DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency

Product code:

Cooling method

14272905

Three-Phase

07512OT3E405T-W40G Catalog #:

Frame : 404/5T

Insulation class

: Cont.(S1)

Mounting : F-1 Rotation¹ : Both (CW and CCW)

Duty cycle : -20°C to +40°C Ambient temperature

Starting method : Direct On Line

: 1000 m.a.s.l. Altitude : IP23 Protection degree

Approx. weight³ Moment of inertia (J) : 966 lb : 31.6 sq.ft.lb

: IC01 - ODP

Design		: B			•
Output [HP]		75	60	60	60
Poles		6	6	6	6
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		172/85.9	84.8	81.6	79.5
L. R. Amperes [A]		1151/576	585	571	596
LRC [A]		6.7x(Code G)	6.9x(Code H)	7.0x(Code H)	7.5x(Code J)
No load current [A		60.0/30.0	29.6	32.1	34.2
Rated speed [RPN	1]	1185	985	985	985
Slip [%]		1.25	1.50	1.50	1.50
Rated torque [ft.lb]		332	320	320	320
Locked rotor torqu	e [%]	240	220	250	270
Breakdown torque	[%]	270	250	280	300
Service factor		1.25	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	
Locked rotor time		19s (cold) 11s (hot)	18s (cold) 10s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)
Noise level ²		68.0 dB(A)			
	25%	94.0	93.2	93.2	93.2
Efficiency (0/)	50%	94.1	93.3	93.3	93.3
Efficiency (%)	75%	94.5	93.7	93.7	93.7
	100%	94.5	93.7	93.7	93.7
	25%	0.47	0.49	0.45	0.42
Power Factor	50%	0.72	0.75	0.71	0.68
rowei Factoi	75%	0.81	0.83	0.81	0.79
	100%	0.85	0.86	0.85	0.84

Drive end

Non drive end

Foundation loads

Bearing type

6316 C3 6212 Z C3 Without

Max. traction Without Max. compression

Sealing Bearing Seal Bearing Seal

20000 h Lubrication interval 20000 h Lubricant amount 13 g 34 g

Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 190A SF 1.15 SFA 218A

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.

: 2395 lb

: 3361 lb

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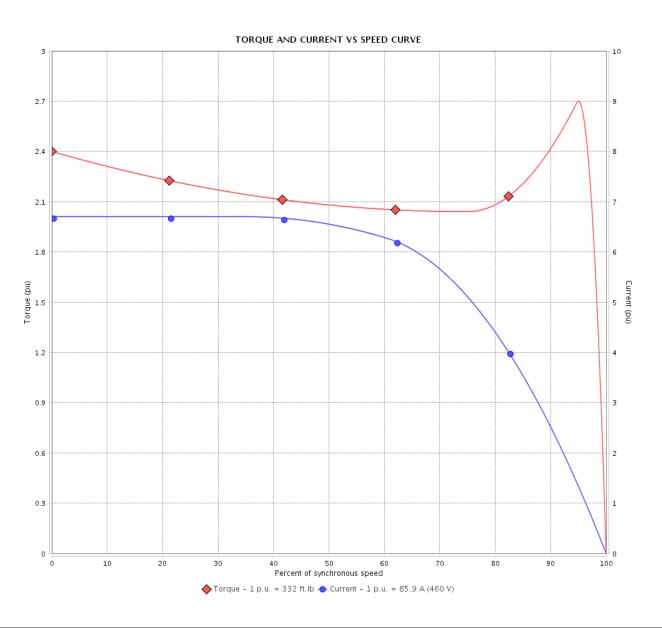
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272905

Catalog #: 07512OT3E405T-W40G



Performance : 230/460 V 60 Hz 6P Rated current : 172/85.9 A Moment of inertia (J) : 31.6 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 332 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 240 % : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1185 rpm Design : B

Locked rotor time : 19s (cold) 11s (hot)

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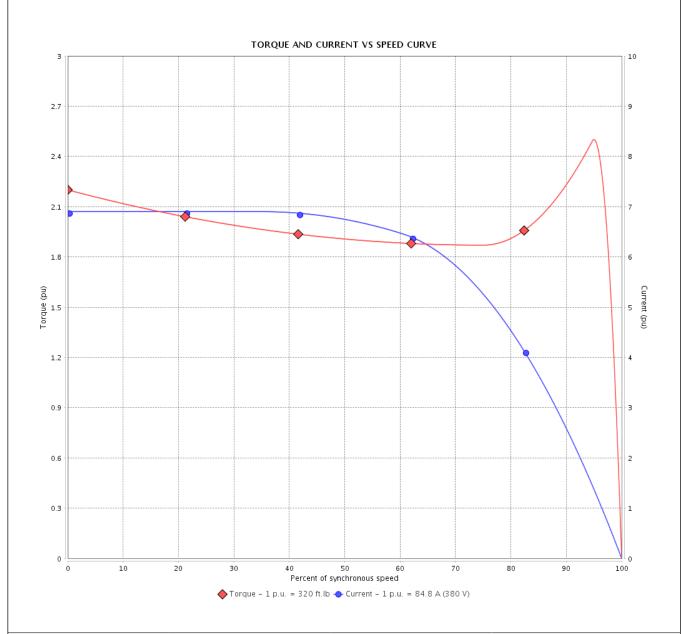
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Product code: 14272905

07512OT3E405T-W40G Catalog #:



Performance	: 380 V 50 Hz 6P IE3			
Rated current	: 84.8 A	Moment of inertia (J)	: 31.6 sq.ft.lb	
LRC	: 6.9	Duty cycle	: Cont.(S1)	
Rated torque	: 320 ft.lb	Insulation class	:F	
Locked rotor torque	: 220 %	Service factor	: 1.00	
Breakdown torque	: 250 %	Temperature rise	: 80 K	
Rated speed	: 985 rpm	Design	: B	
Looked reter time	: 190 (cold) 100 (bot)			

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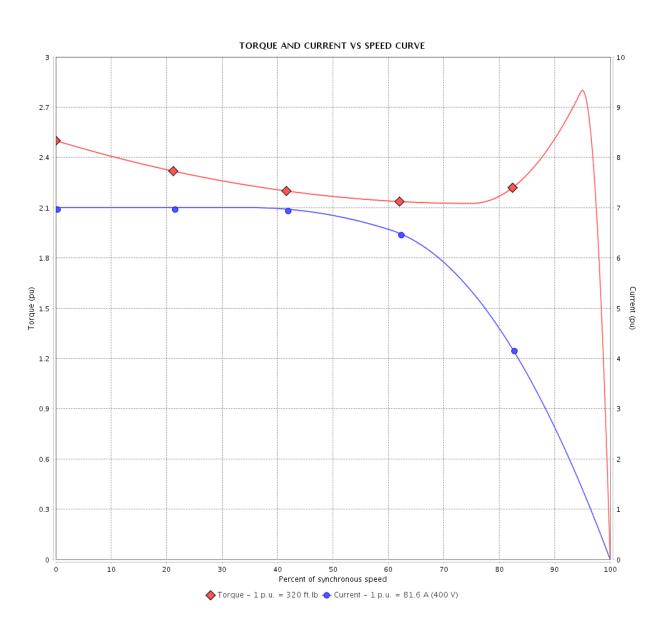
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272905

Catalog #: 07512OT3E405T-W40G



Performance : 400 V 50 Hz 6P IE3 Rated current : 81.6 A Moment of inertia (J) : 31.6 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) : 320 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 250 % : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 985 rpm Design : B

Locked rotor time : 19s (cold) 11s (hot)

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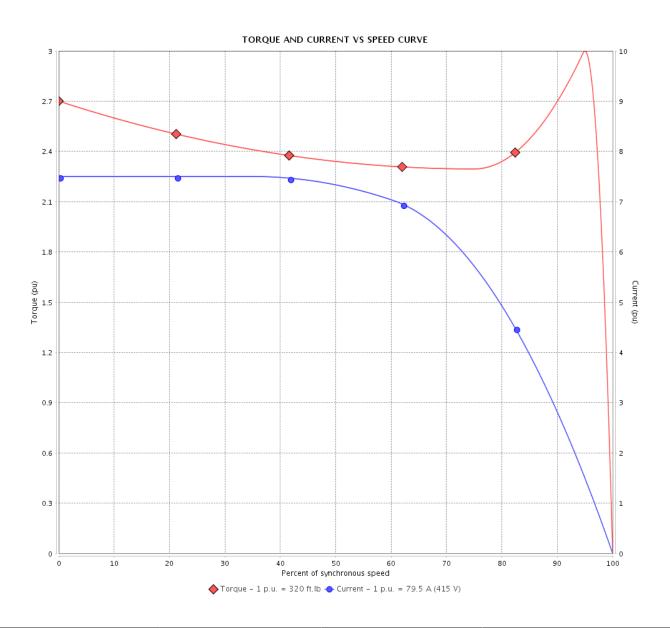


Customer

Product line : W40 NEMA Premium Efficiency

Product code: 14272905

07512OT3E405T-W40G Catalog #:



Performance	: 415 V 50 Hz 6P IE3			
Rated current	: 79.5 A	Moment of inertia (J)	: 31.6 sq.ft.lb	
LRC	: 7.5	Duty cycle	: Cont.(S1)	
Rated torque	: 320 ft.lb	Insulation class	: F	
Locked rotor torque	: 270 %	Service factor	: 1.00	
Breakdown torque	: 300 %	Temperature rise	: 80 K	
Rated speed	: 985 rpm	Design	: B	

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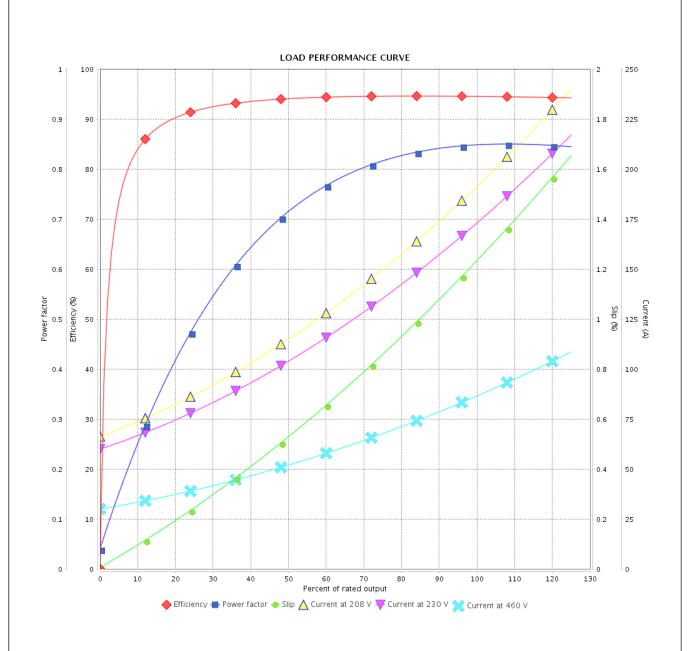
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272905

Catalog #: 07512OT3E405T-W40G

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Performance	: 230/460 V 60 Hz 6P				
Rated current	: 172/85.9 A	Moment of inertia (J)		: 31.6 sq.ft.lb	
LRC	: 6.7	Duty cycle		: Cont.(S1)	
Rated torque	: 332 ft.lb	Insulation of	class	: F	
Locked rotor torque	: 240 %	Service fac	ctor	: 1.25	
Breakdown torque	: 270 %	Temperature rise		: 80 K	
Rated speed	: 1185 rpm	Design		: B	
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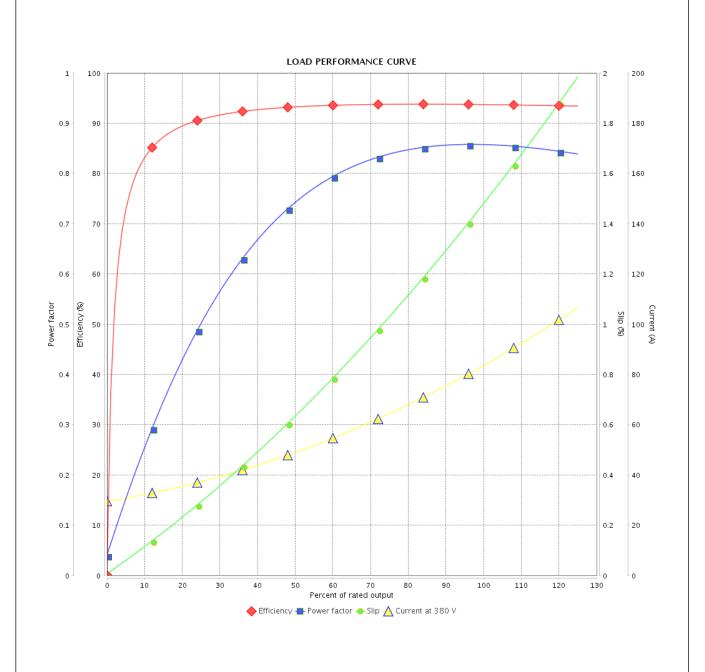
Customer

Product line : W40 NEMA Premium Efficiency Product code : 14272905

Three-Phase

Catalog #: 07512OT3E405T-W40G

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Performance	erformance : 380 V 50 Hz 6P IE3						
Rated current	: 84.8 A	Moment o	f inertia (J)	: 31.6 sq.ft.lb			
LRC	: 6.9	Duty cycle	:	: Cont.(S1)			
Rated torque	: 320 ft.lb	Insulation class Service factor Temperature rise				: F ` ´	
Locked rotor torque	: 220 %			: 1.00			
Breakdown torque	: 250 %			: 80 K			
Rated speed	: 985 rpm	Design		: B			
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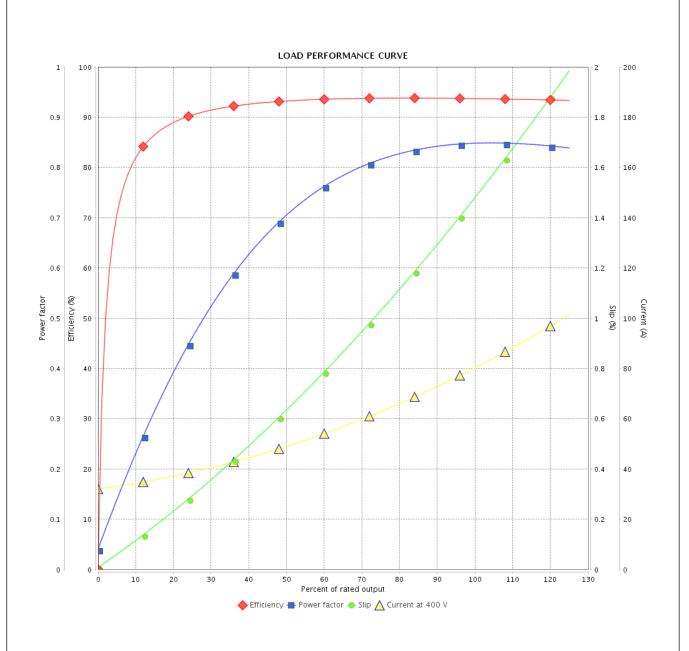
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Three-Phase

Product code: 14272905

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Performance	: 400 V 50 Hz 6P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 81.6 A : 7.0 : 320 ft.lb : 250 % : 280 % : 985 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 31.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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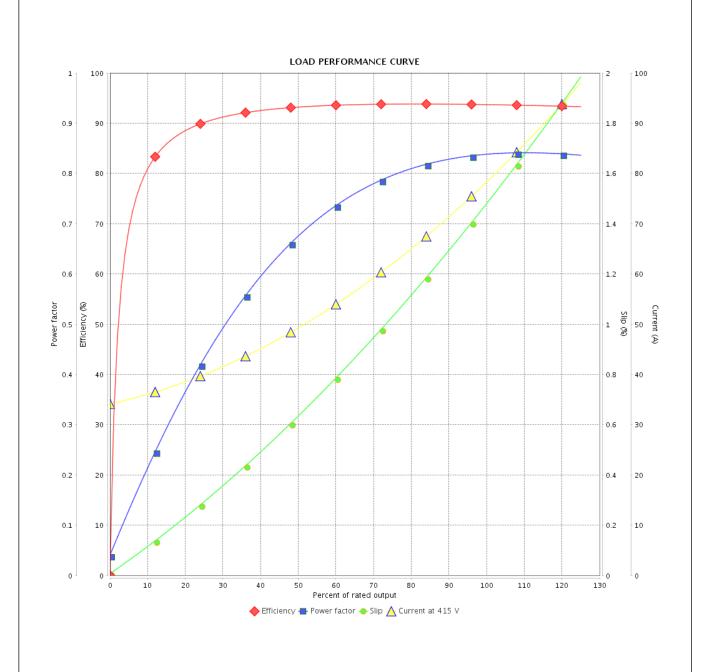


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14272905

Three-Phase

Catalog #: 07512OT3E405T-W40G



Performance	: 41	5 V 50 Hz 6P IE3				
Rated current	: 79	9.5 A	Moment o	Moment of inertia (J)		
LRC	: 7.	5	Duty cycle)	: Cont.(S1)	
Rated torque	: 32	20 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 27	' 0 %	Service fa	ctor	: 1.00	
Breakdown torque		00 %	Temperati	ıre rise	: 80 K	
Rated speed	: 98	35 rpm	Design		: B	
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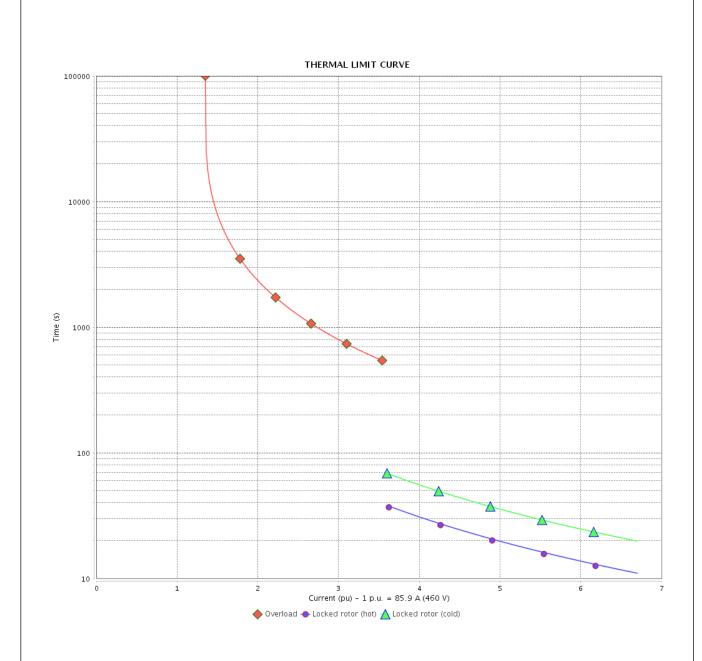


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Product line		: W40 NEMA Premium Efficie Three-Phase		Product code : Catalog # :	14272905 07512OT3E40	05T-W40G
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Performance	:	230/460 V 60 Hz 6P				
Rated current LRC	:	172/85.9 A 6.7	Duty cycle		: 31.6 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		332 ft.lb 240 %	Insulation Service fa		: F : 1.25	
Breakdown torqu	ue :	270 %	Temperati		: 80 K	
Rated speed	:	1185 rpm	Design		: B	
Heating constant						
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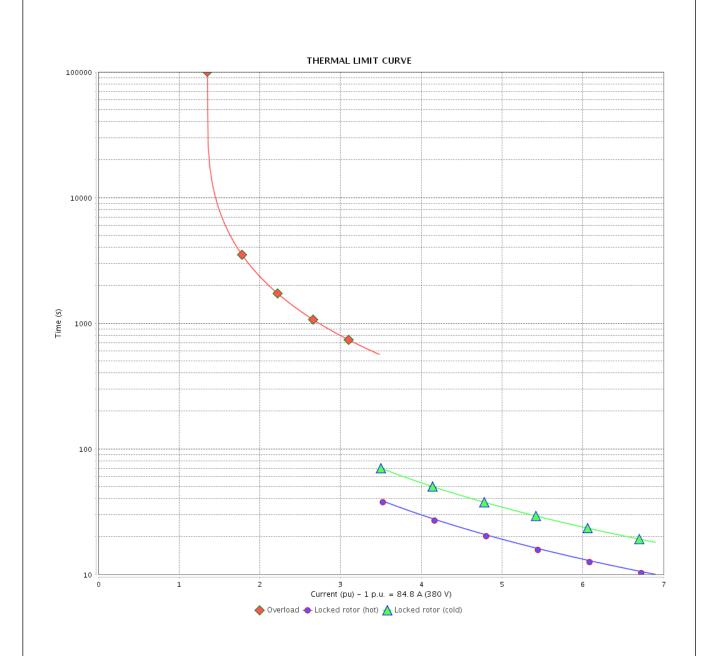


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Customer	•					
Product line	: V Tr	N40 NEMA Premium Efficie nree-Phase	ency F	Product code :	14272905	
	.,	iice-i iiase	(Catalog # :	07512OT3E4	05T-W40G
Performance		80 V 50 Hz 6P IE3				
Rated current LRC	: 84 : 6.	1.8 A	Moment of Duty cycle	f inertia (J)	: 31.6 sq.ft.lb : Cont.(S1)	
Rated torque		9 20 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 22	20 %	Service fac	ctor	: 1.00	
Breakdown torque Rated speed		50 % 85 rpm	Temperatu Design	ıre rise	: 80 K : B	
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Cooling constant					,	
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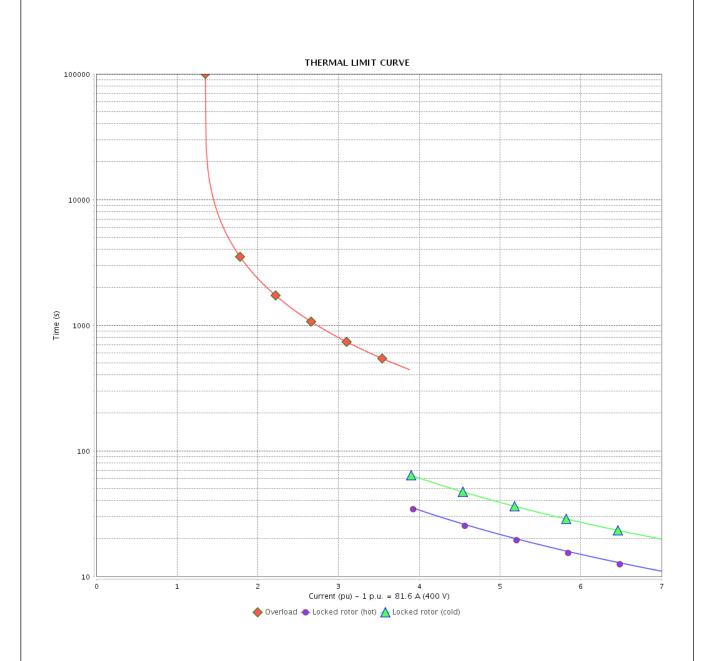


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Product line		: W40 NEMA Premium Efficie Three-Phase		Product code : Catalog # :	14272905 07512OT3E40	05T-W40G
D (400 1/4 50 1/4 50 1/50				
Performance		400 V 50 Hz 6P IE3	Momento	finartia (I)	. 21 6 og ft lb	
Rated current LRC		81.6 A 7.0	Duty cycle	f inertia (J)	: 31.6 sq.ft.lb : Cont.(S1)	
Rated torque	:	320 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		250 % 280 %	Service fa		: 1.00 : 80 K	
Rated speed		985 rpm	Temperatu Design	11 C 115C	: 80 K : B	
Heating constant						
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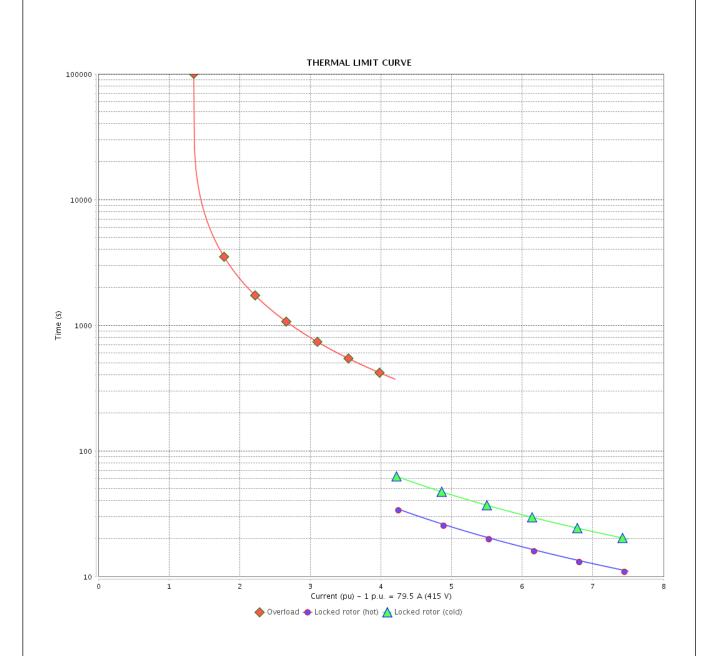


Customer		:				
Product line		: W40 NEMA Premium Efficion Three-Phase		Product code :	14272905 07512OT3E4	05T-W40G
Performance		: 415 V 50 Hz 6P IE3		.		
Rated current LRC		: 79.5 A : 7.5	Duty cycle		: 31.6 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 320 ft.lb : 270 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue :	: 300 %	Temperati		: 80 K	
Rated speed		: 985 rpm	Design		: B	
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Date

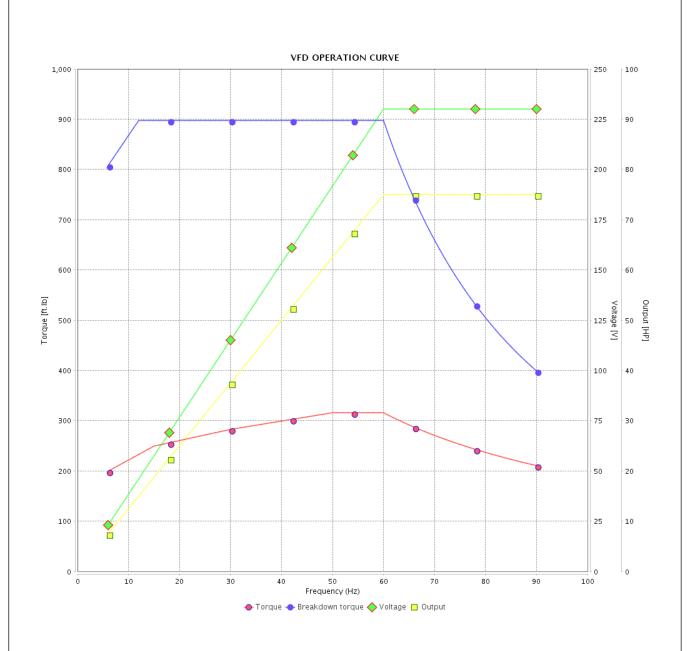
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Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272905

Catalog #: 07512OT3E405T-W40G



Performance : 230/460 V 60 Hz 6P : 172/85.9 A Rated current Moment of inertia (J) : 31.6 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 332 ft.lb Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 270 % 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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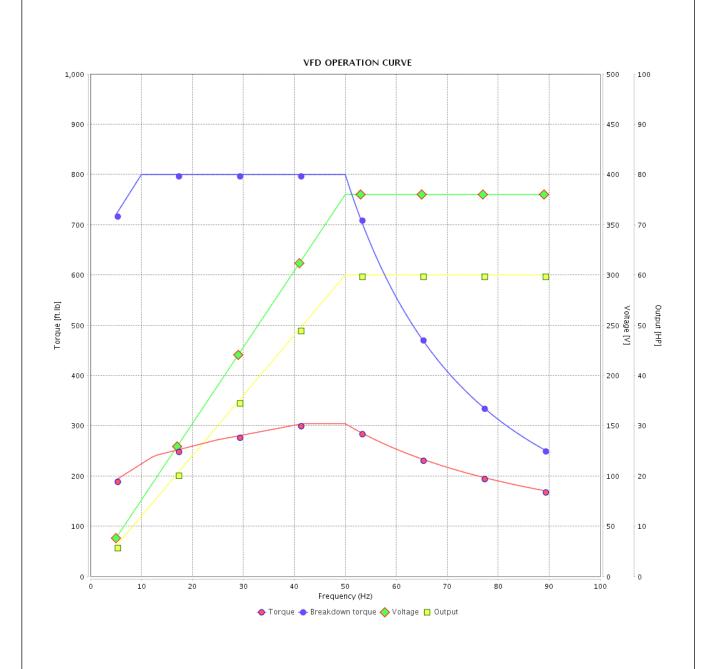
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272905

Catalog #: 07512OT3E405T-W40G



Performance	: 3	380 V 50 Hz 6P IE3	3			
Rated current	: 8	34.8 A	Moment o	f inertia (J)	: 31.6 sq.ft.lb	
LRC	: 6	5.9	Duty cycle	` '	: Cont.(S1)	
Rated torque	: 3	320 ft.lb	Insulation		: F ` ´	
Locked rotor torqu	e : 2	220 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	250 %	Temperature rise		: 80 K	
Rated speed	: 9	985 rpm	Design	Design		
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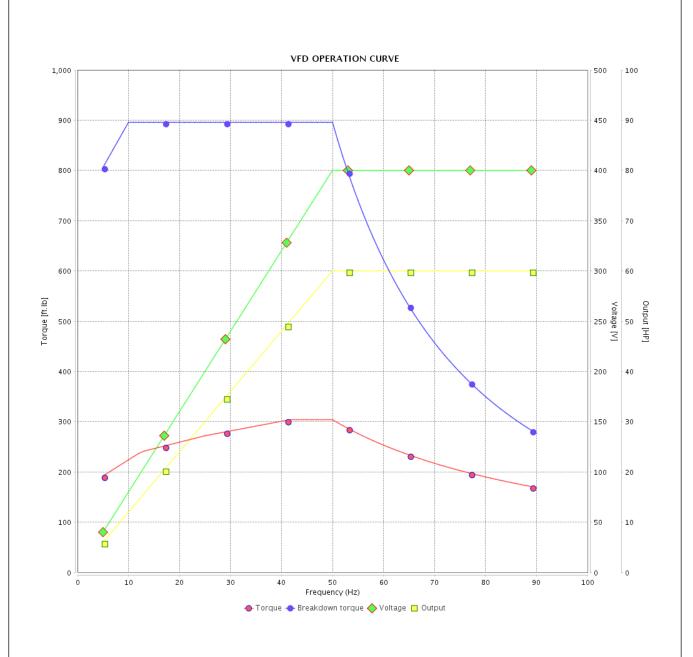
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272905

Catalog #: 07512OT3E405T-W40G

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D. (400 \ / 50 \ \ . OD \ F0			
Performance	: 400 V 50 Hz 6P IE3			
Rated current	: 81.6 A	Moment of inertia (J)	: 31.6 sq.ft.lb	
LRC	: 7.0	Duty cycle	: Cont.(S1)	
Rated torque	: 320 ft.lb	Insulation class	: F	
Locked rotor torque	: 250 %	Service factor	: 1.00	
Breakdown torque	: 280 %	Temperature rise	: 80 K	
Rated speed	: 985 rpm	Design	: B	
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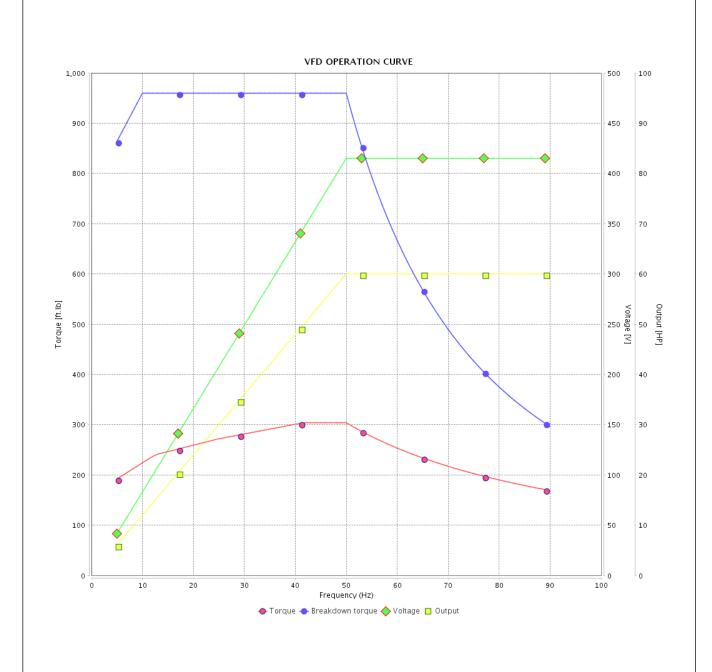
Customer

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

roduct code: 14272905

Catalog #: 07512OT3E405T-W40G



Performance	: 4	15 V 50 Hz 6P IE3				
Rated current	: 79	9.5 A	Moment o	f inertia (J)	: 31.6 sq.ft.lb	
LRC	: 7.	.5	Duty cycle	;	: Cont.(S1)	
Rated torque	: 3:	20 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2°	70 %	Service fa	ctor	: 1.00	
Breakdown torque	: 30	00 %	Temperature rise		: 80 K	
Rated speed	: 98	85 rpm	Design		: B	
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