### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Product code:

Three-Phase

02012OT3E286T-W40G Catalog #:

14501324

Frame : 284/6T 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 Starting method Ambient temperature : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 385 lb

Protection degre	е	: IP23	Moment of ine	ertia (J) : 6.89	sq.ft.lb
Design		: B			·
Output [HP]		20	15	15	15
Poles		6	6	6	6
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		48.6/24.3	22.0	21.4	20.9
L. R. Amperes [A]		311/156	158	161	157
LRC [A]		6.4x(Code G)	7.2x(Code H)	7.5x(Code J)	7.5x(Code J)
No load current [A	]	18.8/9.40	9.30	10.0	10.5
Rated speed [RPN	<b>/</b> []	1177	980	980	984
Slip [%]		1.92	2.00	2.00	1.60
Rated torque [ft.lb]		89.2	80.4	80.4	80.0
Locked rotor torqu	e [%]	229	270	310	340
Breakdown torque	[%]	260	280	320	340
Service factor		1.25	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		27s (cold) 15s (hot)	28s (cold) 16s (hot)	28s (cold) 16s (hot)	28s (cold) 16s (hot)
Noise level <sup>2</sup>		59.0 dB(A)			
	25%	91.5	89.7	89.7	89.7
Efficiency (9/)	50%	91.7	89.9	89.9	89.9
Efficiency (%)	75%	92.4	90.3	90.3	90.3
	100%	92.4	90.3	90.3	90.3
	25%	0.45	0.42	0.39	0.37
Power Factor	50%	0.71	0.68	0.64	0.62
FOWEI FACIOI	75%	0.80	0.79	0.76	0.74
	100%	0.84	0.84	0.82	0.81

Max. traction

Max. compression

Drive end Non drive end Foundation loads Bearing type 6311 Z C3 6211 Z C3

Without Sealing Without

Bearing Seal Bearing Seal 20000 h 20000 h Lubrication interval

11 g Lubricant amount Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 53.7A SF 1.15 SFA 61.8A

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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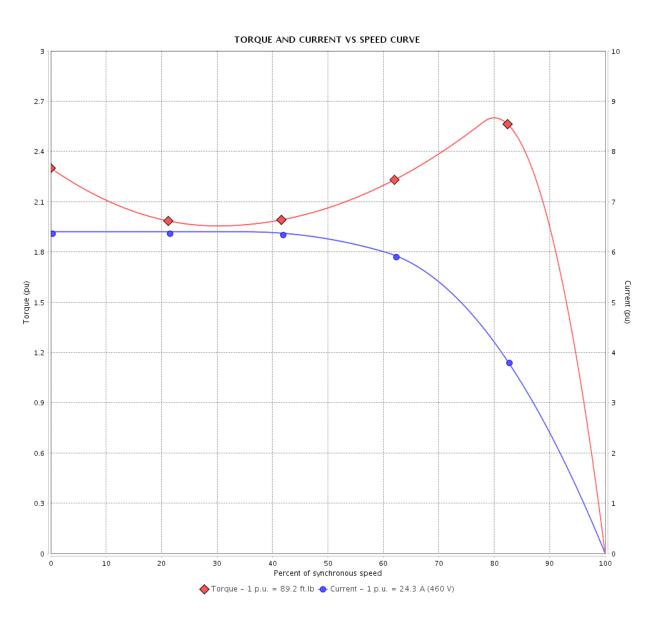


Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14501324

Three-Phase

Catalog #: 02012OT3E286T-W40G



Performance	: 230/460 V 60 Hz 6P			
Rated current LRC Rated torque Locked rotor torque	: 48.6/24.3 A : 6.4 : 89.2 ft.lb : 229 %	Moment of inertia (J) Duty cycle Insulation class Service factor	: 6.89 sq.ft.lb : Cont.(S1) : F : 1.25	
Breakdown torque Rated speed	: 260 % : 1177 rpm	Temperature rise Design	: 80 K : B	
Locked rotor time	: 27s (cold) 15s (hot)			

Locked rotor time	е	: 27s (cold) 15s (hot)	

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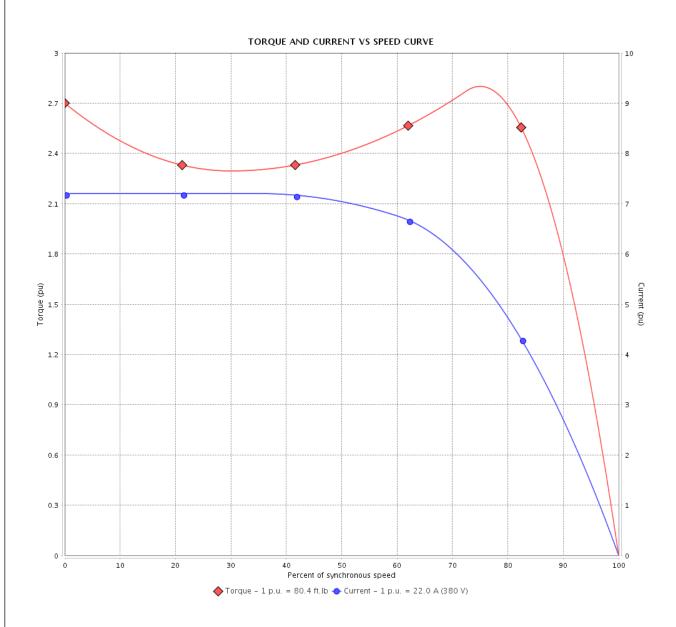


Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14501324

Three-Phase

Catalog #: 02012OT3E286T-W40G



Performance	: 380 V 50 Hz 6P IE3			
Rated current	: 22.0 A	Moment of inertia (J)	: 6.89 sq.ft.lb	
LRC	: 7.2	Duty cycle	: Cont.(S1)	
Rated torque	: 80.4 ft.lb	Insulation class	: F	
Locked rotor torque	: 270 %	Service factor	: 1.00	
Breakdown torque	: 280 %	Temperature rise	: 80 K	
Rated speed	: 980 rpm	Design	: B	

Locked rotor time : 28s (cold) 16s (hot)

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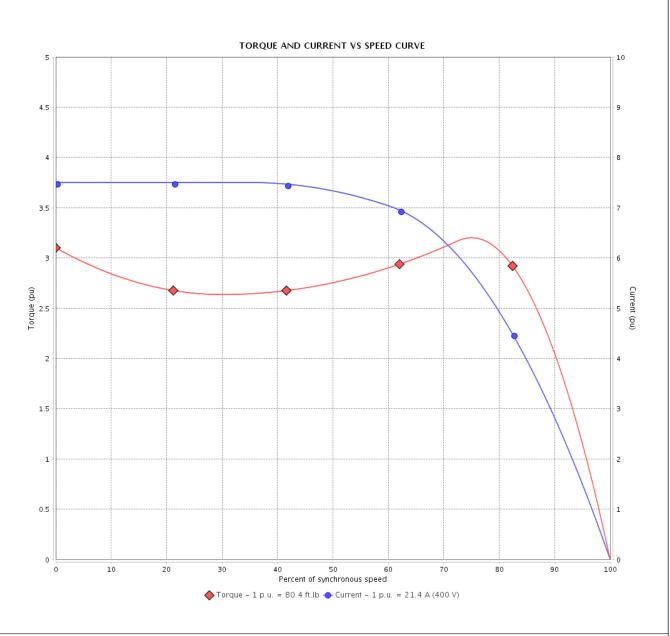
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14501324

Catalog #: 02012OT3E286T-W40G



Performance : 400 V 50 Hz 6P IE3 Rated current : 21.4 A Moment of inertia (J) : 6.89 sq.ft.lb **LRC** : 7.5 Duty cycle : Cont.(S1) : 80.4 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 310 % : 1.00 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 980 rpm Design : B

Locked rotor time : 28s (cold) 16s (hot)

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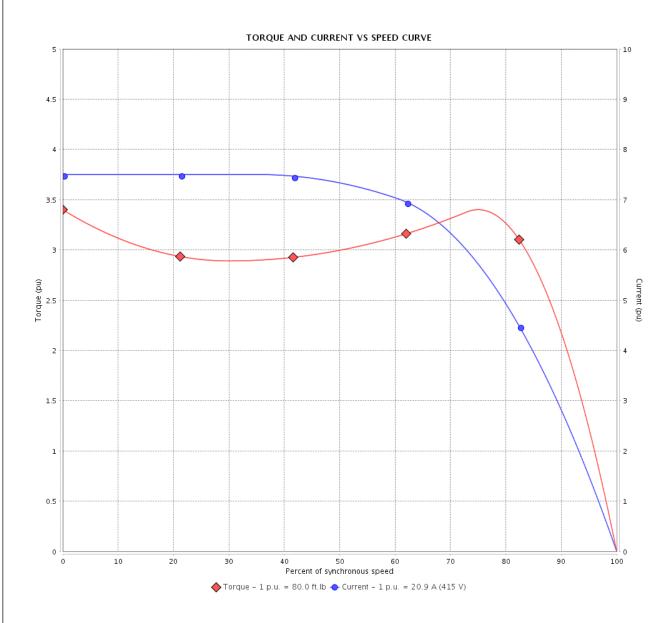
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Product code: 14501324

Catalog #: 02012OT3E286T-W40G



Performance	: 415 V 50 Hz 6P IE3			
Rated current	: 20.9 A	Moment of inertia (J)	: 6.89 sq.ft.lb	
LRC	: 7.5	Duty cycle	: Cont.(S1)	
Rated torque	: 80.0 ft.lb	Insulation class	:F	
Locked rotor torque	: 340 %	Service factor	: 1.00	
Breakdown torque	: 340 %	Temperature rise	: 80 K	
Rated speed	: 984 rpm	Design	: B	
Locked rotor time	: 28s (cold) 16s (hot)			

Locked folor tilling	. 20	os (cola) Tos (Hot)			
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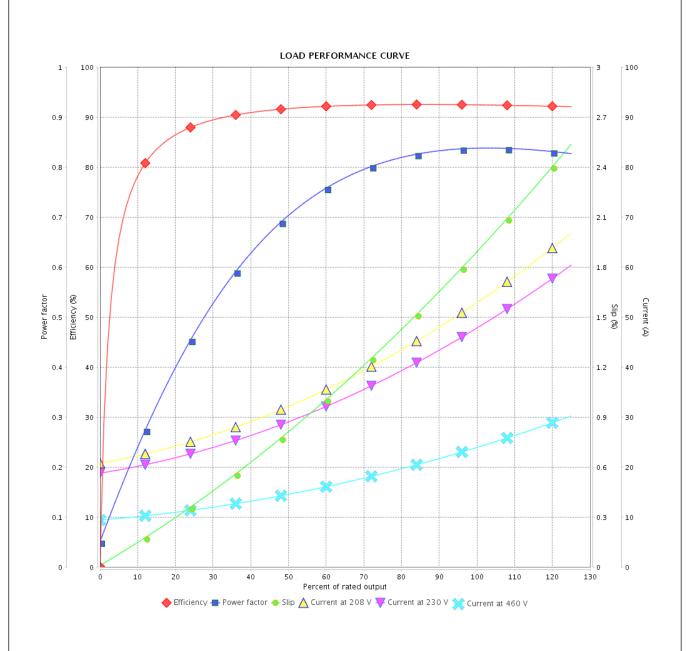
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14501324

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Performance	: 230/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 48.6/24.3 A : 6.4 : 89.2 ft.lb : 229 % : 260 % : 1177 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 6.89 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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Product line : W40 NEMA Premium Efficiency Product code : 14501324

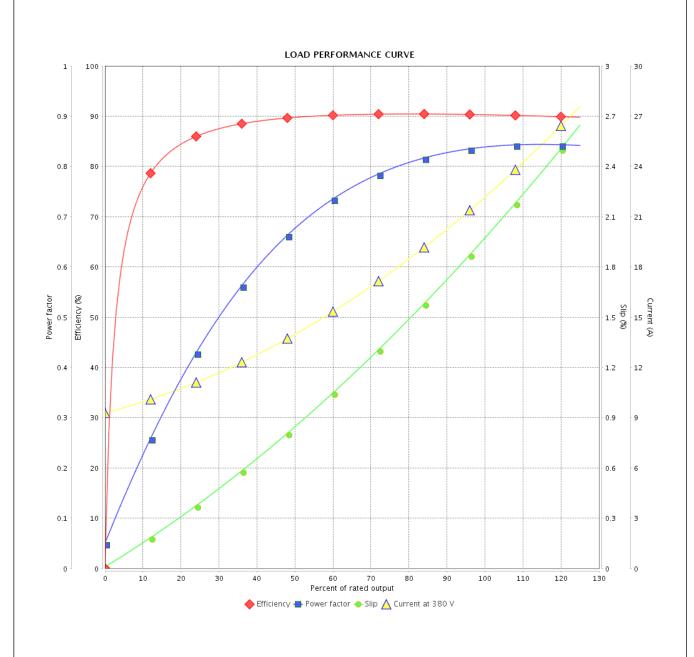
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Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 22.0 A : 7.2 : 80.4 ft.lb : 270 % : 280 % : 980 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 6.89 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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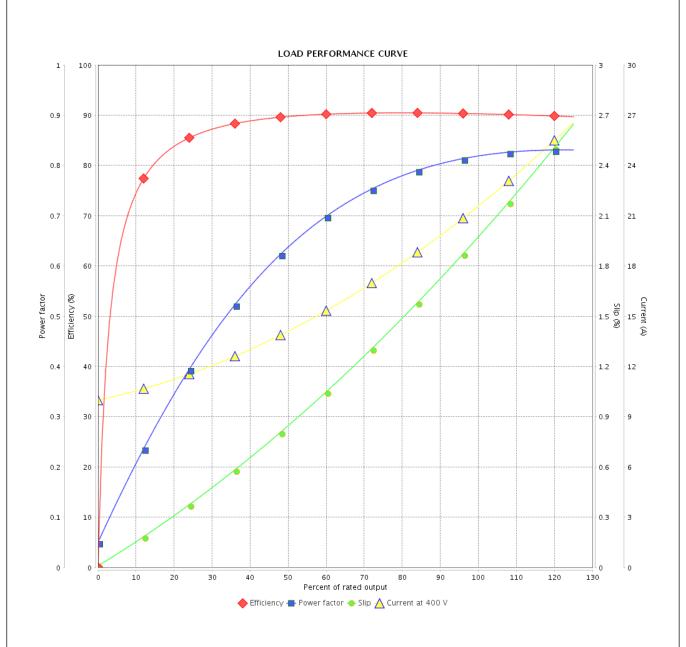
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14501324

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Performance	: 400 V 5	: 400 V 50 Hz 6P IE3			
Rated current	: 21.4 A	Momer	Moment of inertia (J)		
LRC	: 7.5	Duty cy	Duty cycle		
Rated torque	: 80.4 ft.lk	nsulati	Insulation class		
Locked rotor torq	ue : 310 %	Service	Service factor Temperature rise		
Breakdown torqu	e : 320 %	Tempe			
Rated speed	: 980 rpm	Design	l	: B	
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Customer

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Product line : W40 NEMA Premium Efficiency Product code : 14501324

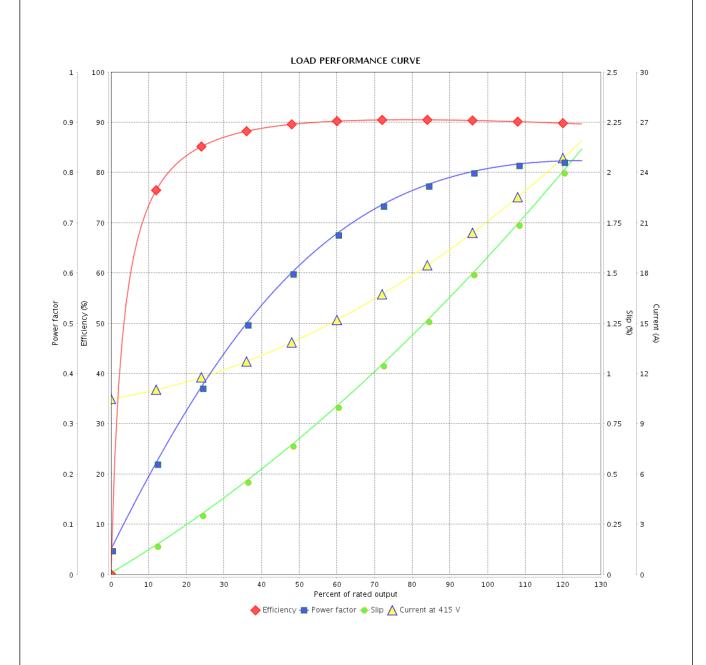
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Performance	: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 20.9 A : 7.5 : 80.0 ft.lb : 340 % : 340 % : 984 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 6.89 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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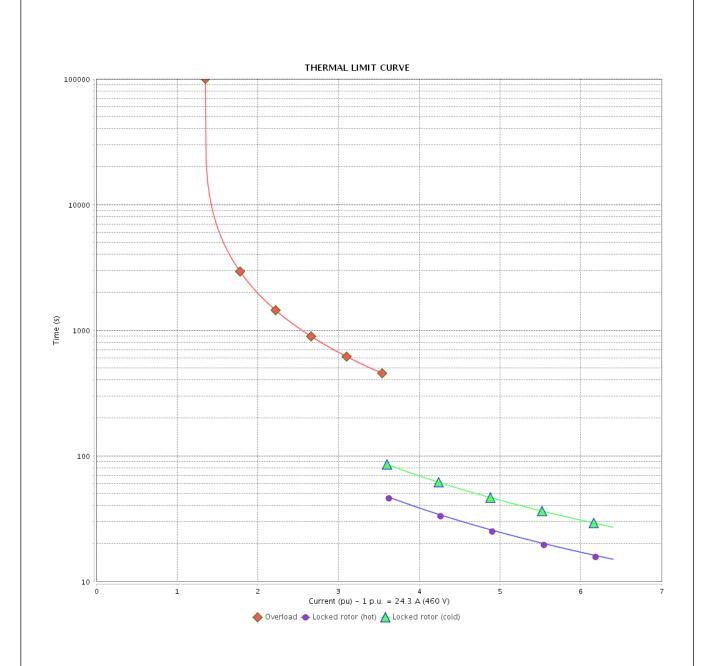


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Product line	: \ Tr	N40 NEMA Premium Efficienree-Phase	ency F	Product code :	14501324	
	"	ilee-Filase	(	Catalog # :	02012OT3E28	36T-W40G
Performance		80/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 6. : 89 jue : 22 ie : 26	3.6/24.3 A 4 9.2 ft.lb 29 % 50 % 77 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class ctor	: 6.89 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant		•				
Cooling constant						
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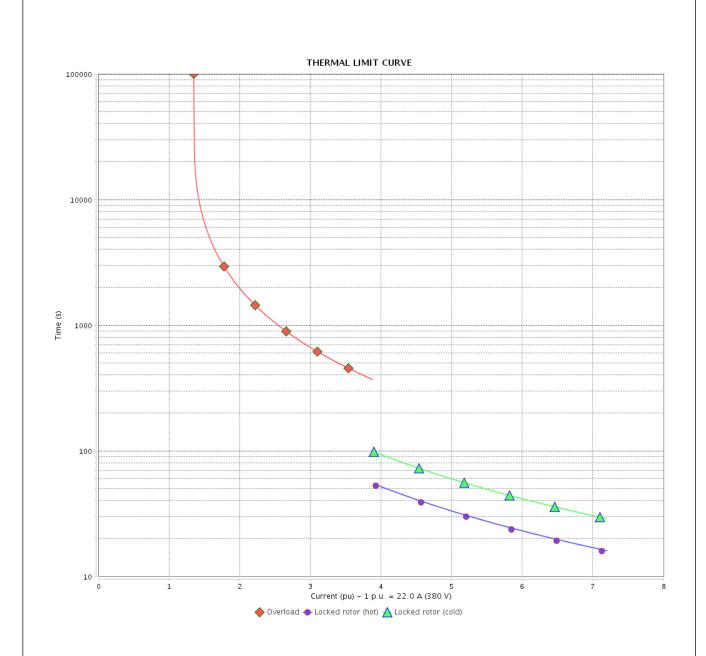


Customer	:			
Product line	: W40 NEMA Premium Efficie Three-Phase		14501324	<b></b>
		Catalog # :	02012OT3E286T-W	/40G
Performance	: 380 V 50 Hz 6P IE3	Manage at the control of the	. 0.00	
Rated current LRC	: 22.0 A : 7.2	Moment of inertia (J) Duty cycle	: 6.89 sq.ft.lb : Cont.(S1)	
Rated torque	: 80.4 ft.lb	Insulation class	: F	
Locked rotor torque	: 270 % : 280 %	Service factor	: 1.00 : 80 K	
Breakdown torque Rated speed	: 980 rpm	Temperature rise Design	: B	
Heating constant		-		
Cooling constant				
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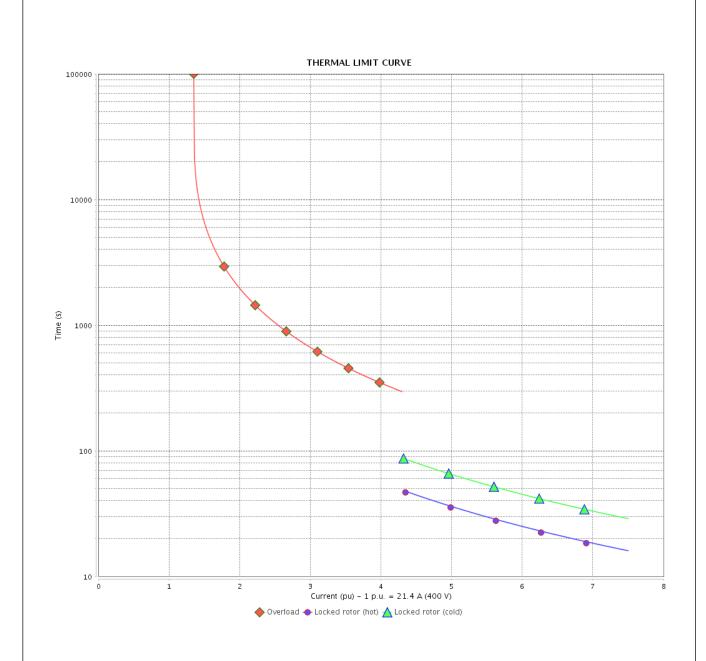


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Product line	: \ TI	W40 NEMA Premium Efficie hree-Phase		Product code :	14501324 02012OT3E2	86T-W40G
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 2' : 7. : 80 que : 3' ue : 32 : 98	00 V 50 Hz 6P IE3  1.4 A 5 0.4 ft.lb 10 % 20 % 80 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 6.89 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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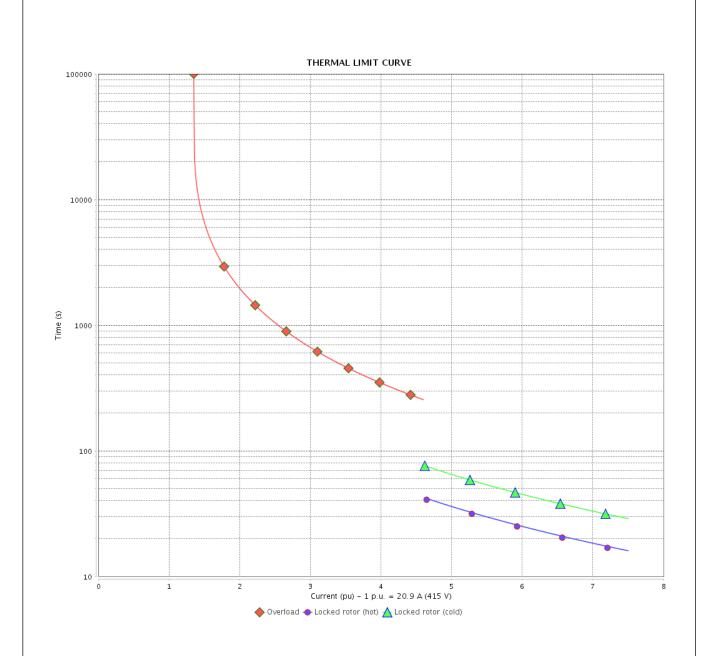


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Product line	: \ TI	W40 NEMA Premium Efficie hree-Phase	ency l	Product code :	14501324	
	11	illee-i ilase	(	Catalog # :	02012OT3E2	86T-W40G
Performance		15 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 7. : 80 ue : 34 e : 34	0.0 ft.lb 40 % 40 %	Duty cycle Insulation Service fac Temperatu	class ctor	: 6.89 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Rated speed	: 98	84 rpm	Design		: B	
Heating constant						
Cooling constant						
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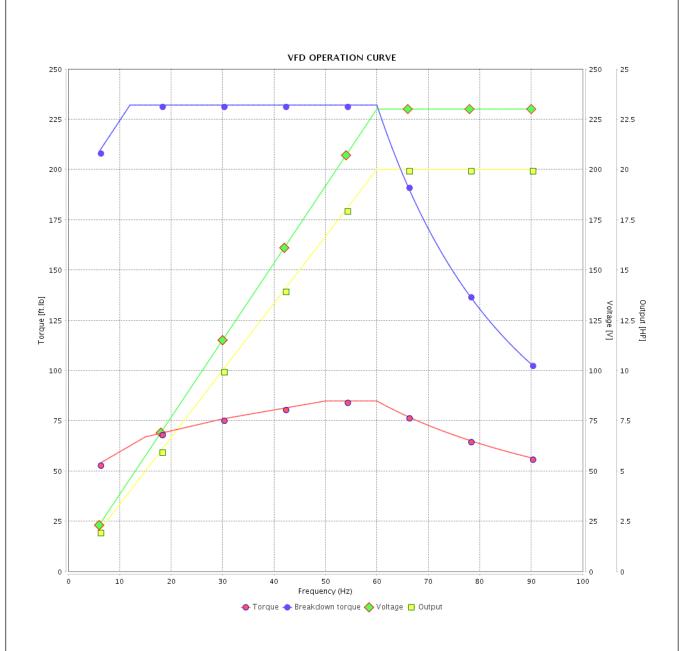
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Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14501324

Catalog #: 02012OT3E286T-W40G



Performance : 230/460 V 60 Hz 6P Rated current : 48.6/24.3 A Moment of inertia (J) : 6.89 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.4 Insulation class Rated torque : 89.2 ft.lb : F Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1177 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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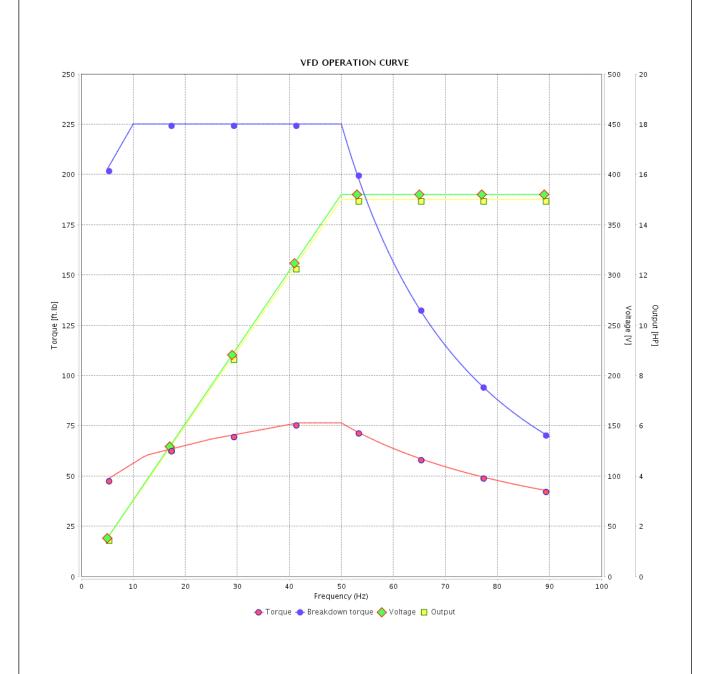
Customer

Product line : W40 NEMA Premium Efficiency Product

Three-Phase

Product code: 14501324

Catalog #: 02012OT3E286T-W40G



Performance : 380 V 50 Hz 6P IE3  Rated current : 22.0 A	
LRC : 7.2 Duty cycle : Cont.(S1) Rated torque : 80.4 ft.lb Insulation class : F Locked rotor torque : 270 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K	
Rated torque : 80.4 ft.lb Insulation class : F Locked rotor torque : 270 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K	
Locked rotor torque : 270 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K	
Breakdown torque : 280 % Temperature rise : 80 K	
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Rated speed 980 rpm Design B	
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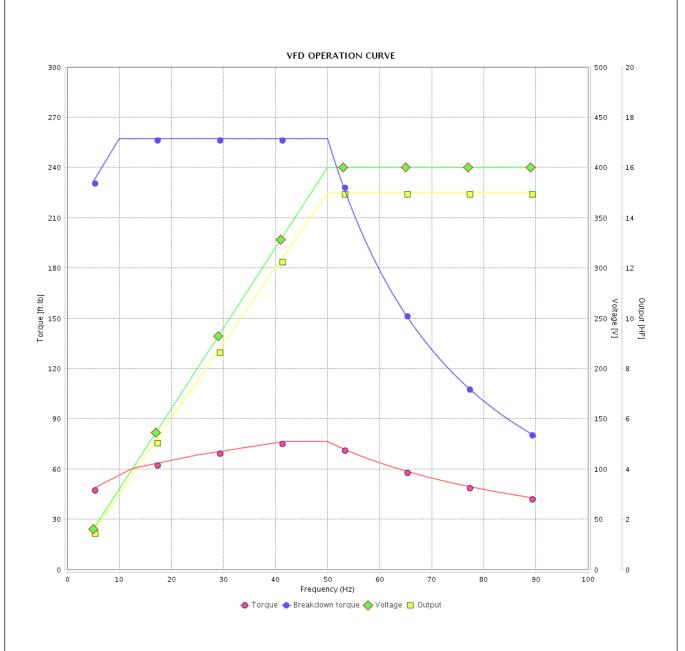
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14501324

Catalog #: 02012OT3E286T-W40G

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Performance	: 40	00 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	CC : 7.5 Duty cycle Insulation cla cked rotor torque : 310 % Service facto eakdown torque : 320 % Temperature		class ctor	: 6.89 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B		
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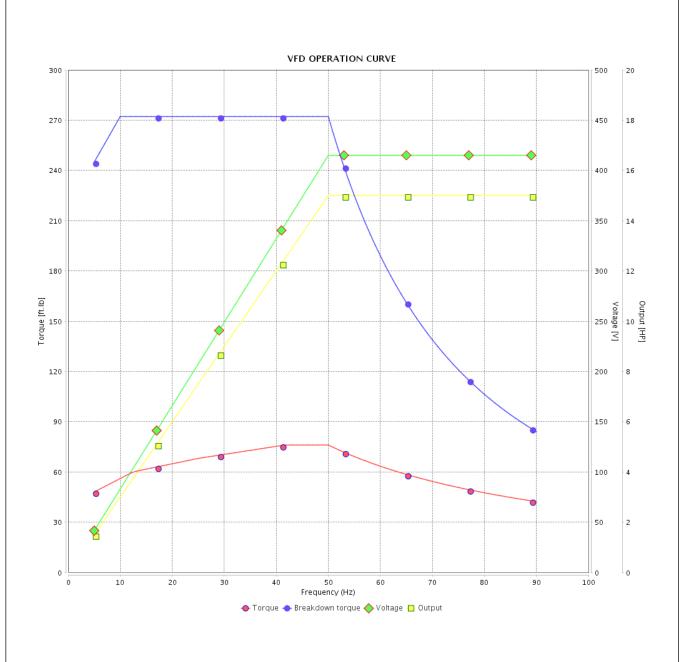


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14501324

Three-Phase

Catalog #: 02012OT3E286T-W40G



Performance	: 4	: 415 V 50 Hz 6P IE3					
Rated current	: 2	: 20.9 A		Moment of inertia (J)		: 6.89 sq.ft.lb	
LRC	: 7	7.5 Duty o		)	: Cont.(S1)		
Rated torque	: 8	0.0 ft.lb Insulation class		: F			
Locked rotor torqu	e ::	340 %	Service factor		: 1.00		
Breakdown torque	: : : : : : : : : : : : : : : : : : : :	: 340 % : 984 rpm		Temperature rise Design			
Rated speed	: 9					: B	
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