DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Product code: 14285002

Three-Phase

Catalog #: 07536OT3E364TS-W40G

Frame : 364/5TS 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 : 715 lb Altitude Moment of inertia (J) : 6.40 sq.ft.lb

: IP23 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] 1119/560 588 579 588 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

94.0

0.56

0.78

0.85

0.88

Drive end Non drive end Foundation loads

Bearing type 6314 C3 6212 Z C3 Max. traction : 662 lb Sealing Without Without Max. compression : 1377 lb

93.0

93.6

0.56

0.77

0.84

0.87

Bearing Seal Bearing Seal 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

100%

25%

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.

94.0

0.51

0.73

0.83

0.87

94.0

0.47

0.69

0.80

0.85

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Customer :

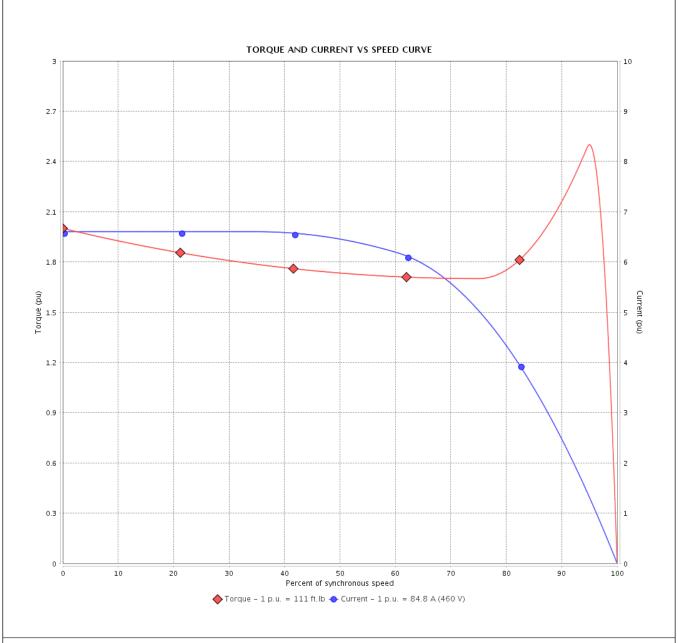
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14285002

Catalog #: 07536OT3E364TS-W40G

: B



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

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

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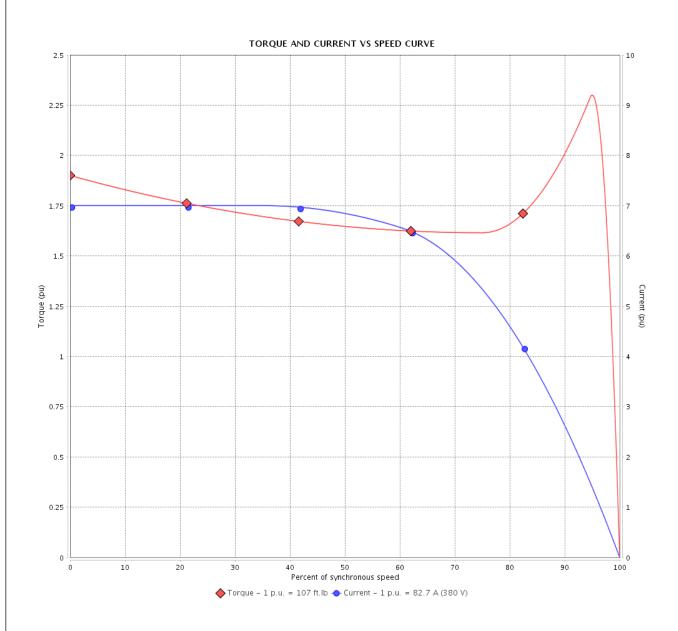
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14285002

Catalog #: 07536OT3E364TS-W40G



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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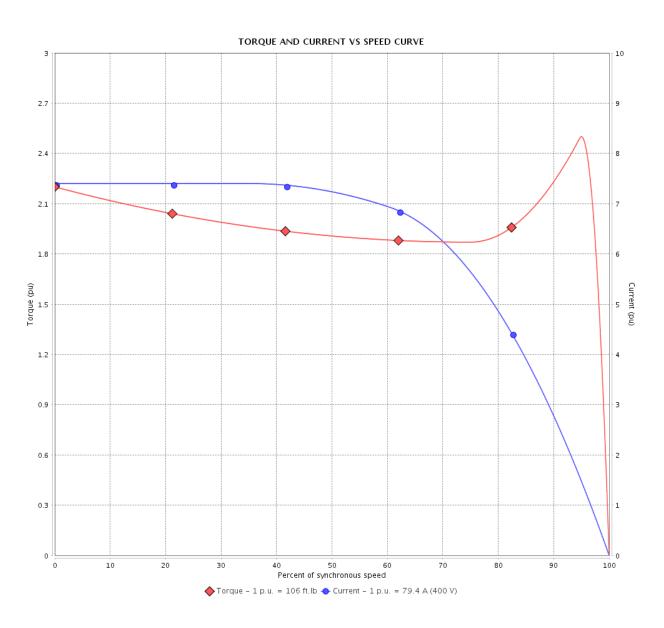
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14285002

Catalog #: 07536OT3E364TS-W40G



: 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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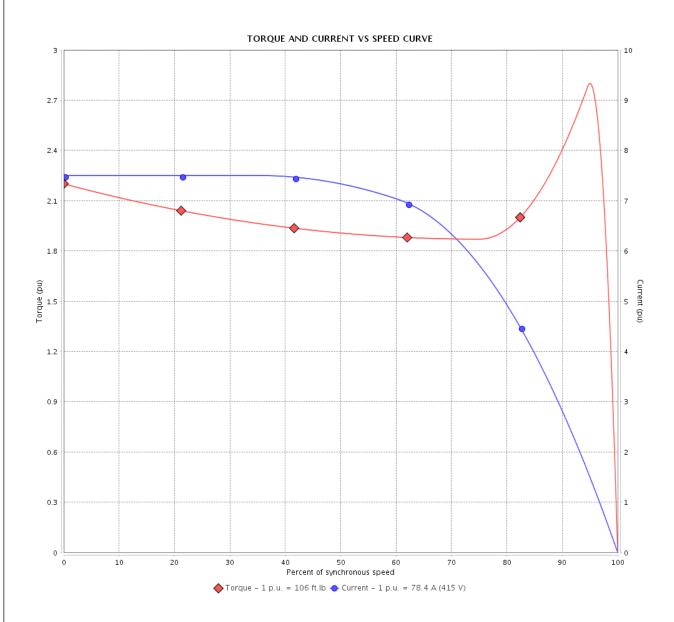


Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14285002

Three-Phase

Catalog #: 07536OT3E364TS-W40G



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)

LOCKCU TOLOT LITT	. 2	73 (cold) 103 (flot)			
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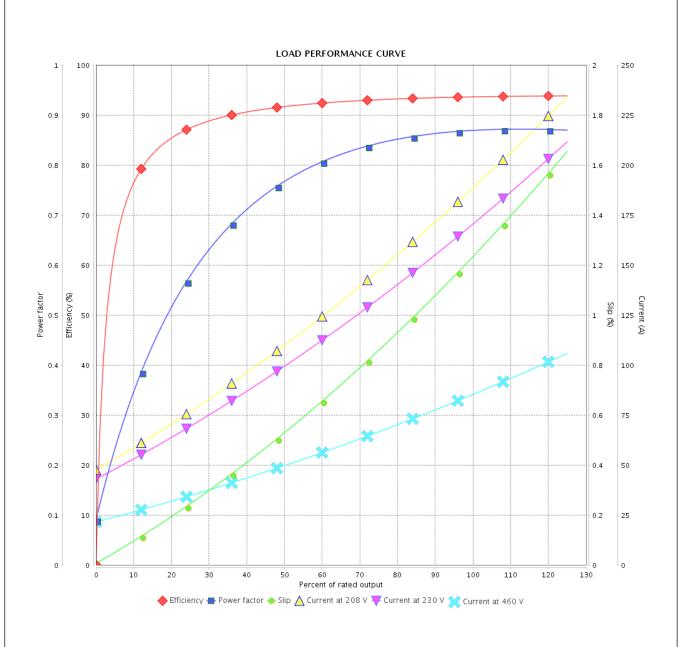
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Performance	: 230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 170/84.8 A : 6.6 : 111 ft.lb : 200 % : 250 % : 3555 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 6.40 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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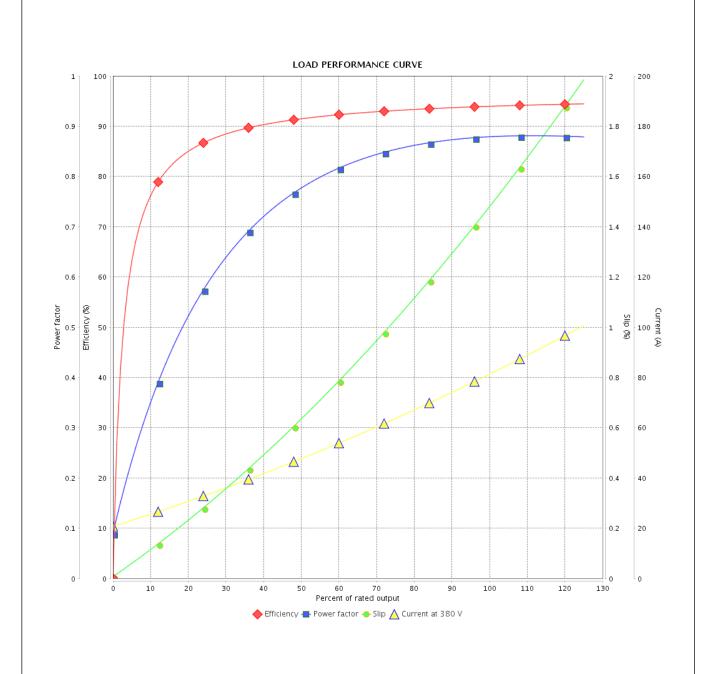
Customer

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Catalog #: 07536OT3E364TS-W40G

14285002



Performance	:	380 V 50 Hz 2P IE3				
Rated current	:	82.7 A	Moment o	f 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	e :	190 %	Service fa	ctor	: 1.00	
Breakdown torque	:	: 229 % Temperature rise		ure rise	: 80 K	
Rated speed	:	2955 rpm	Design		: B	
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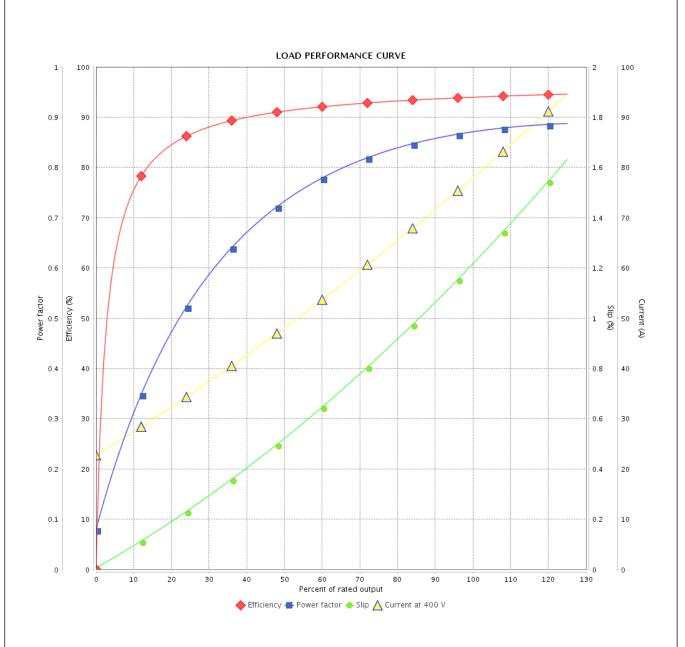
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Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 79.4 A : 7.4 : 106 ft.lb : 220 % : 250 % : 2963 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 6.40 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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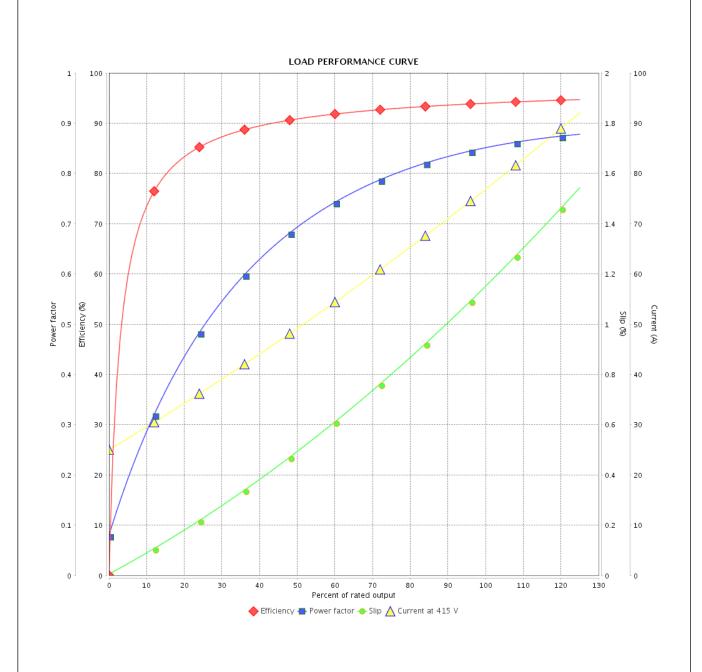


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Product line : W40 NEMA Premium Efficiency Product code : 14285002

Three-Phase

Catalog #: 07536OT3E364TS-W40G



Performance : 415 V 50 Hz 2P IE3						
Rated current	: 7	8.4 A	Moment of	f inertia (J)	: 6.40 sq.ft.lb	
LRC	: 7	.5	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	06 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2:	20 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 2	80 %	Temperati	Temperature rise		
Rated speed	: 2	965 rpm	Design		: B	
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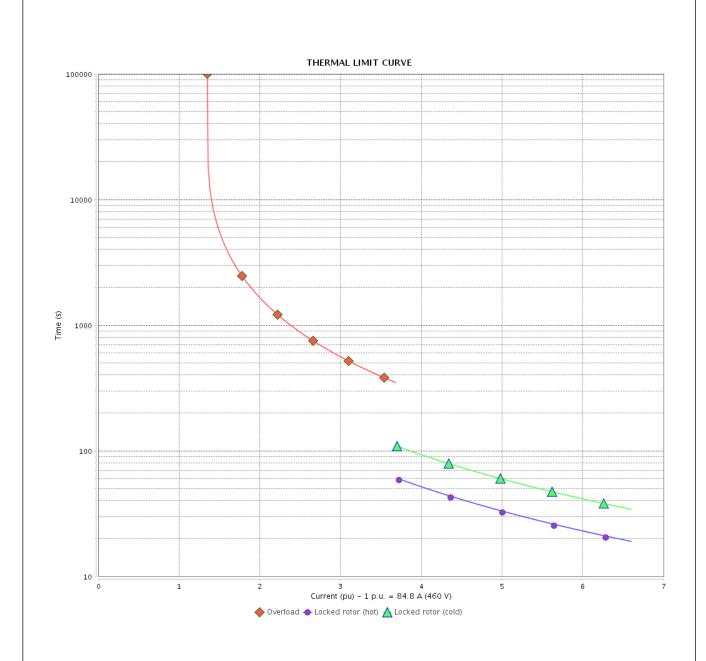


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Product line		: W40 NEMA Premium Efficie Three-Phase		Product code : Catalog # :	14285002 07536OT3E36	64TS-W40G
Performance		230/460 V 60 Hz 2P				
Rated current LRC	:	170/84.8 A 6.6	Duty cycle		: 6.40 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor 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						
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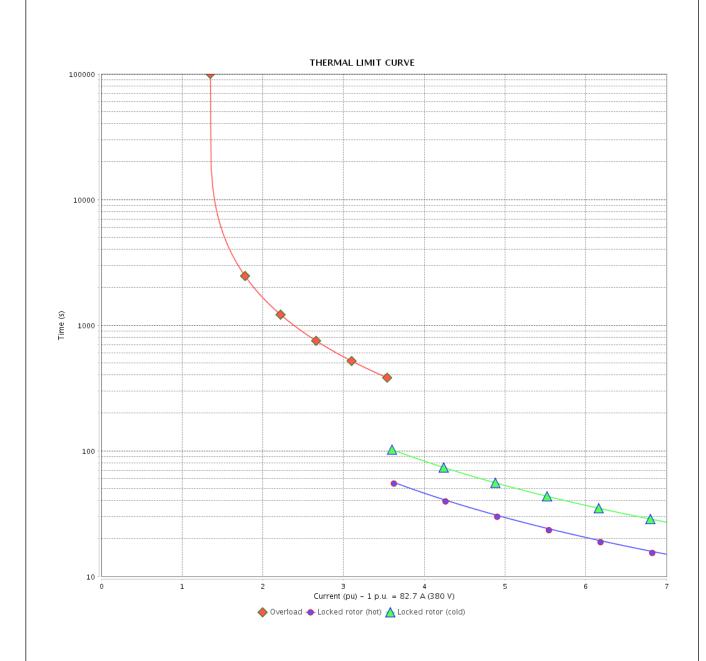


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Product line	: W40 NEMA Premium Efficion Three-Phase		14285002	064T0 10400
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Performance	: 380 V 50 Hz 2P IE3 : 82.7 A	Moment of inartic ()	· 6 40 c~ # lb	
Rated current LRC	: 82.7 A : 7.0	Moment of inertia (J) Duty cycle	: 6.40 sq.ft.lb : Cont.(S1)	
Rated torque	: 107 ft.lb	Insulation class	: F	
Locked rotor torque	: 190 % : 229 %	Service factor	: 1.00 : 80 K	
Breakdown torque Rated speed	: 229 % : 2955 rpm	Temperature rise Design	: 80 K : B	
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Heating constant Cooling constant				
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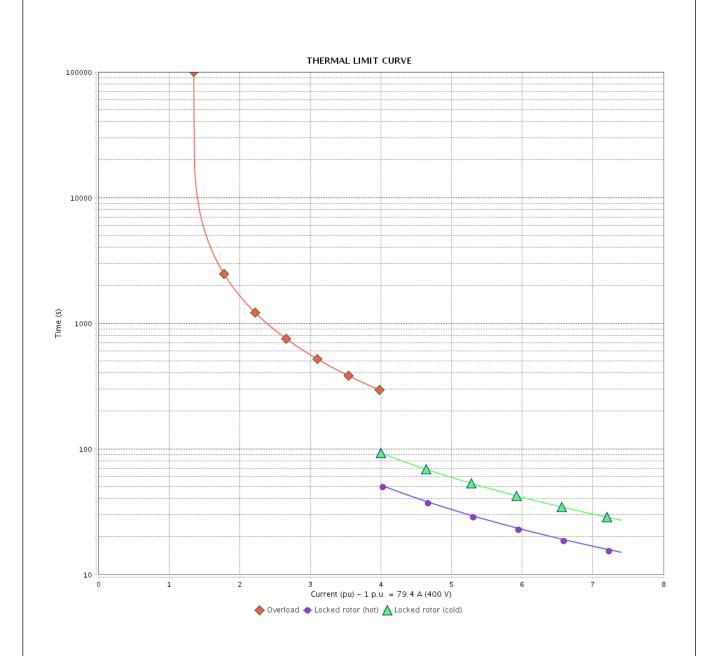


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Product line	: W40 NEMA Premium Effici Three-Phase		Product code : Catalog # :	14285002 07536OT3E3	64TS W400
			Catalog # :	0/536013E3	0415-W40G
Performance	: 400 V 50 Hz 2P IE3	Message	finantic (1)	.0.40 = .0.0	
Rated current LRC	: 79.4 A : 7.4	Moment o	f inertia (J)	: 6.40 sq.ft.lb : Cont.(S1)	
Rated torque	: 106 ft.lb	Insulation	class	: F	
Locked rotor torque	: 220 %	Service fa		: 1.00	
Breakdown torque Rated speed	: 250 % : 2963 rpm	Temperatu Design	are rise	: 80 K : B	
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Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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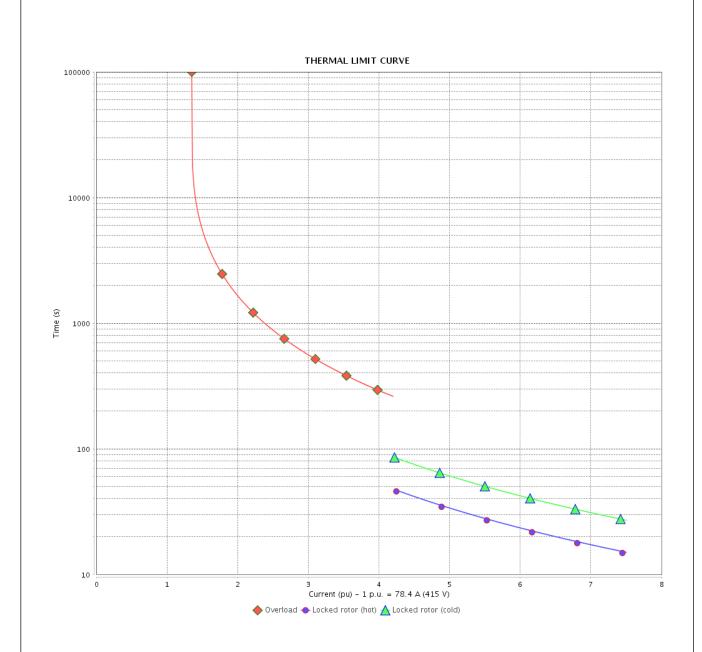


Customer		:				
Product line		: W40 NEMA Premium Efficie Three-Phase		Product code : Catalog # :	14285002 07536OT3E36	64TS-W40G
Performance		415 V 50 Hz 2P IE3	M	f :t: - / I)		
Rated current LRC	:	78.4 A 7.5	Duty cycle		: 6.40 sq.ft.lb : Cont.(S1)	
Rated torque		106 ft.lb	Insulation		: F : 1.00	
Locked rotor tord Breakdown torqu		220 % 280 %	Service fa Temperatu		: 1.00 : 80 K	
Rated speed		2965 rpm	Design	A1 G 11 G G	: B	
Heating constant						
Cooling constant	ι 	Changes Summary		Performed	Checked	Doto
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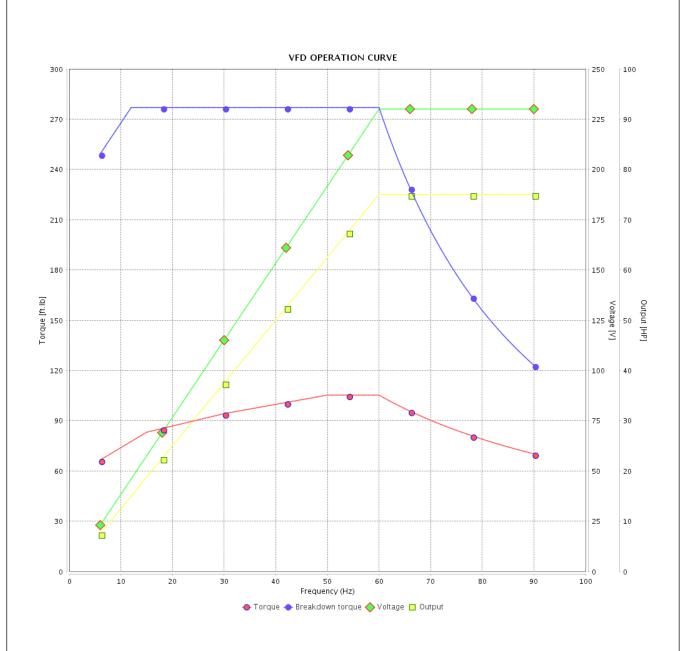
Product line : W40 NEMA Premium Efficiency

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Product code: 14285002

Catalog #: 07536OT3E364TS-W40G

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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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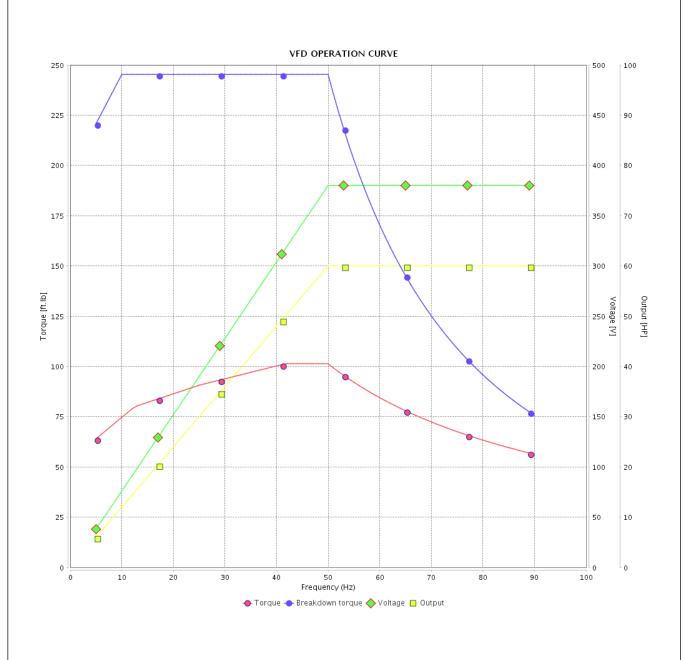


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Catalog #: 07536OT3E364TS-W40G



Performance	::	380 V 50 Hz 2P IE3					
Rated current	d current : 82.7 A		Moment o	f 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	e :	190 %	Service fa	ctor	: 1.00		
Breakdown torque : 229 %		229 %	Temperati	Temperature rise		: 80 K	
Rated speed : 2955 rpm		2955 rpm	Design	Design : B			
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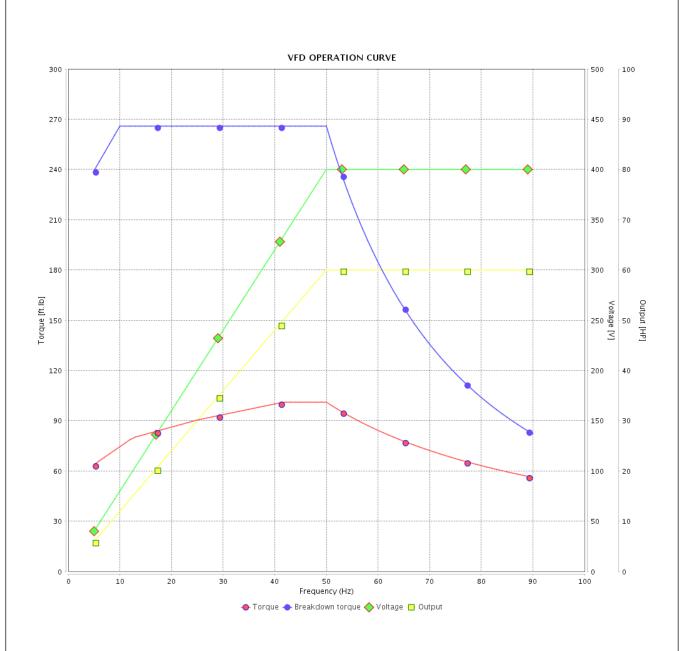
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Performance : 400 V 50 Hz 2P IE3 : 79.4 A Rated current Moment of inertia (J) : 6.40 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 106 ft.lb Insulation class : F Rated torque Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 2963 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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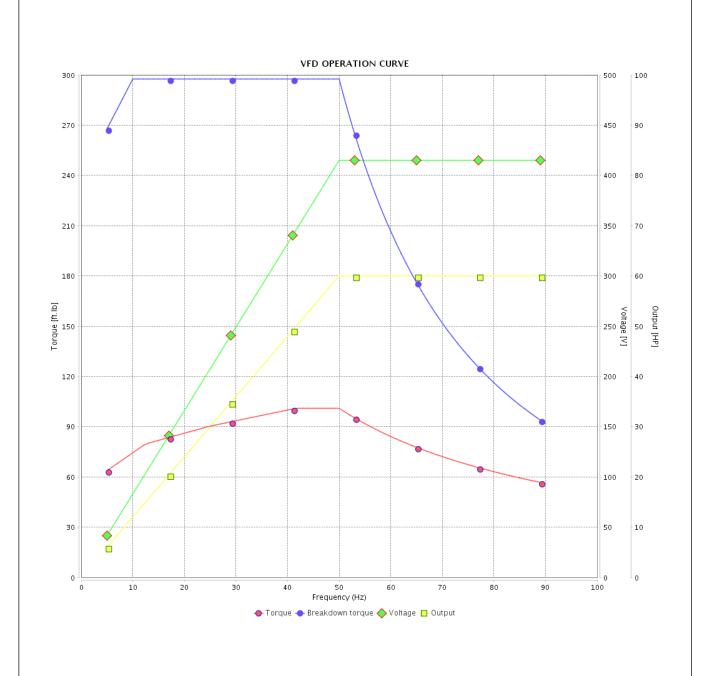


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Performance	rformance : 415 V 50 Hz 2P IE3					
Rated current	Rated current : 78.4 A		Moment of	Moment of inertia (J)		
LRC	: 7	' .5	Duty cycle	•	: Cont.(S1)	
Rated torque	: 1	06 ft.lb	Insulation	Insulation class		
Locked rotor torqu	ue : 2	220 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 2	280 %	Temperat	Temperature rise		
Rated speed : 2965 rpm		2965 rpm	Design	Design		
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