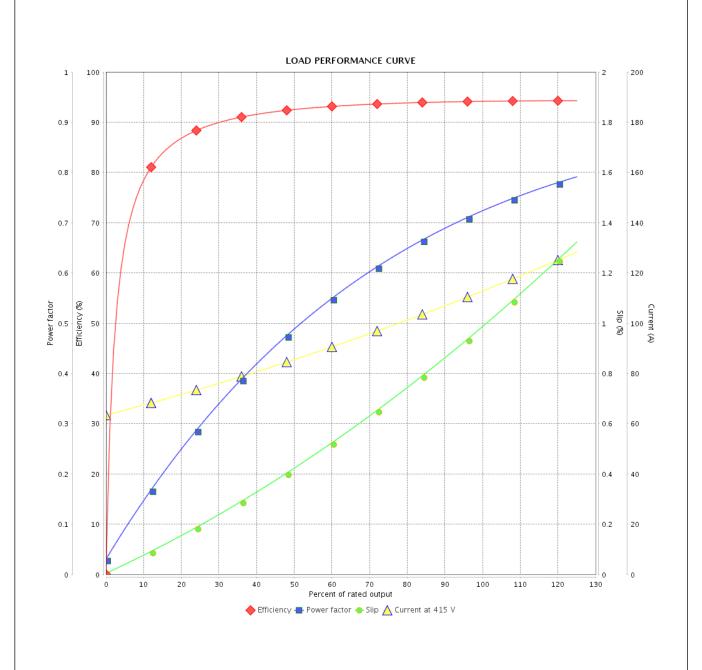


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14285003

Three-Phase

Catalog #: 10012OT3E444T-W40G



Performance	:	415 V 50 Hz 6P IE3				
Rated current	:	111 A	Moment o	f inertia (J)	: 60.6 sq.ft.lb	
LRC	:	7.2	Duty cycle)	: Cont.(S1)	
Rated torque	:	398 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	260 %	Service fa	ctor	: 1.00	
Breakdown torque	:	290 %	Temperature rise		: 80 K	
Rated speed	:	990 rpm	Design		: B	
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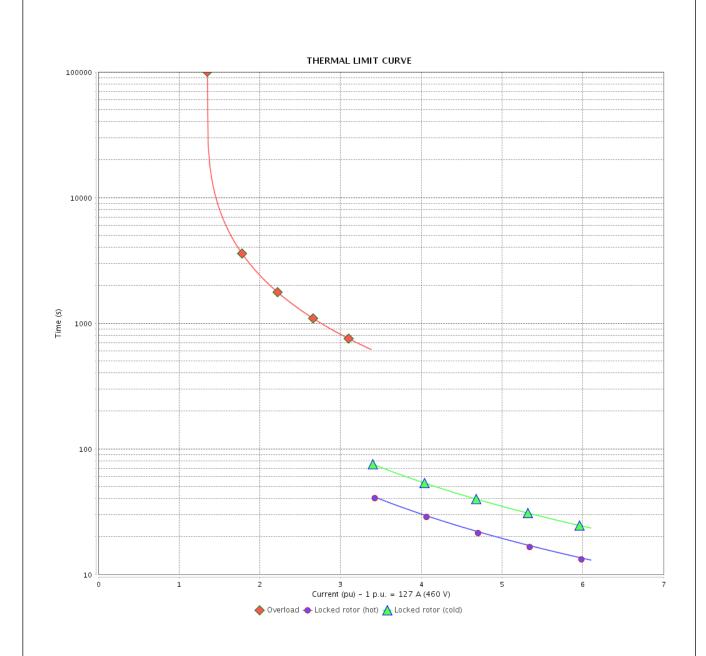


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Customer	:					
Product line	: \ Tt	W40 NEMA Premium Efficie nree-Phase	ency f	Product code :	14285003	
			(Catalog # :	10012OT3E44	44T-W40G
Performance		30/460 V 60 Hz 6P				
Rated current		54/127 A	Moment of	f inertia (J)	: 60.6 sq.ft.lb	
LRC Rated torque	: 6. : 44	1 41 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torg	jue : 20	00 %	Service fac	ctor	: 1.25	
Breakdown torqu Rated speed	ie : 25	50 % 190 rpm	Temperatu Design		: 80 K : B	
Heating constant						
Cooling constant						
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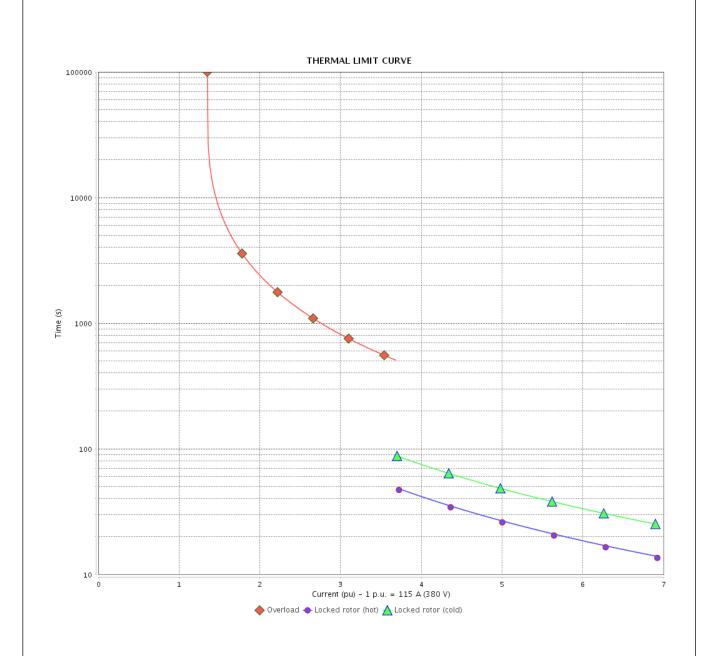


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Product line		: W40 NEMA Premium Efficion Three-Phase		Product code :	14285003 10012OT3E4	44T-W40G
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Performance	:	380 V 50 Hz 6P IE3				
Rated current LRC		115 A 6.9	Moment o	f inertia (J)	: 60.6 sq.ft.lb : Cont.(S1)	
Rated torque	:	398 ft.lb 220 %	Insulation Service fa	class	: F : 1.00	
Locked rotor tord Breakdown torqu		250 % 250 %	Temperati		: 80 K	
Rated speed		990 rpm	Design		: B	
Heating constant						
Cooling constant	l	Changes Summary		Performed	Checked	Date
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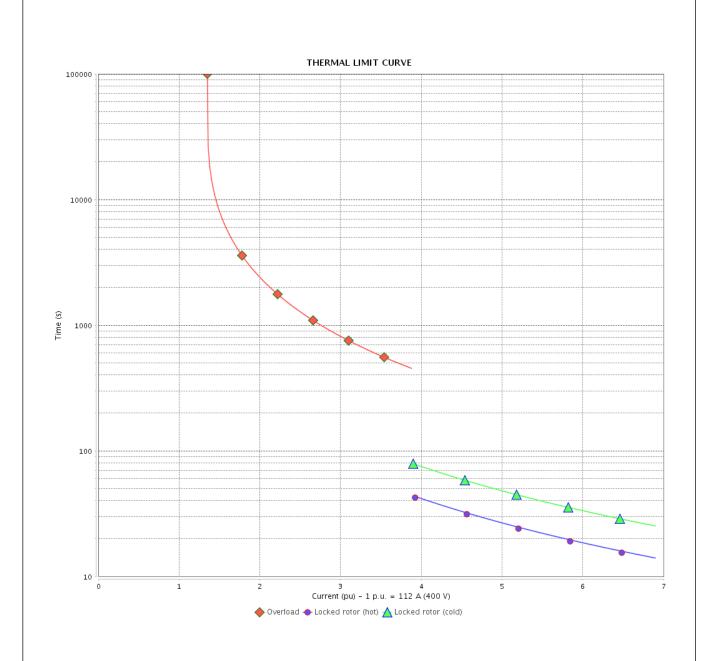


Customer		:				
Product line		: W40 NEMA Premium Effici Three-Phase		Product code : Catalog # :	14285003 10012OT3E44	14T-W40G
Performance		: 400 V 50 Hz 6P IE3				
Rated current LRC		: 112 A : 6.9	Moment o	f inertia (J)	: 60.6 sq.ft.lb : Cont.(S1)	
Rated torque		: 398 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu	ue	: 240 % : 270 %	Service fa Temperati		: 1.00 : 80 K	
Rated speed		: 990 rpm	Design		: B	
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Cooling constant	l	Changes Summary		Performed	Checked	Date
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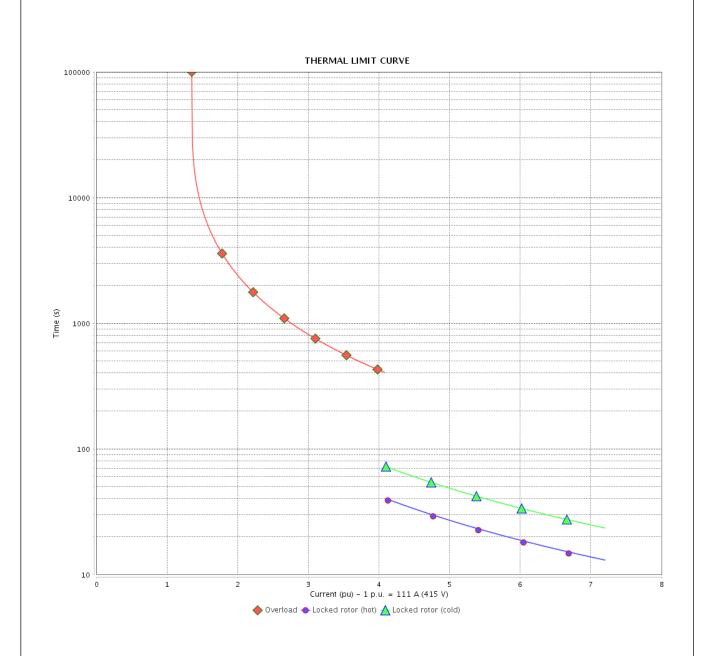


Customer		:				
Product line		: W40 NEMA Premium Efficient		Product code : Catalog # :	14285003 10012OT3E44	14T-W40G
				-		
Performance		: 415 V 50 Hz 6P IE3				
Rated current LRC		: 111 A : 7.2	Duty cycle		: 60.6 sq.ft.lb : Cont.(S1)	
Rated torque		: 398 ft.lb : 260 %	Insulation Service fa		: F : 1.00	
Locked rotor tord Breakdown torqu		: 260 % : 290 %	Temperati		: 1.00 : 80 K	
Rated speed		: 990 rpm	Design		: B	
Heating constant						
Cooling constant	t	Changes Summers		Performed	Checked	Doto
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Product line : W40 NEMA Premium Efficiency

Three-Phase

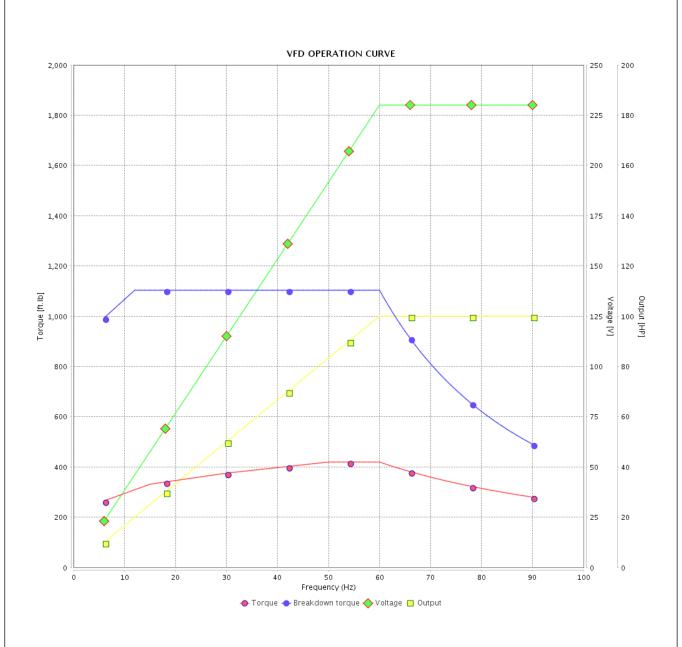
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Catalog #: 10012OT3E444T-W40G

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Performance		: 230/460 V 60 Hz	6P			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 254/127 A : 6.1 : 441 ft.lb : 200 % : 250 % : 1190 rpm	Moment of Duty cycl Insulation Service for Temperat Design	n class actor	: 60.6 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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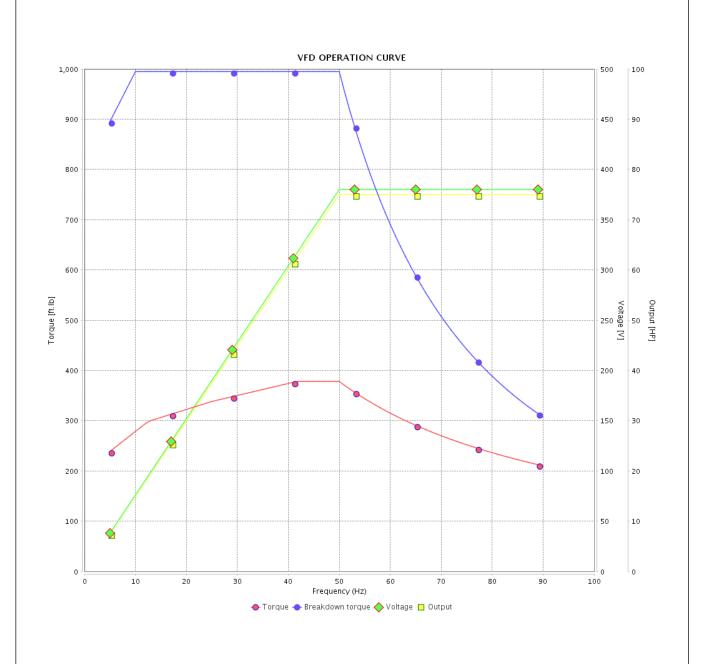
Customer

Product line : W40 NEMA Premium Efficiency Pro

Three-Phase

Product code: 14285003

Catalog #: 10012OT3E444T-W40G



Performance		380 V 50 Hz 6P IE3					
Rated current		115 A	Moment o	f inertia (J)	: 60.6 sq.ft.lb		
LRC		6.9	Duty cycle	;	: Cont.(S1)		
Rated torque	: :	398 ft.lb	Insulation	class	: F		
Locked rotor torqu	e : 2	220 %	Service fa	ctor	: 1.00		
Breakdown torque		250 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 9	990 rpm	Design		: B		
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Product line : W40 NEMA Premium Efficiency

Three-Phase

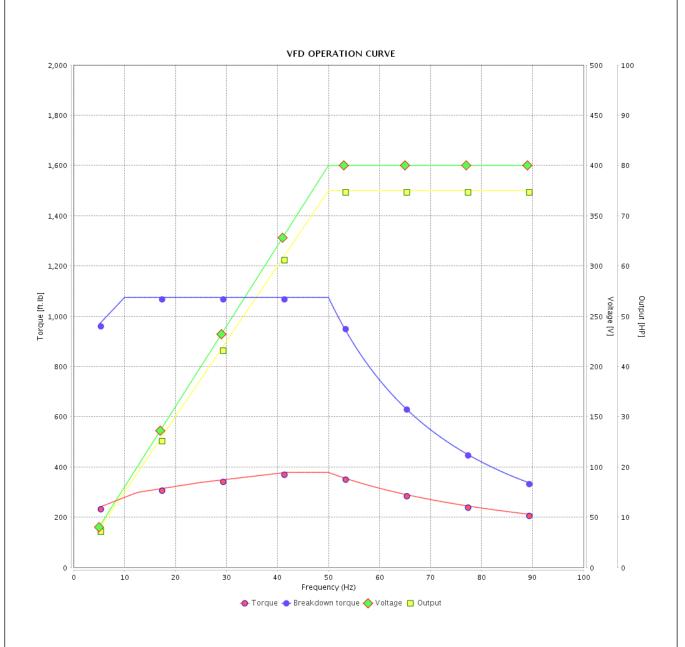
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Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 112 A : 6.9 : 398 ft.lb : 240 % : 270 % : 990 rpm	Moment of Duty cycle Insulation Service fa Temperati Design	class ctor	: 60.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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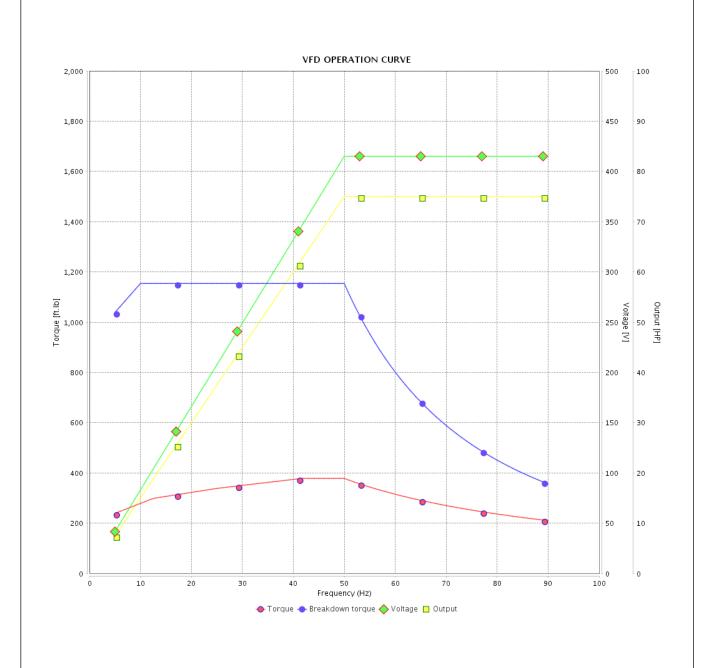
Customer

Product line : W40 NEMA Premium Efficiency Product code:

Three-Phase

14285003

10012OT3E444T-W40G Catalog #:



Performance	: 4	15 V 50 Hz 6P IE3				
Rated current	Rated current : 111 A Mo		Moment o	Moment of inertia (J)		
LRC : 7.		.2	Duty cycle)	: Cont.(S1)	
Rated torque			class	: F		
Locked rotor tord	que : 2	60 %	Service fa	ctor	: 1.00	
Breakdown torque :		90 %	Temperati	Temperature rise		
Rated speed	: 9	90 rpm	Design		: B	
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