DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14045966

Three-Phase

Catalog #: 05012OT3E365T-W40

Frame : 364/5T 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

Ambient temperature : -20°C to +40°C Starting method : Direct On Line
Altitude : 1000 m.a.s.l. Approx. weight³ : 776 lb

Altitude : 1000 m.a.s.l. Approx. weight : 776 lb

Protection degree : IP23 Moment of inertia (J) : 23.9 sq.ft.lb

Design : B Output [HP] 50 40 40 40 Poles 6 6 6 6 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 116/58.1 57.1 54.8 53.5 L. R. Amperes [A] 779/389 400 395 412 7.0x(Code H) 7.7x(Code J) LRC [A] 6.7x(Code G) 7.2x(Code H) No load current [A] 40.8/20.4 20.2 21.7 23.0 Rated speed [RPM] 1185 985 985 985 Slip [%] 1.25 1.50 1.50 1.50 Rated torque [ft.lb] 222 213 213 213 Locked rotor torque [%] 220 200 229 250 Breakdown torque [%] 240 240 270 290 Service factor 1.25 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K Locked rotor time 27s (cold) 15s (hot) 25s (cold) 14s (hot) 25s (cold) 14s (hot) 25s (cold) 14s (hot) Noise level² 68.0 dB(A) 25% 93.5 92.4 92.4 92.4 50% 93.6 92.5 92.5 92.5 Efficiency (%) 75% 92.9 92.9 92.9 94.1 94.1 92.9 92.9 92.9 100% 0.44 0.48 0.42 25% 0.48 50% 0.74 0.74 0.70 0.68 Power Factor 75% 0.79 0.82 0.83 0.80

<u>Drive end</u> <u>Non drive end</u> Foundation loads

0.86

Bearing type : 6314 C3 6212 Z C3 Max. traction : 1731 lb Sealing : Without Without Max. compression : 2507 lb

0.85

Bearing Seal Bearing Seal Lubrication interval : 20000 h 20000 h

Lubricant amount : 27 g 13 g
Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 128A SF 1.15 SFA 148A

100%

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.

0.85

0.84

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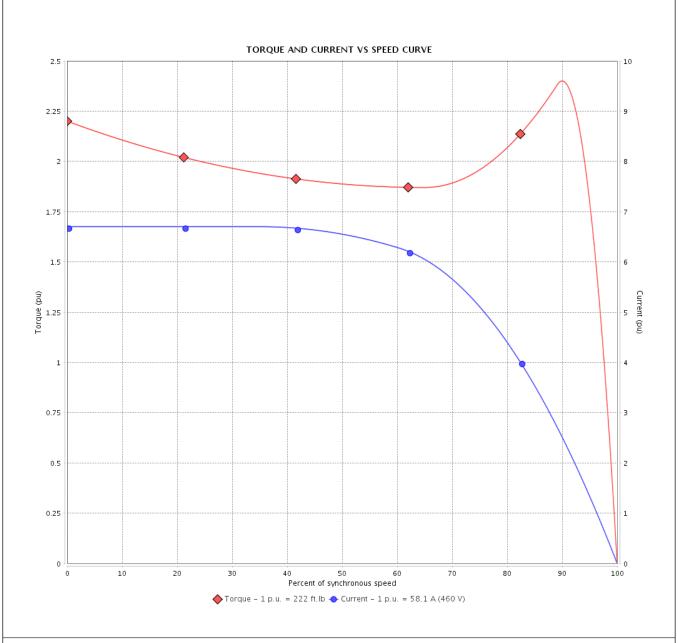
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14045966

Catalog #: 05012OT3E365T-W40



Performance : 230/460 V 60 Hz 6P Rated current : 116/58.1 A Moment of inertia (J) : 23.9 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 222 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 220 % : 1.25

Breakdown torque : 240 % Temperature rise : 80 K
Rated speed : 1185 rpm Design : B

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

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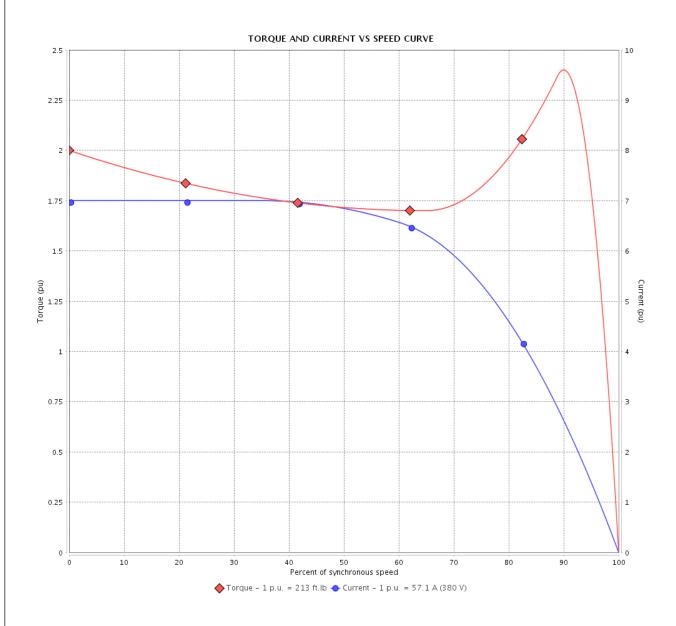
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14045966

Catalog #: 05012OT3E365T-W40



Performance	: 380 V 50 Hz 6P IE3			
Rated current	: 57.1 A	Moment of inertia (J)	: 23.9 sq.ft.lb	
LRC	: 7.0	Duty cycle	: Cont.(S1)	
Rated torque	: 213 ft.lb	Insulation class	:F	
Locked rotor torque	: 200 %	Service factor	: 1.00	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 985 rpm	Design	: B	
Locked rotor time	: 25e (cold) 14e (hot)			

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

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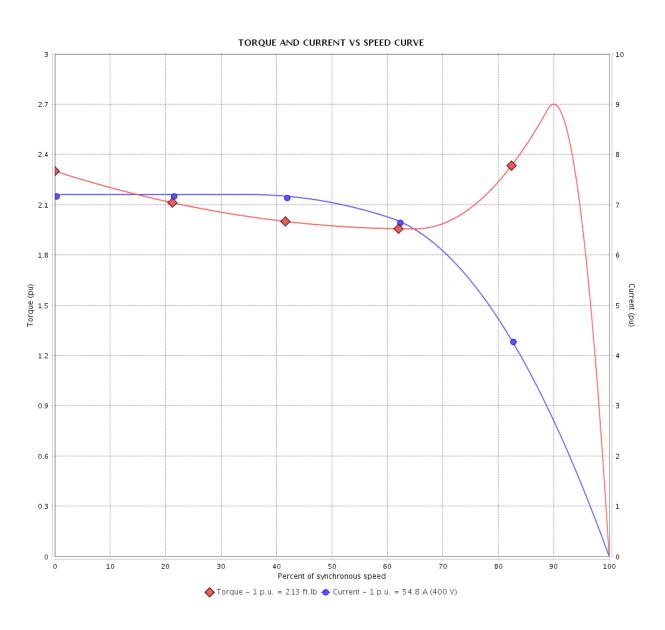
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14045966

Catalog #: 05012OT3E365T-W40



Performance : 400 V 50 Hz 6P IE3 Rated current : 54.8 A Moment of inertia (J) : 23.9 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 213 ft.lb : F Service factor Locked rotor torque : 229 % : 1.00 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 985 rpm Design : B

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

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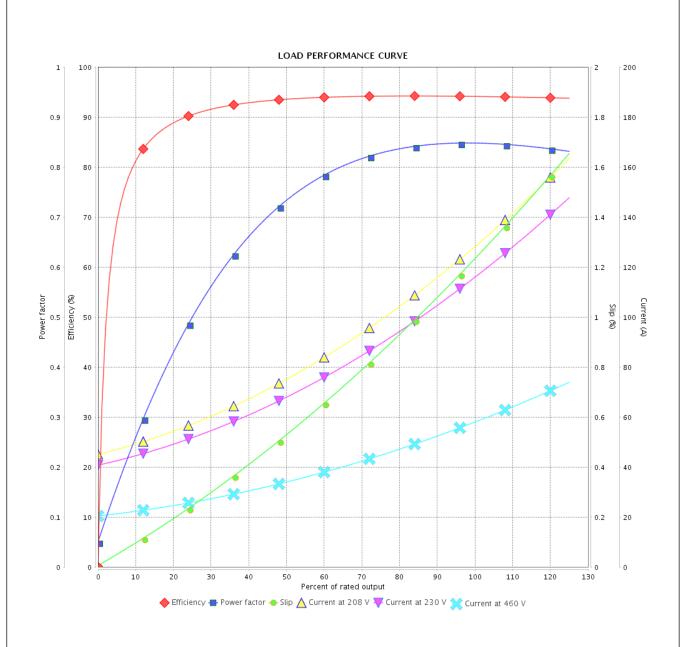
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Product line : W40 NEMA Premium Efficiency F

Three-Phase

Product code: 14045966

Catalog #: 05012OT3E365T-W40



Performance : 230/460 V 60 Hz 6P : 116/58.1 A Rated current Moment of inertia (J) : 23.9 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 222 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1185 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



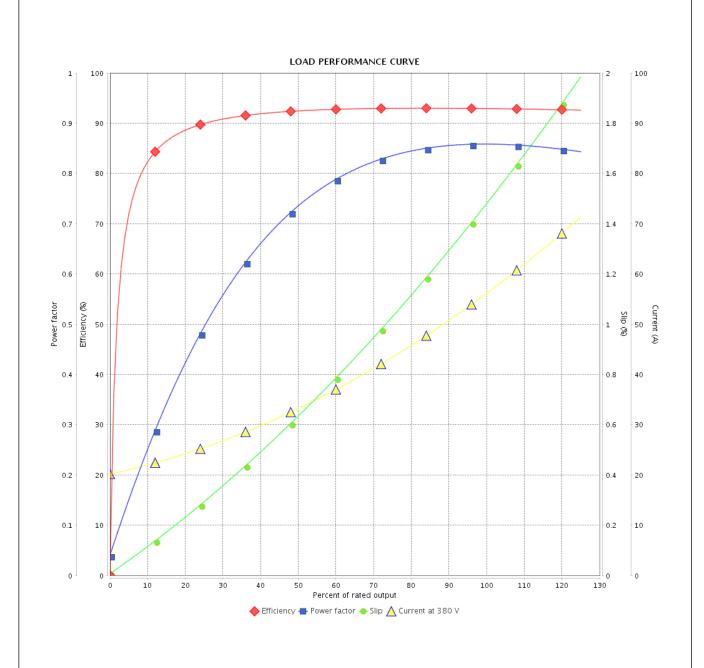
Customer

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Catalog #: 05012OT3E365T-W40

14045966



Performance	: 3	380 V 50 Hz 6P IE3				
Rated current	: 5	57.1 A	Moment o	f inertia (J)	: 23.9 sq.ft.lb	
LRC	: 7	7 .0	Duty cycle	;	: Cont.(S1)	
Rated torque	: 2	213 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	200 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	240 % Temperature rise		ıre rise	: 80 K	
Rated speed	: 9	985 rpm	Design		: B	
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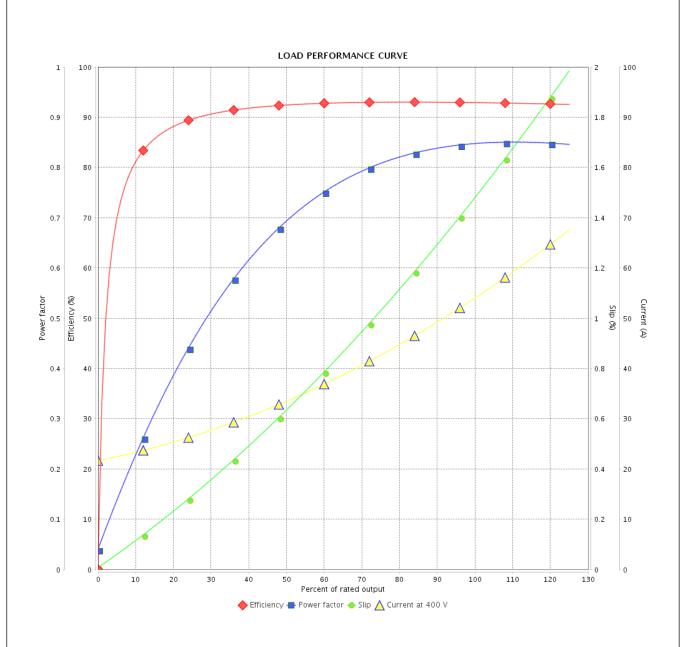
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Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14045966

Catalog #: 05012OT3E365T-W40



Performance	: 400 V 50 Hz 6P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 54.8 A : 7.2 : 213 ft.lb : 229 % : 270 % : 985 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 23.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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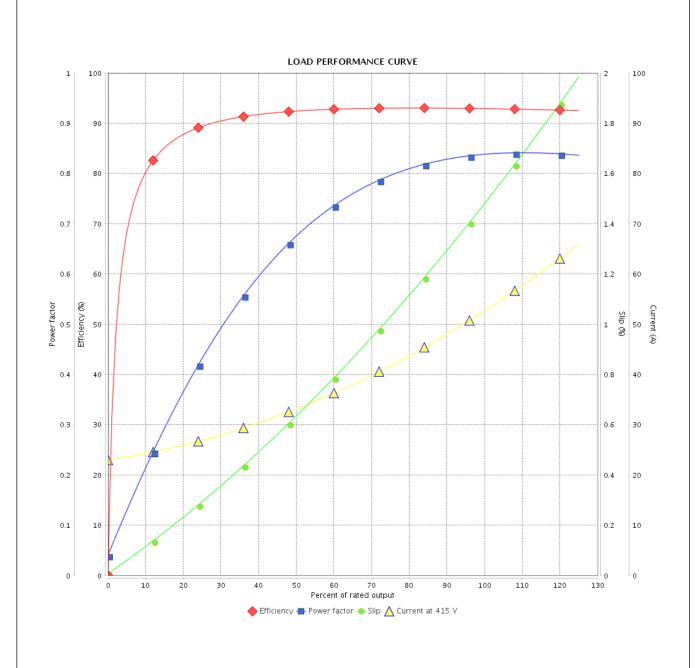
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Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Catalog #: 05012OT3E365T-W40

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Performance		: 415 V 50 Hz 6P IE3						
Rated current	: 5	3.5 A	Moment o	f inertia (J)	: 23.9 sq.ft.lb			
LRC	: 7	7.7	Duty cycle		: Cont.(S1)			
Rated torque	: 2	13 ft.lb	Insulation	class	: F			
Locked rotor torqu	e : 2	250 %	Service fa	ctor	: 1.00			
Breakdown torque	: 2	290 % Temperature r		ture rise : 80 K				
Rated speed	: 9	185 rpm	Design		: B			
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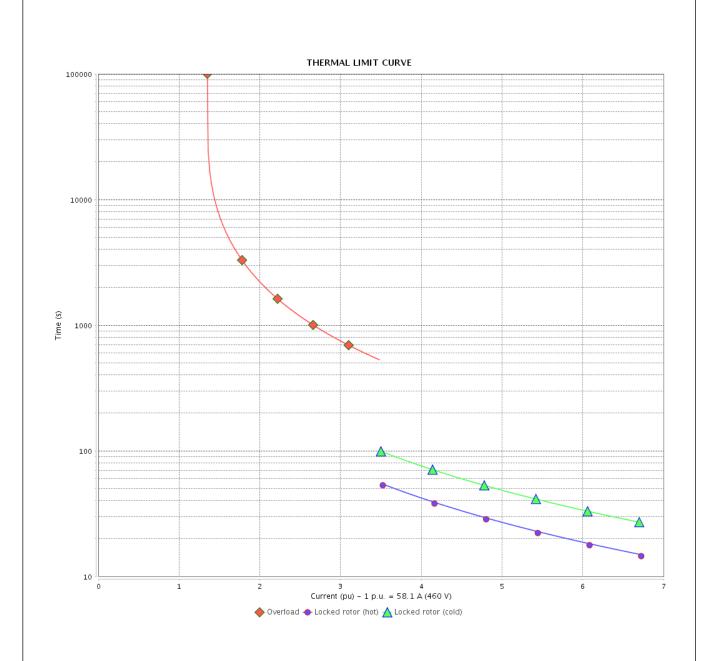


Customer	:			
Product line	: W40 NEMA Premium Efficie Three-Phase	ency Product code :	14045966	
		Catalog #:	05012OT3E36	5T-W40
Performance Rated current	: 230/460 V 60 Hz 6P : 116/58.1 A	Moment of inertia (1)	· 23 0 ca ff lh	
LRC	: 6.7	Moment of inertia (J) Duty cycle	: 23.9 sq.ft.lb : Cont.(S1)	
Rated torque	: 222 ft.lb	Insulation class	: F	
Locked rotor torque	: 220 %	Service factor	: 1.25 : 80 K	
Breakdown torque Rated speed	: 240 % : 1185 rpm	Temperature rise Design	: 80 K : B	
Heating constant				
Cooling constant		T		
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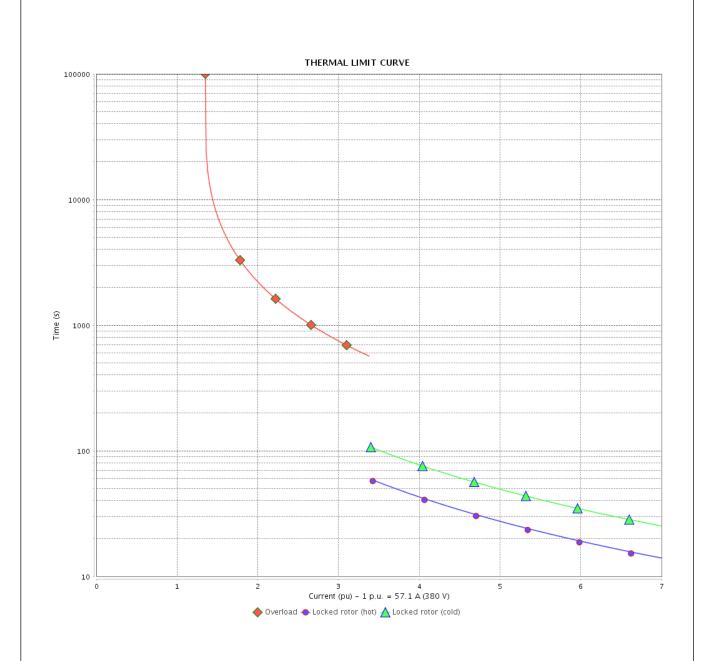


Customer		:				
Product line		: W40 NEMA Premium Efficient		Product code : Catalog # :	14045966 05012OT3E36	65T-W40
Performance	<u> </u>	: 380 V 50 Hz 6P IE3				
Rated current		: 57.1 A	Moment o	f inertia (J)	: 23.9 sq.ft.lb	
LRC Rated torque		: 7.0 : 213 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor tord		: 200 % : 240 %	Service fa		: 1.00 : 80 K	
Breakdown torqu Rated speed		: 240 % : 985 rpm	Temperati Design	JI C 115C	: 80 K : B	
Heating constan						
Cooling constan	t					
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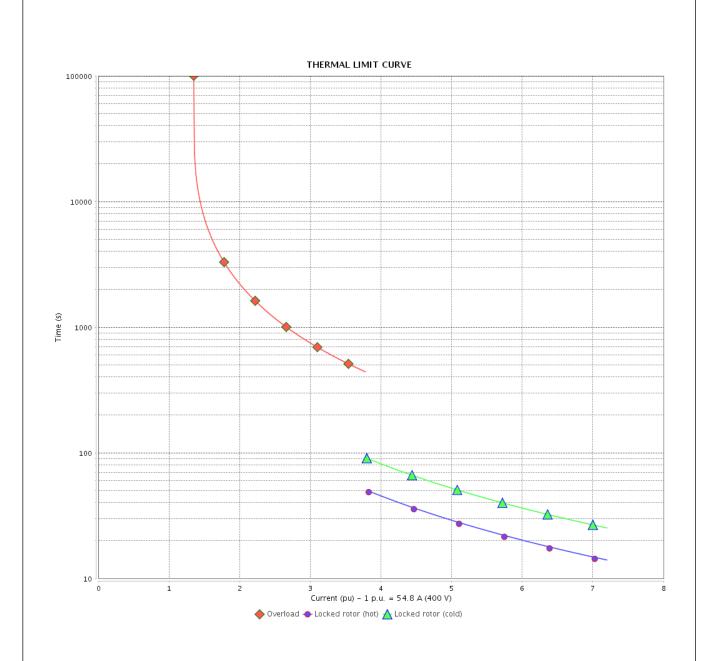


Customer		:				
Product line		: W40 NEMA Premium Efficie Three-Phase		Product code : Catalog # :	14045966 05012OT3E36	65T-W40
Performance		: 400 V 50 Hz 6P IE3				
Rated current LRC		: 54.8 A : 7.2	Moment of Duty cycle	f inertia (J)	: 23.9 sq.ft.lb : Cont.(S1)	
Rated torque		: 213 ft.lb : 229 %	Insulation Service fa	class	: F : 1.00	
Locked rotor tord Breakdown torqu		: 229 % : 270 %	Temperati		: 1.00 : 80 K	
Rated speed		: 985 rpm	Design		: B	
Heating constan						
Cooling constant	τ	Changes Summers		Performed	Checked	Date
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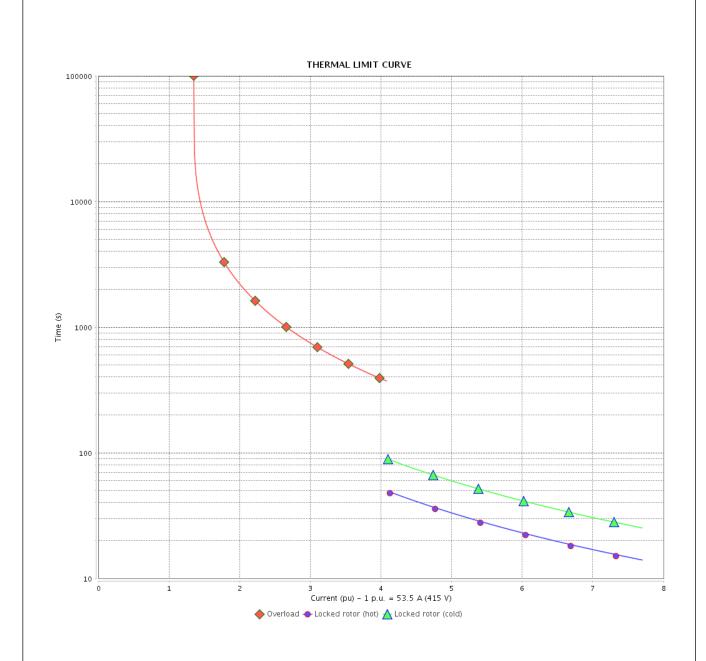


Customer		:				
Product line		: W40 NEMA Premium Efficion		Product code : Catalog # :	14045966 05012OT3E3	65T-W40
Performance	,	: 415 V 50 Hz 6P IE3				
Rated current		: 53.5 A	Moment o	of inertia (J)	: 23.9 sq.ft.lb	
LRC Rated torque		: 7.7 : 213 ft.lb	Duty cycle Insulation	9	: Cont.(S1) : F	
Locked rotor tord	que :	: 250 %	Service fa	ictor	: 1.00	
Breakdown torqu Rated speed	ue :	: 290 % : 985 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constan		r				
Cooling constant						
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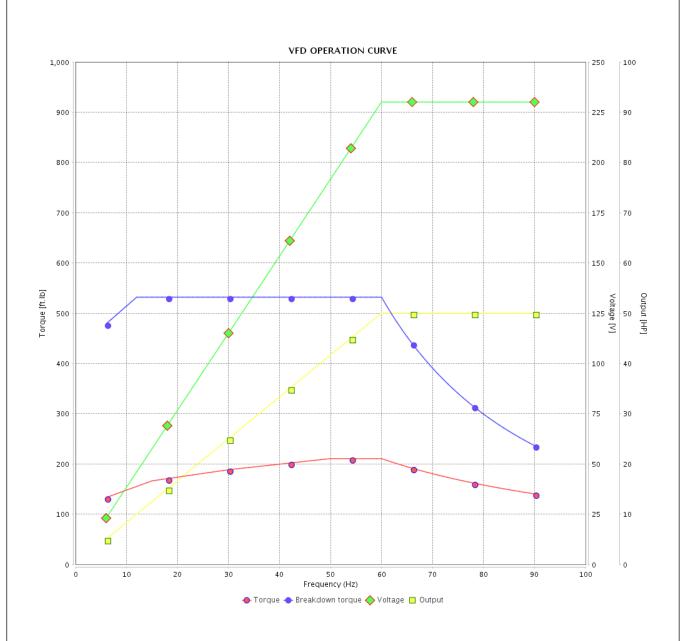
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Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14045966

Catalog #: 05012OT3E365T-W40



Performance : 230/460 V 60 Hz 6P : 116/58.1 A Rated current Moment of inertia (J) : 23.9 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 222 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1185 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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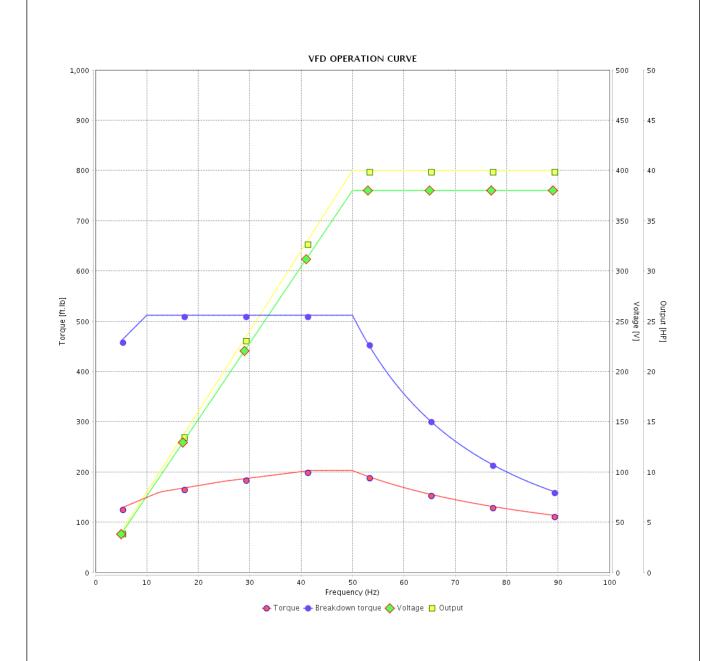
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14045966

Catalog #: 05012OT3E365T-W40



Performance : 38		30 V 50 Hz 6P IE3					
Rated current : 57		7.1 A	Moment o	Moment of inertia (J)			
LRC : 7.0		0	Duty cycle)	: Cont.(S1)		
Rated torque : 21		13 ft.lb	Insulation class		:F		
•		00 %	Service fa	ctor	: 1.00		
		40 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 98	35 rpm	Design		: B		
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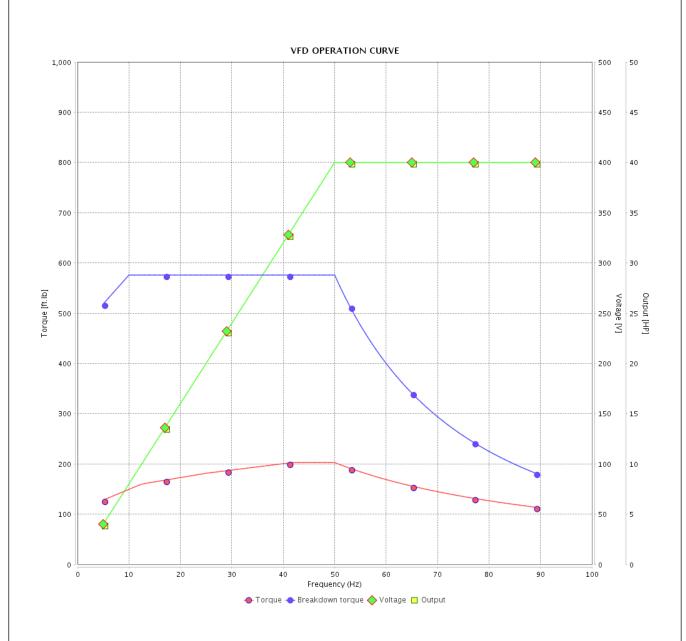
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14045966

Catalog #: 05012OT3E365T-W40



Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 54.8 A : 7.2 : 213 ft.lb : 229 % : 270 % : 985 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 23.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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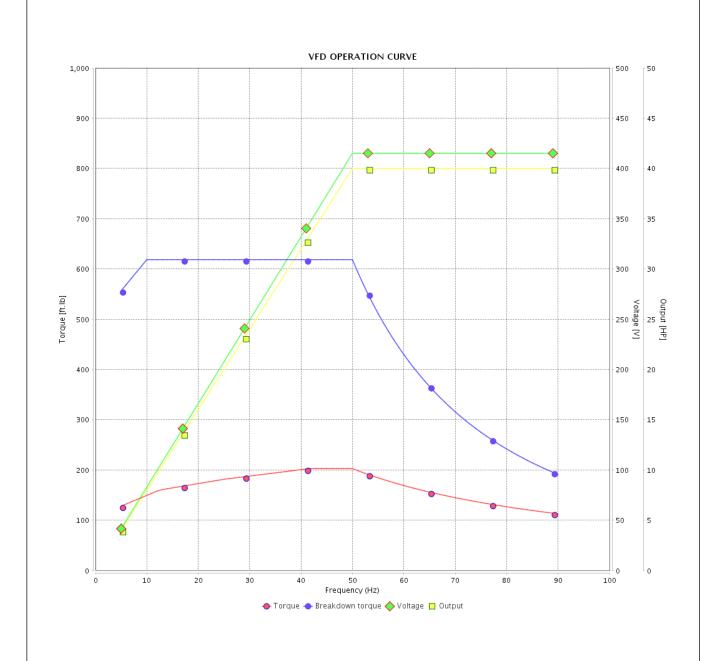
Customer

Product line : W40 NEMA Premium Efficiency Prod

Three-Phase

Product code: 14045966

Catalog #: 05012OT3E365T-W40



Performance : 4		15 V 50 Hz 6P IE3				
Rated current : 53		3.5 A	Moment of	Moment of inertia (J)		
LRC : 7.7		.7	Duty cycle)	: Cont.(S1)	
Rated torque : 21		13 ft.lb	Insulation class		:F	
Locked rotor torque : 25		50 %	Service fa	ctor	: 1.00	
Breakdown torque		90 %	Temperature rise		: 80 K	
Rated speed	: 9	85 rpm	Design		: B	
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