DATA SHEET

Three Phase Induction Motor - Squirrel Cage



93.5

93.9

93.9

0.42

0.68

0.79

0.84

Customer :

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Catalog #: 06018OT3G364TS-W40

14270887

Frame : 364/5TS 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 : 739 lb

Altitude : 1000 m.a.s.l. Approx. weight³ : 739 lb
Protection degree : IP23 Moment of inertia (J) : 15.6 sq.ft.lb

Design : B Output [HP] 60 50 50 50 Poles 4 4 4 Frequency [Hz] 60 50 50 50 Rated voltage [V] 380 415 460 400 Rated current [A] 69.6 66.9 69.9 65.3 L. R. Amperes [A] 482 454 473 457 6.5x(Code G) 6.8x(Code G) 7.2x(Code H) 7.0x(Code H) LRC [A] No load current [A] 24.7 24.4 26.2 27.7 Rated speed [RPM] 1780 1480 1480 1485 Slip [%] 1.11 1.33 1.33 1.00 Rated torque [ft.lb] 177 177 177 177 Locked rotor torque [%] 200 200 220 240 Breakdown torque [%] 240 229 250 270 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) 32s (cold) 18s (hot) 30s (cold) 17s (hot) 28s (cold) 16s (hot) Noise level² 69.0 dB(A) 25% 94.4 93.4 93.4 93.4

93.5

93.9

93.9

0.49

0.74

0.83

0.86

Drive end Non drive end Foundation loads

Bearing type : 6314 C3 6212 Z C3 Max. traction : 1266 lb Sealing : Without Without Max. compression : 2006 lb

ling : Without Without Max. compression : 2006 lb

Bearing Seal Bearing Seal

Lubrication interval : 20000 h 20000 h Lubricant amount : 27 g 13 g Lubricant type : Mobil Polyrex EM

94.5

95.0

95.0

0.48

0.73

0.82

0.85

Notes

Efficiency (%)

Power Factor

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).

50%

75%

100%

25%

50%

75%

100%

(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.

93.5

93.9

93.9

0.45

0.71

0.81

0.85

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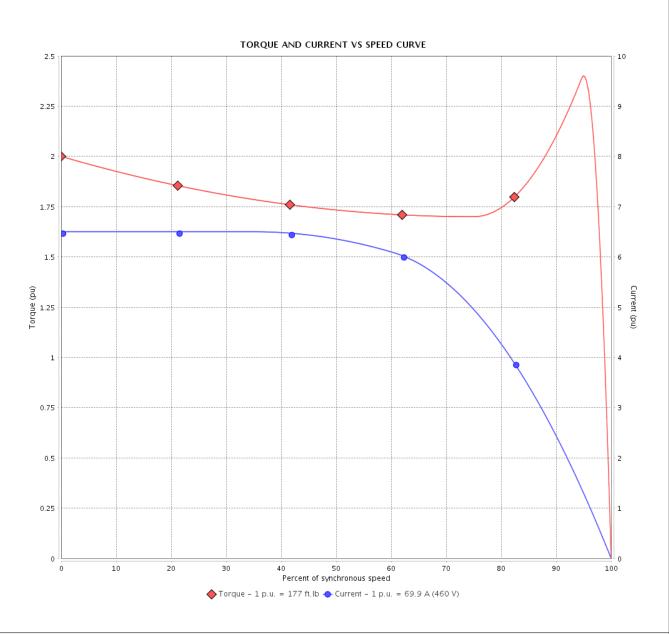
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14270887

Catalog #: 06018OT3G364TS-W40



Performance : 460 V 60 Hz 4P Rated current : 69.9 A Moment of inertia (J) : 15.6 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) : 177 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 200 % : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B

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

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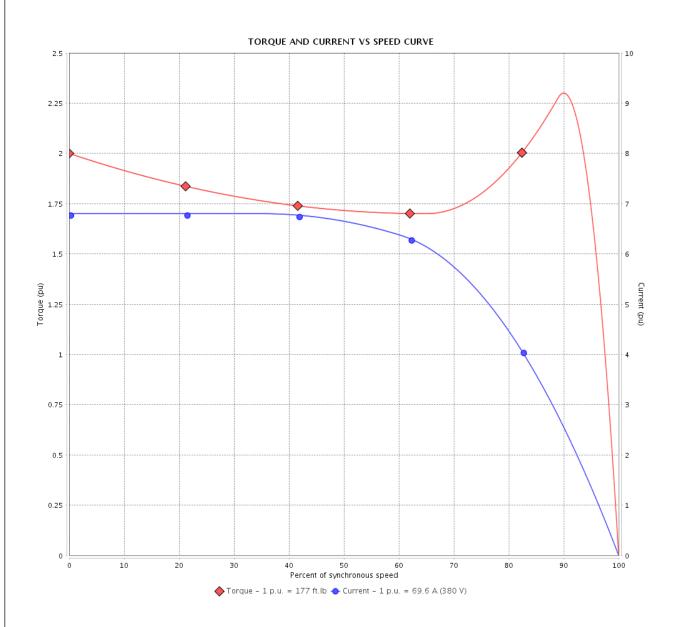
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Customer

Product line : W40 NEMA Premium Efficiency Product code: 14270887

Catalog #: 06018OT3G364TS-W40



Performance	: 380 V 50 Hz 4P IE3			
Rated current	: 69.6 A	Moment of inertia (J)	: 15.6 sq.ft.lb	
LRC	: 6.8	Duty cycle	: Cont.(S1)	
Rated torque	: 177 ft.lb	Insulation class	: F	
Locked rotor torque	: 200 %	Service factor	: 1.00	
Breakdown torque	: 229 %	Temperature rise	: 80 K	
Rated speed	: 1480 rpm	Design	: B	
Locked rotor time	: 32s (cold) 18s (hot)			

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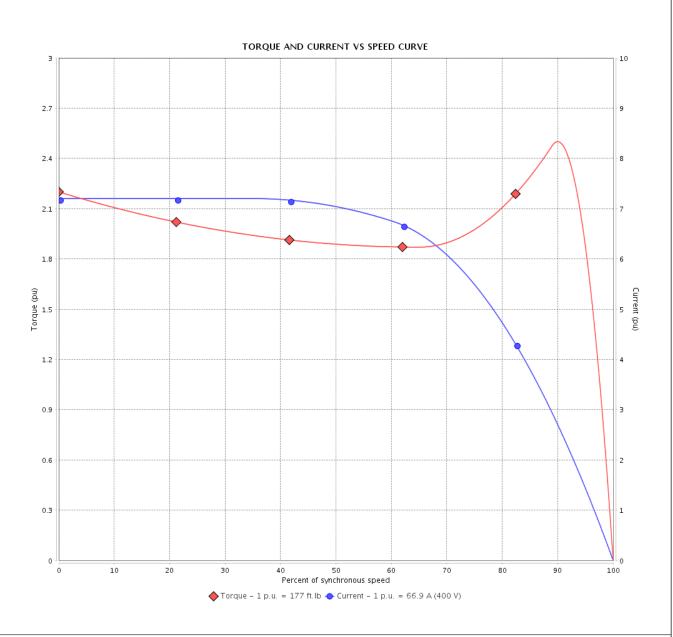
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14270887

Catalog #: 06018OT3G364TS-W40



: 400 V 50 Hz 4P IE3 Performance Rated current : 66.9 A Moment of inertia (J) : 15.6 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) : 177 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 220 % : 1.00 Breakdown torque : 250 % Temperature rise : 80 K

Rated speed : 1480 rpm Design : B

Locked rotor time : 30s (cold) 17s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : W40 NEMA Premium Efficiency Product code: 14270887 Three-Phase Catalog #: 06018OT3G364TS-W40 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Torque (pu) 1.2 0.6 0.3 40 50 -Percent of synchronous speed ◆ Torque - 1 p.u. = 177 ft.lb ◆ Current - 1 p.u. = 65.3 A (415 V)

Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 65.3 A : 7.0 : 177 ft.lb : 240 % : 270 % : 1485 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	lass tor	: 15.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Locked rotor time	: 28s (cold) 16s (hot)				
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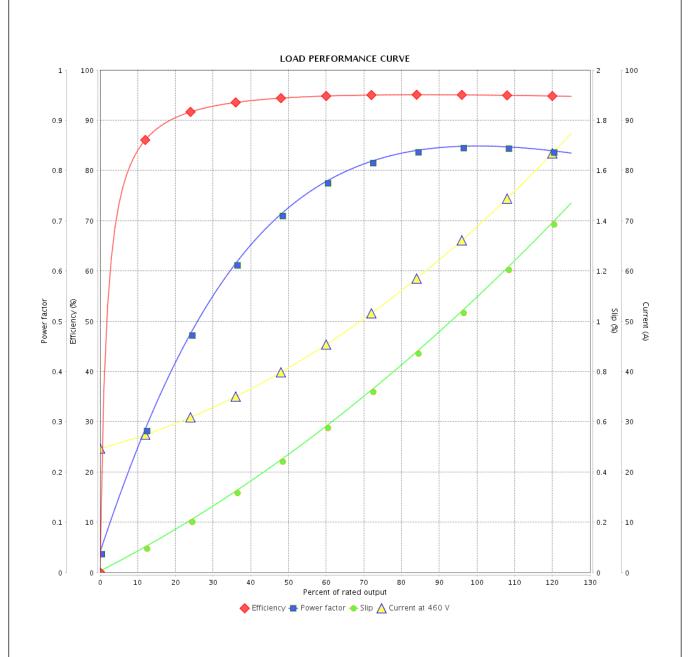
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Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14270887

Catalog #: 06018OT3G364TS-W40



Performance	: 4	60 V 60 Hz 4P				
Rated current	: 6	9.9 A Moment of		of inertia (J)	: 15.6 sq.ft.lb	
LRC	: 6	.5	Duty cycle	9	: Cont.(S1)	
Rated torque	: 1	77 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 2	00 %	Service fa	actor	: 1.25	
Breakdown torqu	e : 2	40 % Temperature		ure rise	: 80 K	
Rated speed	: 1	780 rpm	Design		: B	
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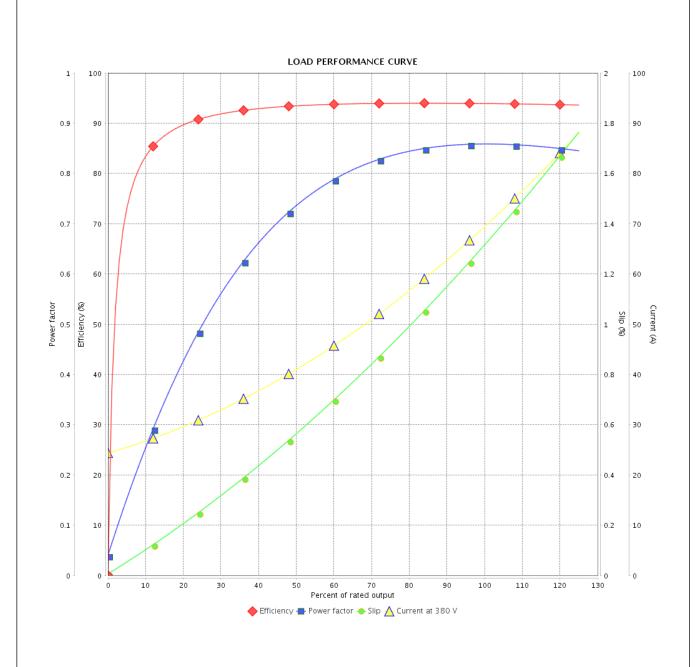
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Three-Phase

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Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 69.6 A : 6.8 : 177 ft.lb : 200 % : 229 %	Duty cycle : C Insulation class : F Service factor : 1.		: 15.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Rated speed	: 1480 rpm	Design	150	: B	
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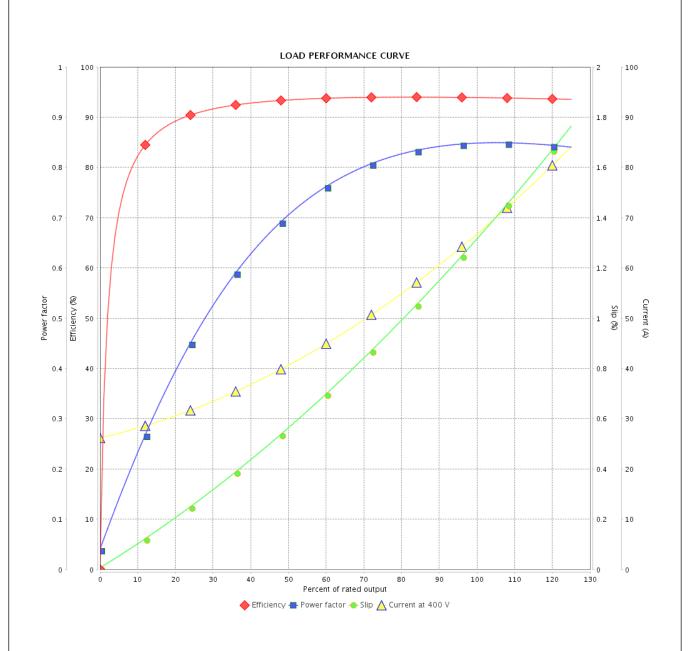
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Three-Phase

Product code: 14270887

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Performance : 400 V 50 Hz 4P IE3 Rated current : 66.9 A Moment of inertia (J) : 15.6 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 7.2 : 177 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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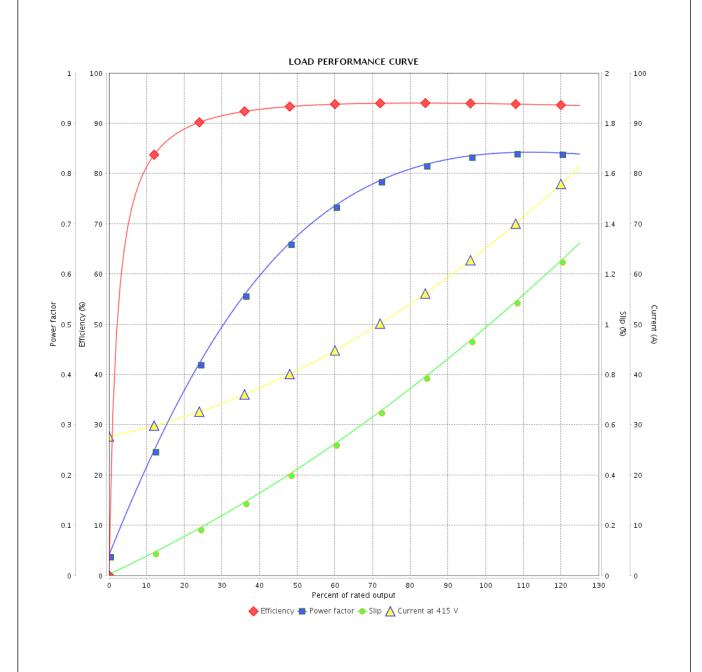


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Product line : W40 NEMA Premium Efficiency Product code : 14270887

Three-Phase

Catalog #: 06018OT3G364TS-W40



Performance	: 4	: 415 V 50 Hz 4P IE3				
Rated current	: 6	: 65.3 A		Moment of inertia (J)		
LRC	: 7.	.0	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	77 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 24	40 %	Service fa	ctor	: 1.00	
Breakdown torque	que : 270 % Temperature rise		ıre rise	: 80 K		
Rated speed	: 14	485 rpm	Design		: B	
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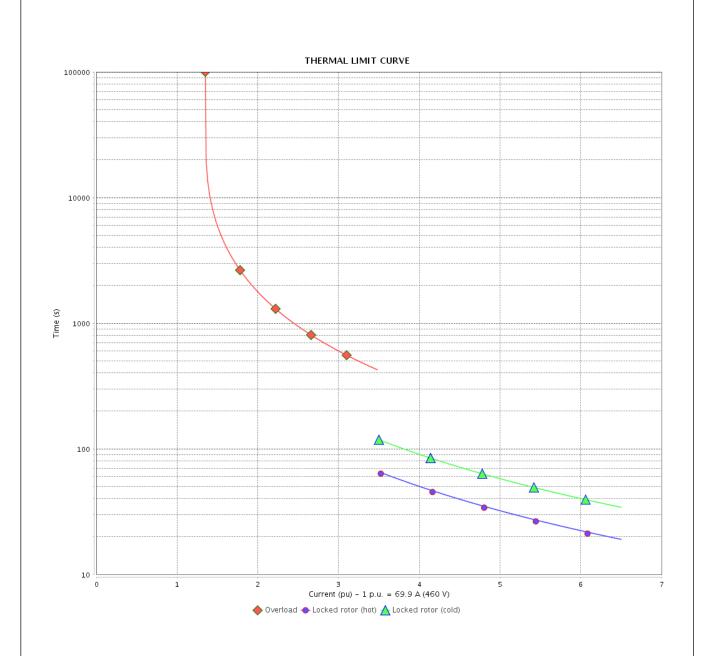


Customer	:					
Product line	: ' T	W40 NEMA Premium Efficie hree-Phase		Product code : Catalog # :	14270887 06018OT3G3	64TS-W40
Performance	: 4	60 V 60 Hz 4P				
Rated current LRC Rated torque	: 6 : 1	77 ft.lb	Duty cycle Insulation	class	: 15.6 sq.ft.lb : Cont.(S1) : F	
Locked rotor torque Breakdown torque	: 2	00 % 40 %	Service far Temperatu		: 1.25 : 80 K	
Rated speed		780 rpm	Design		: B	
Heating constant Cooling constant						
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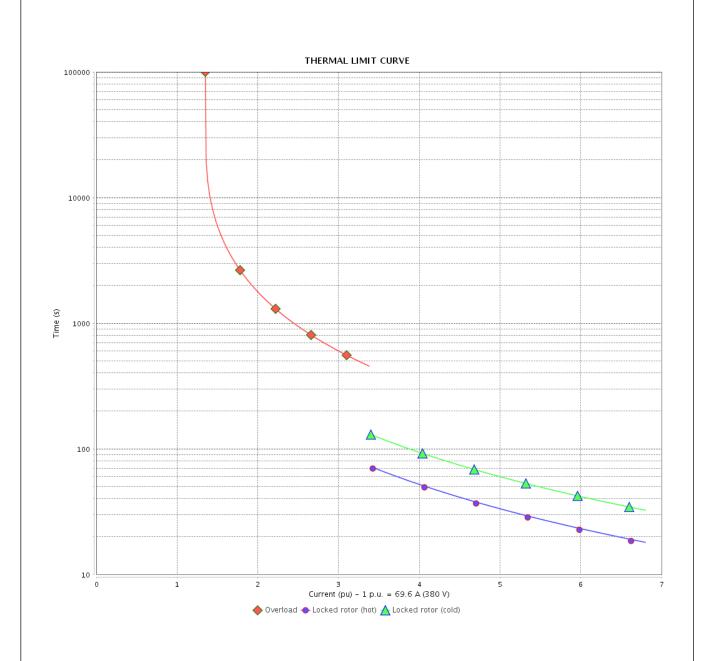


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Product line	: \ Tł	W40 NEMA Premium Efficion Nree-Phase		Product code :	14270887 06018OT3G3	64TS-W40
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 69 : 6. : 17 que : 20 ue : 22 : 14	80 V 50 Hz 4P IE3 9.6 A 8 77 ft.lb 00 % 29 % 480 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 15.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant Rev.	<u> </u>	Changes Summary		Performed	Checked	Date
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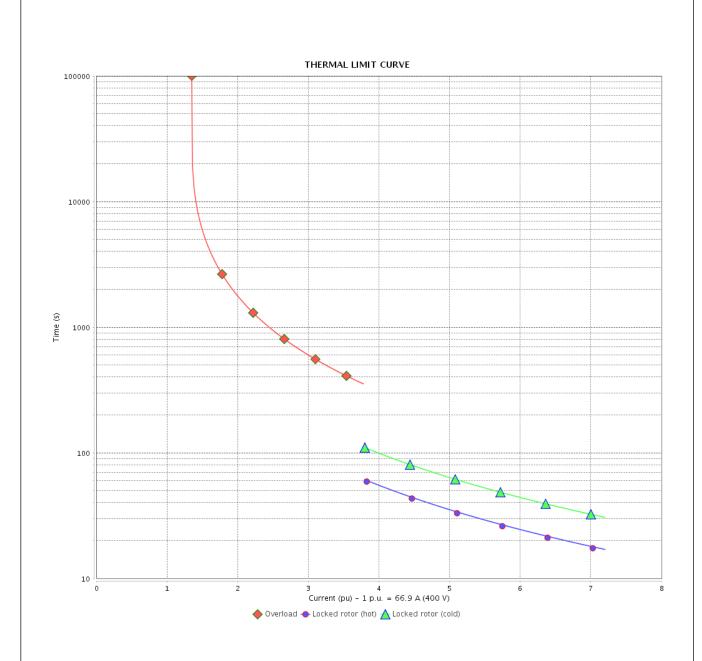


Customer	:					
Product line	:\	N40 NEMA Premium Efficie	ency f	Product code :	14270887	
		nree-Phase		Catalog # :	06018OT3G3	64TS-W40
						0413-7740
Performance	. 40	20 V 50 H= 4D IE2				
Rated current		00 V 50 Hz 4P IE3 6.9 A	Moment of	f inertia (J)	: 15.6 sq.ft.lb	
LRC	: 7.	2	Duty cycle		: Cont.(S1)	
Rated torque Locked rotor torqu		77 ft.lb 20 %	Insulation Service fac		: F : 1.00	
Breakdown torque		50 %	Temperatu		: 80 K	
Rated speed		180 rpm	Design		: B	
Heating constant						
Cooling constant			-			
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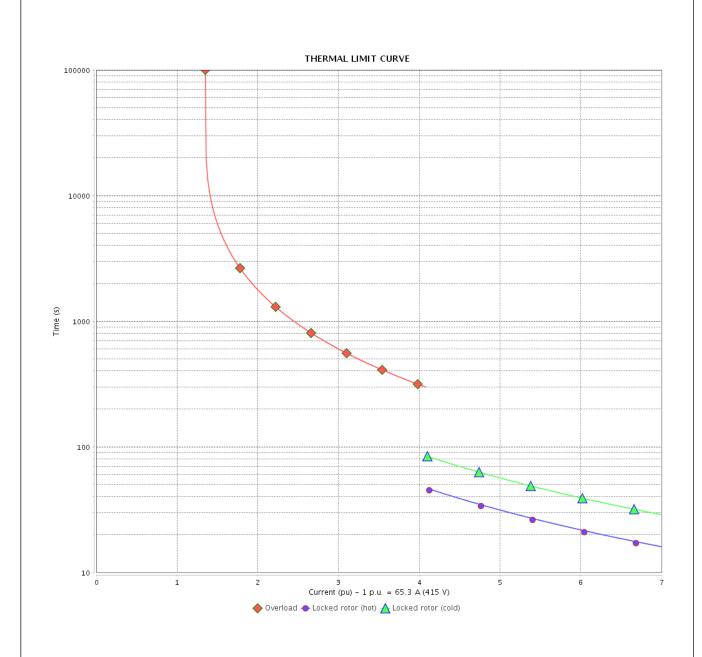


Customer		:				
Product line		: W40 NEMA Premium Effici Three-Phase		Product code : Catalog # :	14270887 06018OT3G3	64TS-W40
Performance		: 415 V 50 Hz 4P IE3				
Rated current LRC		: 65.3 A : 7.0	Duty cycle		: 15.6 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 177 ft.lb : 240 %	Insulation Service fa		: F : 1.00	
Breakdown torqu		: 240 % : 270 %	Temperati		: 80 K	
Rated speed		: 1485 rpm	Design		: B	
Heating constan						
Cooling constant	t	Changes Summary		Performed	Checked	Date
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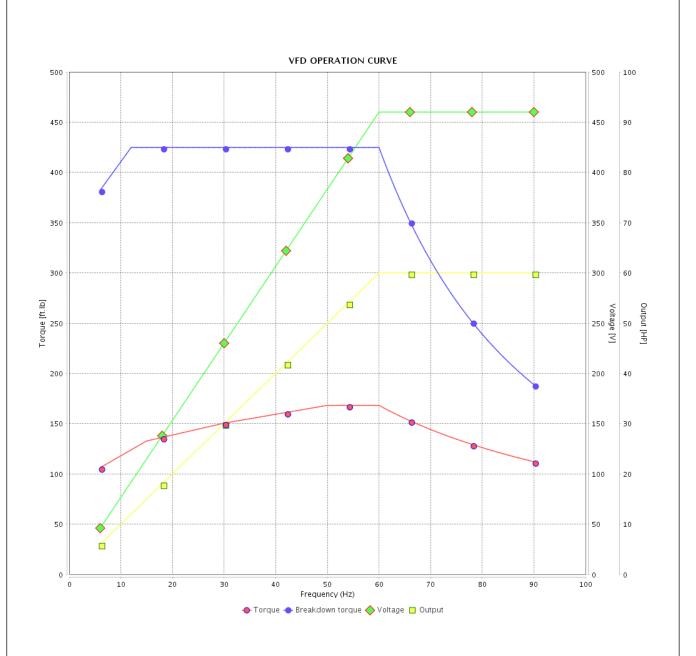
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14270887

Catalog #: 06018OT3G364TS-W40

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Performance	: 4	60 V 60 Hz 4P				
Rated current		: 69.9 A Moment of inertia (J)		` '	: 15.6 sq.ft.lb	
LRC	: 6	5.5	Duty cycl	е	: Cont.(S1)	
Rated torque	: 1	77 ft.lb	Insulation	Insulation class		
Locked rotor torq	ue : 2	00 %	Service fa	actor	: 1.25	
Breakdown torqu	e : 2	40 %	Temperat	Temperature rise		
Rated speed	: 1	780 rpm	Design			
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Three Phase Induction Motor - Squirrel Cage

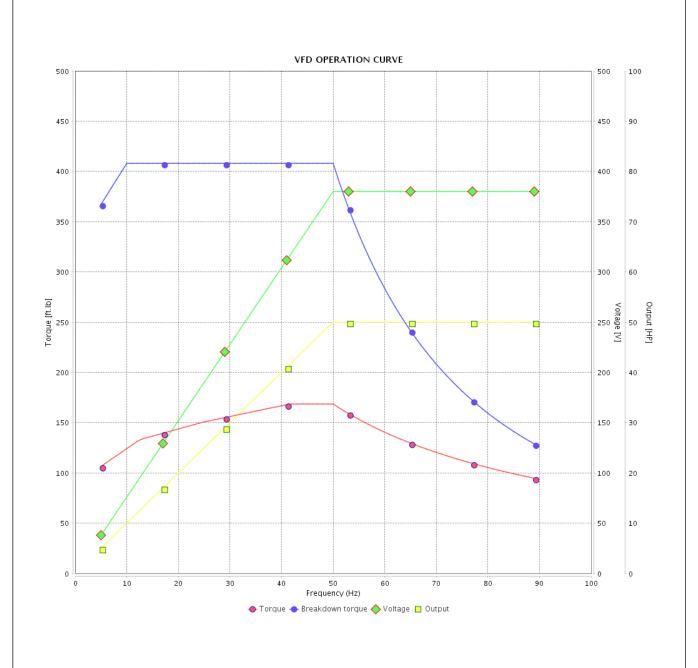


Customer

Product line : W40 NEMA Premium Efficiency Product code: 14270887

Three-Phase

Catalog #: 06018OT3G364TS-W40



Performance	: 3	80 V 50 Hz 4P IE3				
Rated current	: 6	9.6 A	9.6 A Moment of inertia (J)		: 15.6 sq.ft.lb	
LRC	: 6	.8	Duty cycle)	: Cont.(S1)	
Rated torque	: 1	77 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 2	00 %	Service fa	ctor	: 1.00	
Breakdown torqu	e : 2	29 %	Temperati	Temperature rise		
Rated speed	: 1	480 rpm	Design		: B	
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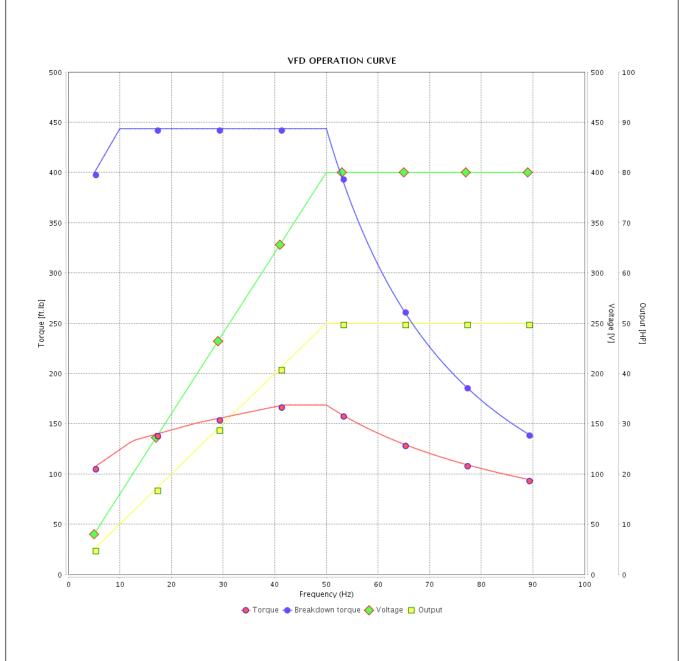
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14270887

Catalog #: 06018OT3G364TS-W40



Performance	: 4	100 V 50 Hz 4P IE3				
Rated current	: 6	66.9 A	.9 A Moment of inertia (J)		: 15.6 sq.ft.lb	
LRC	: 7	7.2	Duty cycle	e ` ´	: Cont.(S1)	
Rated torque	: 1	177 ft.lb	Insulation		: F ` ´	
Locked rotor torq	ue : 2	220 %	Service fa	ictor	: 1.00	
Breakdown torqu	ie : 2	250 %	Temperat	Temperature rise		
Rated speed	: 1	1480 rpm	Design		: B	
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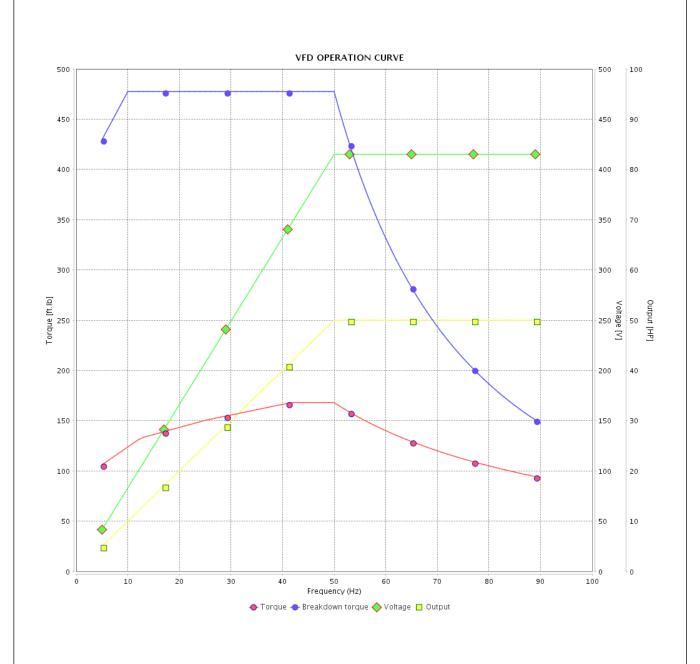
Customer

Product line : W40 NEMA Premium Efficiency Product

Three-Phase

Product code: 14270887

Catalog #: 06018OT3G364TS-W40



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	: 6	: 65.3 A Moment of		f inertia (J)	: 15.6 sq.ft.lb	
LRC	: 7	.0	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	77 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 2	40 %	Service fa	ctor	: 1.00	
Breakdown torqu	e : 2	70 %	Temperature rise		: 80 K	
Rated speed	: 1	485 rpm	Design		: B	
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