DATA SHEET

Three Phase Induction Motor - Squirrel Cage



0.77

Customer

Product line : W40 NEMA Premium Efficiency Product code:

Three-Phase

02512OT3E324T-W40G Catalog #:

14503630

Frame : 324T 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 Altitude : 453 lb Protection degree : IP23 Moment of inertia (J) : 7.69 sq.ft.lb

Design : B Output [HP] 25 20 20 20 Poles 6 6 6 6 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415

Rated current [A] 61.6/30.8 30.5 30.1 29.7 L. R. Amperes [A] 382/191 201 205 205 6.6x(Code H) 6.8x(Code H) 6.9x(Code J) LRC [A] 6.2x(Code G) No load current [A] 28.4/14.2 14.0 15.5 16.7 Rated speed [RPM] 1183 980 985 985 Slip [%] 1.42 2.00 1.50 1.50 Rated torque [ft.lb] 111 107 107 107 Locked rotor torque [%] 210 170 229 210 Breakdown torque [%] 250 250 290 310 Service factor 1.25 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K Locked rotor time 32s (cold) 18s (hot) 23s (cold) 13s (hot) 25s (cold) 14s (hot) 25s (cold) 14s (hot) Noise level² 62.0 dB(A) 25% 91.0 90.6 90.9 90.1

50% 91.7 90.8 91.0 90.3 Efficiency (%) 75% 92.4 91.2 91.2 91.2 91.2 100% 93.0 91.2 91.2 0.32 25% 0.39 0.39 0.35 50% 0.65 0.65 0.60 0.56 Power Factor 75% 0.73 0.70 0.76 0.76

0.79 100% 0.81 0.82 Drive end Non drive end Foundation loads Bearing type 6312 Z C3 6211 Z C3 Max. traction

Without

Sealing Max. compression Bearing Seal Bearing Seal 20000 h Lubrication interval 20000 h

Without

Lubricant amount 11 g Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 68.1A SF 1.15 SFA 78.3A

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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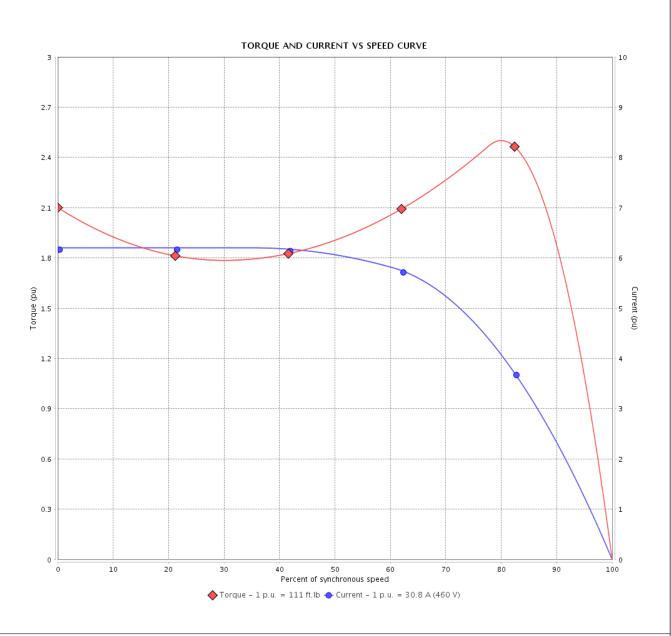
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14503630

Catalog #: 02512OT3E324T-W40G



Performance : 230/460 V 60 Hz 6P Rated current : 61.6/30.8 A Moment of inertia (J) : 7.69 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 111 ft.lb : F Service factor Locked rotor torque : 210 % : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1183 rpm Design : B

Locked rotor time : 32s (cold) 18s (hot)

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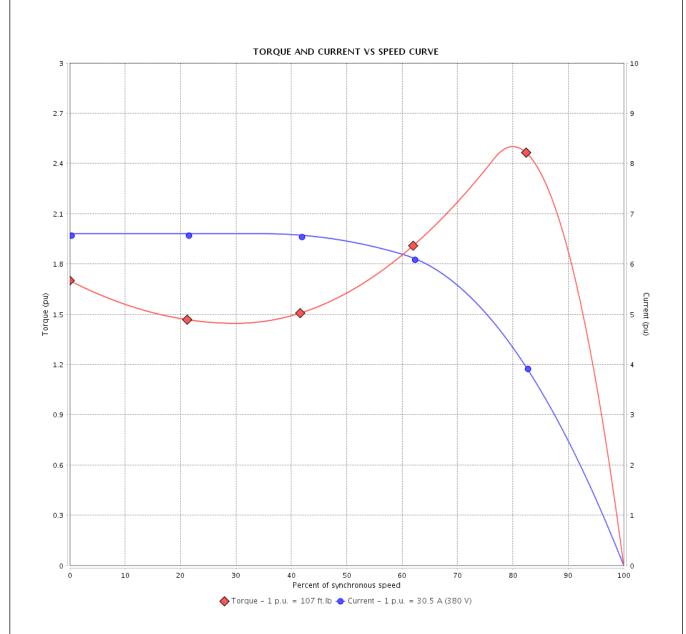
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02512OT3E324T-W40G

Customer Product line : W40 NEMA Premium Efficiency Product code: 14503630 Three-Phase

Catalog #:



Performance	: 380 V 50 Hz 6P IE3			
Rated current	: 30.5 A	Moment of inertia (J)	: 7.69 sq.ft.lb	
LRC	: 6.6	Duty cycle	: Cont.(S1)	
Rated torque	: 107 ft.lb	Insulation class	: F	
Locked rotor torque	: 170 %	Service factor	: 1.00	
Breakdown torque	: 250 %	Temperature rise	: 80 K	
Rated speed	: 980 rpm	Design	: B	
Locked rotor time	: 23s (cold) 13s (hot)			

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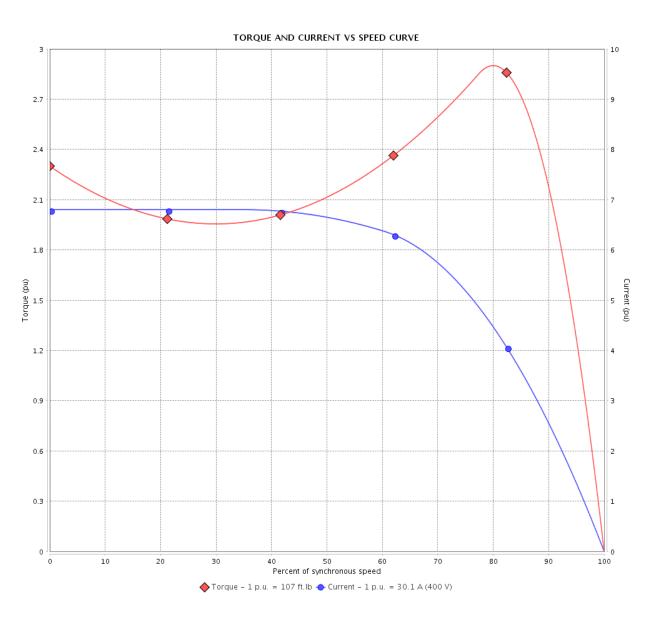
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14503630

Catalog #: 02512OT3E324T-W40G



Performance	: 400 V 50 Hz 6P IE3		
Rated current	: 30.1 A	Moment of inertia (J)	: 7.69 sq.ft.lb
LRC	: 6.8	Duty cycle	: Cont.(S1)
Rated torque	: 107 ft.lb	Insulation class	:F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 985 rpm	Design	: B
		3	

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

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Three Phase Induction Motor - Squirrel Cage Customer Product line : W40 NEMA Premium Efficiency Product code: 14503630 02512OT3E324T-W40G Catalog #: TORQUE AND CURRENT VS SPEED CURVE 4.5 Torque (pu) 0.5 40 50 -Percent of synchronous speed ◆ Torque - 1 p.u. = 107 ft.lb ◆ Current - 1 p.u. = 29.7 A (415 V)

Performance	: 415 V 50 Hz 6P IE3		
Rated current	: 29.7 A	Moment of inertia (J)	: 7.69 sq.ft.lb
LRC	: 6.9	Duty cycle	: Cont.(S1)
Rated torque	: 107 ft.lb	Insulation class	:F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 985 rpm	Design	: B
Locked rotor time	· 25s (cold) 14s (hot)		

Locked folor tilling	. 2	05 (COId) 145 (110t)			
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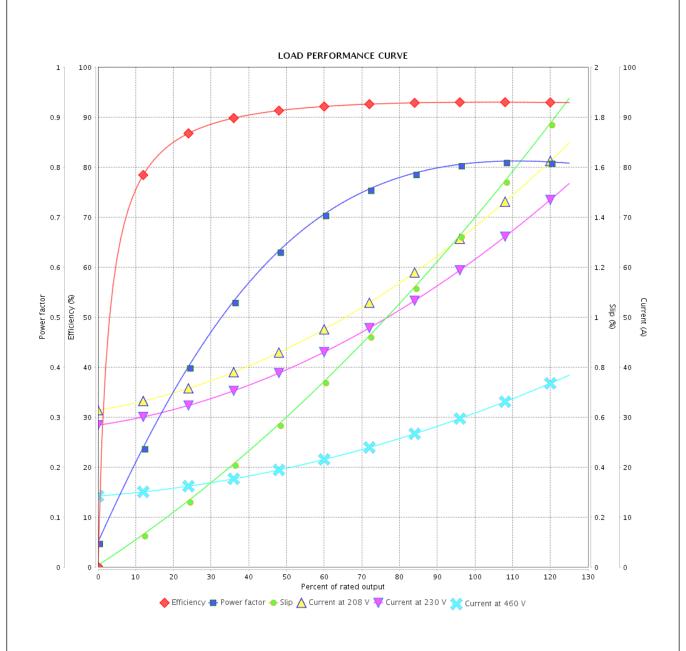
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Three-Phase

Product code: 14503630

Catalog #: 02512OT3E324T-W40G

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Performance		: 230/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 61.6/30.8 A : 6.2 : 111 ft.lb : 210 % : 250 % : 1183 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		
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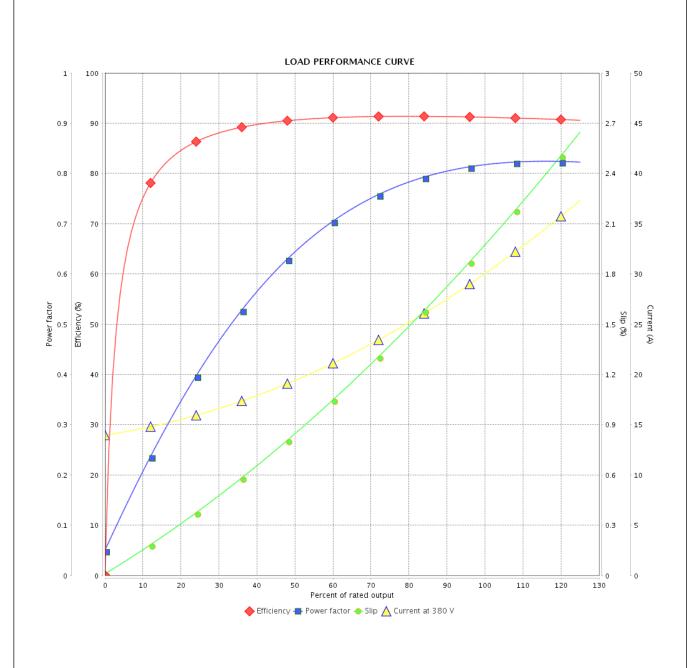
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Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Catalog # : 02512OT3E324T-W40G

14503630



Performance	: 3	880 V 50 Hz 6P IE3				
Rated current		30.5 A	Moment o	f inertia (J)	: 7.69 sq.ft.lb	
LRC	: 6	6.6	Duty cycle)	: Cont.(S1)	
Rated torque	: 1	07 ft.lb	Insulation	class	: F	
Locked rotor torque		70 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	250 %	Temperature rise		: 80 K	
Rated speed	: 9	80 rpm Design			: B	
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Three-Phase

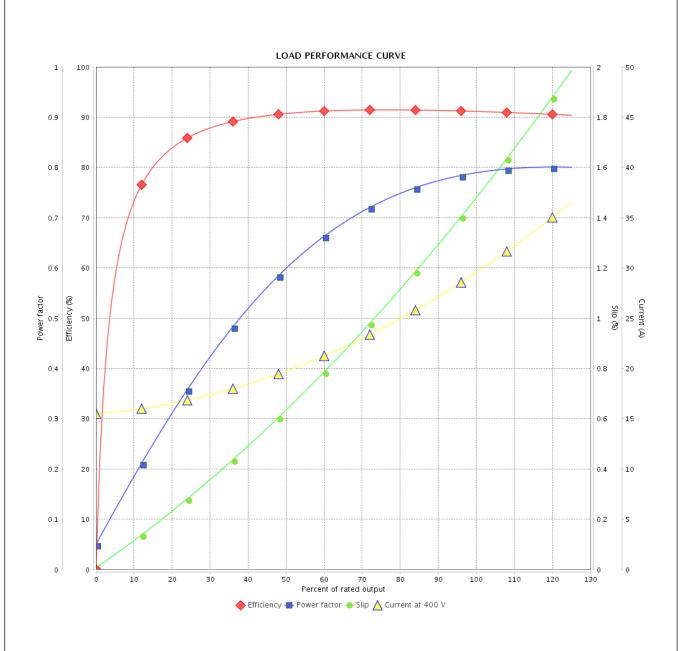
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Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 30.1 A : 6.8 : 107 ft.lb : 229 % : 290 % : 985 rpm	Moment of inertia (J) : 7.69 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B			
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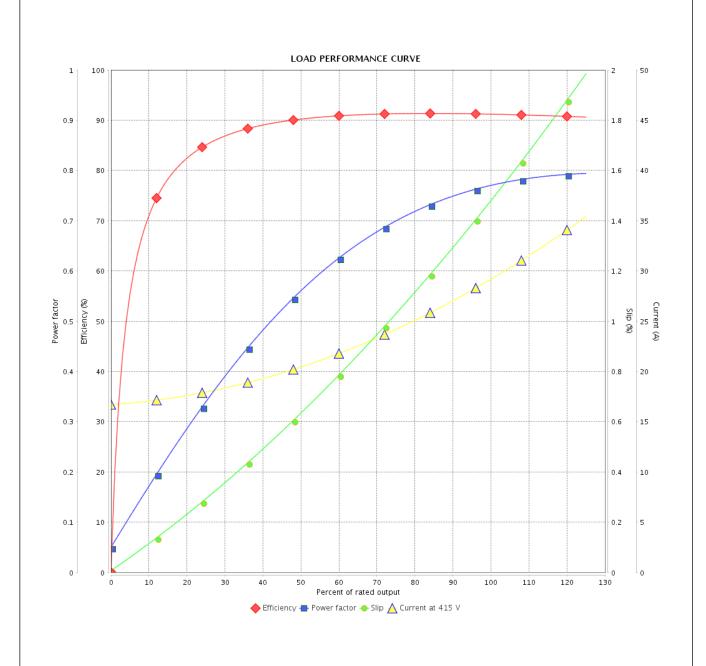
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Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14503630

02512OT3E324T-W40G Catalog #:



Performance	: 4	115 V 50 Hz 6P IE3	3			
Rated current		29.7 A	Moment o	f inertia (J)	: 7.69 sq.ft.lb	
LRC	: 6	3.9	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	107 ft.lb	Insulation	class	: F	
Locked rotor torque :		210 %	Service fa	ctor	: 1.00	
Breakdown torque		310 %	Temperatu	Temperature rise		
Rated speed	: 9	985 rpm	Design		: B	
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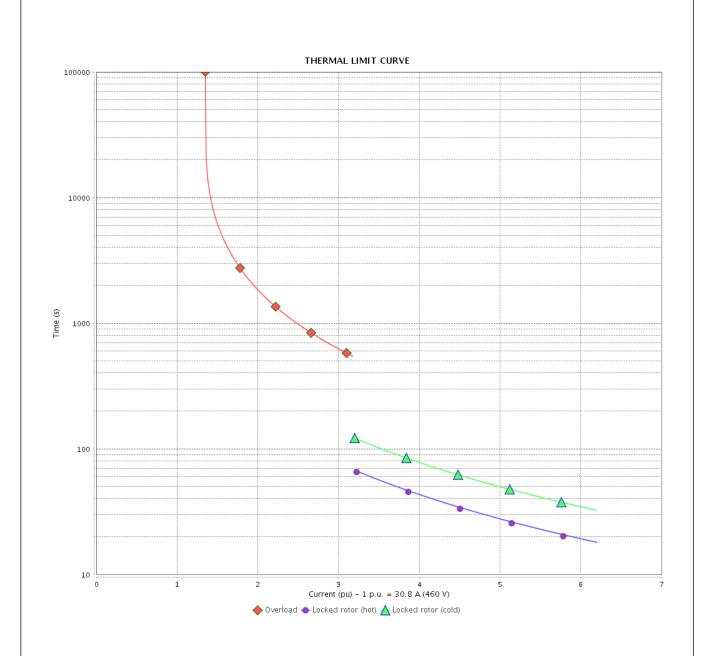


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Product line	- 1	N40 NEMA Premium Effici	onov '	Product code :	14502020	
Product line		nree-Phase			14503630	
			(Catalog # :	02512OT3E3	24T-W40G
Performance		30/460 V 60 Hz 6P		· · · · · · ·	7.00 (1.11	
Rated current LRC	: 6′ : 6.	1.6/30.8 A 2	Moment of Duty cycle	f inertia (J)	: 7.69 sq.ft.lb : Cont.(S1)	
Rated torque	: 11	11 ft.lb	Insulation	class	: F	
Locked rotor torq Breakdown torqu		10 % 50 %	Service far Temperatu		: 1.25 : 80 K	
Rated speed		183 rpm	Design		: B	
Heating constant						
Cooling constant						
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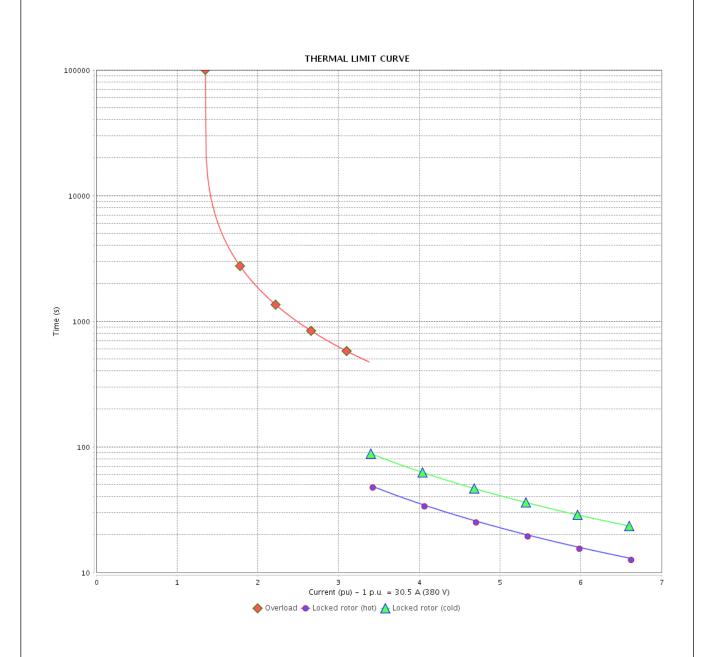


Customer	:					
Product line	: T	W40 NEMA Premium Efficie hree-Phase		Product code :	14503630 02512OT3E3	24T-W40G
Performance		80 V 50 Hz 6P IE3				
Rated current LRC	: 6		Duty cycle		: 7.69 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torc	que : 1	07 ft.lb 70 %	Insulation Service fa	ctor	: F : 1.00	
Breakdown torqu Rated speed	ıe : 2	250 % 080 rpm	Temperatu Design	ıre rise	: 80 K : B	
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Heating constant	t					
Heating constant	t					
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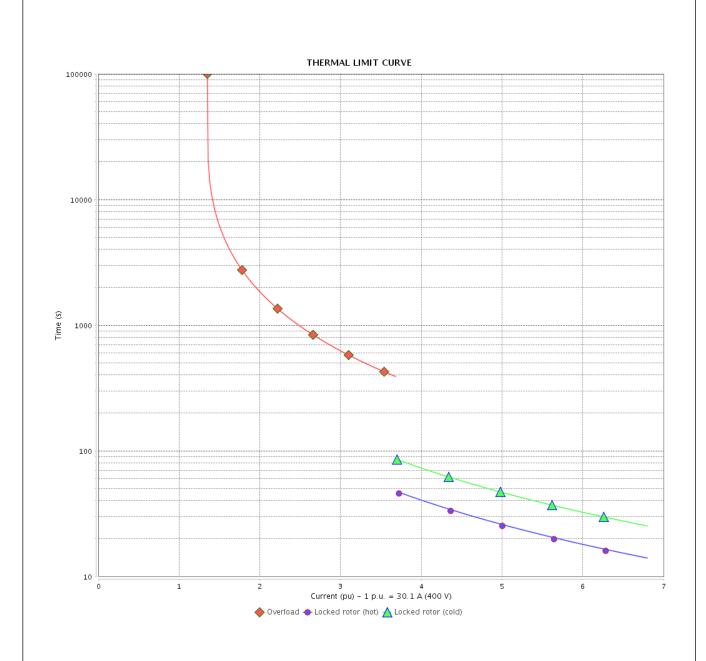


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Product line		: W40 NEMA Premium Efficient		Product code : Catalog # :	14503630 02512OT3E3	24T-W40G
Performance	:	: 400 V 50 Hz 6P IE3				
Rated current LRC		: 30.1 A : 6.8	Moment of Duty cycle	of inertia (J)	: 7.69 sq.ft.lb : Cont.(S1)	
Rated torque	:	: 107 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 229 % : 290 %	Service fa Temperati		: 1.00 : 80 K	
Rated speed		: 985 rpm	Design	u. 5 1100	: B	
Heating constan					,	
Cooling constan	t	Observe O		D(Ob 1	Б.
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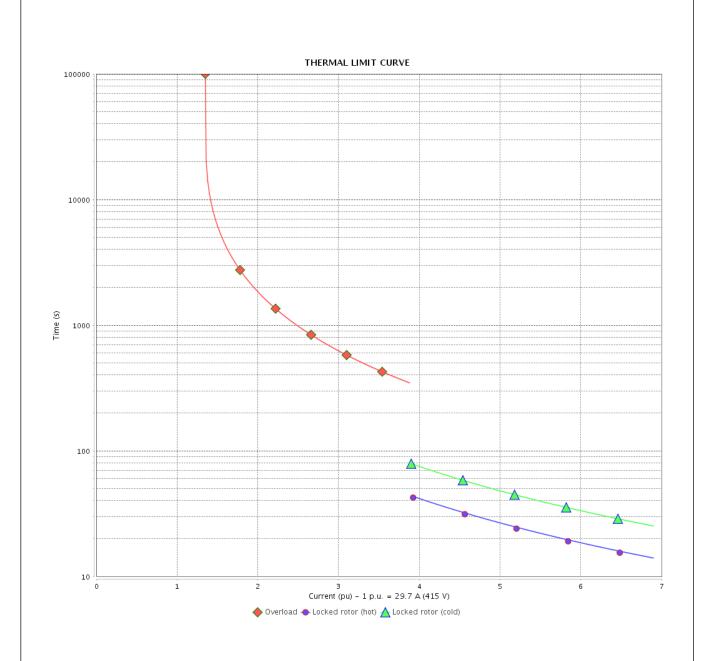


Customer		:				
Product line		: W40 NEMA Premium Efficion Three-Phase		Product code :	14503630 02512OT3E3	24T-W40G
Performance		445 V 50 H- 0D IF0				
Rated current		415 V 50 Hz 6P IE3 29.7 A	Moment o	f inertia (J)	: 7.69 sq.ft.lb	
LRC	:	6.9	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor tord		107 ft.lb 210 %	Insulation Service fa		: F : 1.00	
Breakdown torqu		310 %	Temperati		: 1.00 : 80 K	
Rated speed		985 rpm	Design		: B	
Heating constant						
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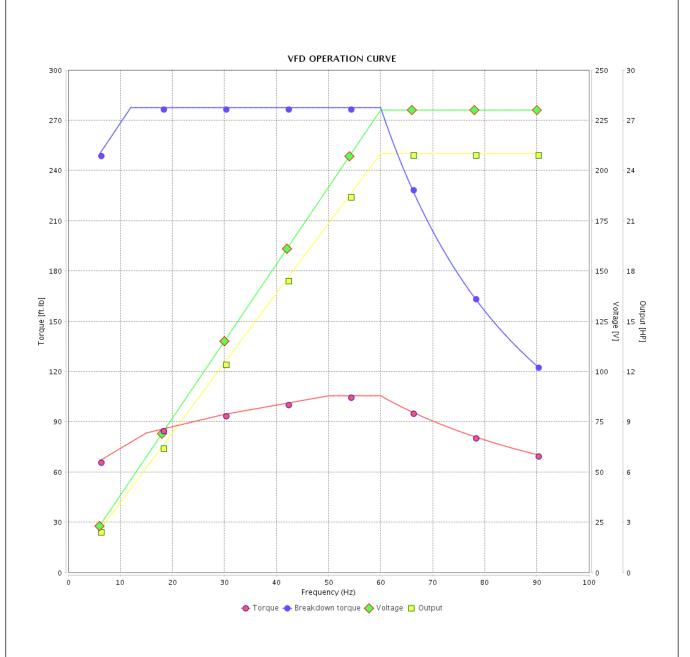
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14503630

Catalog #: 02512OT3E324T-W40G

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D (200/400 1/ 00 1/ 00					
Performance	: 2	230/460 V 60 Hz 6P	,				
Rated current			1	Moment of inertia (J)			
		· 	' '	Duty cycle			
Rated torque	· · · · · · · · · · · · · · · · · · ·	11 ft.lb	Insulation class		: F		
Locked rotor torque		210 %		Service factor		: 1.25	
Breakdown torque		250 %	Temperati	Temperature rise			
Rated speed	: 1	183 rpm	Design		: B		
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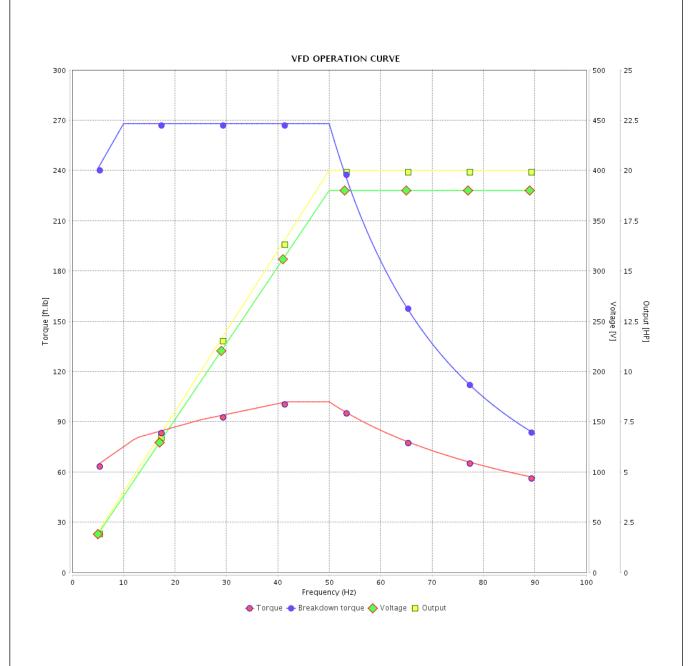
Customer

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Catalog # : 02512OT3E324T-W40G

14503630



Performance	:	380 V 50 Hz 6P IE3				
Rated current	:	: 30.5 A Moment		f inertia (J)	: 7.69 sq.ft.lb	
LRC	:	6.6	Duty cycle	;	: Cont.(S1)	
Rated torque	:	107 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	170 %	Service fa	ctor	: 1.00	
Breakdown torque	:	250 %	Temperati	ıre rise	: 80 K	
Rated speed	:	980 rpm	Design		: B	
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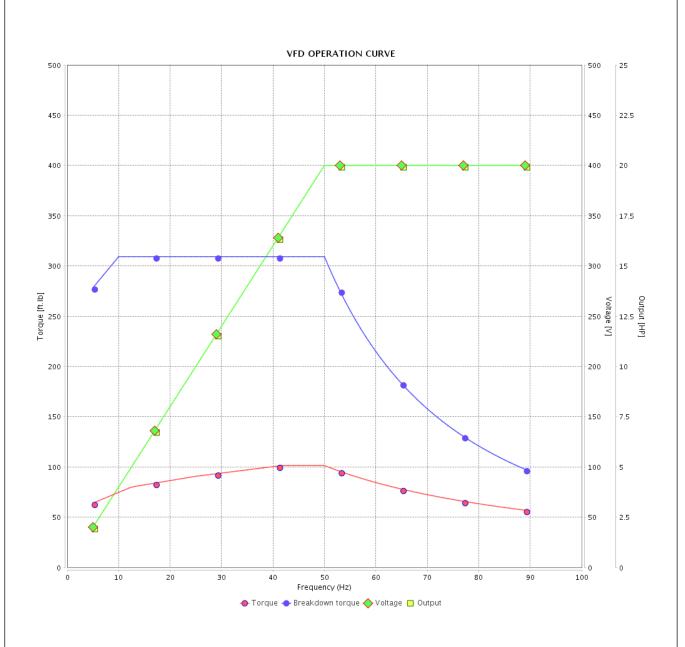
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Three-Phase

Product code: 14503630

Catalog #: 02512OT3E324T-W40G

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Performance	: 40	00 V 50 Hz 6P IE3				
LRC : Rated torque : Locked rotor torque :		D.1 A 8 D7 ft.lb 29 %	Moment of inertia (J) Duty cycle Insulation class Service factor		: 7.69 sq.ft.lb : Cont.(S1) : F : 1.00	
Breakdown torqu	ie : 29	90 %	Temperat	ure rise	: 80 K	
Rated speed	: 98	35 rpm	Design		: B	
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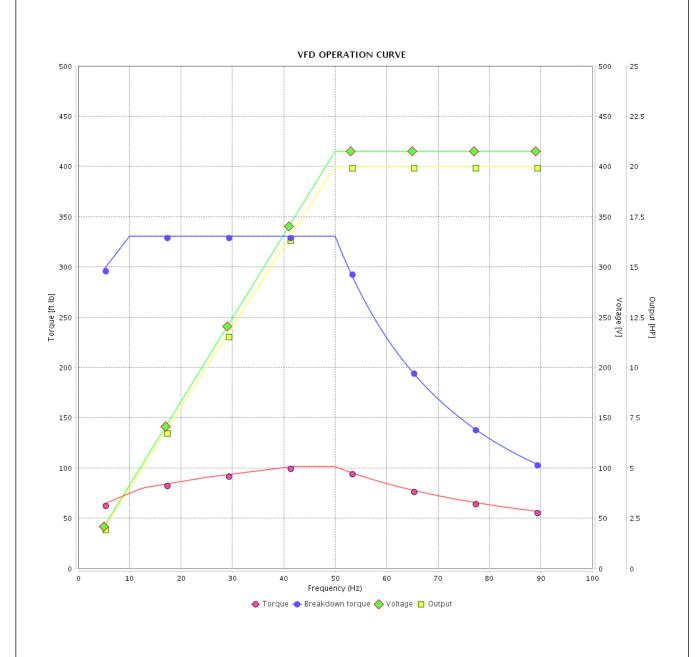
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14503630

Catalog #: 02512OT3E324T-W40G



Performance	: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 29.7 A : 6.9 : 107 ft.lb : 210 % : 310 % : 985 rpm	Moment of Duty cycle Insulation Service fa Temperati Design	class ctor	: 7.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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