### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency

Product code:

14272483

Three-Phase

Catalog #: 04012OT3E364TC-W40

Frame : 364/5TC

Insulation class

Duty cycle

Altitude

Ambient temperature

: Cont.(S1) : -20°C to +40°C

: 1000 m.a.s.l.

Cooling method : IC01 - ODP Mounting : F-1

Rotation<sup>1</sup> : Both (CW and CCW)

Starting method : Direct On Line

Approx. weight<sup>3</sup> : 771 lb Moment of inertia (J) : 21.8 sq.ft.lb

: IP23 Protection degree

Design		: B		. ,	·
Output [HP]		40	30	30	30
Poles		6	6	6	6
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		94.2/47.1	42.7	41.0	40.0
L. R. Amperes [A]		603/301	295	287	320
LRC [A]		6.4x(Code G)	6.9x(Code H)	7.0x(Code H)	8.0x(Code J)
No load current [A	]	31.6/15.8	15.6	16.7	17.6
Rated speed [RPN	<b>/</b> 1]	1185	985	985	985
Slip [%]		1.25	1.50	1.50	1.50
Rated torque [ft.lb]		177	160	160	160
Locked rotor torque [%]		200	200	229	250
Breakdown torque [%]		229	260	290	310
Service factor		1.25	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		39s (cold) 22s (hot)	45s (cold) 25s (hot)	50s (cold) 28s (hot)	41s (cold) 23s (hot)
Noise level <sup>2</sup>		68.0 dB(A)			
	25%	93.5	91.7	91.7	91.7
Efficiency (%)	50%	93.6	91.8	91.8	91.8
Lilloleticy (70)	75%	94.1	92.2	92.2	92.2
	100%	94.1	92.2	92.2	92.2
	25%	0.49	0.47	0.43	0.41
Power Factor	50%	0.74	0.72	0.69	0.66
1 OWELL ACTOL	75%	0.82	0.82	0.79	0.78
	100%	0.85	0.85	0.84	0.83

Drive end Non drive end Foundation loads

Bearing type 6314 C3 Without Sealing Without

6212 Z C3 Max. traction

Bearing Seal Bearing Seal

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

: 1313 lb Max. compression : 2085 lb

Notes

USABLE @208V 104A SF 1.15 SFA 120A

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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#### Three Phase Induction Motor - Squirrel Cage



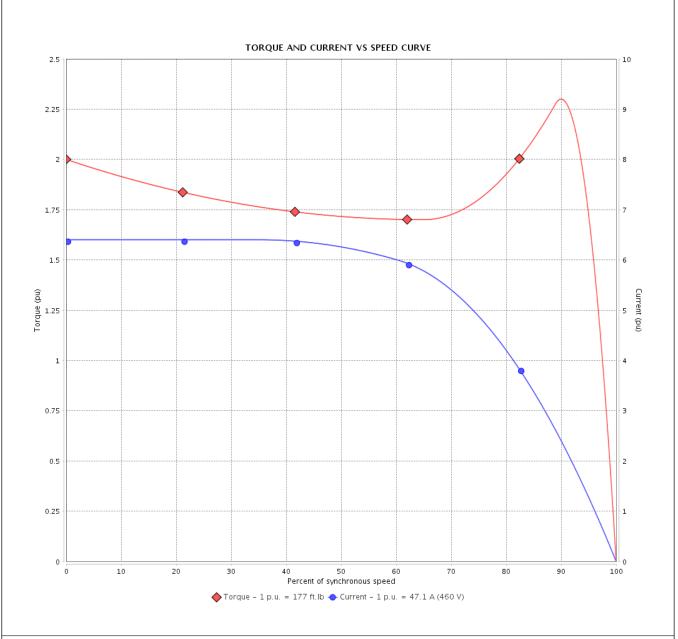
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272483

Catalog #: 04012OT3E364TC-W40



Performance : 230/460 V 60 Hz 6P Rated current : 94.2/47.1 A Moment of inertia (J) : 21.8 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 177 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1185 rpm Design : B

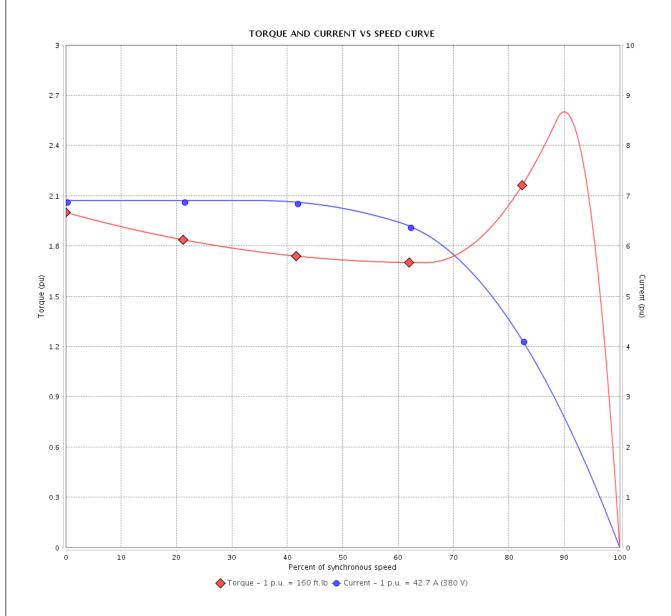
Locked rotor time : 39s (cold) 22s (hot)

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#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14272483 Three-Phase Catalog #: 04012OT3E364TC-W40



Performance : 380 V 50 Hz 6P IE3 Rated current : 42.7 A Moment of inertia (J) : 21.8 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) : 160 ft.lb Insulation class : F Rated torque : 200 % : 1.00 Locked rotor torque Service factor : 80 K Breakdown torque : 260 % Temperature rise : B Rated speed : 985 rpm Design Locked rotor time : 45s (cold) 25s (hot)

LOCKCU TOTOL TITLE		33 (cold) 233 (flot)			
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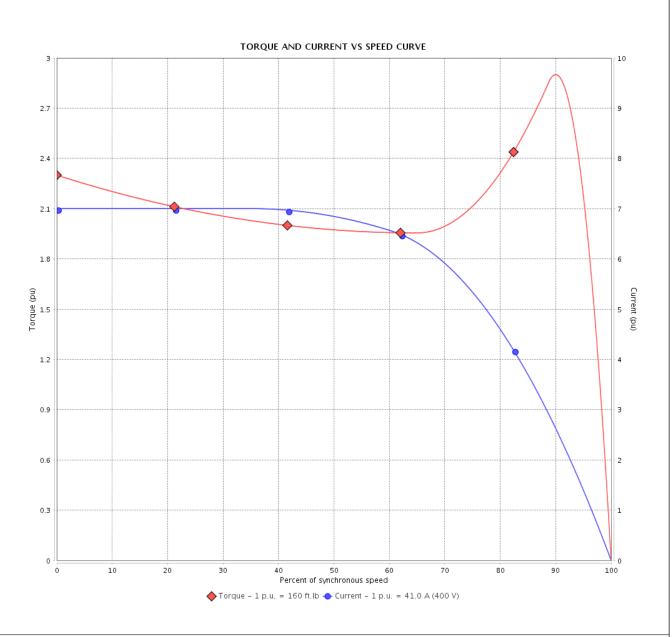
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272483

Catalog #: 04012OT3E364TC-W40



Performance	: 400 V 50 Hz 6P IE3		
Rated current	: 41.0 A	Moment of inertia (J)	: 21.8 sq.ft.lb
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 160 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 985 rpm	Design	: B
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Locked rotor time : 50s (cold) 28s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : W40 NEMA Premium Efficiency Product code: 14272483 Three-Phase Catalog #: 04012OT3E364TC-W40 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Current Torque (pu) 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 160 ft.lb ◆ Current - 1 p.u. = 40.0 A (415 V) Performance : 415 V 50 Hz 6P IE3 Rated current : 40.0 A Moment of inertia (J) : 21.8 sq.ft.lb **LRC** : 8.0 Duty cycle : Cont.(S1) : 160 ft.lb Insulation class Rated torque : F : 250 % Locked rotor torque Service factor : 1.00 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 985 rpm Design : B Locked rotor time : 41s (cold) 23s (hot) Date Rev. Performed Checked **Changes Summary** Performed by

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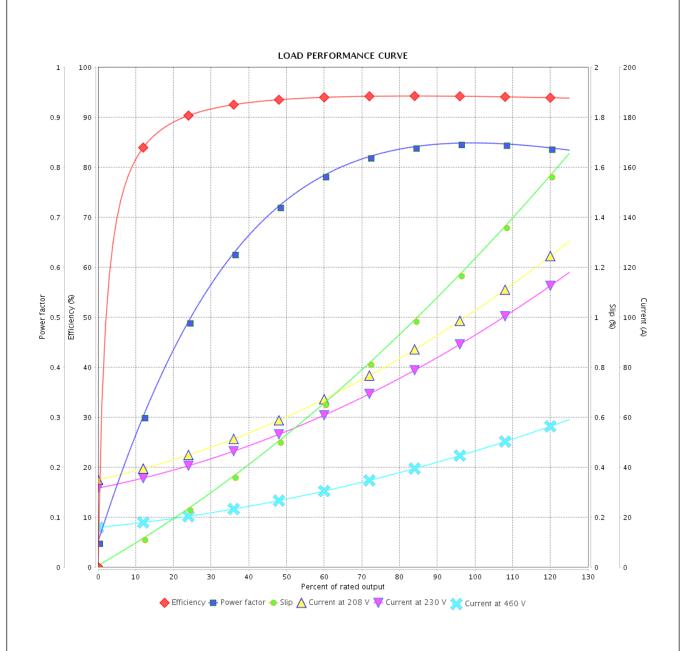
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272483

Catalog #: 04012OT3E364TC-W40

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Performance	: 230/460 V 60 Hz 6P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 94.2/47.1 A : 6.4 : 177 ft.lb : 200 % : 229 % : 1185 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 21.8 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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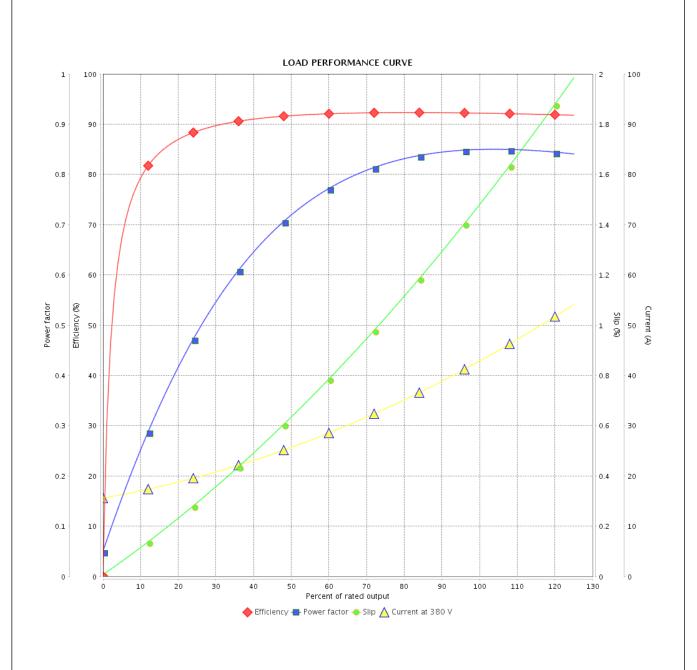
Customer

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Catalog #: 04012OT3E364TC-W40

14272483



			-1			
Performance		380 V 50 Hz 6P IE3	<del>-</del>			
Rated current	:	42.7 A	Moment o	f inertia (J)	: 21.8 sq.ft.lb	
LRC	:	6.9	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	:	160 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	200 %	Service fa	ctor	: 1.00	
Breakdown torque	:	260 %	Temperati	Temperature rise		
Rated speed	:	: 985 rpm			: B	
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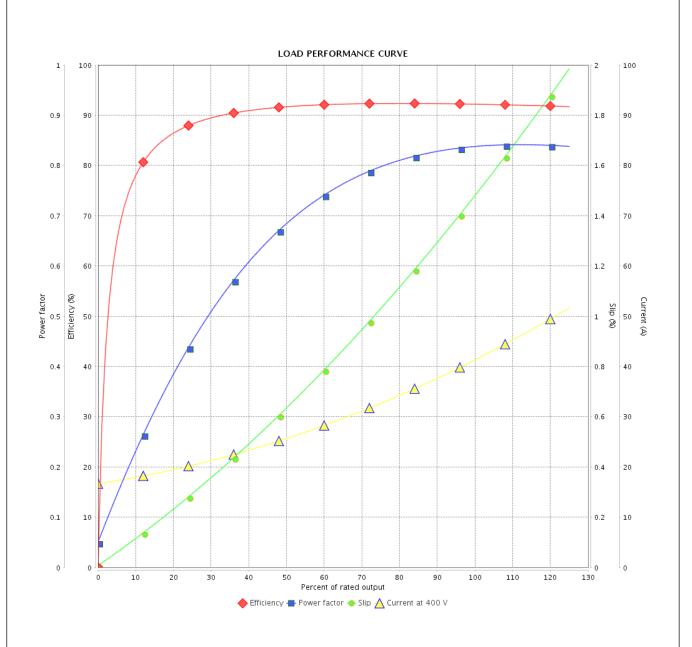
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272483

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Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 41.0 A : 7.0 : 160 ft.lb : 229 % : 290 % : 985 rpm	Moment of iner Duty cycle Insulation class Service factor Temperature ris Design	8	: 21.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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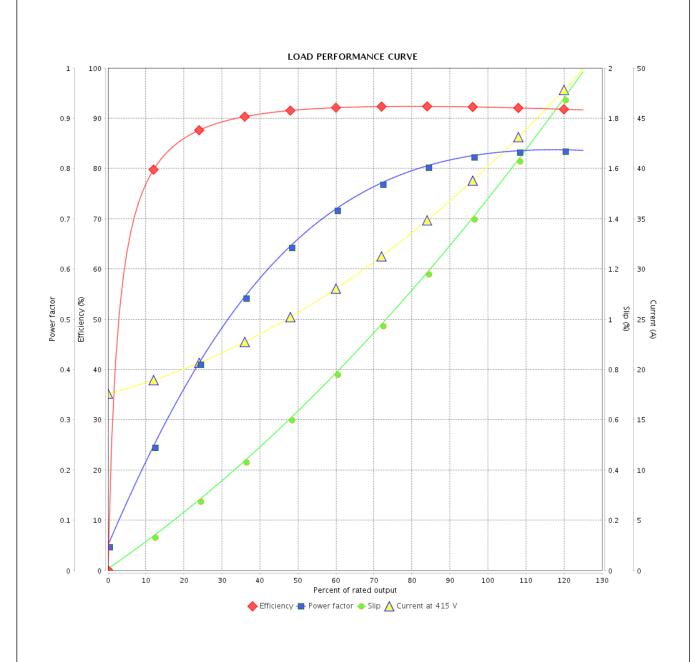
Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

roduct code : 14272483

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Performance	: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 40.0 A : 8.0 : 160 ft.lb : 250 % : 310 % : 985 rpm	Moment of in Duty cycle Insulation cla Service facto Temperature Design	iss r	: 21.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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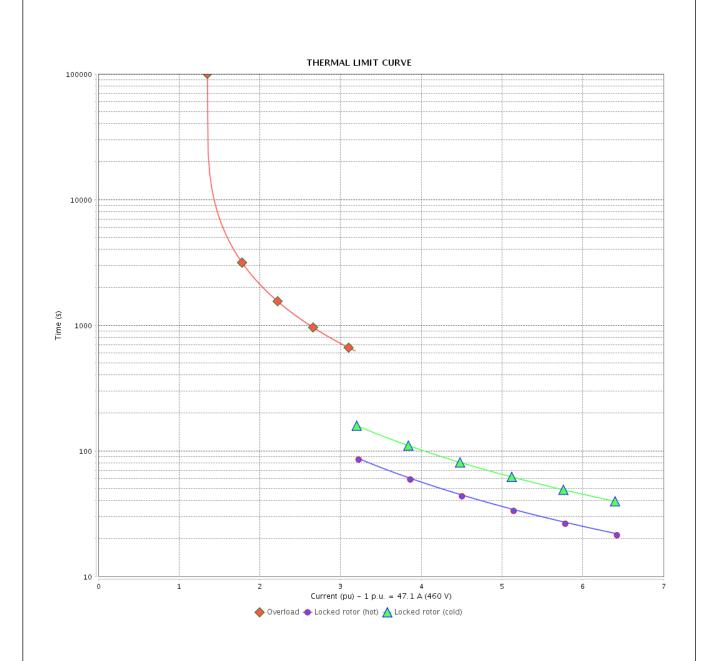


Customer		:				
Product line		: W40 NEMA Premium Efficie Three-Phase		Product code : Catalog # :	14272483 04012OT3E36	64TC-W40
Dawfarmana		230/460 V 60 Hz 6P				
Performance		94.2/47.1 A	Momento	finartia (I)	· 21 9 og ft lb	
Rated current LRC	:	6.4	Duty cycle		: 21.8 sq.ft.lb : Cont.(S1)	
Rated torque		177 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		200 % 229 %	Service fa Temperatu		: 1.25 : 80 K	
Rated speed		1185 rpm	Design		: B	
Heating constant						
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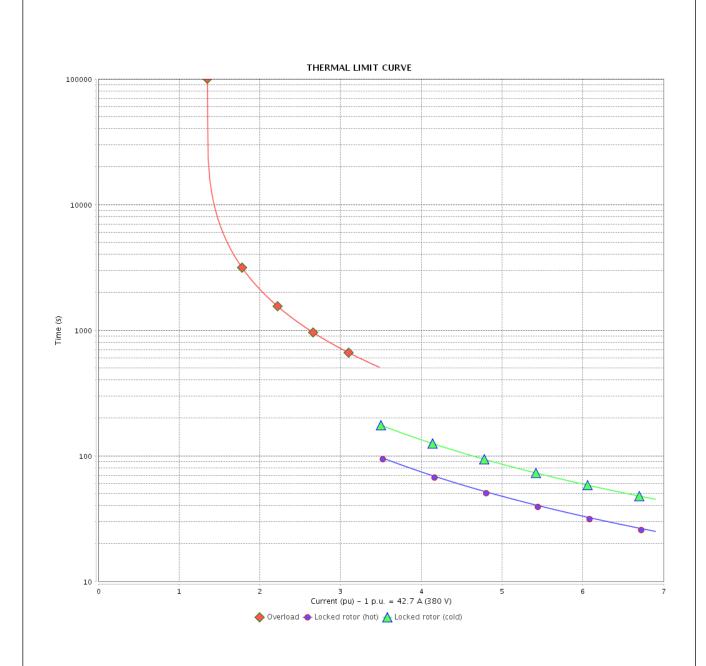


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Product line		N40 NEMA Premium Efficie	ency I	Product code :	14272483	
		nree-Phase		Catalog # :	04012OT3E3	64TC-\W40
				Dataioy #:	04012O13E3	04 I C-VV4U
Performance		30 V 50 Hz 6P IE3	Momonie	finantic (I)	. 04.0 - 4.11-	
Rated current LRC	: 6.		Moment of Duty cycle		: 21.8 sq.ft.lb : Cont.(S1)	
Rated torque		60 ft.lb 00 %	Insulation Service fac	class	: F : 1.00	
Locked rotor torque Breakdown torque		50 %	Temperatu		: 1.00 : 80 K	
Rated speed		35 rpm	Design		: B	
Heating constant						
Cooling constant			r			
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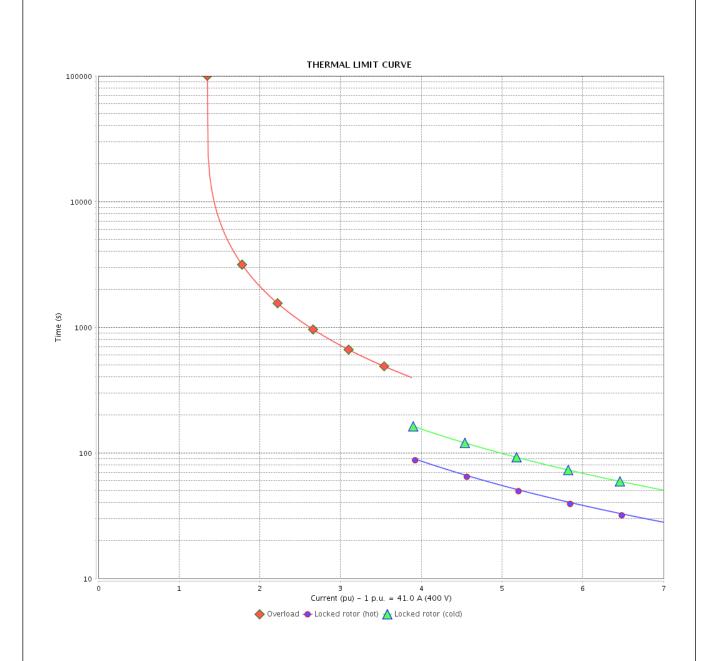


Customer	:					
Product line	: \ TI	W40 NEMA Premium Efficion Nree-Phase		Product code :	14272483	
			(	Catalog # :	04012OT3E3	64TC-W40
Performance	: 40	00 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7. : 16 e : 22 : 29	1.0 A 0 60 ft.lb 29 % 90 % 35 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 21.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant						
Cooling constant Rev.		Changes Summary	T	Performed	Checked	Date
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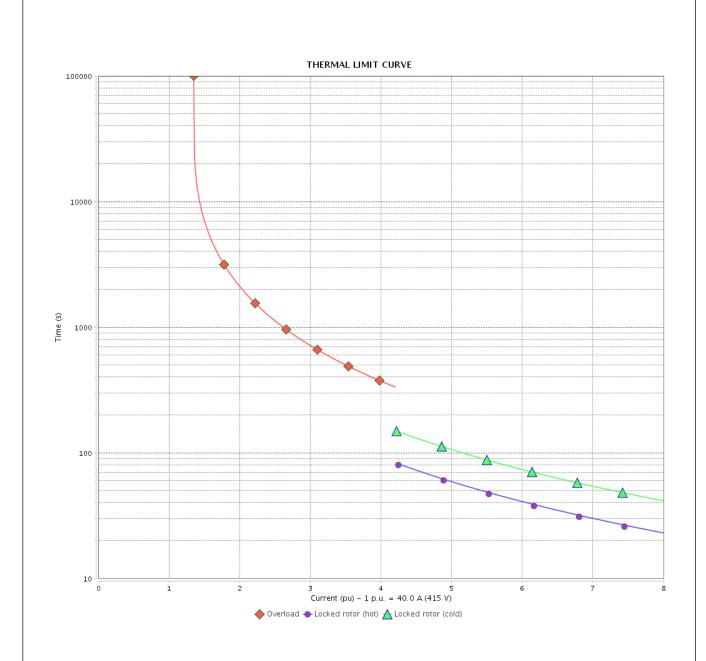


Customer	:	:				
Product line	<u>:</u>	W40 NEMA Premium Efficie Three-Phase		Product code :	14272483 04012OT3E36	64TC-W40
Performance	:4	415 V 50 Hz 6P IE3				
Rated current LRC		40.0 A 8.0	Duty cycle		: 21.8 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torc		160 ft.lb 250 %	Insulation Service fa	class	: F : 1.00	
Breakdown torqu	ie :3	310 %	Temperatu		: 80 K	
Rated speed		985 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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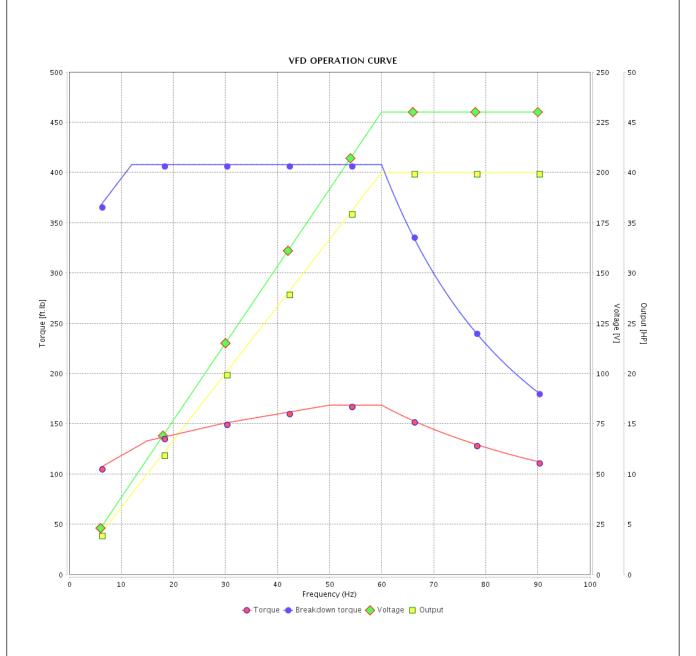
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272483

Catalog #: 04012OT3E364TC-W40

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Performance		: 230/460 V 60 Hz 6I	Ρ			
Rated current LRC Rated torque		: 94.2/47.1 A : 6.4 : 177 ft.lb	Duty cycle Insulation	Moment of inertia (J) Duty cycle Insulation class		
Locked rotor torque Breakdown torque Rated speed		: 200 % : 229 % : 1185 rpm		Service factor Temperature rise Design		
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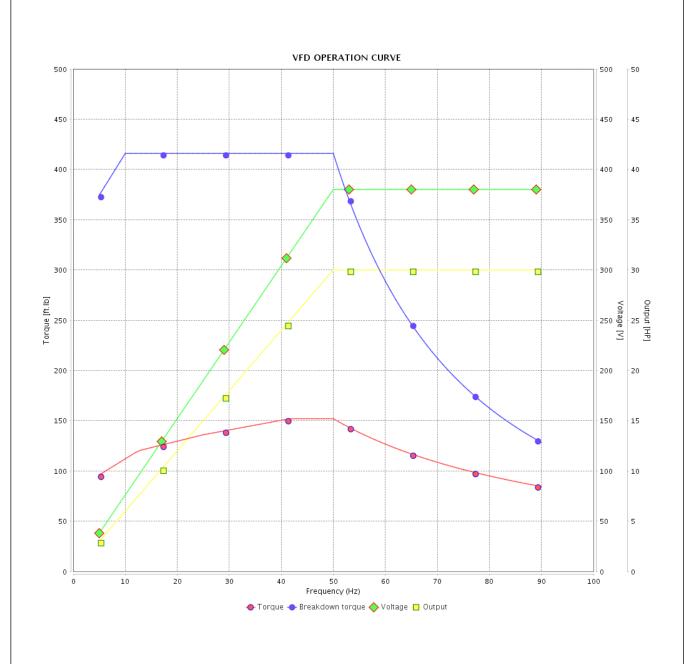
Customer

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Catalog #: 04012OT3E364TC-W40

14272483



Performance	: 3	880 V 50 Hz 6P IE3	3			
Rated current :		2.7 A	Moment of	Moment of inertia (J)		
LRC	: 6	6.9	Duty cycle	Э	: Cont.(S1)	
Rated torque	: 1	60 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	200 %	Service fa	actor	: 1.00	
Breakdown torque		260 %	Temperat	Temperature rise		
Rated speed	: 9	985 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



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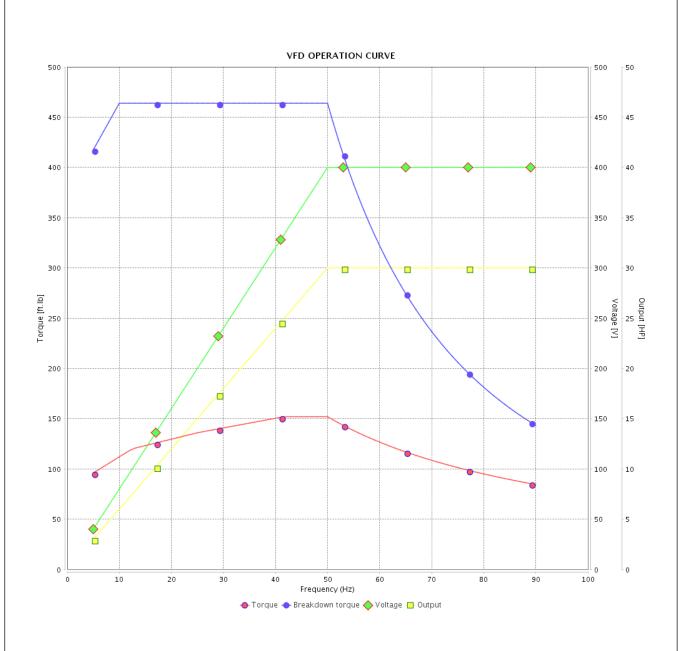
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272483

Catalog #: 04012OT3E364TC-W40

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Performance	: 40	00 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		1.0 A 0 60 ft.lb 29 % 90 % 85 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		
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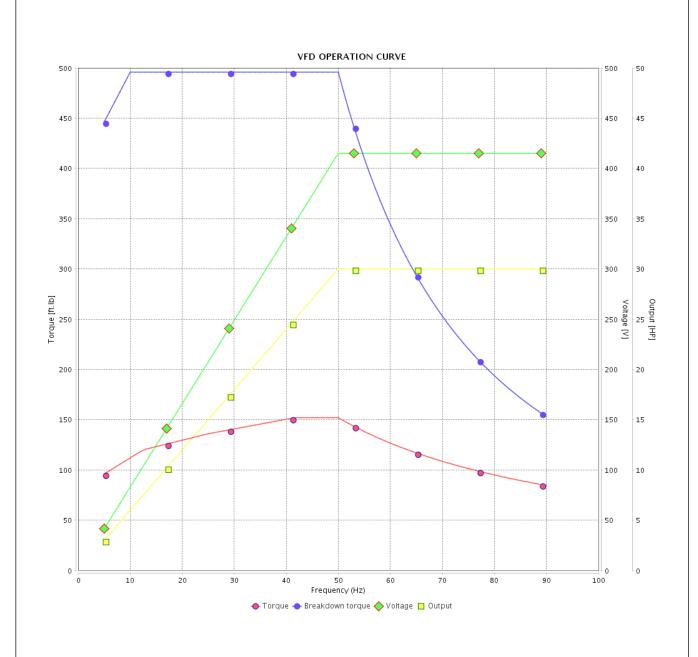
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Performance	: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 40.0 A : 8.0 : 160 ft.lb : 250 % : 310 % : 985 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 21.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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