DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Product code:

Three-Phase

Catalog #: 07536OT3E364TSC-W40

14272522

Frame : 364/5TSC Cooling method : IC01 - ODP

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line

: 1000 m.a.s.l. Approx. weight³ : 742 lb Altitude Moment of inertia (J) : IP23 : 6.40 sq.ft.lb

Protection degree

Design : B Output [HP] 75 60 60 60 Poles 2 2 2 2 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 170/84.8 82.7 79.4 78.4 L. R. Amperes [A] 1119/560 579 588 588 7.0x(Code H) 7.4x(Code H) 7.5x(Code H) LRC [A] 6.6x(Code G) No load current [A] 43.0/21.5 20.7 22.7 25.0 Rated speed [RPM] 3555 2955 2963 2965 Slip [%] 1.25 1.50 1.23 1.17 Rated torque [ft.lb] 111 107 106 106 Locked rotor torque [%] 200 190 220 220 Breakdown torque [%] 250 229 250 280 Service factor 1.25 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K Locked rotor time 34s (cold) 19s (hot) 27s (cold) 15s (hot) 27s (cold) 15s (hot) 27s (cold) 15s (hot) Noise level² 84.0 dB(A) 25% 91.0 90.5 90.2 89.7 50% 91.7 91.7 91.4 91.0 Efficiency (%) 75% 92.9 92.8 92.7 93.0 94.0 94.0 94.0 100% 93.6 0.47 25% 0.56 0.56 0.51

> Drive end Non drive end Foundation loads

0.78

0.85

0.88

Bearing type 6314 C3 6212 Z C3 Max. traction : 649 lb Sealing Without : 1390 lb

Without Max. compression Bearing Seal Bearing Seal

0.77

0.84

0.87

20000 h Lubrication interval 14418 h 13 g Lubricant amount Mobil Polyrex EM Lubricant type

Notes

Power Factor

USABLE @208V 188A SF 1.15 SFA 216A

50%

75%

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.

0.73

0.83

0.87

0.69

0.80

0.85

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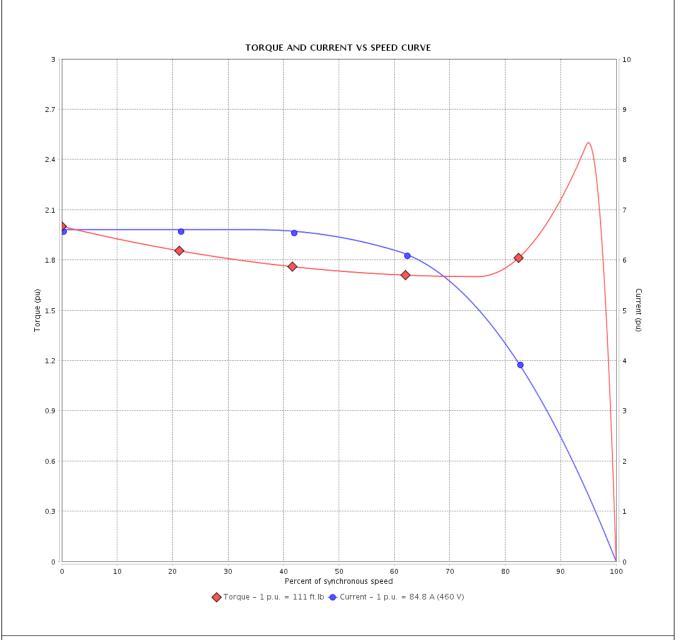
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272522

Catalog #: 07536OT3E364TSC-W40



Performance : 230/460 V 60 Hz 2P Rated current : 170/84.8 A Moment of inertia (J) : 6.40 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 111 ft.lb : F Service factor Locked rotor torque : 200 % : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 3555 rpm Design : B

Locked rotor time : 34s (cold) 19s (hot)

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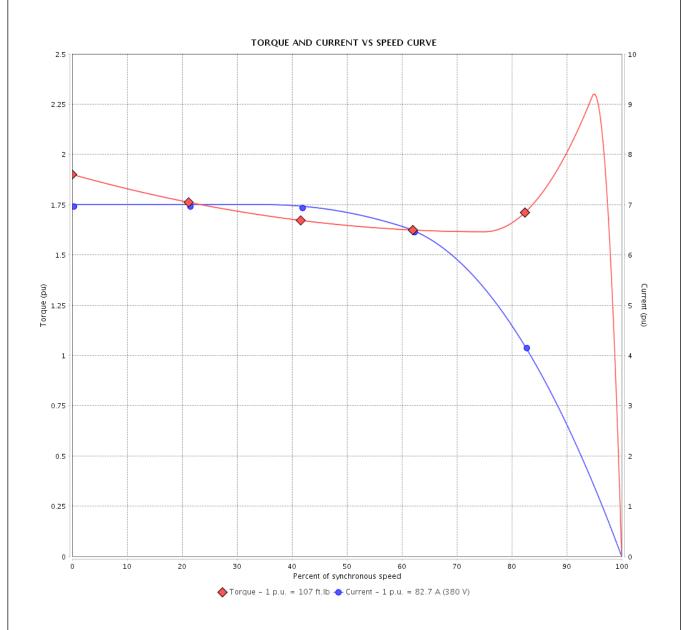


Customer

Product line : W40 NEMA Premium Efficiency

Product code: 14272522

Catalog #: 07536OT3E364TSC-W40



Performance	: 380 V 50 Hz 2P IE3			
Rated current	: 82.7 A	Moment of inertia (J)	: 6.40 sq.ft.lb	
LRC	: 7.0	Duty cycle	: Cont.(S1)	
Rated torque	: 107 ft.lb	Insulation class	: F	
Locked rotor torque	: 190 %	Service factor	: 1.00	
Breakdown torque	: 229 %	Temperature rise	: 80 K	
Rated speed	: 2955 rpm	Design	: B	
Locked rotor time	· 27s (cold) 15s (hot)			

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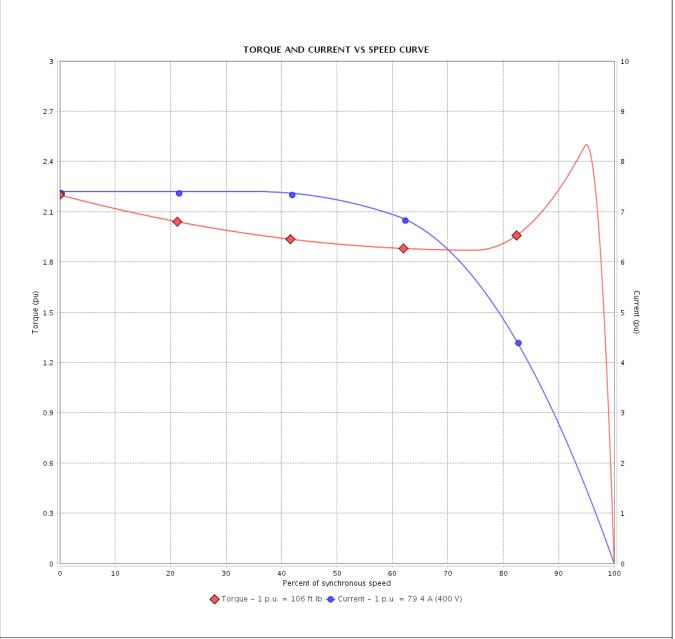
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272522

Catalog #: 07536OT3E364TSC-W40



: 400 V 50 Hz 2P IE3 Performance Rated current : 79.4 A Moment of inertia (J) : 6.40 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 106 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 220 % : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 2963 rpm Design : B

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

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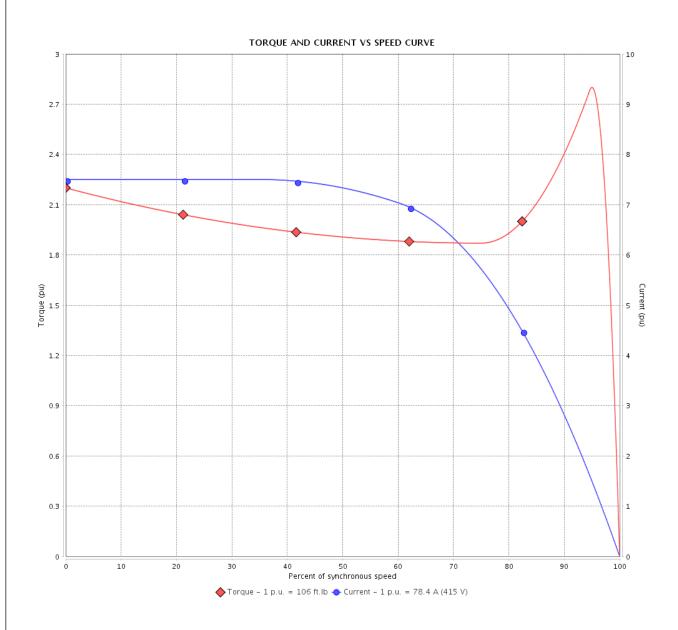


Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14272522

Three-Phase

Catalog #: 07536OT3E364TSC-W40



Performance	: 415 V 50 Hz 2P IE3			
Rated current	: 78.4 A	Moment of inertia (J)	: 6.40 sq.ft.lb	
LRC	: 7.5	Duty cycle	: Cont.(S1)	
Rated torque	: 106 ft.lb	Insulation class	: F	
Locked rotor torque	: 220 %	Service factor	: 1.00	
Breakdown torque	: 280 %	Temperature rise	: 80 K	
Rated speed	: 2965 rpm	Design	: B	

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

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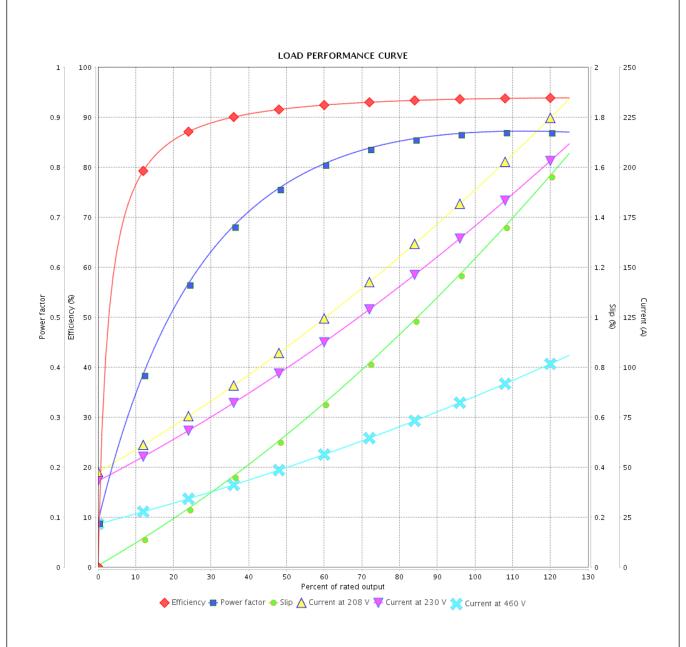
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Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272522

Catalog #: 07536OT3E364TSC-W40



Performance : 230/460 V 60 Hz 2P : 170/84.8 A Rated current Moment of inertia (J) : 6.40 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.6 Insulation class Rated torque : 111 ft.lb : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 3555 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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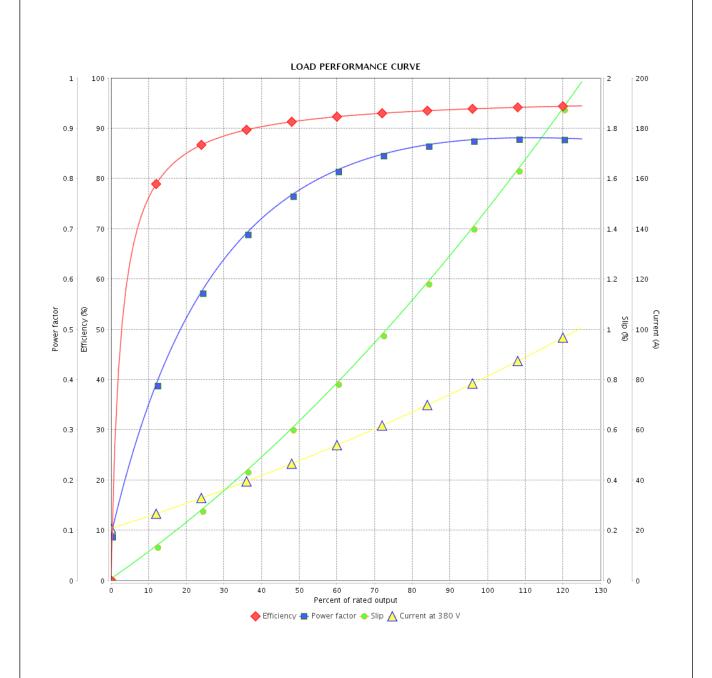
Customer

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Catalog #: 07536OT3E364TSC-W40

14272522



Performance	: 3	80 V 50 Hz 2P IE3				
Rated current	ated current : 82.7 A		Moment of	f inertia (J)	: 6.40 sq.ft.lb	
LRC	: 7	.0	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	07 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 1	90 %	Service fa	ctor	: 1.00	
Breakdown torqu		29 %	Temperature rise		: 80 K	
Rated speed	: 2	955 rpm	Design		: B	
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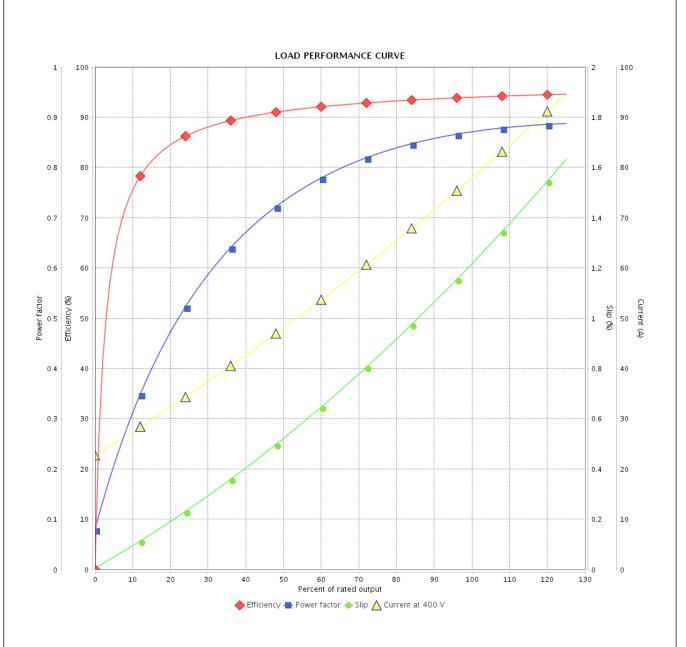
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Three-Phase

Product code: 14272522

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Performance : 400 V 50 Hz 2P IE3 : 79.4 A Rated current Moment of inertia (J) : 6.40 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 106 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 2963 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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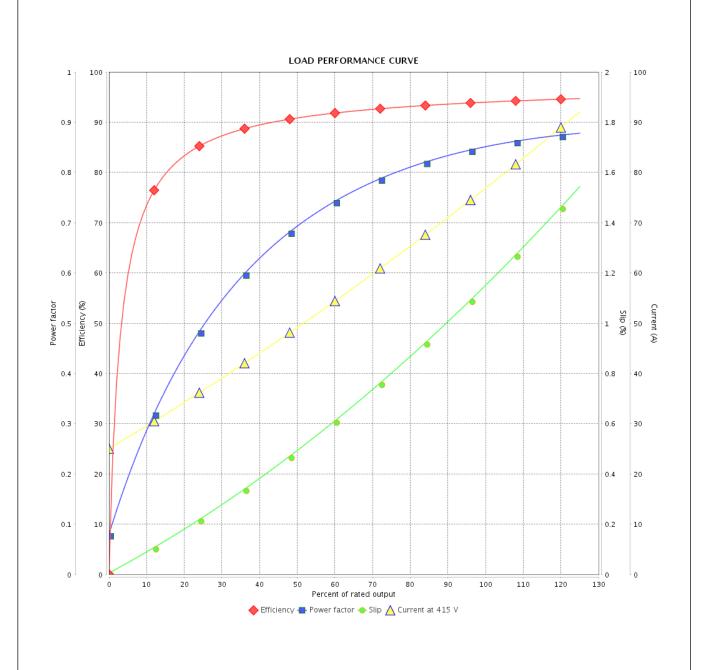


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14272522

Three-Phase

Catalog #: 07536OT3E364TSC-W40



Performance	: -	415 V 50 Hz 2P IE3				
Rated current	:	78.4 A	Moment o	f inertia (J)	: 6.40 sq.ft.lb	
LRC	: '	7.5	Duty cycle)	: Cont.(S1)	
Rated torque	:	106 ft.lb	Insulation	class	:F	
Locked rotor torque	e ::	220 %	Service fa	ctor	: 1.00	
Breakdown torque	::	280 %	Temperati	ıre rise	: 80 K	
Rated speed	::	2965 rpm	Design		: B	
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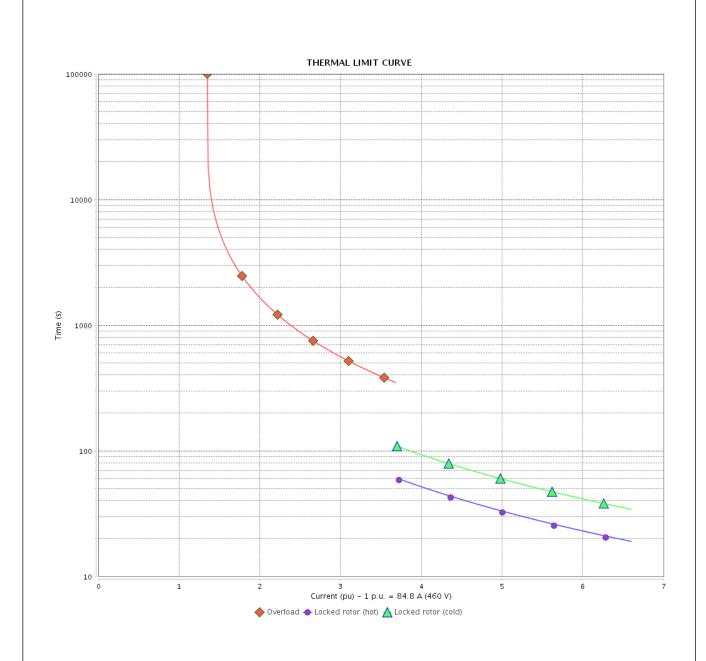


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Product line		: W40 NEMA Premium Effici Three-Phase		Product code : Catalog # :	14272522 07536OT3E36	64TSC-W40
Performance		230/460 V 60 Hz 2P				
Rated current		170/84.8 A	Moment o	of inertia (J)	: 6.40 sq.ft.lb	
LRC	:	6.6	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor tord		111 ft.lb 200 %	Insulation Service fa		: F : 1.25	
Breakdown torqu		250 %	Temperati		: 80 K	
Rated speed		3555 rpm	Design		: B	
Heating constant						
Cooling constant	ι 	Changes Summary		Performed	Checked	Date
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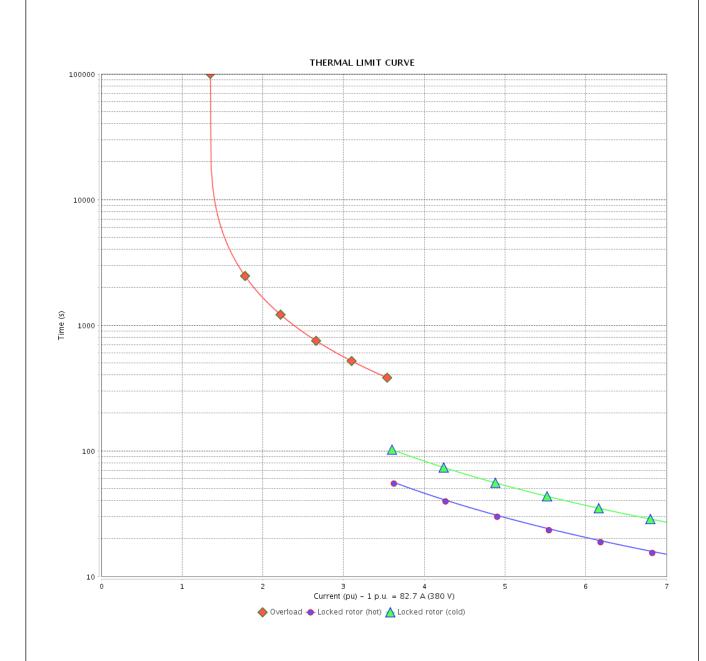


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Product line	: W40 NEMA Premium Effic Three-Phase	ciency Product code :	14272522	
	Thice I flace	Catalog #:	07536OT3E3	864TSC-W40
Performance	: 380 V 50 Hz 2P IE3	T		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 82.7 A : 7.0 : 107 ft.lb : 190 % : 229 % : 2955 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 6.40 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Heating constant				
Cooling constant	Changes Comment	Darfarra	Charles	Data
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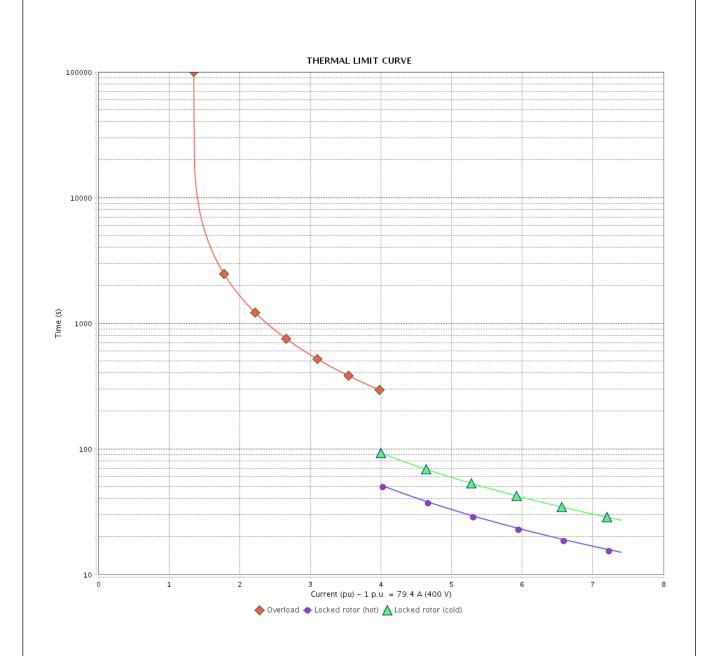


Customer	:			
Product line	: W40 NEMA Premium Effic Three-Phase		14272522	
		Catalog # :	07536OT3E364	TSC-W40
Performance	: 400 V 50 Hz 2P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 79.4 A : 7.4 : 106 ft.lb : 220 % : 250 % : 2963 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 6.40 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant				
Cooling constant				
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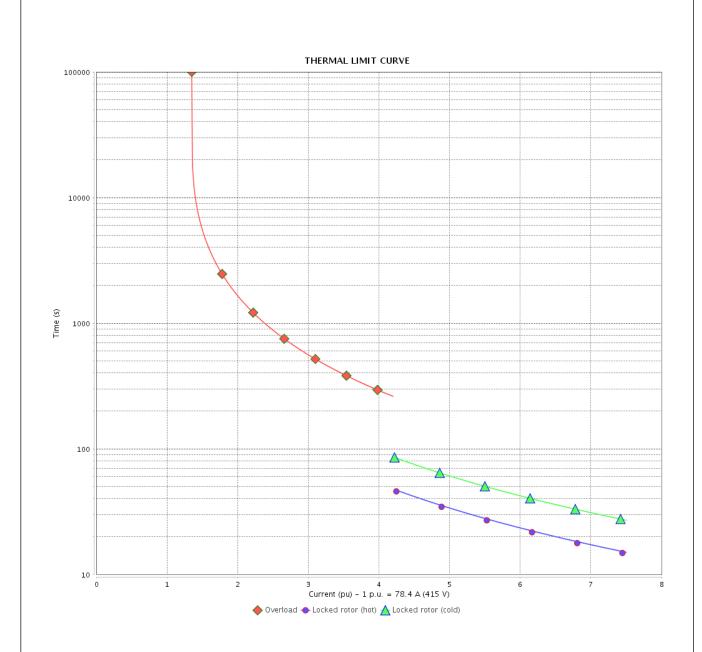


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Product line	: W40 NEMA Premium Efficie	ency	Product code :	14272522	
	Three-Phase				0.470.0 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
			Catalog # :	07536OT3E3	641SC-W40
Performance	: 415 V 50 Hz 2P IE3				
Rated current	: 78.4 A	Moment of	f inertia (J)	: 6.40 sq.ft.lb	
LRC Rated torque	: 7.5 : 106 ft.lb	Duty cycle Insulation	; class	: Cont.(S1) : F	
Locked rotor torque	: 220 %	Service fa	ctor	: 1.00	
Breakdown torque Rated speed	: 280 % : 2965 rpm	Temperatu Design	ıre rise	: 80 K : B	
Heating constant		- 5			
Cooling constant					
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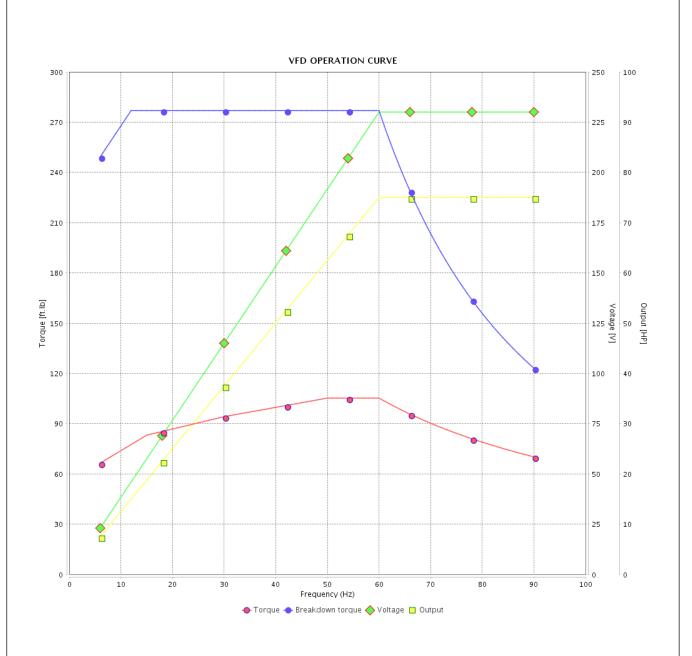
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272522

Catalog #: 07536OT3E364TSC-W40

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Performance : 230/460 V 60 Hz 2P : 170/84.8 A Rated current Moment of inertia (J) : 6.40 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.6 Insulation class Rated torque : 111 ft.lb : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 3555 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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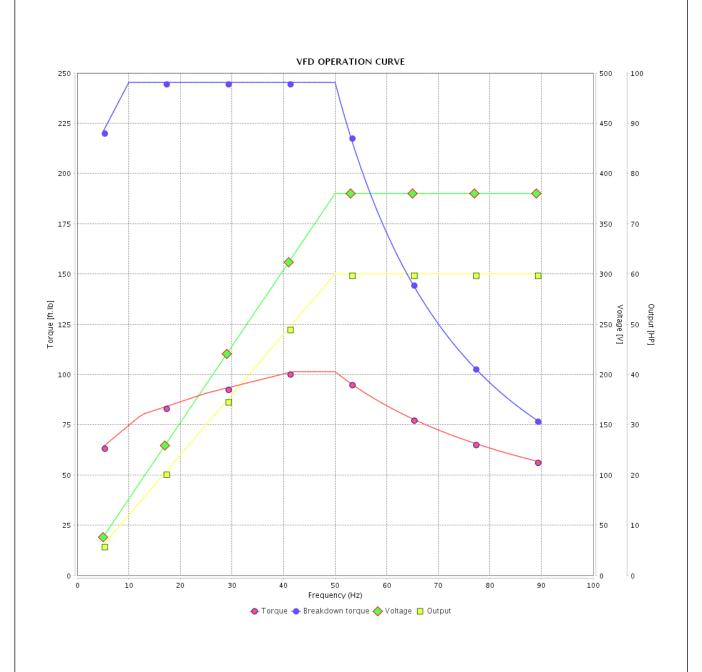


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14272522

Three-Phase

Catalog #: 07536OT3E364TSC-W40



Performance : 380		80 V 50 Hz 2P IE3				
Rated current : 82.		2.7 A	Moment of	Moment of inertia (J)		
LRC : 7.0		.0	Duty cycle	Duty cycle		
Rated torque : 10		07 ft.lb	Insulation	Insulation class		
Locked rotor torqu	ie : 19	90 %	Service fa	ctor	: 1.00	
Breakdown torque : 2		29 %	Temperat	Temperature rise		
Rated speed		955 rpm	Design	Design		
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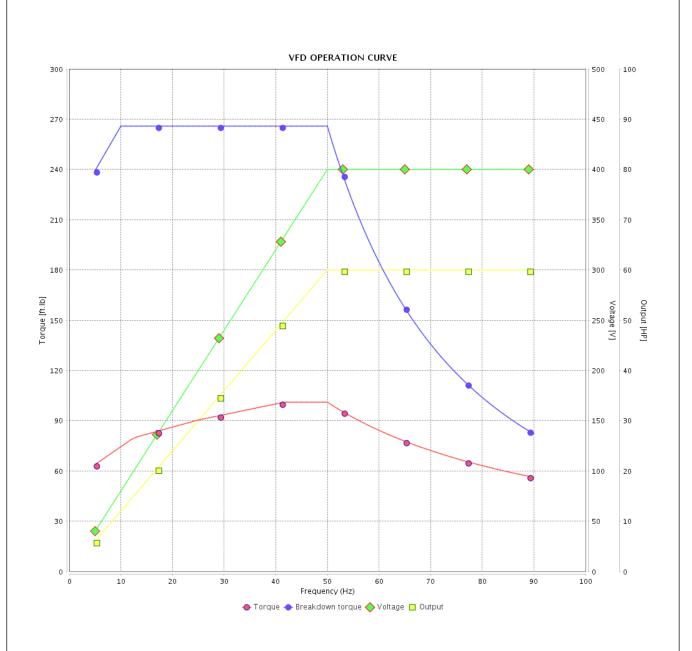
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272522

Catalog #: 07536OT3E364TSC-W40

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Performance : 400 V 50 Hz 2P IE3 : 79.4 A Rated current Moment of inertia (J) : 6.40 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 106 ft.lb Insulation class : F Rated torque Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 2963 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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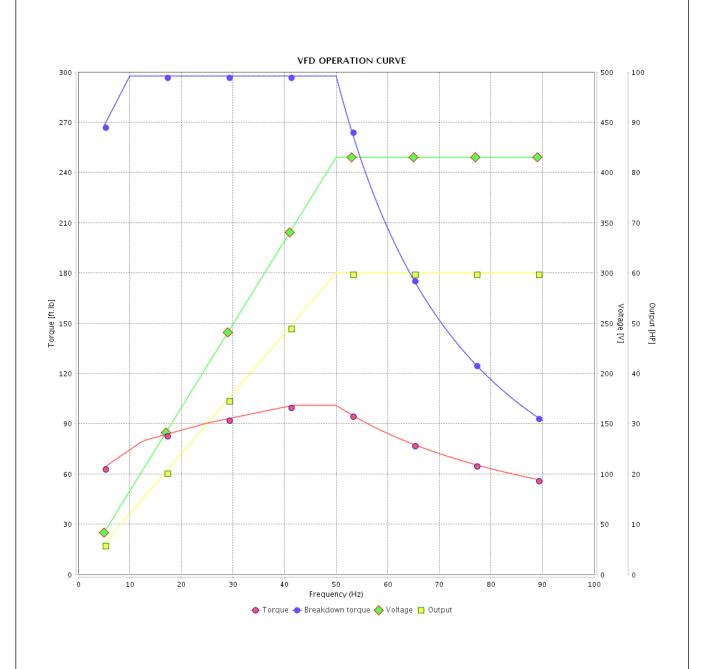


Customer

Product line : W40 NEMA Premium Efficiency Product code: 14272522

Three-Phase

Catalog #: 07536OT3E364TSC-W40



Performance	: 4	15 V 50 Hz 2P IE3				
Rated current : 78		8.4 A	Moment o	Moment of inertia (J)		
LRC : 7.5		.5	Duty cycle	Duty cycle		
Rated torque : 1		06 ft.lb	Insulation	Insulation class		
Locked rotor torque : 22		20 %	Service fa	Service factor		
Breakdown torque		80 %	Temperati	Temperature rise		
Rated speed	: 2	2965 rpm Design			: B	
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