DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency

Product code: 14284557

Three-Phase

Catalog #: 10012OT3E444T-W40

Frame : 444/5T Cooling method : IC01 - ODP

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line

: 1000 m.a.s.l. Approx. weight³ : 1341 lb Altitude Protection degree : IP23 Moment of inertia (J) : 60.6 sq.ft.lb

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] 1549/775 799 794 773 6.9x(Code H) 6.9x(Code J) 7.2x(Code J) LRC [A] 6.1x(Code G) No load current [A] 113/56.5 55.8 60.2 63.7 Rated speed [RPM] 1190 990 990 990 Slip [%] 0.83 1.00 1.00 1.00 Rated torque [ft.lb] 441 398 398 398 Locked rotor torque [%] 200 220 240 260 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 level² 69.0 dB(A) 25% 94.4 93.6 92.8 91.9 50% 94.5 93.7 93.0 92.4 Efficiency (%) 75% 94.1 94.1 93.8 95.0 94.1 94.1 94.1 100% 95.0 0.29 25% 0.37 0.34 0.31 50% 0.56 0.50 0.61 0.53 Power Factor 75% 0.71 0.69 0.65 0.61 0.77 0.75 0.73 100% 0.78

> Drive end Non drive end Foundation loads

Bearing type 6319 C3 6314 C3 Max. traction : 2405 lb Sealing Without Without Max. compression : 3746 lb

Bearing Seal Bearing Seal 20000 h Lubrication interval 20000 h

Lubricant amount 45 g 27 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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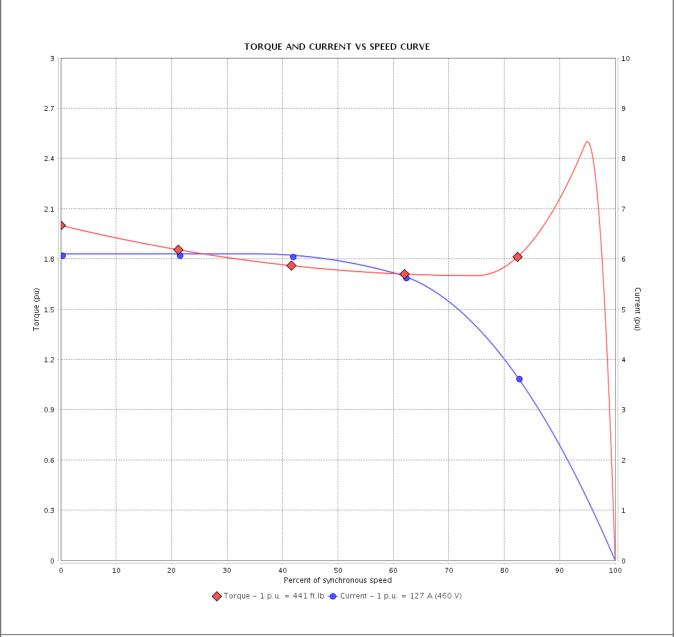
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14284557

Catalog #: 10012OT3E444T-W40



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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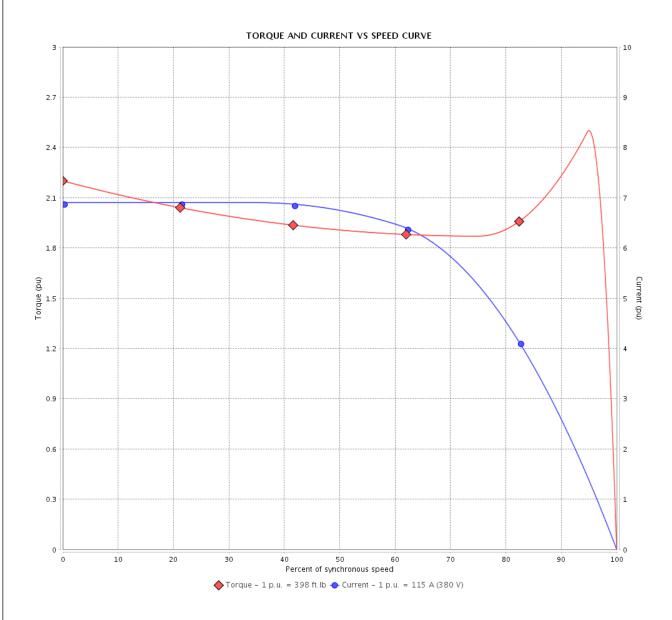


Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14284557

Three-Phase

Catalog #: 10012OT3E444T-W40



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 % Locked rotor torque Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K : B Rated speed : 990 rpm Design

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

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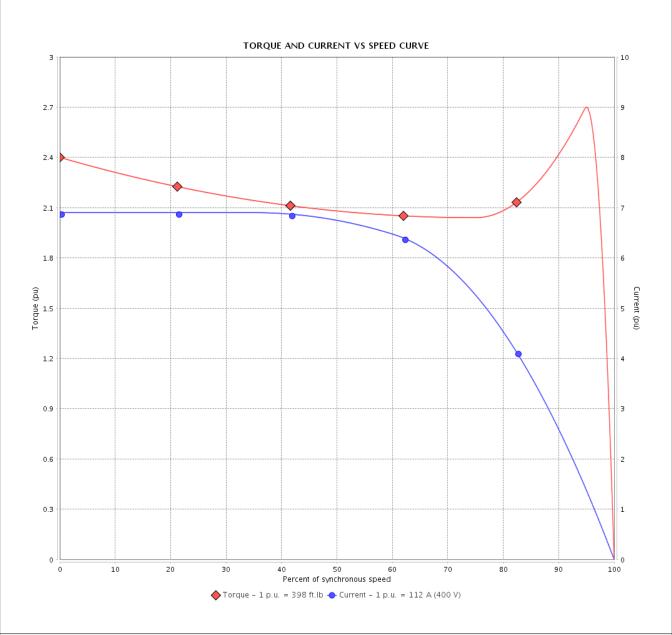
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14284557

Catalog #: 10012OT3E444T-W40



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) Insulation class Rated torque : 398 ft.lb : F Service factor Locked rotor torque : 240 % : 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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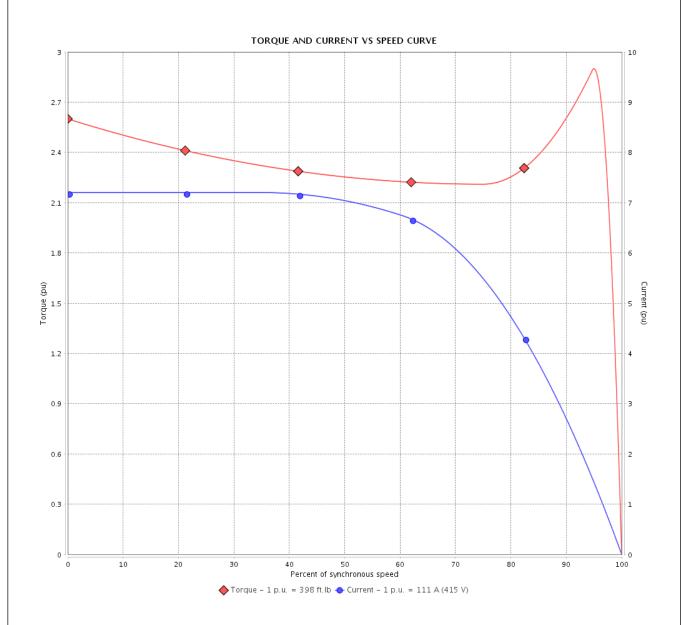
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Customer

Product line : W40 NEMA Premium Efficiency Product code: 14284557

Catalog #: 10012OT3E444T-W40



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)		

LOCKCO TOTOL UITI	. 2	03 (cold) 103 (flot)			
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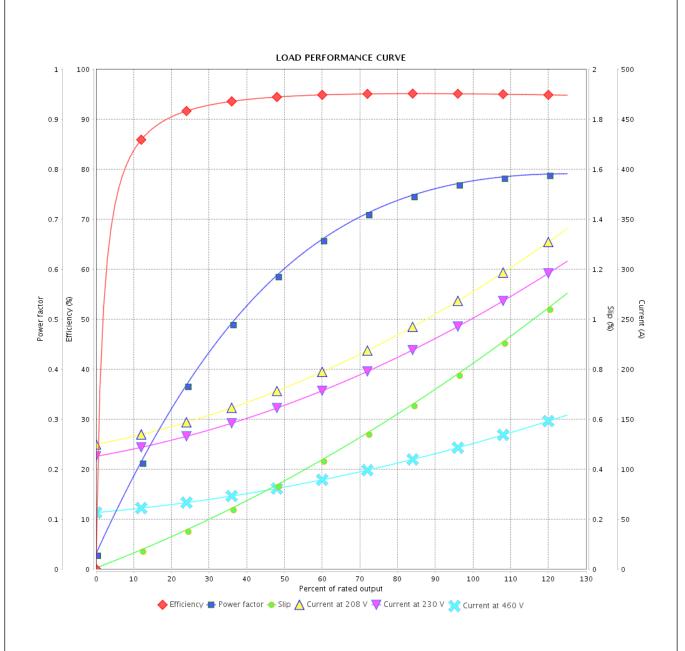
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Three-Phase

Product code: 14284557

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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 Duty cycle Insulation Service fac Temperatu Design	class	: 60.6 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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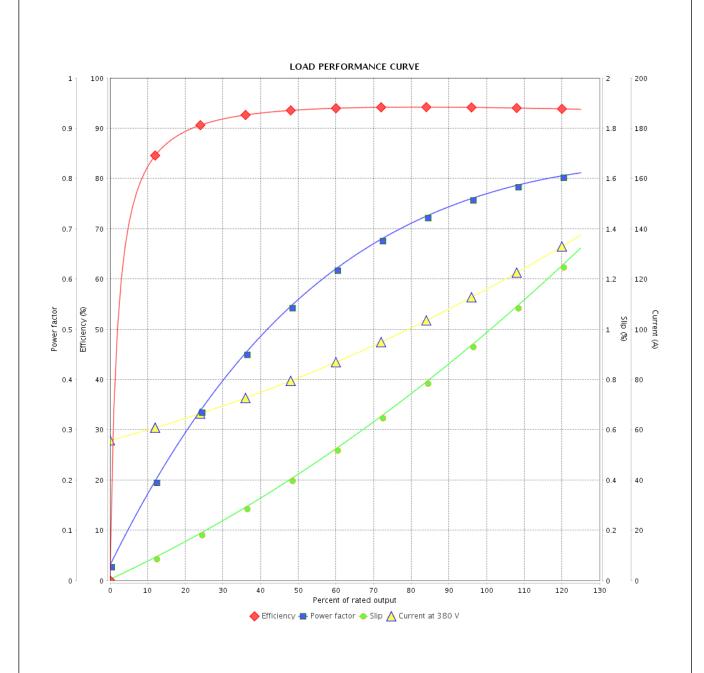
Customer

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Catalog #: 10012OT3E444T-W40

14284557



Performance	: 3	80 V 50 Hz 6P IE3				
Rated current	: 1	15 A	Moment o	f inertia (J)	: 60.6 sq.ft.lb	
LRC	: 6	.9	Duty cycle	}	: Cont.(S1)	
Rated torque	: 3	98 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	20 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	50 %	Temperatu	Temperature rise		
Rated speed	: 9	90 rpm	Design		: B	
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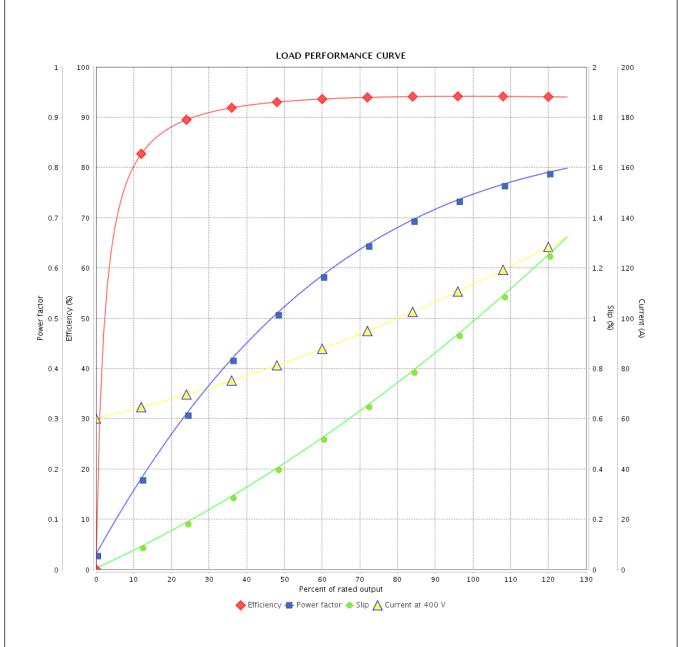
Product line : W40 NEMA Premium Efficiency

Three-Phase

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				1	
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 Temperate Design	class actor	: 60.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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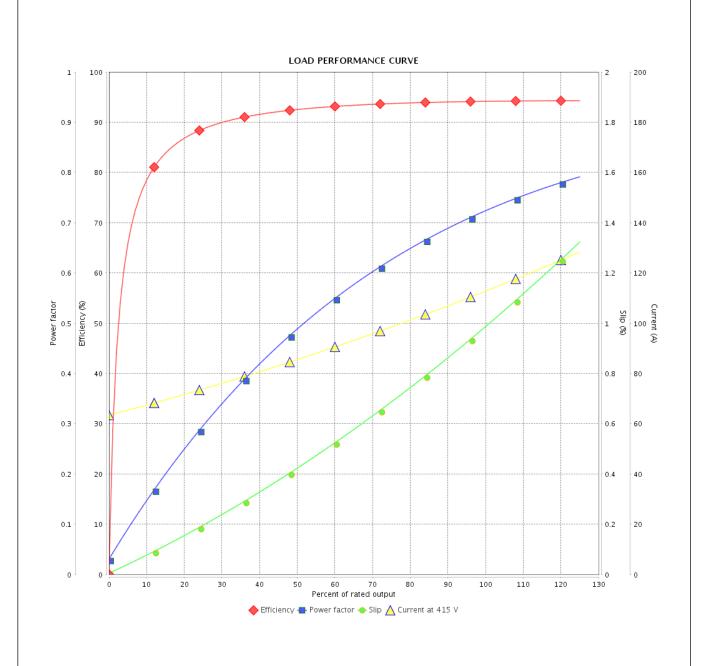


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Product line : W40 NEMA Premium Efficiency Product code : 14284557

Three-Phase

Catalog #: 10012OT3E444T-W40



Performance	: 4	15 V 50 Hz 6P IE3	}			
Rated current	: 1	11 A	Moment o	f inertia (J)	: 60.6 sq.ft.lb	
LRC	: 7	.2	Duty cycle		: Cont.(S1)	
Rated torque	: 3	98 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	60 %	Service fa	ctor	: 1.00	
Breakdown torque : 290 %		Temperatu	Temperature rise			
Rated speed	: 9	90 rpm	Design		: B	
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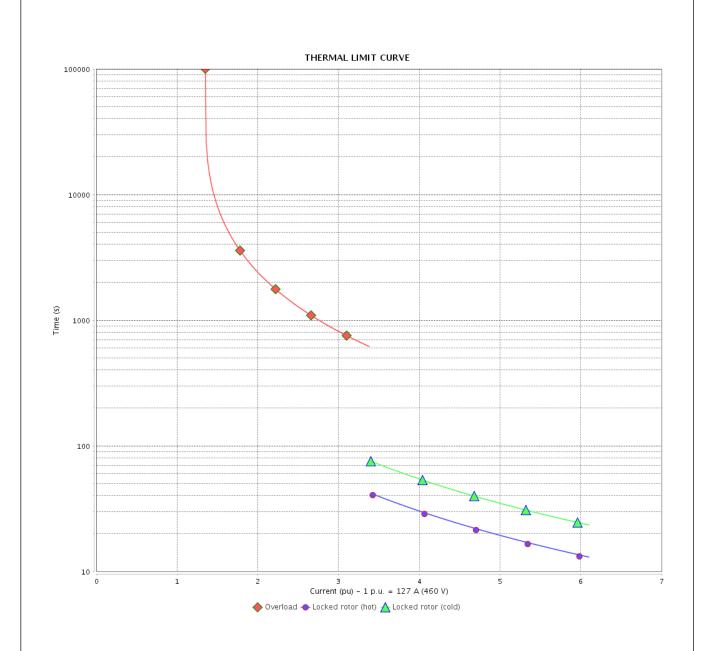


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Product line		: W40 NEMA Premium Effici	encv	Product code :	14284557	
1 Toddot IIITo		Three-Phase				
				Catalog # :	10012OT3E4	44T-W40
Performance		: 230/460 V 60 Hz 6P				
Rated current		: 254/127 A	Moment o	of inertia (J)	: 60.6 sq.ft.lb	
LRC		: 6.1	Duty cycle	Э	: Cont.(S1)	
Rated torque		: 441 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 200 % : 250 %	Service fa Temperat		: 1.25 : 80 K	
Rated speed		: 1190 rpm	Design		: B	
Heating constan	t					
Cooling constant						
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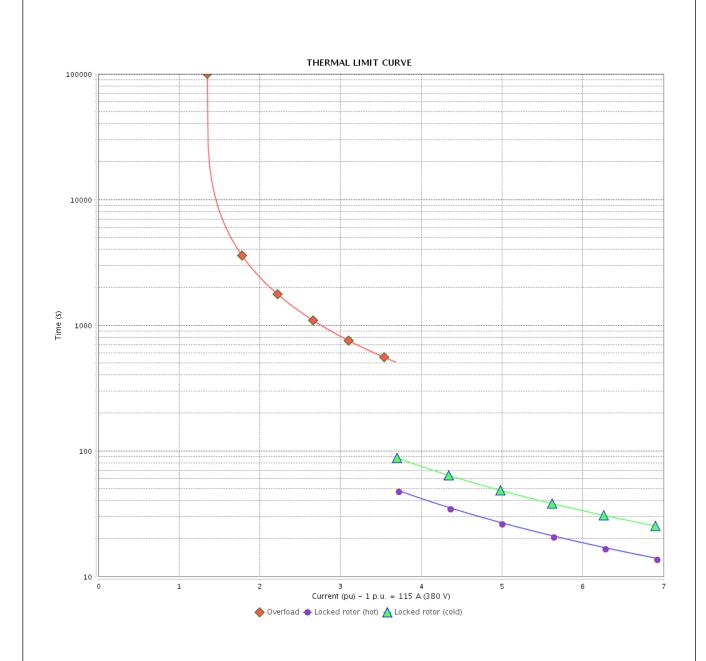


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Product line	: W40 NEMA Premium Effi	ciency I	Product code :	14284557	
	Three-Phase	(Catalog # :	10012OT3E4	144T-\N/40
				.00.20.00	
Performance	: 380 V 50 Hz 6P IE3				
Rated current	: 115 A	Moment of	f inertia (J)	: 60.6 sq.ft.lb	
LRC	: 6.9 : 308 ft lb	Duty cycle		: Cont.(S1) : F	
Rated torque Locked rotor torque	: 398 ft.lb : 220 %	Insulation Service fac		: F : 1.00	
Breakdown torque	: 250 %	Temperatu		: 80 K	
Rated speed	: 990 rpm	Design		: B	
Heating constant					
Cooling constant					
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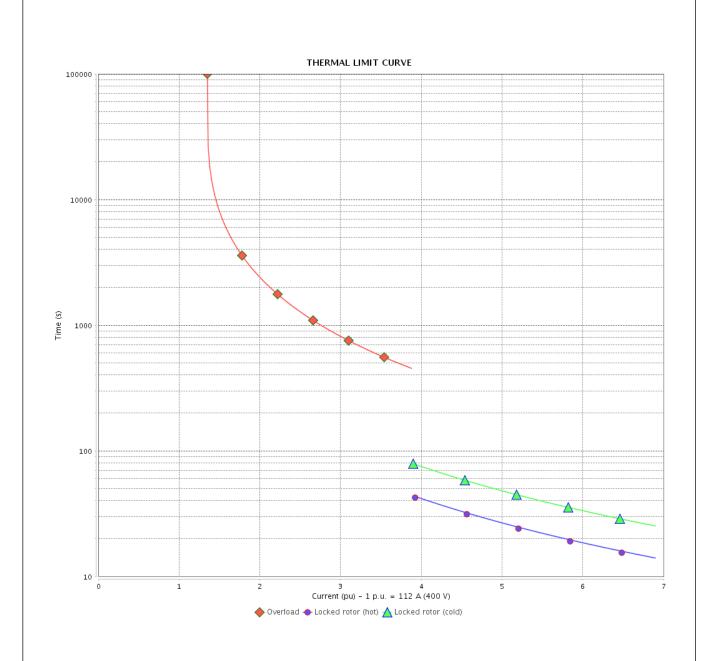


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Customer	:					
Product line		W40 NEMA Premium Efficie nree-Phase		Product code :	14284557 10012OT3E4	44T W40
				Jatalog # :	10012013E4	441-7740
Performance	: 40	00 V 50 Hz 6P IE3				
Rated current		2 A	Moment of	f inertia (J)	: 60.6 sq.ft.lb	
LRC Rated torque	: 6. · 30	9 98 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torc		10 %	Service fac		. F : 1.00	
Breakdown torqu	ie : 27	70 %	Temperatu		: 80 K	
Rated speed	: 99	90 rpm	Design		: B	
Heating constant						
Cooling constant						
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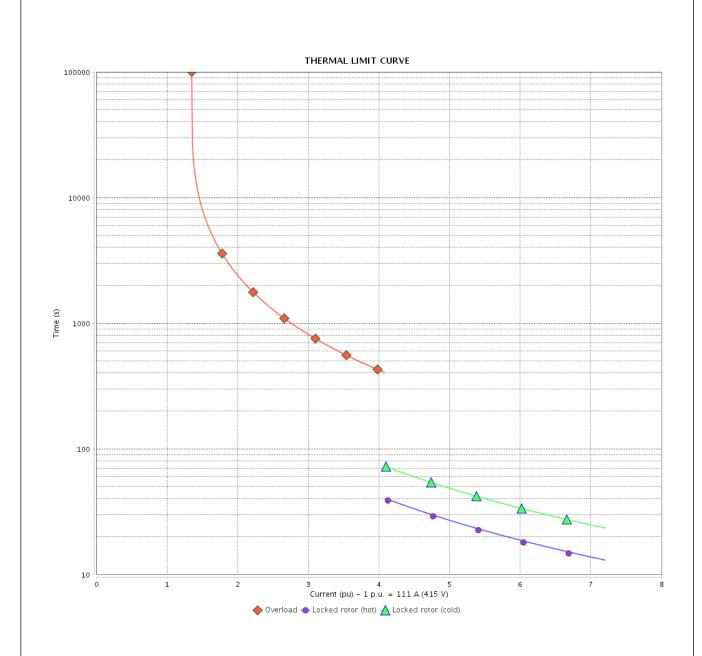


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Product line		W40 NEMA Premium Efficion Nree-Phase		Product code :	14284557 10012OT3E4	14T-W40
Performance Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 11 : 7. : 39 ue : 20 e : 29	15 V 50 Hz 6P IE3 11 A 2 98 ft.lb 60 % 90 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 60.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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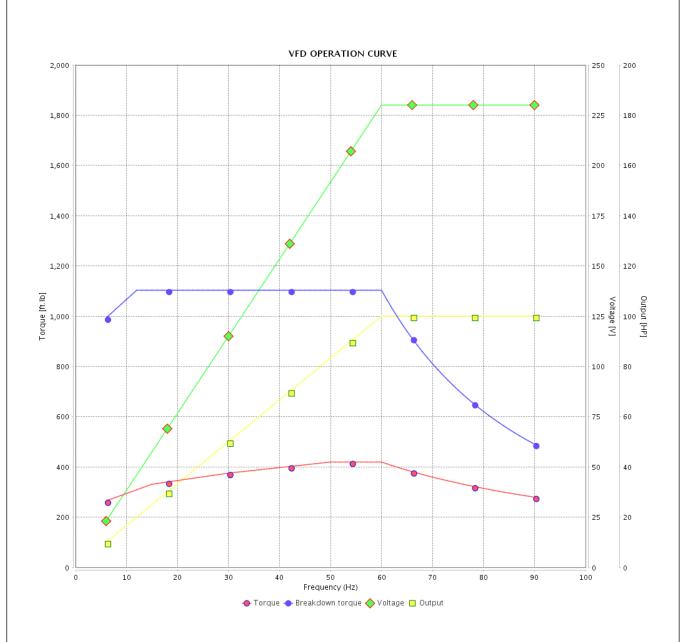
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Three-Phase

Product code: 14284557

Catalog #: 10012OT3E444T-W40



Performance	: 230/460 V 60 Hz 6P) 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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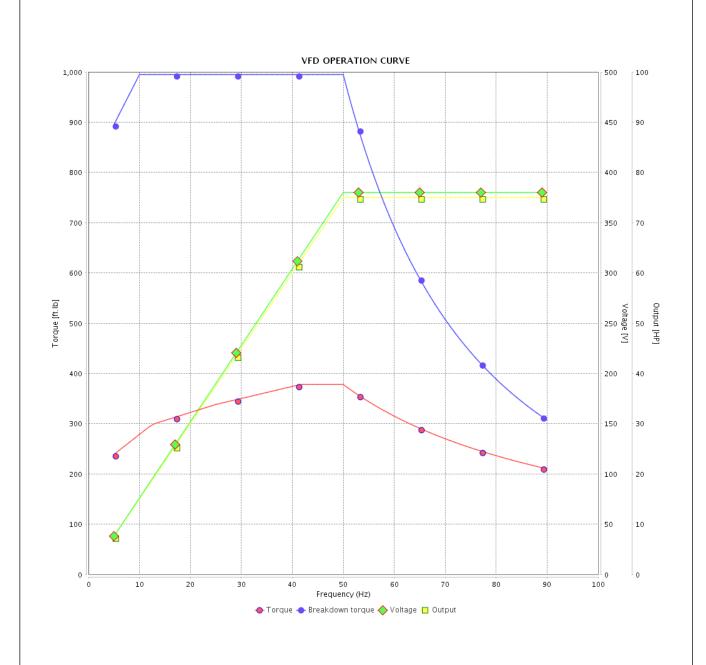
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Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 115 A : 6.9 : 398 ft.lb : 220 % : 250 % : 990 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 60.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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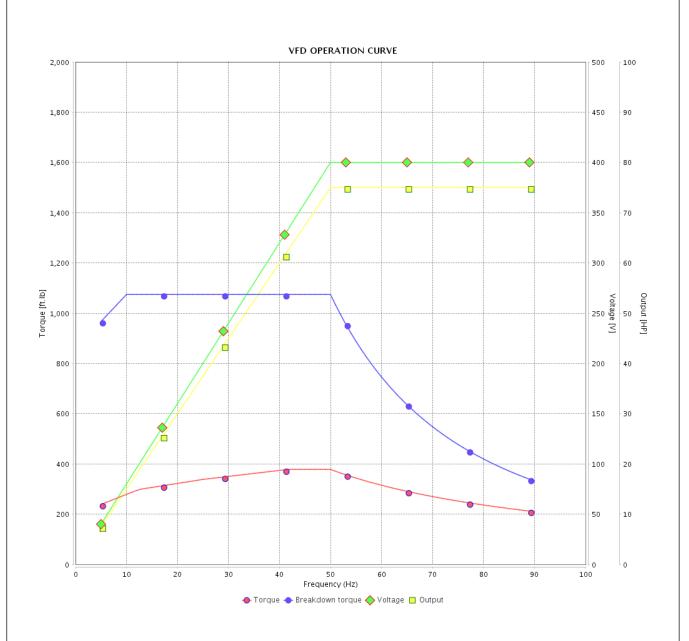
Product line : W40 NEMA Premium Efficiency

Three-Phase

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Performance	: 400 V 50 Hz 6P IE3	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 o 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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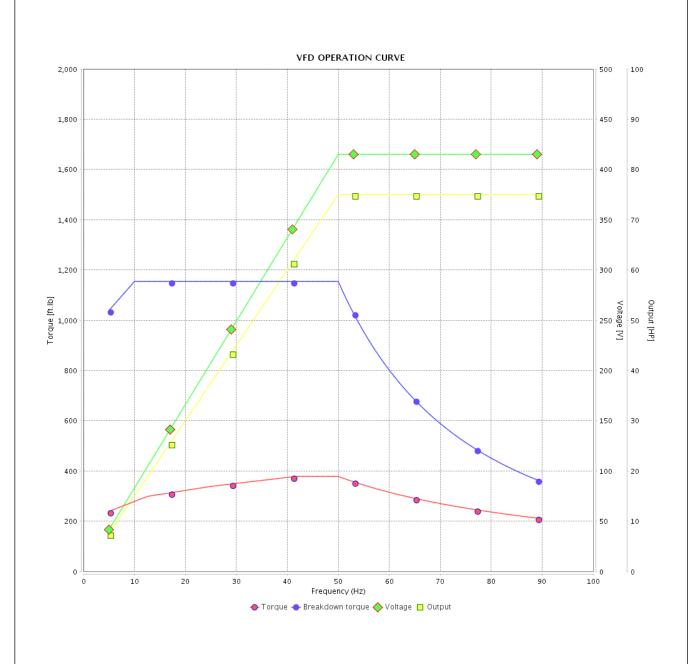
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Rated current : 111 A		: 60.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B		
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