### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Product code:

Three-Phase

02518OT3E284T-W40G Catalog #:

14503702

Frame : 284T Cooling method : IC01 - ODP

Insulation class Mounting : F-1

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

Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 352 lb Moment of inertia (J) Protection degree : IP23 : 3.71 sq.ft.lb

Design	е	: IP23 : B	Woment of Inc	епіа (J) : 3.71	sq.π.ib
Output [HP]		25	20	20	20
Poles		4	4	4	4
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		59.0/29.5	29.5	28.7	28.0
L. R. Amperes [A]		372/186	171	192	190
LRC [A]		6.3x(Code G)	5.8x(Code G)	6.7x(Code H)	6.8x(Code J)
No load current [A	]	22.0/11.0	10.0	11.0	12.0
Rated speed [RPI	<b>/</b> 1]	1765	1465	1470	1475
Slip [%]		1.94	2.33	2.00	1.67
	Rated torque [ft.lb]		71.4	71.2	71.2
Locked rotor torqu	Locked rotor torque [%]		229	250	270
Breakdown torque	[%]	270	250	290	300
Service factor		1.25	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		64s (cold) 36s (hot)	70s (cold) 39s (hot)	64s (cold) 36s (hot)	61s (cold) 34s (hot)
Noise level <sup>2</sup>		64.0 dB(A)			
	25%	92.8	91.5	91.5	91.5
Efficiency (0/)	50%	93.0	91.7	91.7	91.7
Efficiency (%)	75%	93.6	92.1	92.1	92.1
	100%	93.6	92.1	92.1	92.1
	25%	0.45	0.46	0.42	0.38
Dower Footor	50%	0.69	0.69	0.65	0.62
Power Factor	75%	0.80	0.79	0.77	0.74
	100%	0.84	0.84	0.82	0.81

Drive end Non drive end Foundation loads 6311 Z C3 Bearing type 6211 Z C3 Max. traction Without Without Max. compression

Bearing Seal Bearing Seal

20000 h 20000 h Lubrication interval Lubricant amount 11 g Lubricant type Mobil Polyrex EM

Notes

Sealing

USABLE @208V 65.2A SF 1.15 SFA 75.0A

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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#### Three Phase Induction Motor - Squirrel Cage



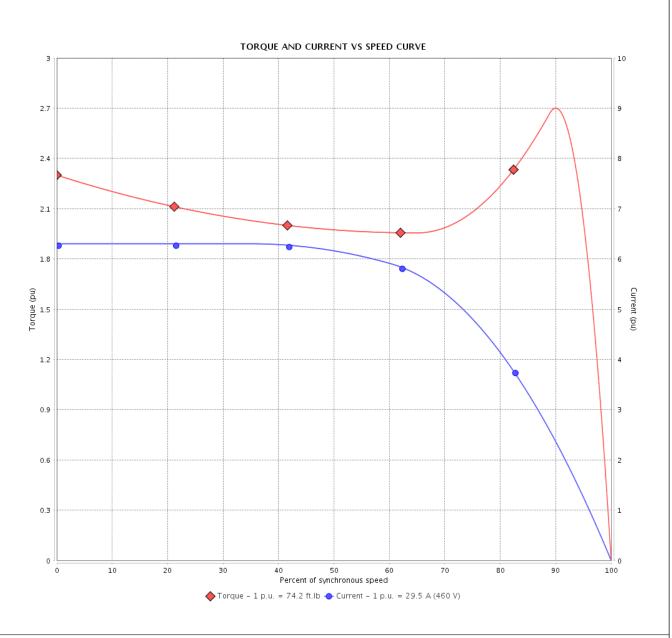
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14503702

Catalog #: 02518OT3E284T-W40G



Performance : 230/460 V 60 Hz 4P Rated current : 59.0/29.5 A Moment of inertia (J) : 3.71 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) : 74.2 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 250 % : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B

Locked rotor time : 64s (cold) 36s (hot)

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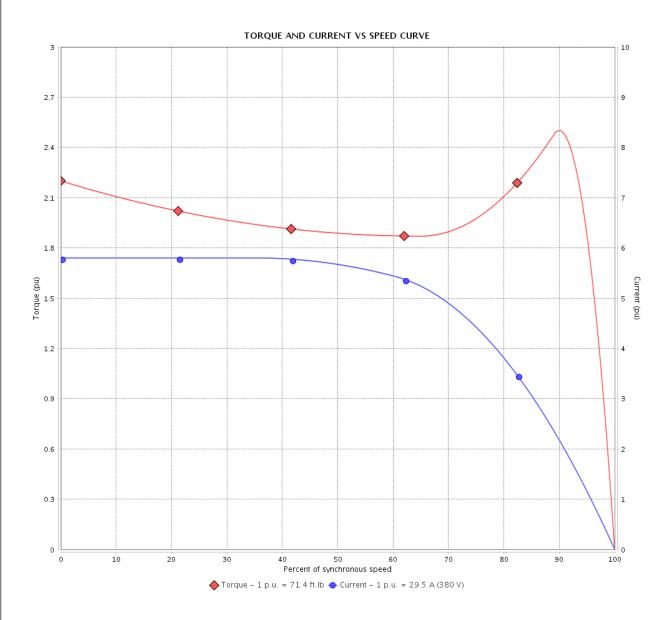
Customer :

Product line : W40 NEMA Premium Efficiency F

Three-Phase

Product code: 14503702

Catalog #: 02518OT3E284T-W40G



Performance : 380 V 50 Hz 4P IE3 Rated current : 29.5 A Moment of inertia (J) : 3.71 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 71.4 ft.lb : F : 229 % Locked rotor torque Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K : B Rated speed : 1465 rpm Design Locked rotor time : 70s (cold) 39s (hot)

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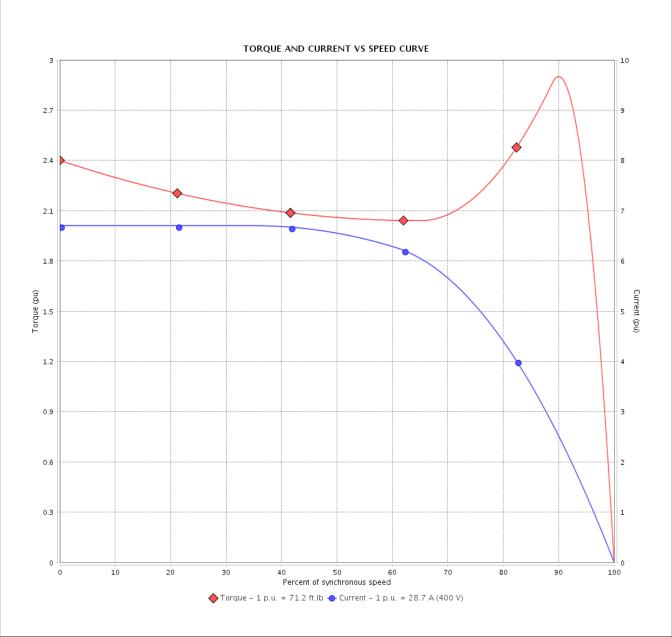
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14503702

Catalog #: 02518OT3E284T-W40G



Performance : 400 V 50 Hz 4P IE3 Rated current : 28.7 A Moment of inertia (J) : 3.71 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 71.2 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 250 % : 1.00 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1470 rpm Design : B

Locked rotor time : 64s (cold) 36s (hot)

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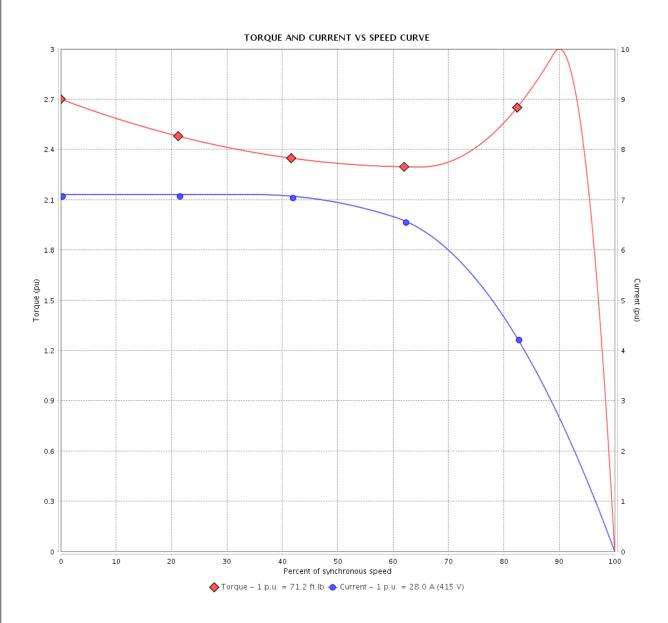
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14503702

Catalog #: 02518OT3E284T-W40G



Performance : 415 V 50 Hz 4P IE3 Rated current : 28.0 A Moment of inertia (J) : 3.71 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) : 71.2 ft.lb Insulation class Rated torque : F : 270 % Locked rotor torque Service factor : 1.00 Breakdown torque : 300 % Temperature rise : 80 K : B Rated speed : 1475 rpm Design

Locked rotor time : 61s (cold) 34s (hot)

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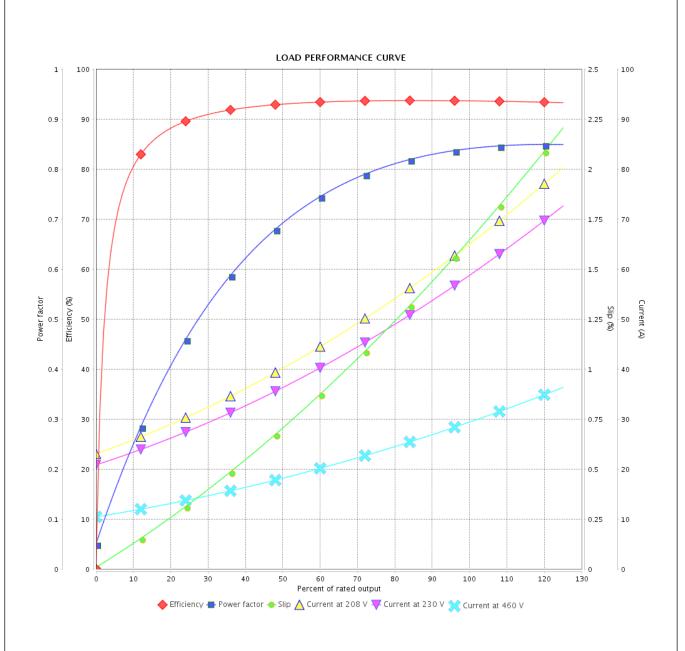
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14503702

Catalog #: 02518OT3E284T-W40G



Performance	: 23	30/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6. : 7 <sup>2</sup> que : 25 ie : 27	9.0/29.5 A 3 4.2 ft.lb 50 % 70 % 765 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class actor	: 3.71 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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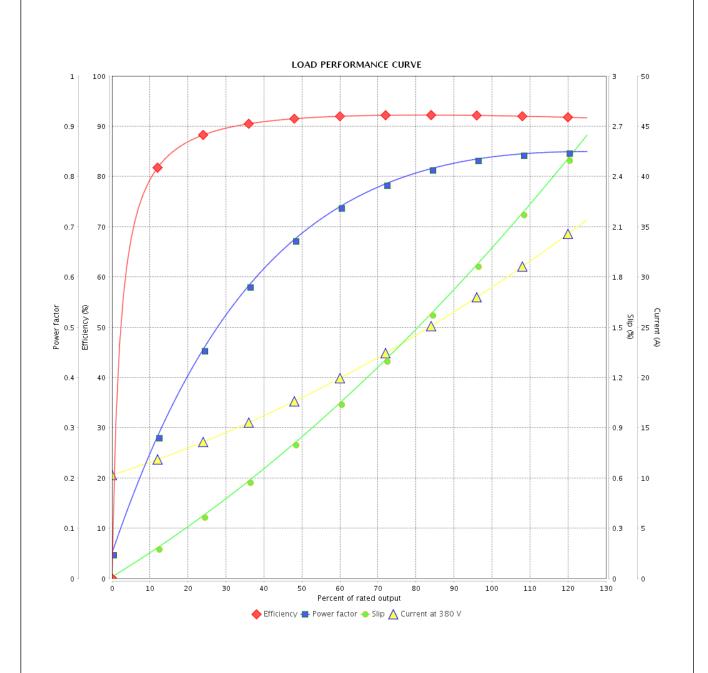
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14503702

02518OT3E284T-W40G Catalog #:



Performance	: 3	80 V 50 Hz 4P IE3				
Rated current	: 2	9.5 A	Moment of	f inertia (J)	: 3.71 sq.ft.lb	
LRC	: 5	.8	Duty cycle	;	: Cont.(S1)	
Rated torque	: 7	1.4 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 2	29 %	Service fa	ctor	: 1.00	
Breakdown torqu	ie : 2	50 %	Temperature rise		: 80 K	
Rated speed	: 1	465 rpm Design			: B	
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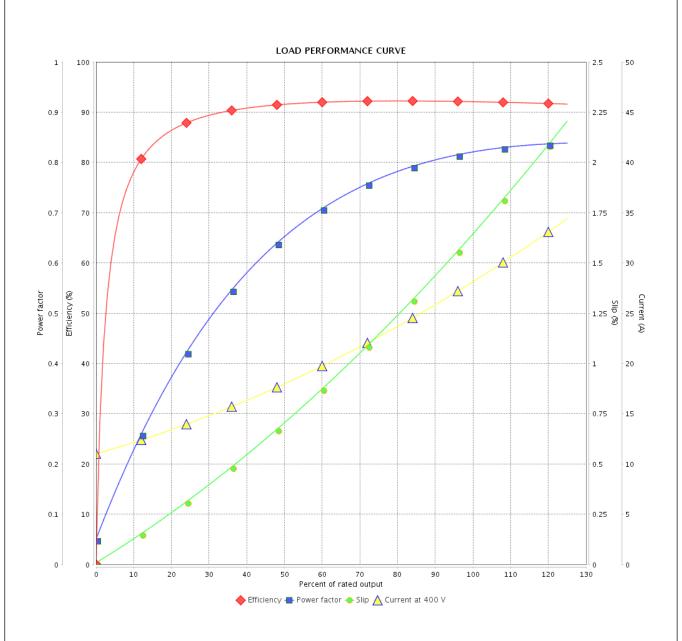
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14503702

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Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 28.7 A : 6.7 : 71.2 ft.lb : 250 % : 290 % : 1470 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class	: 3.71 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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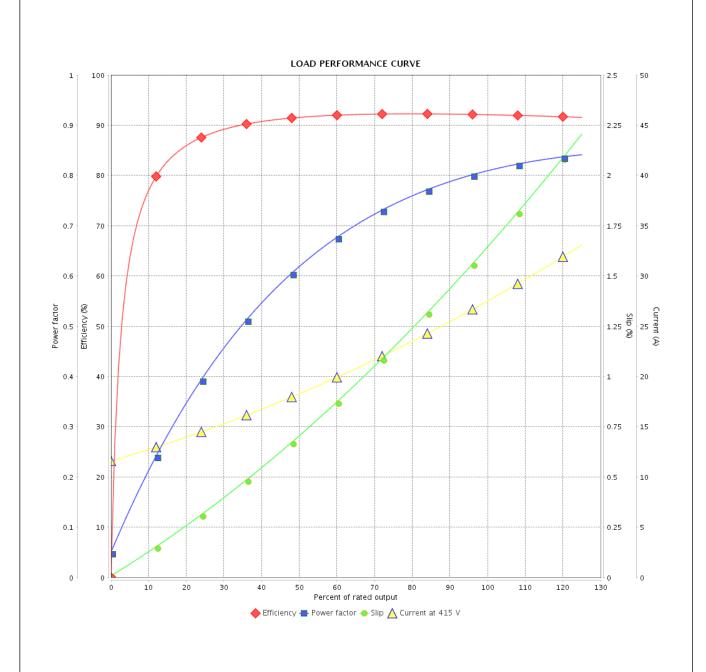
Customer

Product line : W40 NEMA Premium Efficiency Product code:

Three-Phase

02518OT3E284T-W40G Catalog #:

14503702



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current : 28.0 A		8.0 A	Moment o	f inertia (J)	: 3.71 sq.ft.lb	
LRC : 6.		8.8	Duty cycle	)	: Cont.(S1)	
Rated torque : 7		1.2 ft.lb	Insulation	class	: F	
Locked rotor torque :		70 %	Service fa	ctor	: 1.00	
Breakdown torque		00 %	Temperati	Temperature rise		
Rated speed	: 1	475 rpm	Design		: B	
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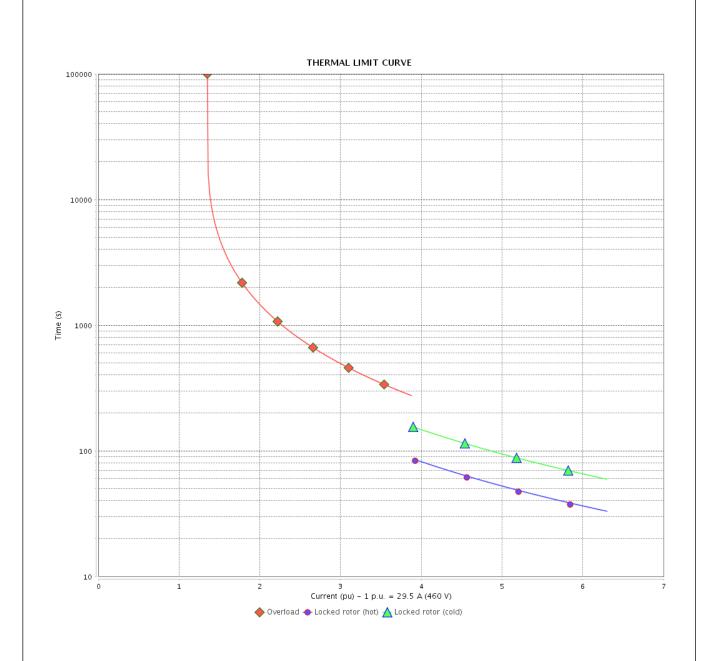


Customer	:					
Product line		N40 NEMA Premium Effici nree-Phase	ency I	Product code :	14503702	
		noc i nacc	(	Catalog # :	02518OT3E2	84T-W40G
Performance	: 23	80/460 V 60 Hz 4P				
Rated current		9.0/29.5 A	Moment of	f inertia (J)	: 3.71 sq.ft.lb	
LRC Rated torque	: 6. : 74	3 1.2 ft.lb	Duty cycle Insulation	: class	: Cont.(S1) : F	
Locked rotor torque	: 25	50 %	Service fa	ctor	: 1.25	
Breakdown torque Rated speed	: 27	70 % 765 rpm	Temperatu Design	ıre rise	: 80 K : B	
Heating constant						
Cooling constant						
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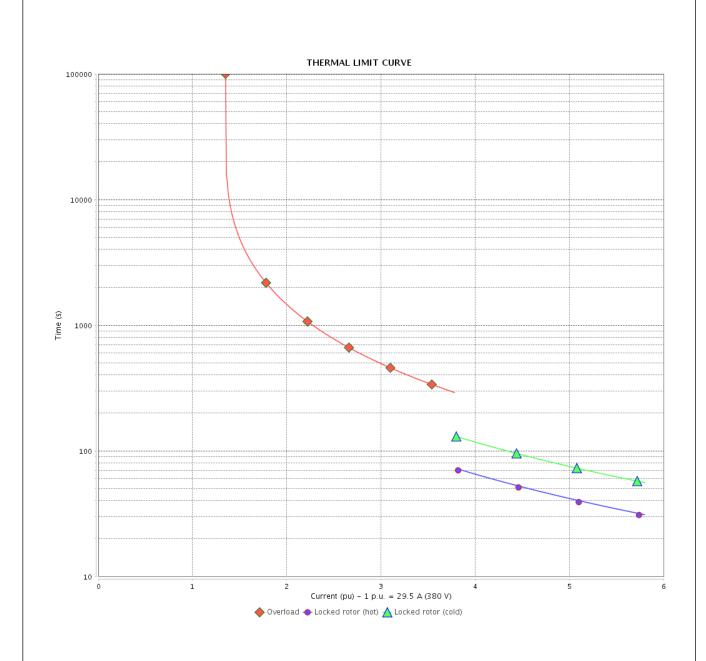


Customer	:				
Product line	: W40 NEMA Premium Efficie Three-Phase		Product code :	14503702	247 W400
			Catalog # :	02518OT3E2	341-7740G
D. f	000 \ / 50 \ \ . 4D \   50				
	: 380 V 50 Hz 4P IE3 : 29.5 A	Moment of	f inertia (J)	: 3.71 sq.ft.lb	
LRC	: 5.8	Duty cycle	!	: Cont.(S1)	
	: 71.4 ft.lb : 229 %	Insulation Service fa		: F : 1.00	
Breakdown torque	: 250 %	Temperatu		: 80 K	
	: 1465 rpm	Design		: B	
Heating constant					
Cooling constant  Rev.	Changes Summary		Performed	Checked	Date
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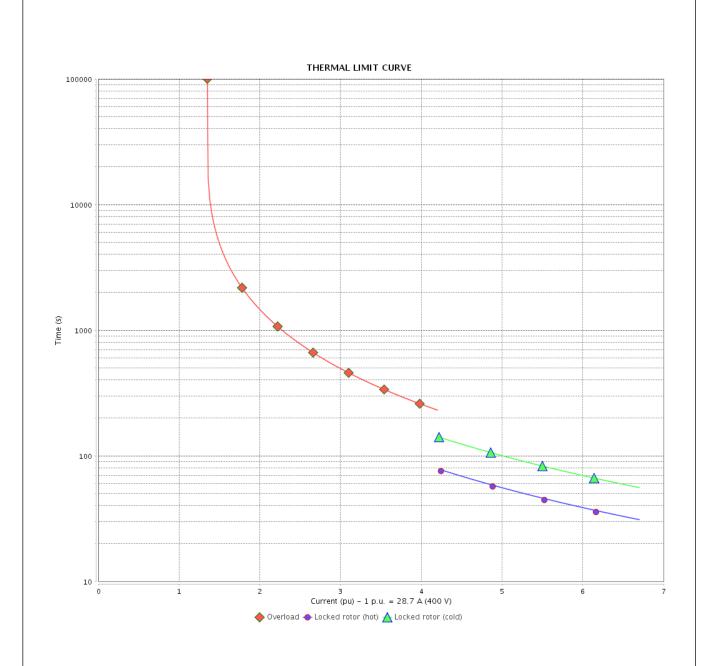


Customer		:				
Product line		: W40 NEMA Premium Efficie Three-Phase		Product code : Catalog # :	14503702 02518OT3E28	34T-W40G
Performance		400 V 50 Hz 4P IE3				
Rated current LRC	:	28.7 A 6.7	Duty cycle		: 3.71 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord	que :	71.2 ft.lb 250 %	Insulation Service fa	ctor	: F : 1.00	
Breakdown torqu Rated speed		290 % 1470 rpm	Temperatu Design	ıre rise	: 80 K : B	
Heating constant						
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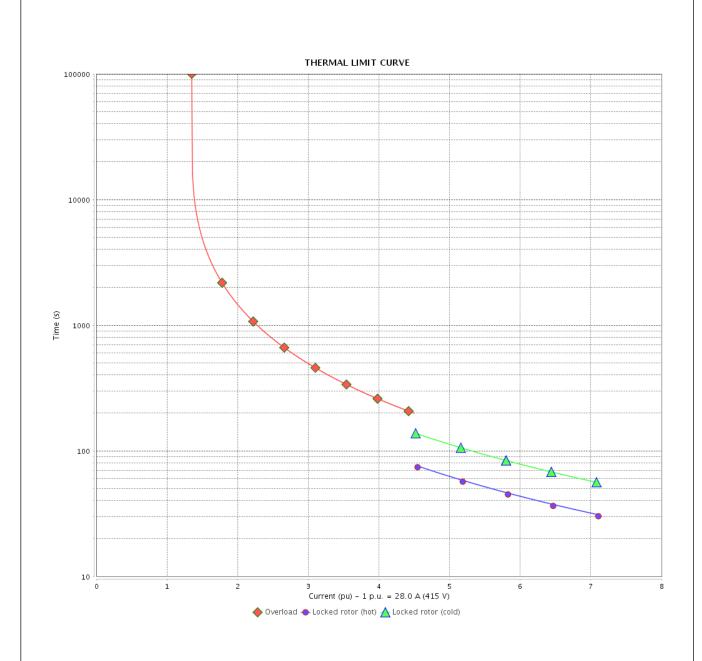


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Customer	:					
Product line	: \ Tr	N40 NEMA Premium Efficie nree-Phase	ency F	Product code :	14503702	
	''	ilee-riidse	(	Catalog # :	02518OT3E2	84T-W40G
Performance	: 41	15 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 28 : 6. : 71 ue : 27 e : 30	3.0 A	Moment of Duty cycle Insulation Service fac Temperatu Design	class ctor	: 3.71 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
		'				
Heating constant Cooling constant						
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Customer :

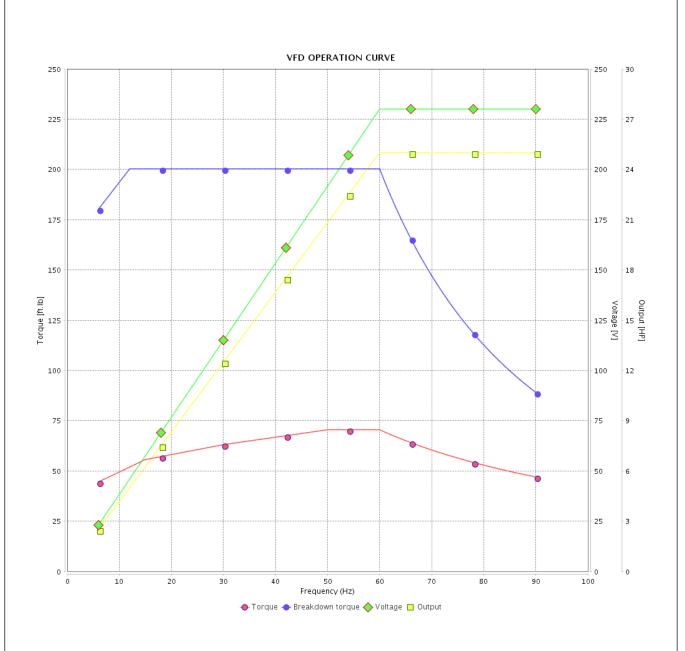
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14503702

Catalog #: 02518OT3E284T-W40G

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Performance	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	C : 6.3 Duty cycle Insulation class Service factor torque : 250 % Service factor Temperature rise		lass	: 3.71 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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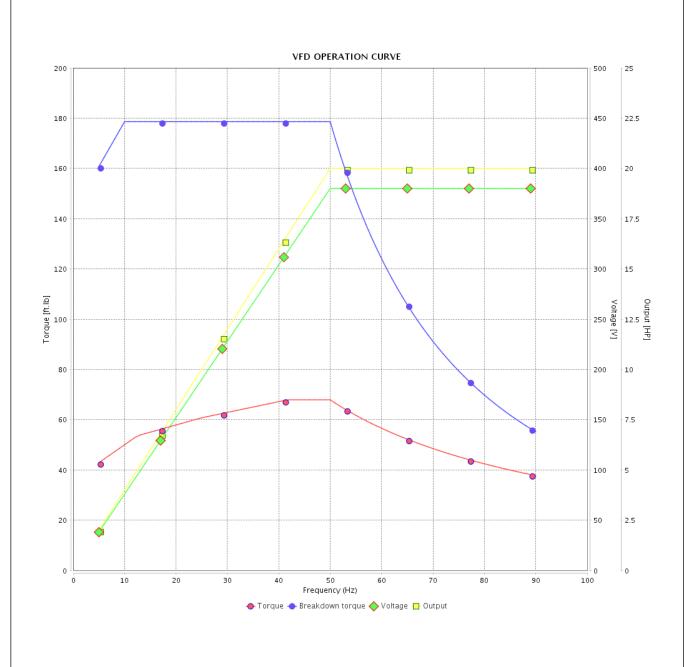
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14503702

Catalog #: 02518OT3E284T-W40G



Performance	: 3	80 V 50 Hz 4P IE3				
Rated current	: 2	: 29.5 A		f inertia (J)	: 3.71 sq.ft.lb	
LRC	: 5	.8	Duty cycle	)	: Cont.(S1)	
Rated torque	: 7	1.4 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2:	29 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 2	50 %	Temperature rise		: 80 K	
Rated speed	: 1	465 rpm	Design		: B	
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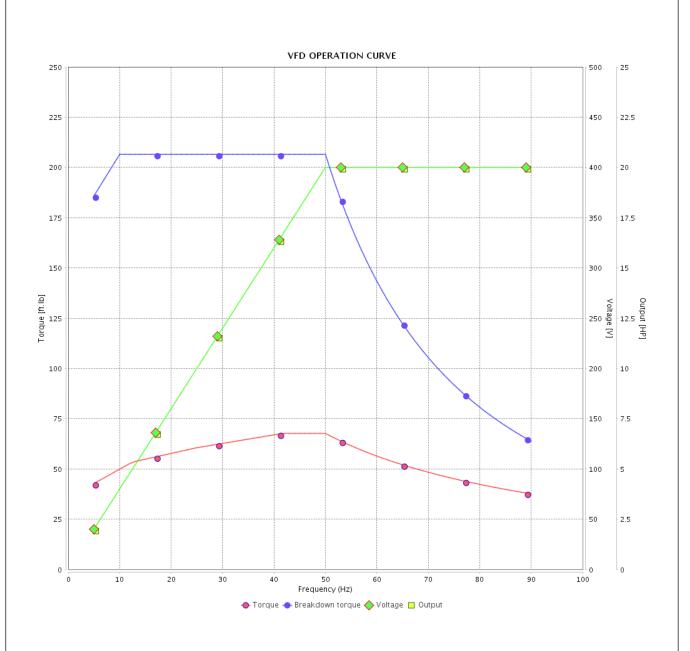
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14503702

Catalog #: 02518OT3E284T-W40G

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Performance		: 400 V 50 Hz 4P II	E3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	C : 6.7 Duty cycle led torque : 71.2 ft.lb Insulation class led torque : 250 % Service factor akdown torque : 290 % Temperature rise		e class actor	: 3.71 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B		
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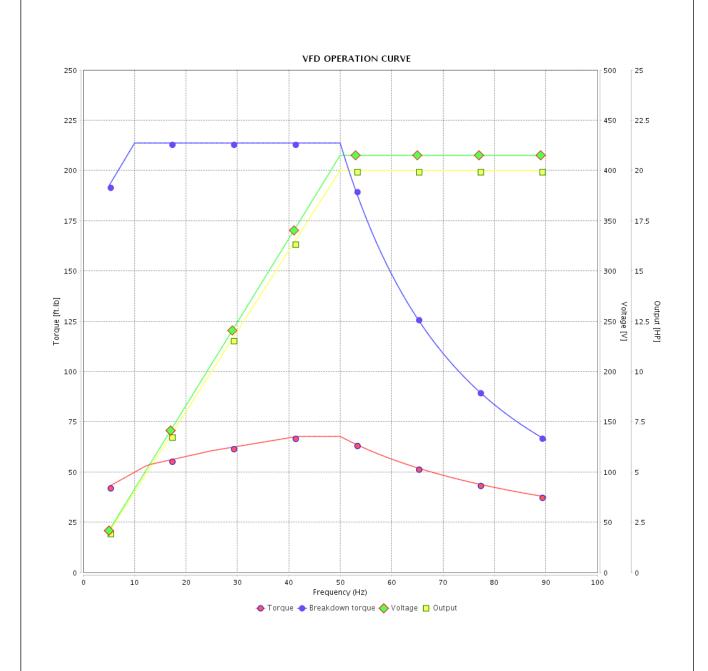
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14503702

Catalog #: 02518OT3E284T-W40G



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	: 2	8.0 A	Moment of	of inertia (J)	: 3.71 sq.ft.lb	
LRC	: 6	5.8	Duty cycle	e	: Cont.(S1)	
Rated torque	: 7	1.2 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2	270 %	Service fa	actor	: 1.00	
Breakdown torque	e : 3	800 %	0 % Temperature rise		: 80 K	
Rated speed	: 1	475 rpm	Design		: B	
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