DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Product code: 14270886

Three-Phase

Catalog #: 06018OT3G364T-W40

Frame : 364/5T 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 : 785 lb Altitude

Protection degree		: IP23	Moment of ine	ertia (J)	sq.ft.lb
Design		: B			
Output [HP]	Output [HP]		50	50	50
Poles		4	4	4	4
Frequency [Hz]		60	50	50	50
Rated voltage [V]		460	380	400	415
Rated current [A]		69.9	69.6	66.9	65.3
L. R. Amperes [A]		454	473	482	457
LRC [A]		6.5x(Code G)	6.8x(Code G)	7.2x(Code H)	7.0x(Code H)
No load current [A]	24.7	24.4	26.2	27.7
Rated speed [RPN	/ []	1780	1480	1480	1485
Slip [%]	Slip [%]		1.33	1.33	1.00
Rated torque [ft.lb]	Rated torque [ft.lb]		177	177	177
Locked rotor torqu	Locked rotor torque [%]		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 level ²		69.0 dB(A)			
	25%	94.4	93.4	93.4	93.4
Efficiency (%)	50%	94.5	93.5	93.5	93.5
Efficiency (%)	75%	95.0	93.9	93.9	93.9
100%		95.0	93.9	93.9	93.9
25%		0.48	0.49	0.45	0.42
Power Factor	50%	0.73	0.74	0.71	0.68
Fower Factor	75%	0.82	0.83	0.81	0.79
	100%	0.85	0.86	0.85	0.84

Non drive end Foundation loads **Drive** end

Bearing type 6314 C3 6212 Z C3 Max. traction : 1243 lb Sealing Without Without Max. compression : 2028 lb

> Bearing Seal Bearing Seal

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

Notes

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.

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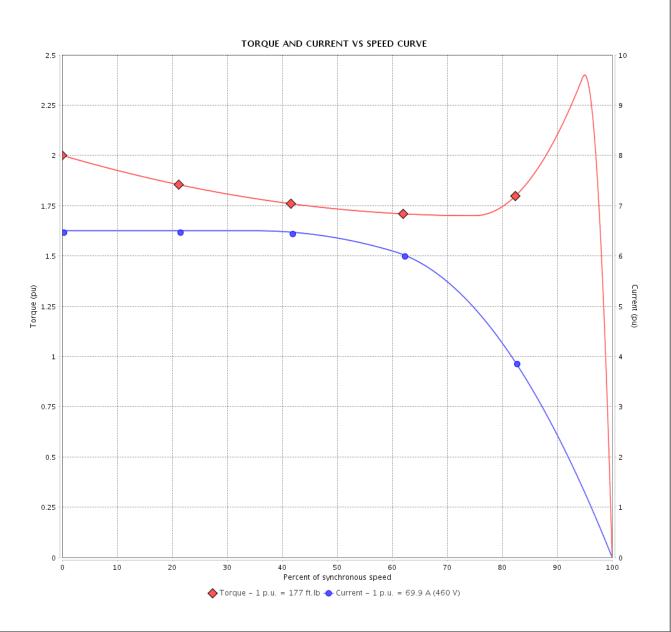
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14270886

Catalog #: 06018OT3G364T-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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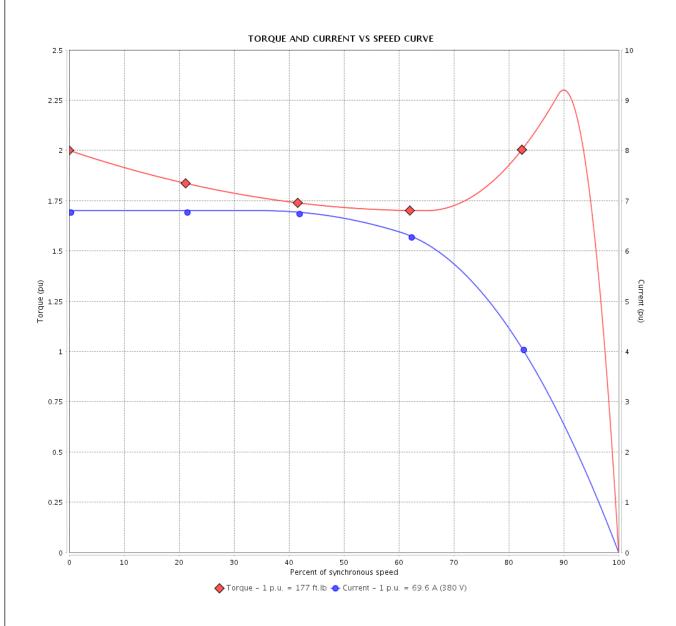
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14270886

Catalog #: 06018OT3G364T-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) Insulation class Rated torque : 177 ft.lb : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 80 K : B Rated speed : 1480 rpm Design

Locked rotor time : 32s (cold) 18s (hot)

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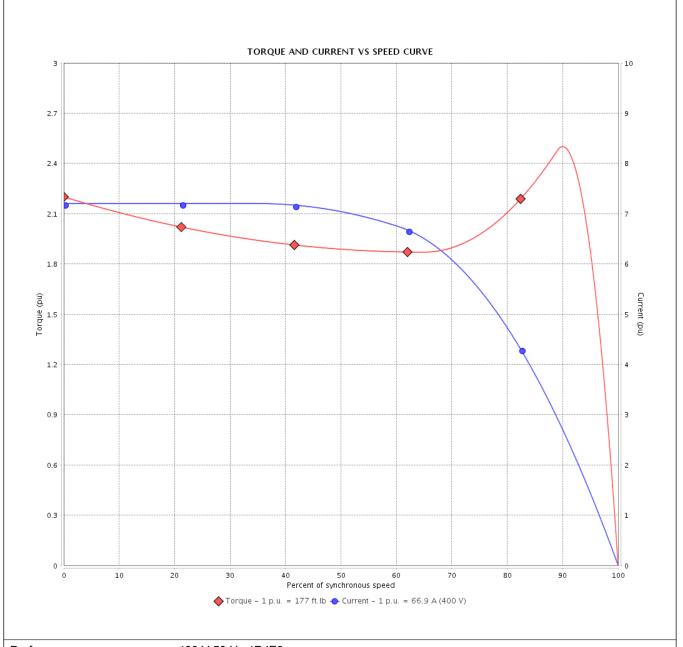
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14270886

Catalog #: 06018OT3G364T-W40



Performance : 400 V 50 Hz 4P IE3 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 Locked rotor torque : 220 % Service factor : 1.00 : 80 K

Breakdown torque : 250 % Temperature rise : 80 Rated speed : 1480 rpm Design : B

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

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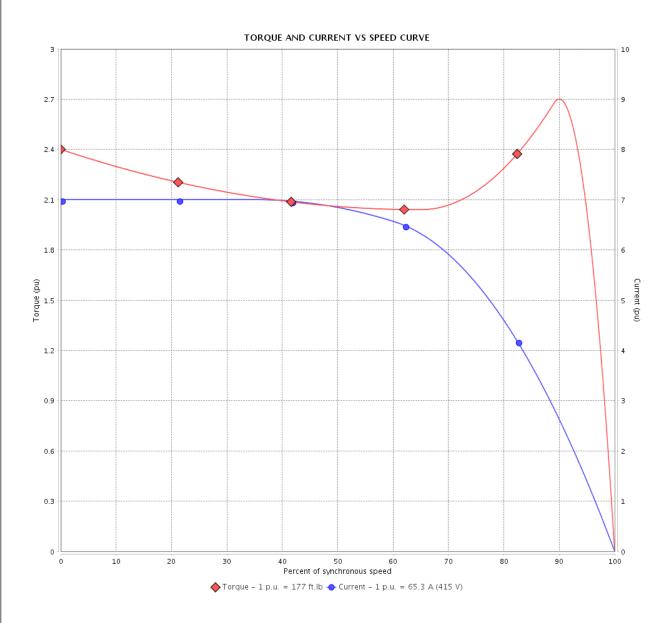


Customer

Product line : W40 NEMA Premium Efficiency

Product code: 14270886

Catalog #: 06018OT3G364T-W40



Performance	: 415 V 50 Hz 4P IE3			
Rated current	: 65.3 A	Moment of inertia (J)	: 15.6 sq.ft.lb	
LRC	: 7.0	Duty cycle	: Cont.(S1)	
Rated torque	: 177 ft.lb	Insulation class	: F	
Locked rotor torque	: 240 %	Service factor	: 1.00	
Breakdown torque	: 270 %	Temperature rise	: 80 K	
Rated speed	: 1485 rpm	Design	: B	
Locked rotor time	: 28s (cold) 16s (hot)			

LOCKEU TOLOT LITTLE	. 20	os (cola) Tos (Hot)			
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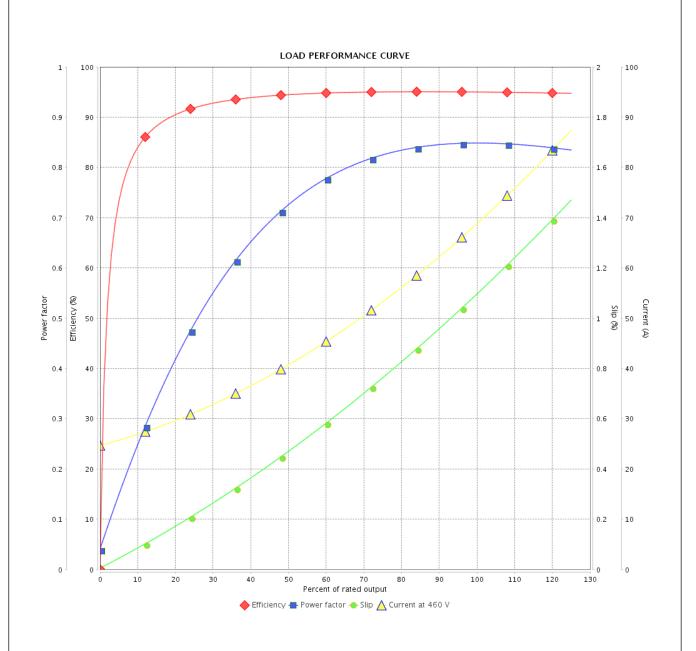
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Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14270886

Catalog #: 06018OT3G364T-W40



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

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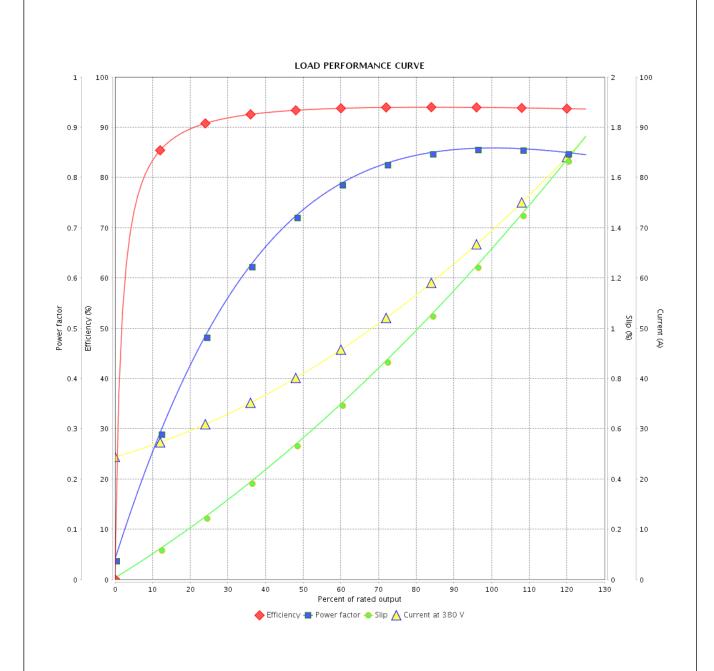
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Three-Phase

Product code: 14270886

Catalog #: 06018OT3G364T-W40

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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) : 177 ft.lb Insulation class : F Rated torque Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by Checked by Revision Page

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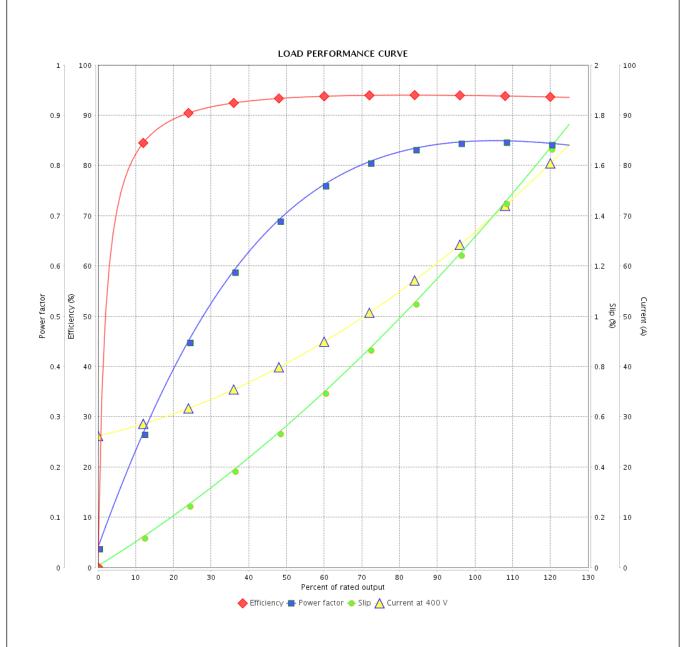
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Three-Phase

Product code: 14270886

Catalog #: 06018OT3G364T-W40



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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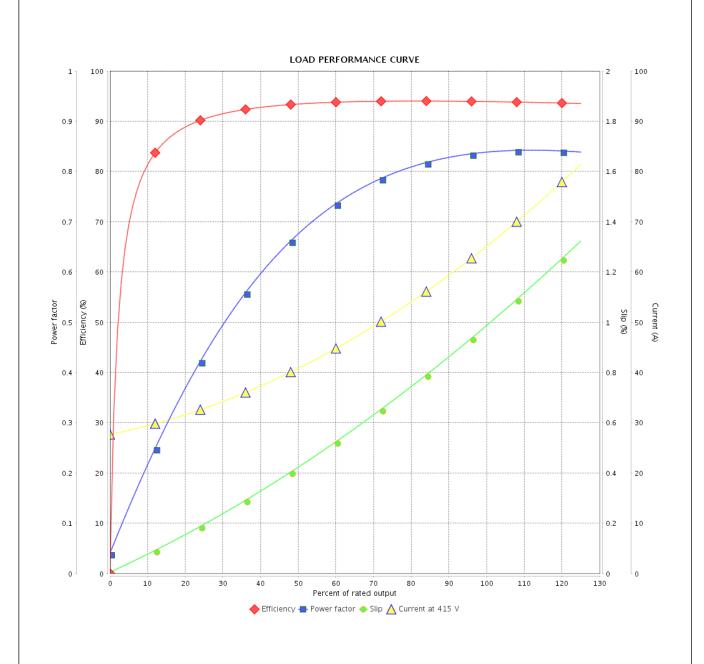
Customer

Product line : W40 NEMA Premium Efficiency Product code : 14270886

Three-Phase

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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 c Service fact Temperatur Design	lass	: 15.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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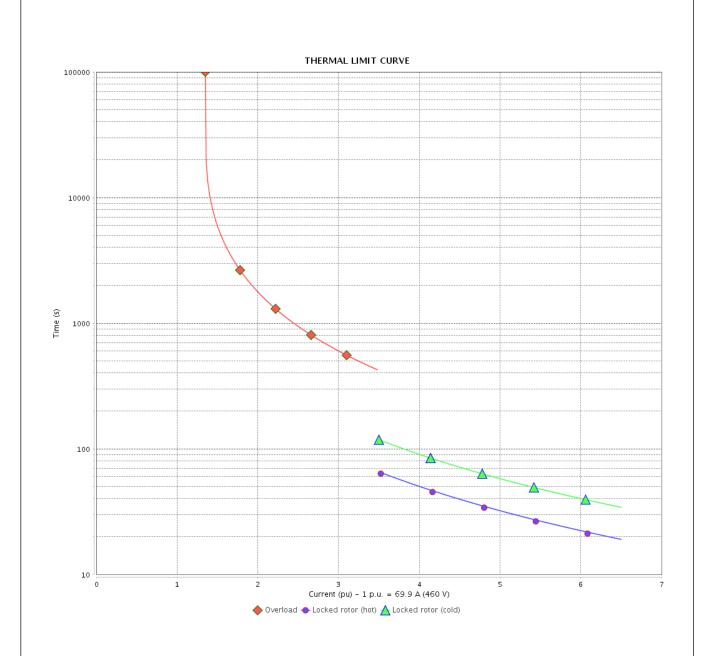


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Product line		N40 NEMA Premium Efficionree-Phase	ency I	Product code :	14270886	
	!!	ilee i ilaee	(Catalog # :	06018OT3G3	64T-W40
Performance		60 V 60 Hz 4P		************	45.0 6.11	
Rated current LRC	: 69 : 6.	9.9 A 5	Moment of Duty cycle	f inertia (J)	: 15.6 sq.ft.lb : Cont.(S1)	
Rated torque		77 ft.lb	Insulation	class	: F	
Locked rotor torq Breakdown torqu		00 % 40 %	Service far Temperatu		: 1.25 : 80 K	
Rated speed		780 rpm	Design		: B	
Heating constant						
Cooling constant		01 0				
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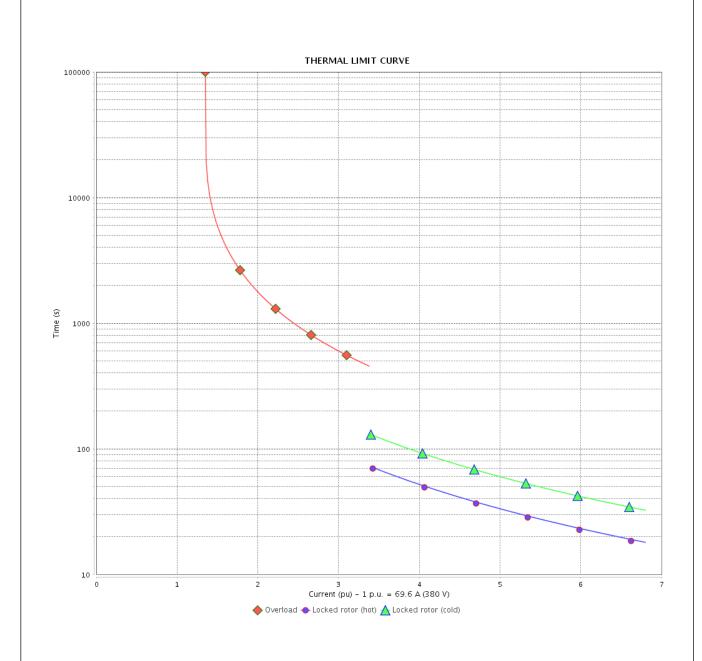


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Product line	: \ TT	W40 NEMA Premium Efficie hree-Phase		Product code :	14270886 06018OT3G3	64T-W40
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 69 : 6. : 17 que : 20 ue : 22	80 V 50 Hz 4P IE3 9.6 A 8 77 ft.lb 00 % 29 % 480 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class ctor	: 15.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant Rev.	t	Changes Summary		Performed	Checked	Date
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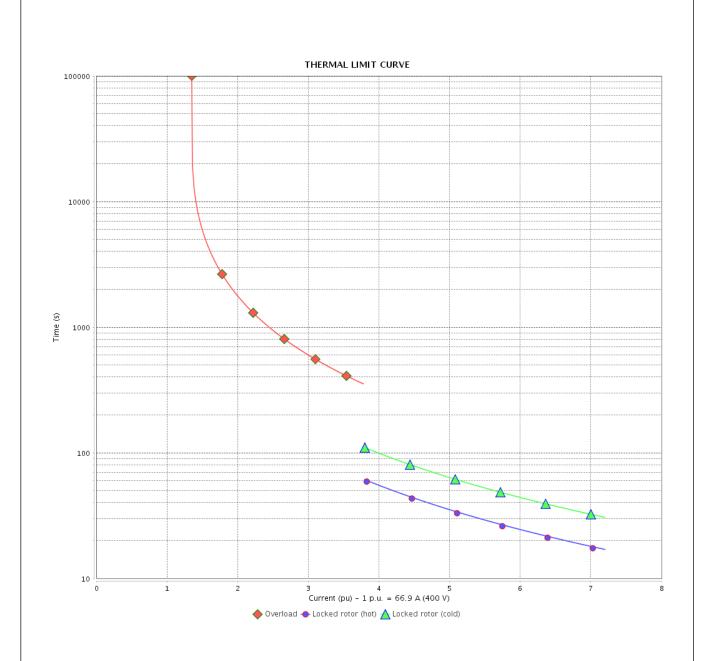


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Product line	: W40 NEMA Premium Efficie Three-Phase	ncy Product code :	14270886	
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Performance	: 400 V 50 Hz 4P IE3 : 66.9 A	Moment of inertic (!)	· 15 6 00 # lb	
Rated current LRC	: 66.9 A : 7.2	Moment of inertia (J) Duty cycle	: 15.6 sq.ft.lb : Cont.(S1)	
Rated torque	: 177 ft.lb	Insulation class	: F	
Locked rotor torque Breakdown torque	: 220 % : 250 %	Service factor Temperature rise	: 1.00 : 80 K	
Rated speed	: 1480 rpm	Design	: B	
Heating constant				
Cooling constant				
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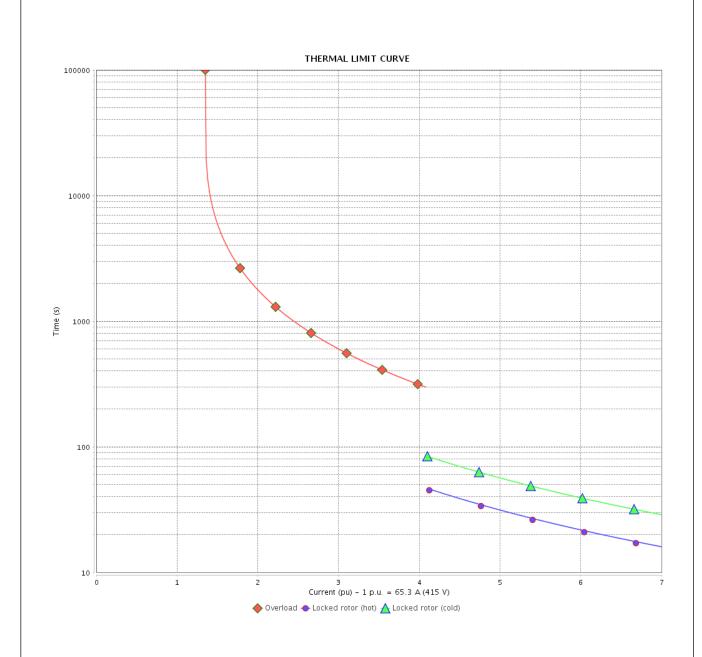


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Customer	:					
Product line	: \ TI	N40 NEMA Premium Efficie nree-Phase		Product code :	14270886	0.7.14.0
			(Catalog # :	06018OT3G3	64T-W40
Performance	. 1	15 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 65 : 7. : 17 : 22 : 27	5.3 A	Moment or Duty cycle Insulation Service far Temperatu Design	class ctor	: 15.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
		•				
Heating constant Cooling constant						
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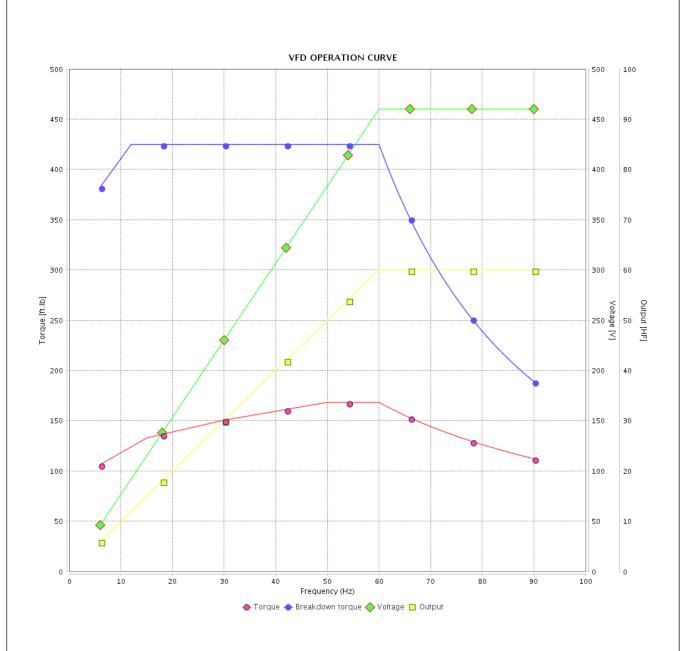
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14270886

Catalog #: 06018OT3G364T-W40



Performance	: 40	460 V 60 Hz 4P					
Rated current	current : 69.9 A		Moment of	Moment of inertia (J)			
LRC	: 6.	.5			Duty cycle : Cont.(S1)		
Rated torque			class	: F			
Locked rotor torque : 200 %		Service fa	actor	: 1.25			
·		40 %	Temperat	Temperature rise			
Rated speed	: 17	780 rpm	Design	Design			
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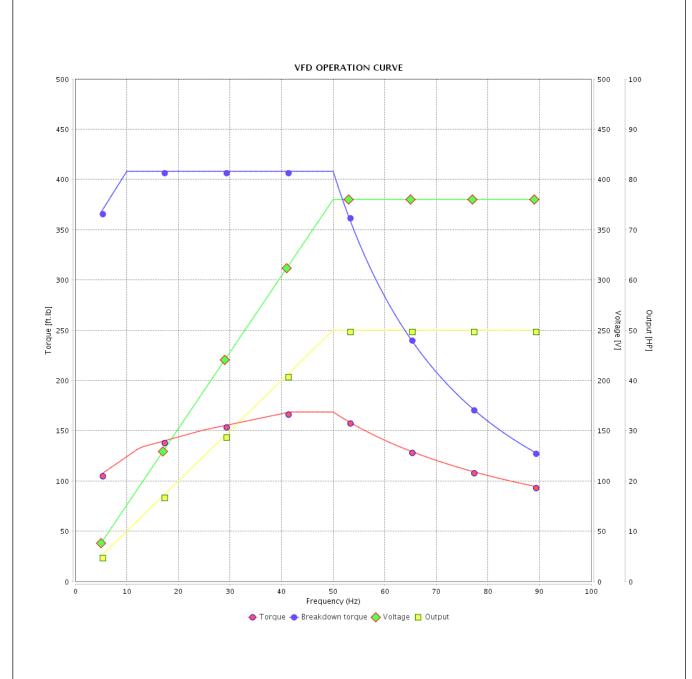
Customer

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Product code : 14270886

Catalog #:



Performance	::	: 380 V 50 Hz 4P IE3				
Rated current :		69.6 A	Moment of	Moment of inertia (J)		
LRC		6.8	Duty cycle	;	: Cont.(S1)	
Rated torque		177 ft.lb			: F	
Locked rotor torque		200 %	Service fa	ctor	: 1.00	
Breakdown torque		229 %	Temperati	Temperature rise		
Rated speed	: '	1480 rpm	rpm Design		: B	
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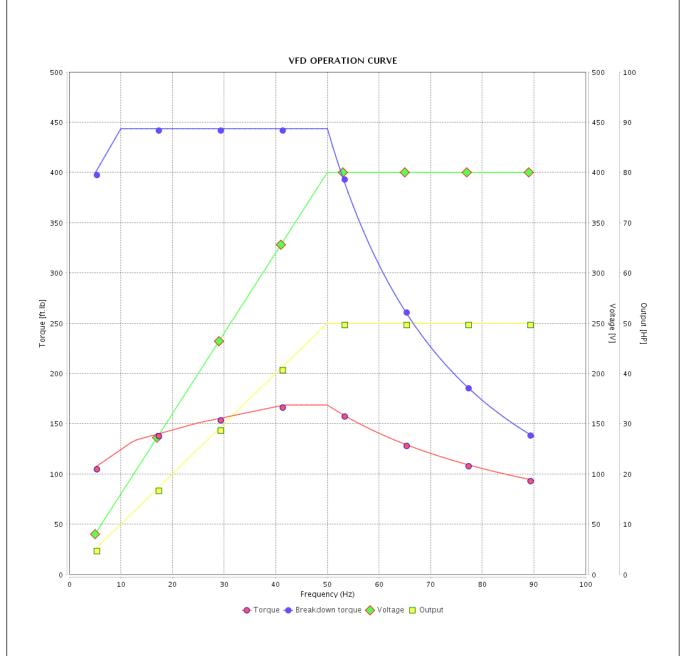
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Three-Phase

Product code: 14270886

Catalog #: 06018OT3G364T-W40

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Performance	: 400 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 66.9 A : 7.2 : 177 ft.lb : 220 % : 250 % : 1480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 15.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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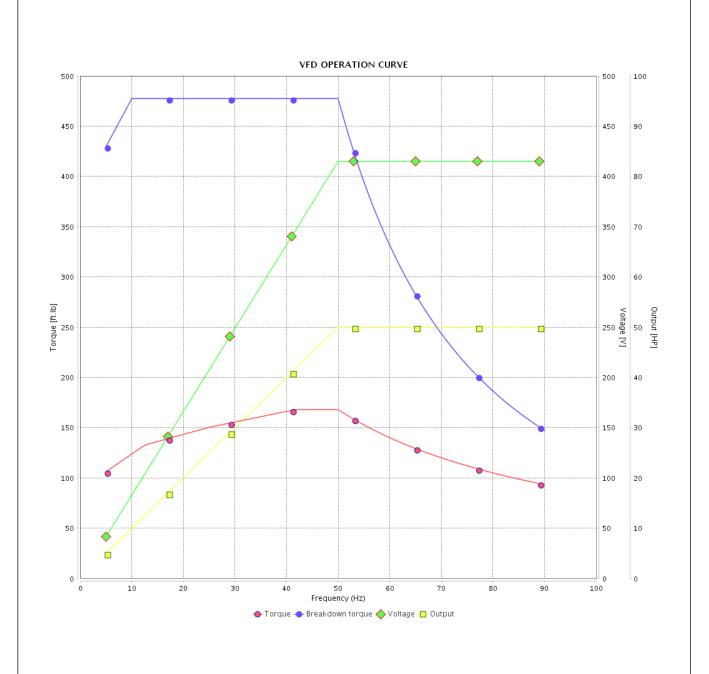
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Catalog #: 06018OT3G364T-W40

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Performance	: 415 V 50 Hz 4P IE3				
Rated current	: 65.3 A	: 65.3 A Moment of inertia (J) : 7.0 Duty cycle : 177 ft.lb Insulation class : 240 % Service factor		: 15.6 sq.ft.lb	
LRC	: 7.0			: Cont.(S1)	
Rated torque	: 177 ft.lb			: F	
Locked rotor torque	: 240 %			: 1.00	
Breakdown torque	: 270 %	Temperati	Temperature rise		
Rated speed	: 1485 rpm	Design		: B	
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