DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Catalog #: 03012OT3E326T-W40G

14503747

Frame : 324/6T Cooling method : IC01 - ODP

Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

Ambient temperature : -20°C to +40°C Starting method : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight³ : 516 lb
Protection degree : IP23 Moment of inertia (J) : 9.56 sq.ft.lb

Protection degree	е	: IP23	Moment of ine	ertia (J) : 9.56	sq.ft.lb
Design		: B			
Output [HP]		30	25	25	25
Poles		6	6	6	6
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		72.0/36.0	36.5	35.5	34.6
L. R. Amperes [A]		454/227	223	238	235
LRC [A]		6.3x(Code G)	6.1x(Code G)	6.7x(Code H)	6.8x(Code H)
No load current [A]]	29.6/14.8	14.6	15.8	16.8
Rated speed [RPM	1]	1182	980	980	980
Slip [%]		1.50	2.00	2.00	2.00
Rated torque [ft.lb]		133	134	134	134
Locked rotor torque [%]		200	160	180	200
Breakdown torque [%]		240	229	260	
Service factor		1.25	1.00	1.00 1.00	
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		30s (cold) 17s (hot)	25s (cold) 14s (hot)	23s (cold) 13s (hot)	23s (cold) 13s (hot)
Noise level ²		62.0 dB(A)			
	25%	91.7	91.2	91.2	91.4
Efficiency (%)	50%	92.4	91.4	91.4	91.6
Efficiency (70)	75%	93.0	91.8	91.8	91.8
	100%	93.6	91.8	91.8	91.8
	25%	0.44	0.44	0.40	0.38
Power Factor	50%	0.70	0.70	0.66	0.63
I OWEI FACIOI	75%	0.79	0.80	0.77	0.75
	100%	0.82	0.84	0.82	0.81

<u>Drive end</u> <u>Non drive end</u> Found : 6312 Z C3 6211 Z C3 _{Max. t}

Sealing : Without Without Bearing Seal Bearing Seal

Lubrication interval:20000 h20000 hLubricant amount:21 g11 gLubricant type:Mobil Polyrex EM

Foundation loads

Max. traction
Max. compression

Notes

Bearing type

USABLE @208V 79.6A SF 1.15 SFA 91.6A

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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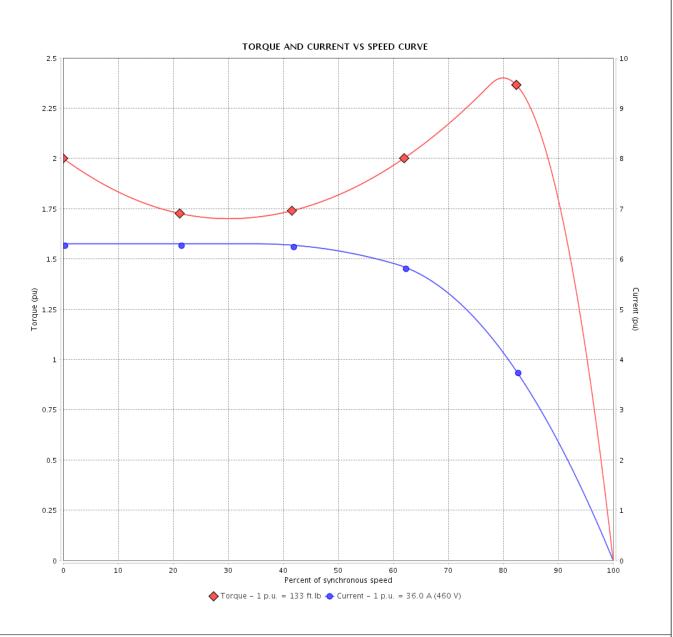
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14503747

Catalog #: 03012OT3E326T-W40G



Performance : 230/460 V 60 Hz 6P Rated current : 72.0/36.0 A Moment of inertia (J) : 9.56 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 133 ft.lb : F Service factor Locked rotor torque : 200 % : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1182 rpm Design : B

Locked rotor time : 30s (cold) 17s (hot)

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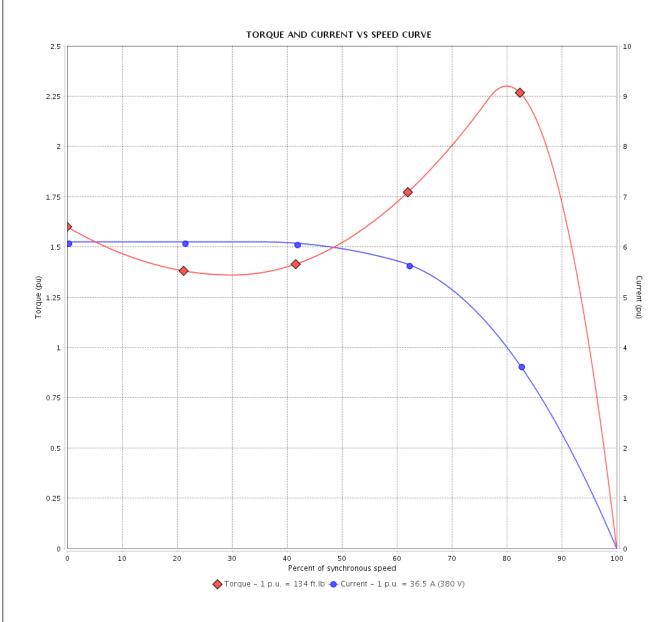
Customer

Product line : W40 NEMA Premium Efficiency Product code:

Three-Phase

14503747

Catalog #: 03012OT3E326T-W40G



Performance : 380 V 50 Hz 6P IE3 Rated current : 36.5 A Moment of inertia (J) : 9.56 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 134 ft.lb : F Locked rotor torque : 160 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 80 K : B Rated speed : 980 rpm Design

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

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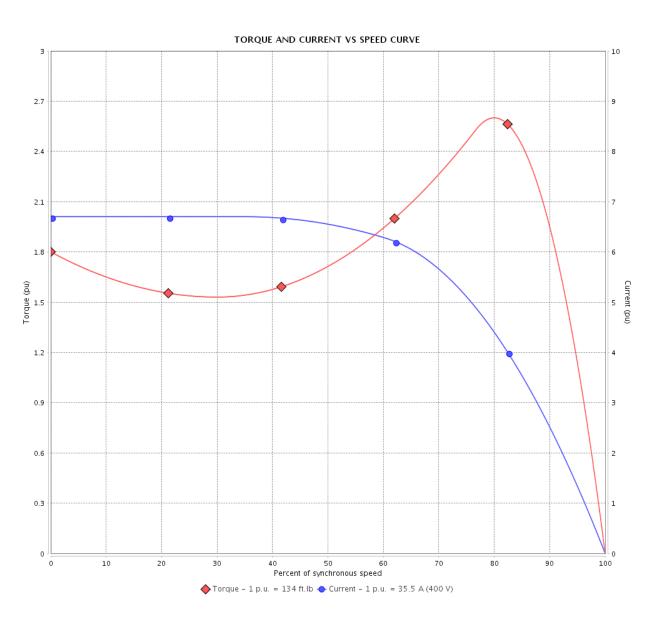


Customer

Product line : W40 NEMA Premium Efficiency Product code: 14503747

Three-Phase

Catalog #: 03012OT3E326T-W40G



Performance	: 400 V 50 Hz 6P IE3			
Rated current	: 35.5 A	Moment of inertia (J)	: 9.56 sq.ft.lb	
LRC	: 6.7	Duty cycle	: Cont.(S1)	
Rated torque	: 134 ft.lb	Insulation class	: F	
Locked rotor torque	: 180 %	Service factor	: 1.00	
Breakdown torque	: 260 %	Temperature rise	: 80 K	
Rated speed	: 980 rpm	Design	: B	
Locked rotor time	: 23s (cold) 13s (hot)			

LOCKED TOTOL LITTLE	. 208 (cold) 108 (1101)		
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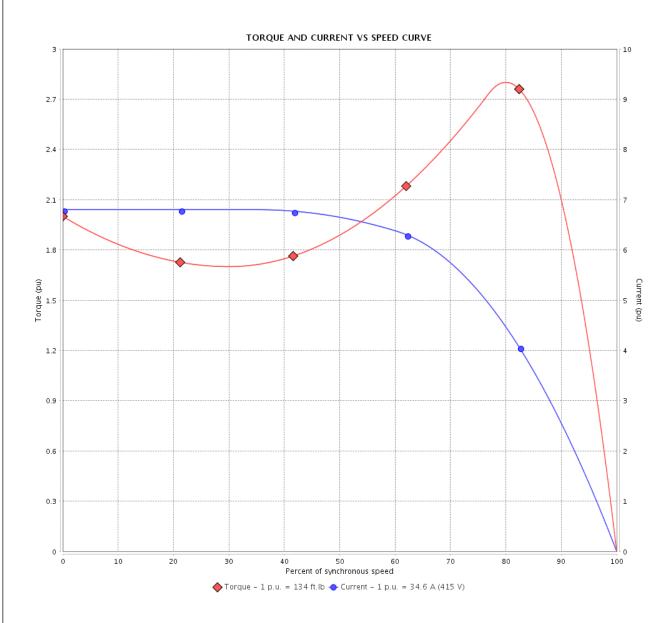
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Customer

Product line : W40 NEMA Premium Efficiency Product code: 14503747

Catalog #: 03012OT3E326T-W40G



Performance	: 415 V 50 Hz 6P IE3			
Rated current	: 34.6 A	Moment of inertia (J)	: 9.56 sq.ft.lb	
LRC	: 6.8	Duty cycle	: Cont.(S1)	
Rated torque	: 134 ft.lb	Insulation class	: F	
Locked rotor torque	: 200 %	Service factor	: 1.00	
Breakdown torque	: 280 %	Temperature rise	: 80 K	
Rated speed	: 980 rpm	Design	: B	
Locked rotor time	: 23s (cold) 13s (hot)			

LOCKEU TOLOT LITTLE	. 2.	35 (COId) 135 (HOL)			
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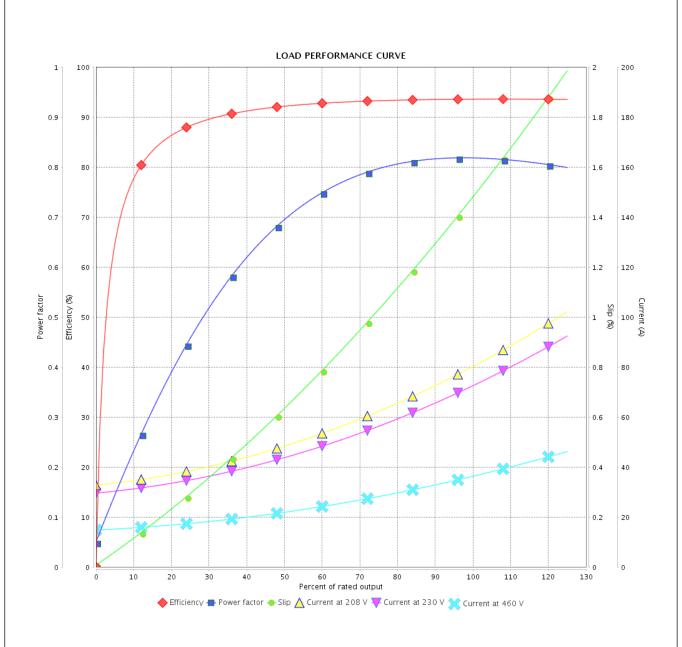
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Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14503747

Catalog #: 03012OT3E326T-W40G



Performance : 230/460 V 60 Hz 6P : 72.0/36.0 A Rated current Moment of inertia (J) : 9.56 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.3 Insulation class Rated torque : 133 ft.lb : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1182 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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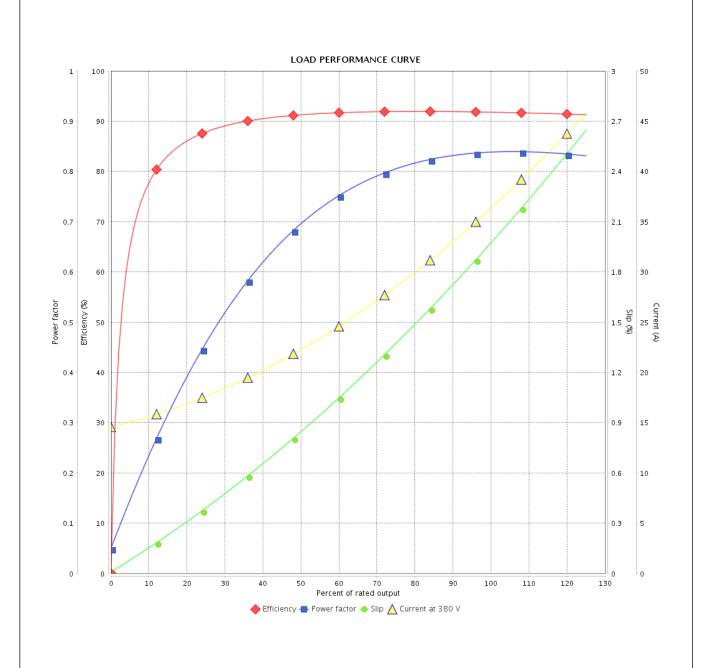
Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

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Performance	: 380 V 50 Hz 6P IE3				
Rated current	: 36.5 A	Moment of in	ertia (J)	: 9.56 sq.ft.lb	
LRC	: 6.1	Duty cycle		: Cont.(S1)	
Rated torque	: 134 ft.lb	Insulation cla	ISS	: F	
Locked rotor torque : 160 % Service factor		: 1.00			
Breakdown torque	: 229 %	Temperature rise		: 80 K	
Rated speed	: 980 rpm	Design		: B	
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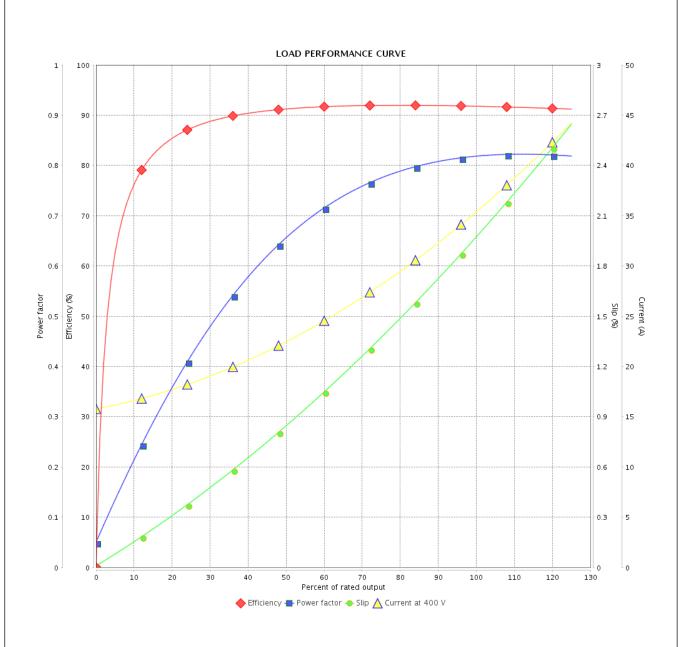
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Three-Phase

Product code: 14503747

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Performance	: 400 V 50 Hz 6P IE	3			
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 35.5 A : 6.7 : 134 ft.lb : 180 % : 260 % : 980 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 9.56 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Product line : W40 NEMA Premium Efficiency Product code :

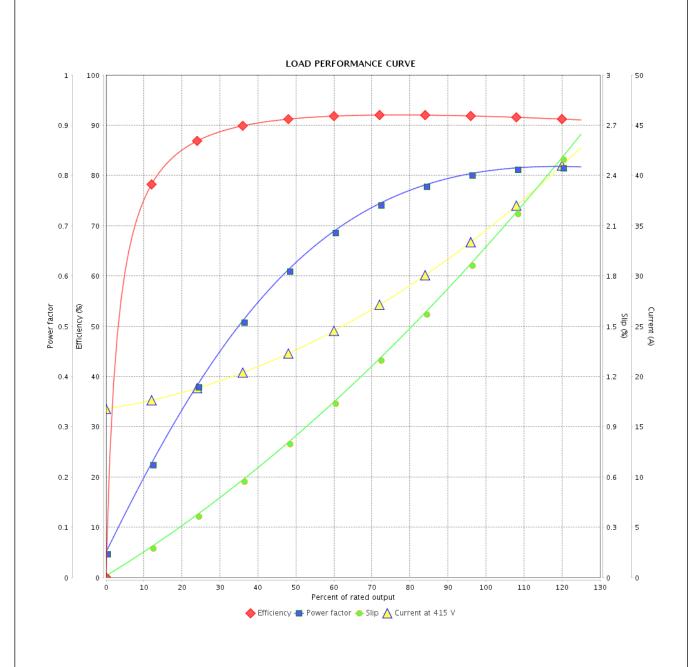
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Performance	: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 34.6 A : 6.8 : 134 ft.lb : 200 % : 280 %	Moment of Duty cycle Insulation c Service fact Temperatur	lass tor	: 9.56 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Rated speed	: 980 rpm	Design		: B	
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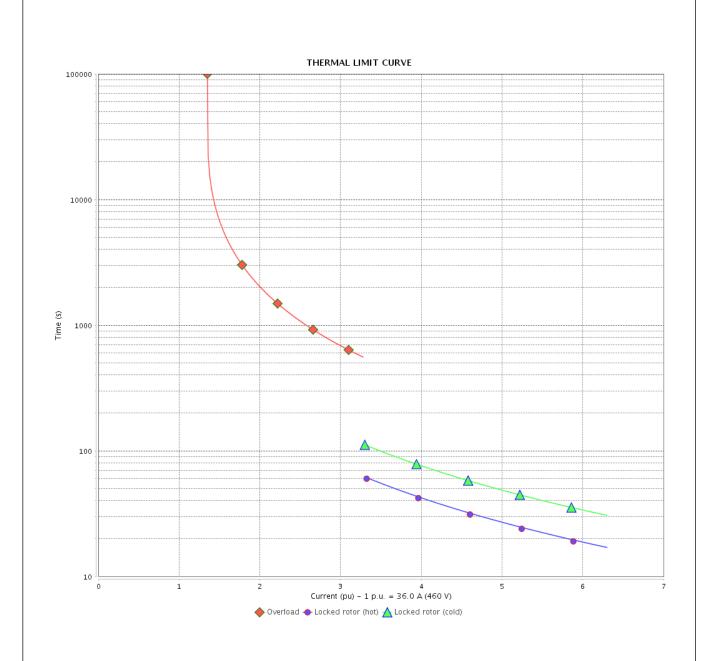


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Product line		: W40 NEMA Premium Effici Three-Phase		Product code : Catalog # :	14503747 03012OT3E32	26T-W40G
Performance		230/460 V 60 Hz 6P				
Rated current LRC Rated torque	:	72.0/36.0 A 6.3 133 ft.lb	Moment on Duty cycle Insulation		: 9.56 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord	que :	200 %	Service fa	ctor	: 1.25	
Breakdown torqu Rated speed		240 % 1182 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constant						
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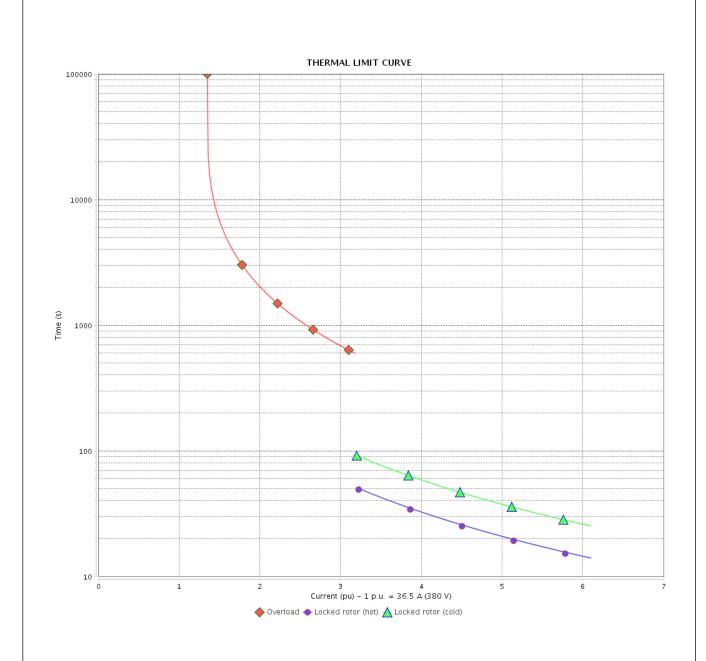


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Product line		: W40 NEMA Premium Efficion Three-Phase		Product code :	14503747 03012OT3E32	26T-W40G
Performance		380 V 50 Hz 6P IE3		.		
Rated current LRC	:	36.5 A 6.1	Duty cycle		: 9.56 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		134 ft.lb 160 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue :	229 %	Temperati		: 80 K	
Rated speed		980 rpm	Design		: B	
Heating constant						
Cooling constant	t .	Changes Summary		Performed	Checked	Date
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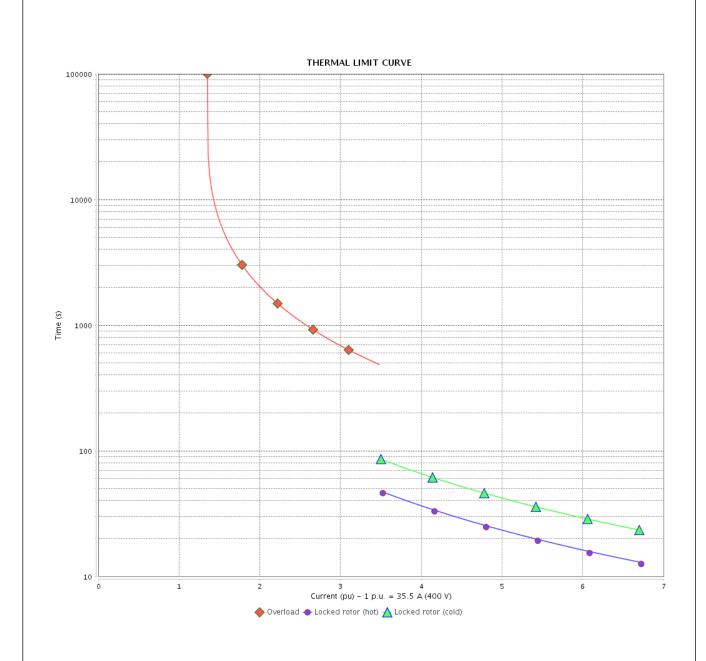


Customer	:					
Product line	: \ TI	W40 NEMA Premium Efficie hree-Phase	ency I	Product code :	14503747	
			(Catalog # :	03012OT3E3	26T-W40G
Performance		00 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 6. : 13 e : 18 : 20	34 ft.lb 80 % 60 %	Duty cycle Insulation Service far Temperatu	class ctor	: 9.56 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Rated speed	: 98	30 rpm	Design		: B	
Heating constant						
Cooling constant		01 0	Т			
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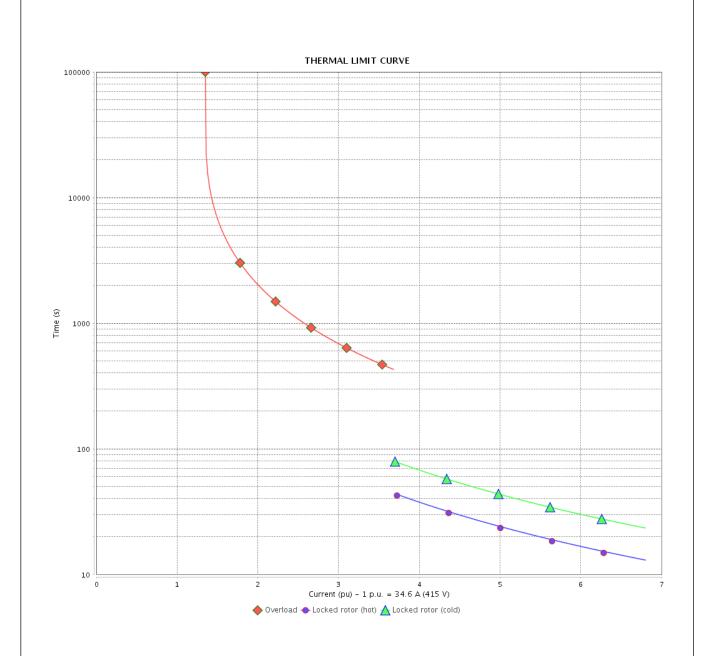


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Product line		N40 NEMA Premium Efficiente Pree-Phase	ency I	Product code :	14503747	
	''	ilee-i ilase	(Catalog # :	03012OT3E3	26T-W40G
Performance		15 V 50 Hz 6P IE3		· · · · · · ·	0.50 6.11	
Rated current LRC	: 6.		Duty cycle	f inertia (J)	: 9.56 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torq		34 ft.lb 00 %	Insulation Service fac	class	: F : 1.00	
Breakdown torqu	e : 28	30 %	Temperatu		: 80 K	
Rated speed	: 98	30 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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Product line : W40 NEMA Premium Efficiency

Three-Phase

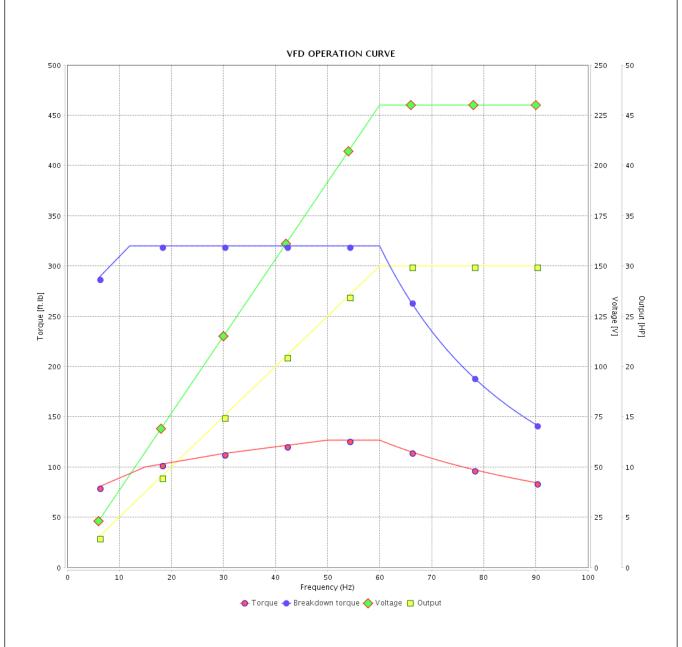
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Performance		: 230/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	lue le	: 72.0/36.0 A : 6.3 : 133 ft.lb : 200 % : 240 % : 1182 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 9.56 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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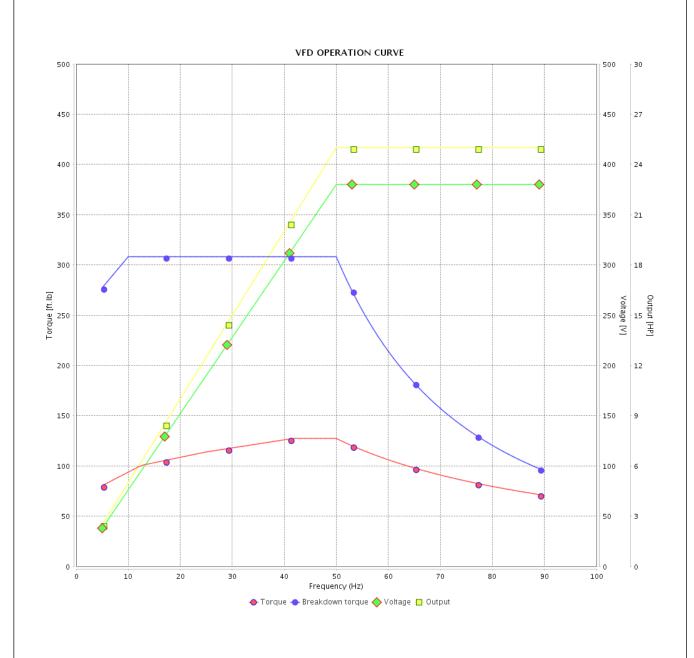
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Product line : W40 NEMA Premium Efficiency Product code :

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Catalog #: 03012OT3E326T-W40G

14503747



Performance	: 3	80 V 50 Hz 6P IE3					
Rated current	ed current : 36.5 A Moment of inertia (J)		f inertia (J)	: 9.56 sq.ft.lb			
LRC	: 6	.1	Duty cycle	:	: Cont.(S1)		
Rated torque	:1	34 ft.lb	Insulation	class	: F		
Locked rotor torqu	ue : 1	60 %	Service fa	ctor	: 1.00		
Breakdown torque	e : 2	29 %	Temperatu	Temperature rise		: 80 K	
Rated speed	: 9	80 rpm	Design		: B		
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Three-Phase

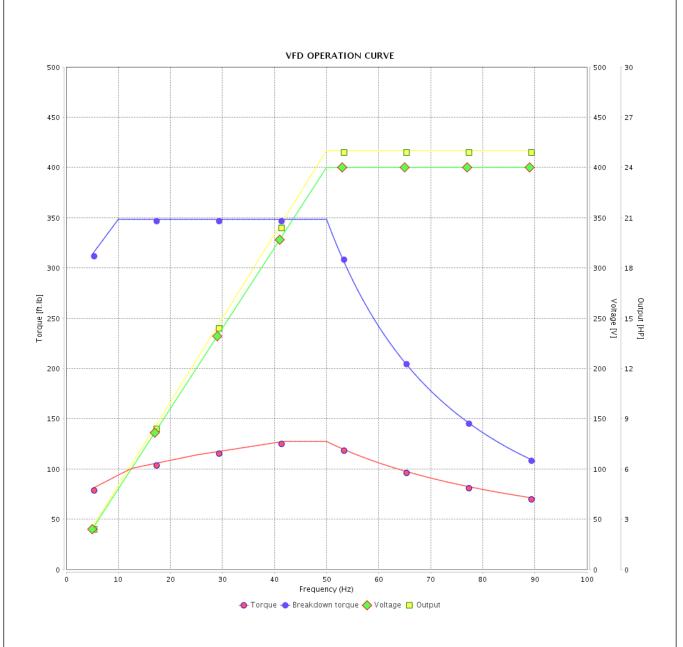
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Performance	:	400 V 50 Hz 6P II	≣3			
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: : : : : : : : : :	35.5 A 6.7 134 ft.lb 180 % 260 % 980 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 9.56 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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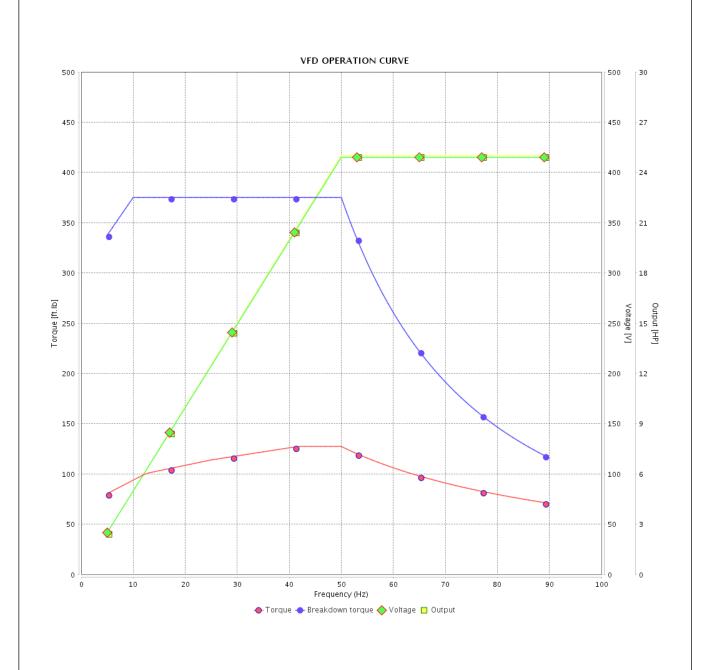
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14503747

Catalog #: 03012OT3E326T-W40G



Performance	:	415 V 50 Hz 6P IE3				
Rated current	:	34.6 A	Moment o	of inertia (J)	: 9.56 sq.ft.lb	
LRC	:	6.8	Duty cycle	9	: Cont.(S1)	
Rated torque	:	134 ft.lb	Insulation	class	: F	
Locked rotor torc	que :	200 %	Service fa	ector	: 1.00	
Breakdown torqu	ie :	280 %	Temperati	Temperature rise : 80 K		
Rated speed	:	980 rpm	Design		: B	
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