DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Product code:

Three-Phase

Catalog #: 04012OT3E364TC-W40

14272483

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

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

: -20°C to +40°C Ambient temperature Starting method : Direct On Line

: 1000 m.a.s.l. Approx. weight³ : 772 lb Altitude Protection degree : IP23 Moment of inertia (J) : 21.8 sq.ft.lb

Protection degree		: IP23	Moment of Inc	Moment of Inertia (J) : 21.8 sq.π.ib			
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	/ 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	Breakdown torque [%]		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 ²		68.0 dB(A)					
	25%	93.5	91.7	91.7	91.7		
Efficiency (%)	50%	93.6	91.8	91.8	91.8		
Efficiency (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		
i ower i actor	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

6314 C3 Bearing type 6212 Z C3 Max. traction : 1313 lb Sealing Without Without Max. compression : 2085 lb

Bearing Seal Bearing Seal

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

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.

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2020			1 / 21	

Three Phase Induction Motor - Squirrel Cage



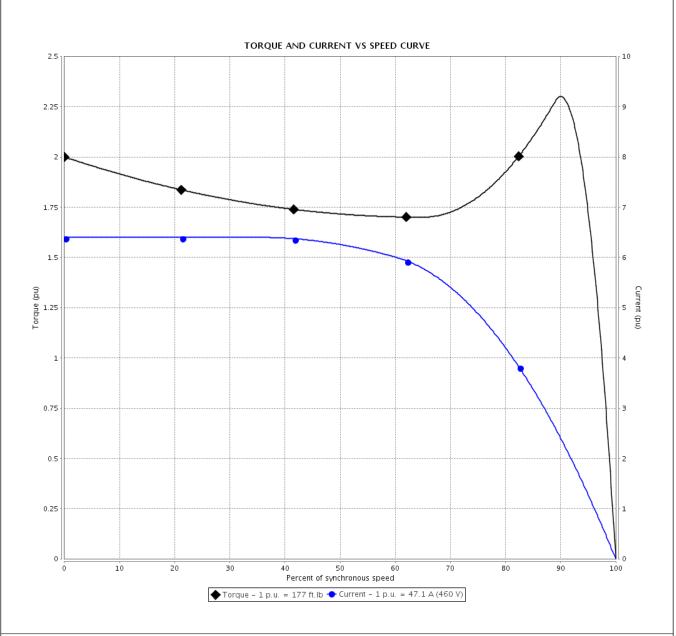
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272483

Catalog #: 04012OT3E364TC-W40



: 230/460 V 60 Hz 6P Performance 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 Service factor Locked rotor torque : 200 % : 1.25 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1185 rpm Design : B

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

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2020			2 / 21	

Three Phase Induction Motor - Squirrel Cage



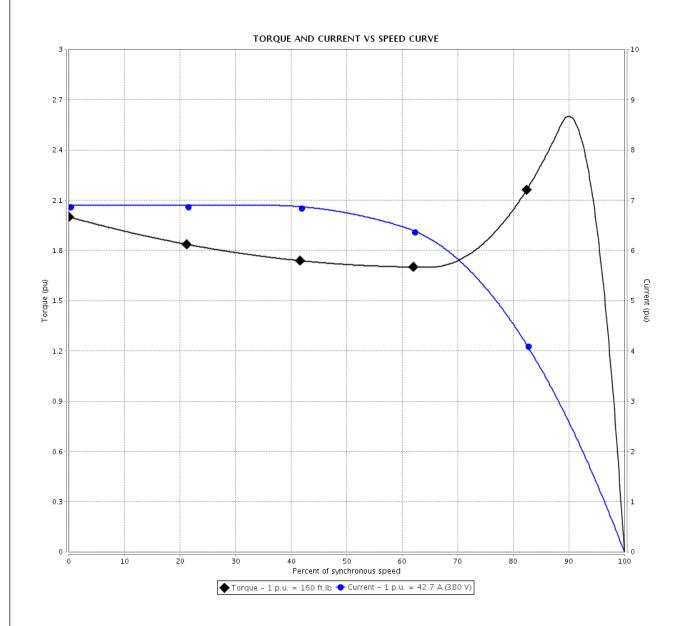
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272483

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) Insulation class : F Rated torque : 160 ft.lb : 200 % Locked rotor torque Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K : B Rated speed : 985 rpm Design

Locked rotor time : 45s (cold) 25s (hot)

		(00.0) =00 ()			
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2020			3 / 21	

Three Phase Induction Motor - Squirrel Cage



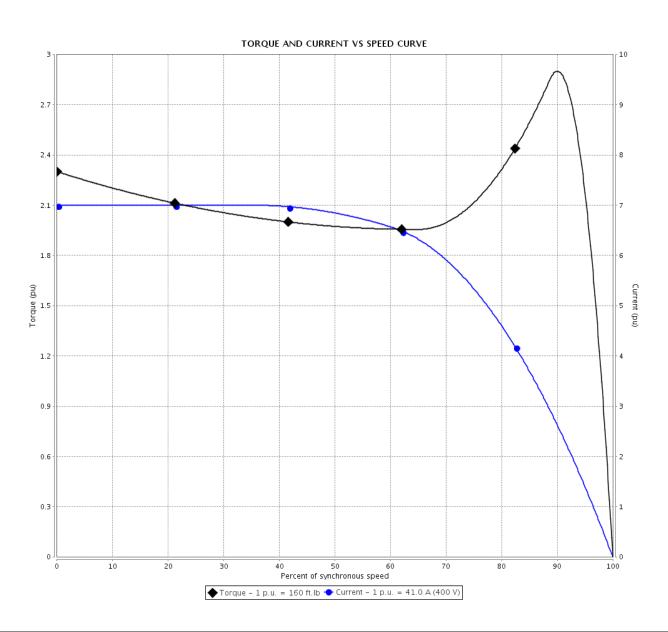
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272483

Catalog #: 04012OT3E364TC-W40



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

Locked rotor time : 50s (cold) 28s (hot)

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2020			4 / 21	

Three Phase Induction Motor - Squirrel Cage



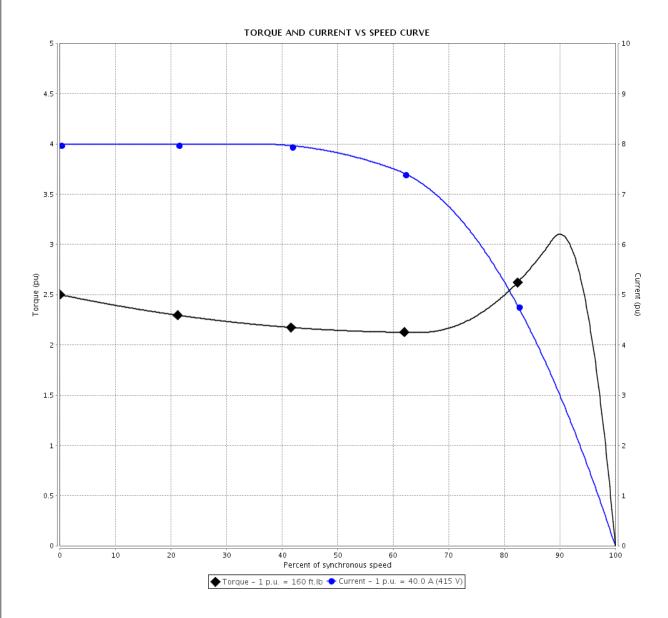
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272483

Catalog #: 04012OT3E364TC-W40



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)	
Rated torque	: 160 ft.lb	Insulation class	:F	
Locked rotor torque	: 250 %	Service factor	: 1.00	
Breakdown torque	: 310 %	Temperature rise	: 80 K	
Rated speed	: 985 rpm	Design	: B	
Locked rotor time	: 41s (cold) 23s (hot)			

Locked rotor time : 41s (cold) 23s (hot)

LOCKCU TOTOL TITLE		13 (COId) 203 (1101)			
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by		-		Page	Revision
Date	11/04/2020	1		5 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer :

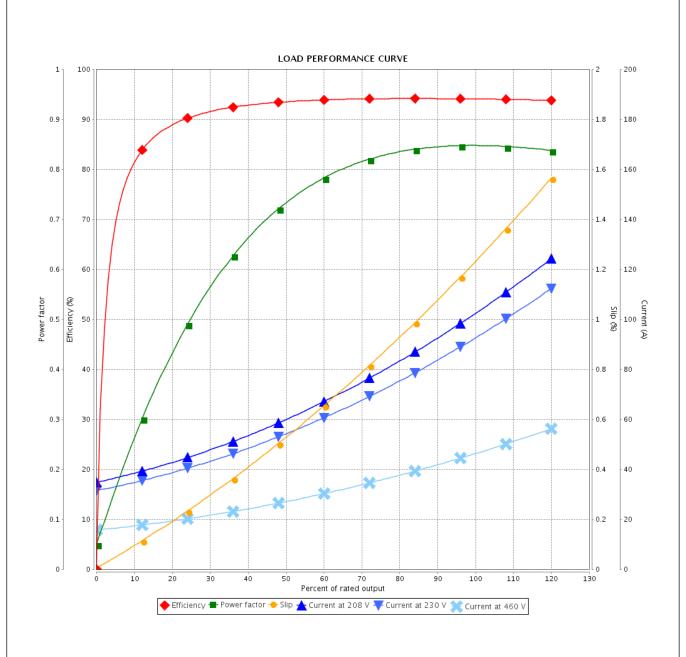
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272483

Catalog #: 04012OT3E364TC-W40

6/21



Performance	erformance : 230/460 V 60 Hz 6P				
Rated current	: 94.2/47.1 A	Moment of	of inertia (J)	: 21.8 sq.ft.lb	
LRC	: 6.4	Duty cycle	9	: Cont.(S1)	
Rated torque	: 177 ft.lb	Insulation	class	: F	
Locked rotor torque	: 200 %	Service fa	ictor	: 1.25	
Breakdown torque	: 229 %	Temperature rise Design		: 80 K	
Rated speed	: 1185 rpm			: B	
Rev.	Changes Summary	l	Performed	Checked	Date
Performed by					
Checked by				Page	Revision

11/04/2020

Date

Three Phase Induction Motor - Squirrel Cage



Customer

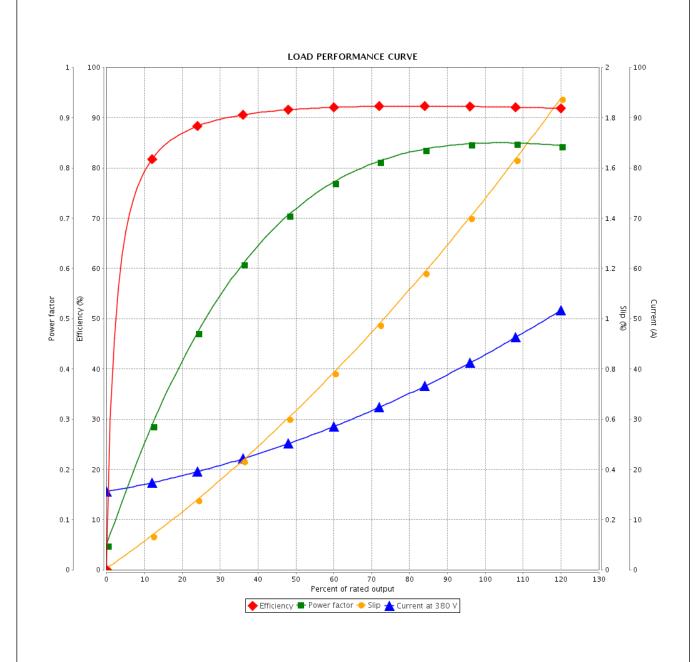
Product line : W40 NEMA Premium Efficiency Product

Three-Phase

Product code: 14272483

Catalog #: 04012OT3E364TC-W40

7/21



Performance	: 380 V 50 Hz 6P IE3				
Rated current	: 42.7 A	A Moment of inertia (J)		: 21.8 sq.ft.lb	
_RC	: 6.9	Duty cycle		: Cont.(S1)	
Rated torque	: 160 ft.lb	Insulation	class	:F	
Locked rotor torque	: 200 %	Service factor		: 1.00	
Breakdown torque	: 260 %	Temperature rise		: 80 K	
Rated speed	: 985 rpm	Design		: B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

11/04/2020

Date

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

11/04/2020

Product line : W40 NEMA Premium Efficiency

Three-Phase

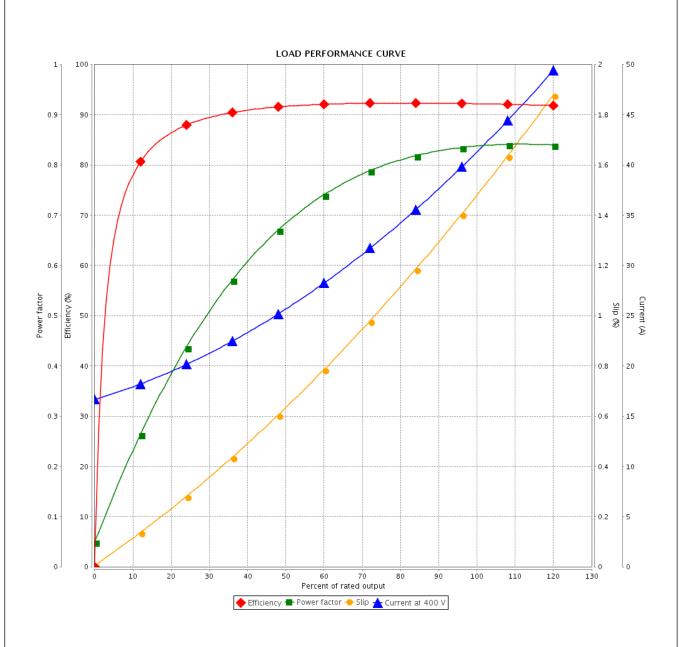
Product code: 14272483

Catalog #: 04012OT3E364TC-W40

Page

8 / 21

Revision



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 Duty cycle Insulation Service fa Temperate Design	class ctor	: 21.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary	"	Performed	Checked	Date
Performed by					

Three Phase Induction Motor - Squirrel Cage



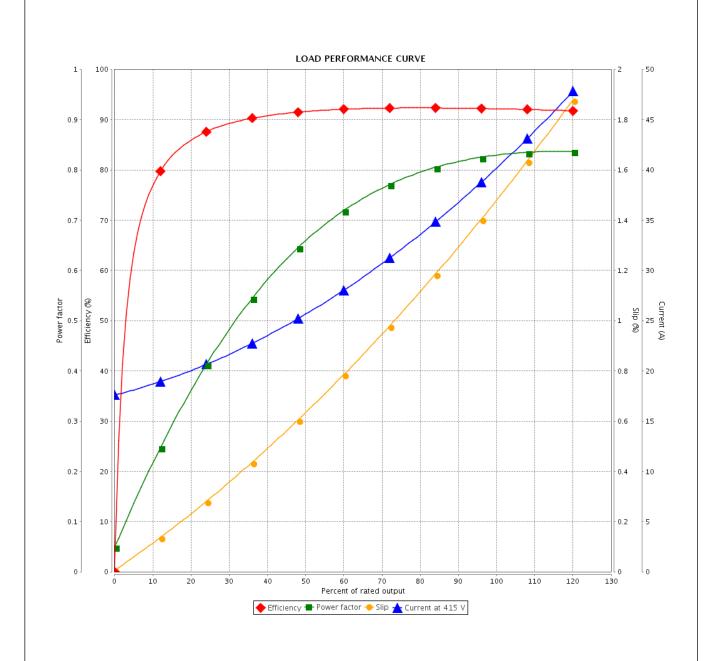
Customer

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

roduct code: 14272483

Catalog #: 04012OT3E364TC-W40



Performance	: 4	: 415 V 50 Hz 6P IE3				
Rated current	: 4	40.0 A	Moment o	f inertia (J)	: 21.8 sq.ft.lb	
LRC	: 8	3.0	Duty cycle	:	: Cont.(S1)	
Rated torque	: 1	160 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	250 %	Service fa	ctor	: 1.00	
Breakdown torque	: 3	310 %	Temperati	Temperature rise		
Rated speed		85 rpm Design		: B		
Rev.		Changes Summary	· · · · · · · · · · · · · · · · · · ·	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	11/04/2020				9 / 21	

Three Phase Induction Motor - Squirrel Cage

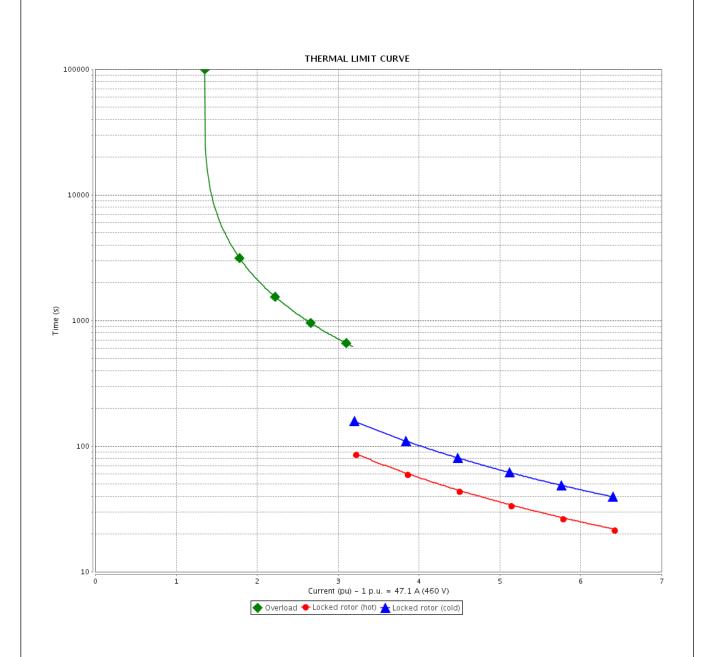


Customer	:					
Gustomer	•					
Product line	: \ Tr	N40 NEMA Premium Efficie nree-Phase	ency F	Product code :	14272483	
	"	ilee-Filase	(Catalog # :	04012OT3E36	64TC-W40
Performance		80/460 V 60 Hz 6P	Marsarit	linantie (I)	. 04 0 = - 6 11	
Rated current LRC	: 9 ² : 6.	I.2/47.1 A 4	Moment of Duty cycle	inertia (J)	: 21.8 sq.ft.lb : Cont.(S1)	
Rated torque	: 17	77 ft.lb	Insulation	class	: F	
Locked rotor torq		00 %	Service fac		: 1.25	
Breakdown torqu Rated speed		29 % 85 rpm	Temperatu Design	re rise	: 80 K : B	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	11/04/2020				10 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2020			11 / 21	

Three Phase Induction Motor - Squirrel Cage

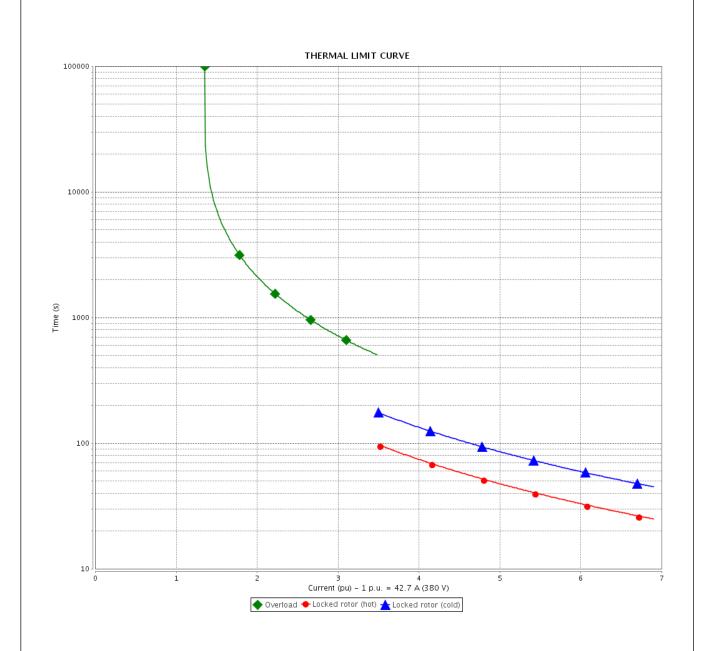


Customer		:				
Product line		: W40 NEMA Premium Efficie Three-Phase		Product code : Catalog # :	14272483 040120T3E36	64TC-W40
Performance	:	380 V 50 Hz 6P IE3				
Rated current LRC	:	42.7 A 6.9 160 ft.lb	Moment o Duty cycle Insulation		: 21.8 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord	que :	200 %	Service fa	ctor	: F : 1.00	
Breakdown torqu Rated speed		260 % 985 rpm	Temperatu Design	ıre rise	: 80 K : B	
Heating constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by					Dana	Dovisio-
Checked by	11/04/2020				Page 12 / 21	Revision

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2020			13 / 21	

Three Phase Induction Motor - Squirrel Cage

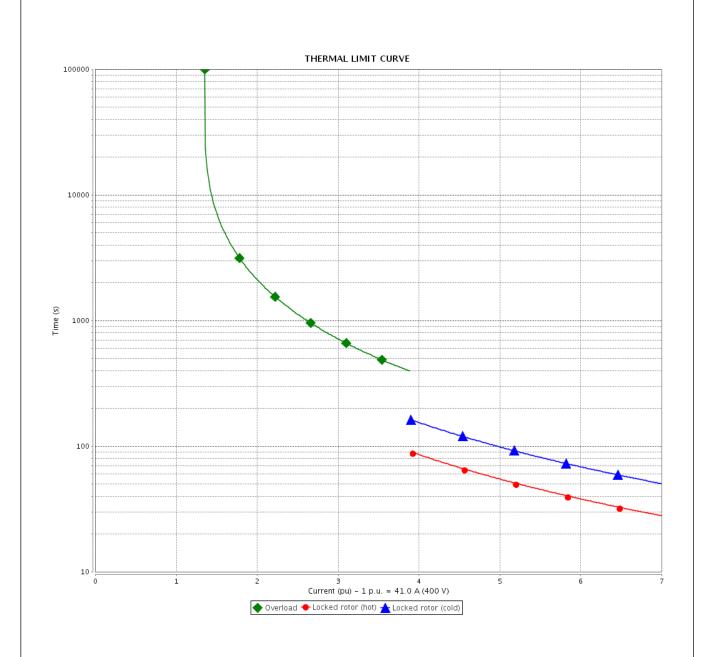


					
Customer	:				
Product line	: W40 NEMA Premium Efficie Three-Phase		uct code :	14272483	
		Cata	log # :	04012OT3E364	4TC-W40
Performance	: 400 V 50 Hz 6P IE3				
LRC Rated torque Locked rotor torque Breakdown torque	: 41.0 A : 7.0 : 160 ft.lb : 229 % : 290 % : 985 rpm	Moment of iner Duty cycle Insulation class Service factor Temperature ris Design	se	: 21.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
	•				
Heating constant					
Cooling constant Rev.	Changes Summary		erformed (Checked	Date
NGV.	Changes Summary	P	enomieu (CHECKEU	Date
Performed by Checked by				Page	Revision

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2020			15 / 21	

Three Phase Induction Motor - Squirrel Cage

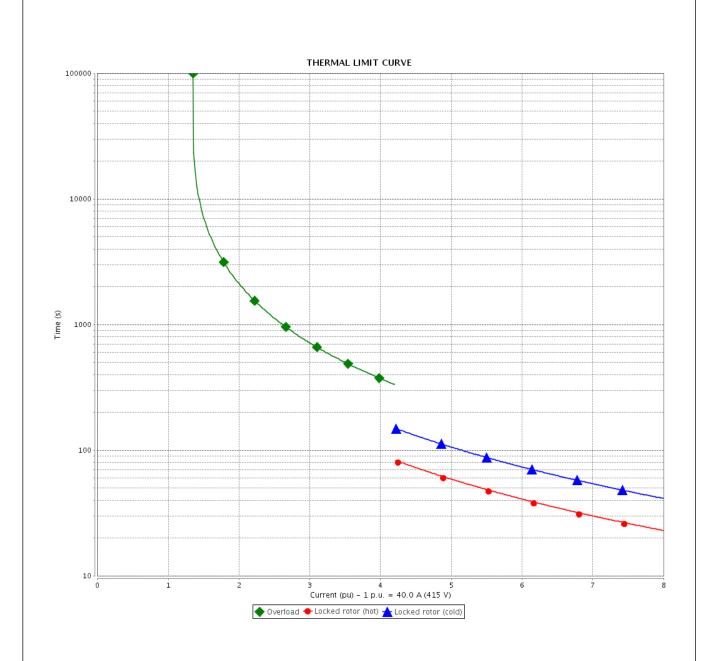


Customer		:				
Product line		: W40 NEMA Premium Efficie Three-Phase		Product code : Catalog # :	14272483 040120T3E36	64TC-W40
Performance	:	415 V 50 Hz 6P IE3				
Rated current LRC	:	40.0 A 8.0	Duty cycle		: 21.8 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		160 ft.lb 250 %	Insulation Service fa		: F : 1.00	
Breakdown torqu Rated speed	ie :	310 % 985 rpm	Temperatu Design		: 80 K : B	
Heating constant						
Cooling constant Rev.	l	Changes Summary		Performed	Checked	Date
INGV.		ondrigos odminary		i chomicu	Olicored	Date
Performed by					1	
Checked by					Page	Revision
Date	11/04/2020				16 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer :



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2020			17 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer :

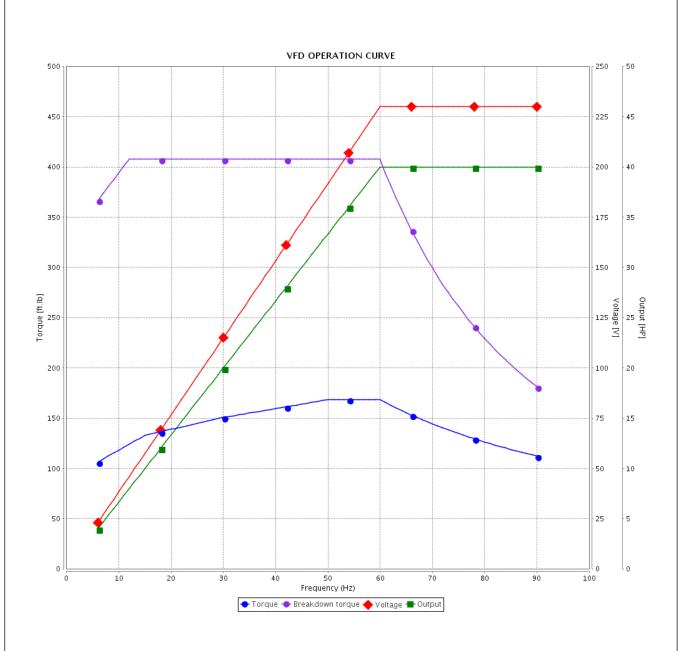
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272483

Catalog #: 04012OT3E364TC-W40

18/21



Performance	: 23	30/460 V 60 Hz 6P				
Breakdown torqu	C : 6.4 Duty cycle Insulation class Service factor		Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.25 Temperature rise : 80 K			
Raieu speeu	. 11	ioo ipiii	Design		. D	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision

11/04/2020

Date

Three Phase Induction Motor - Squirrel Cage



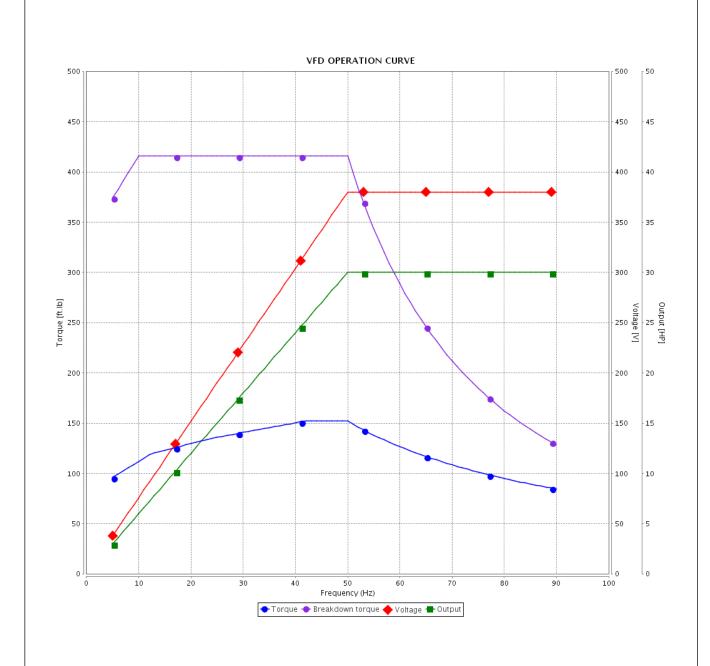
Customer

Product line : W40 NEMA Premium Efficiency Product of

Three-Phase

Product code: 14272483

Catalog #: 04012OT3E364TC-W40



Performance	: 3	80 V 50 Hz 6P IE3				
Rated current	: 4:	2.7 A	Moment o	f inertia (J)	: 21.8 sq.ft.lb	
LRC	: 6	.9	Duty cycle	;	: Cont.(S1)	
Rated torque	: 10	60 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 20	00 %	Service fa	ctor	: 1.00	
Breakdown torque	: 20	60 %	Temperature rise		: 80 K	
Rated speed	: 98	85 rpm	Design		: B	
Rev.	Rev. Changes Summary		у	Performed	Checked	Date
Performed by						
Checked by		-			Page	Revision
Date	11/04/2020	1			19 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer :

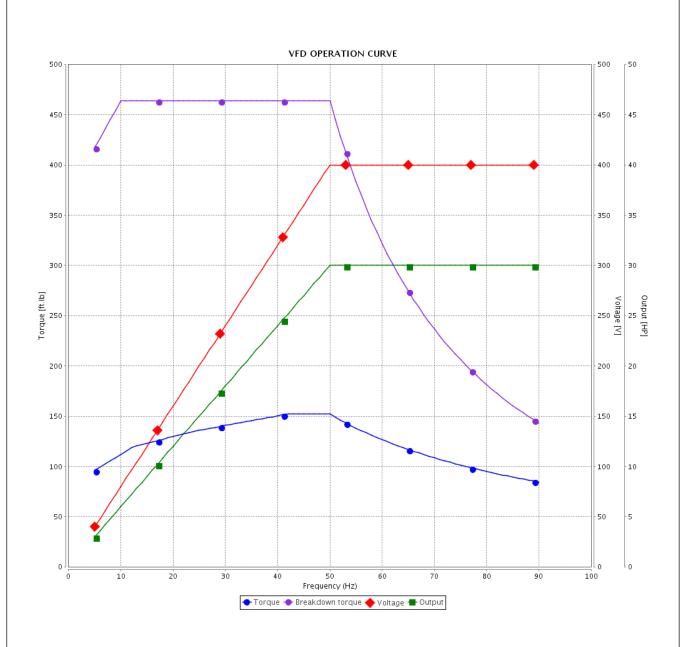
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272483

Catalog #: 04012OT3E364TC-W40

20 / 21



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 inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K		
Rev.	Changes Summary	F	Performed	Checked	Date	
Performed by						
Checked by				Page	Revision	

11/04/2020

Date

Three Phase Induction Motor - Squirrel Cage

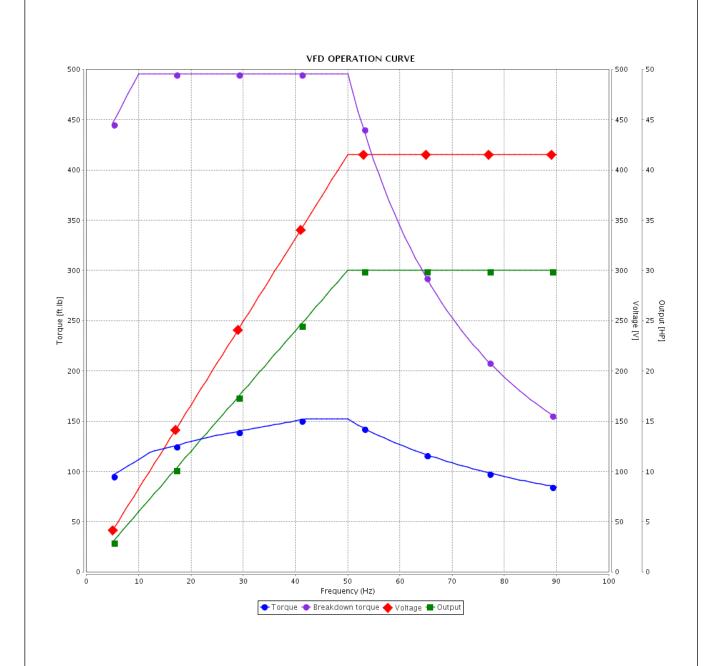


Customer

Product line : W40 NEMA Premium Efficiency Product code:

14272483

Catalog #: 04012OT3E364TC-W40



Performance	: 4	15 V 50 Hz 6P IE3				
Rated current	: 4	10.0 A Moment of		f inertia (J)	: 21.8 sq.ft.lb	
LRC	: 8	.0	Duty cycle)	: Cont.(S1)	
Rated torque	: 1	60 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	50 %	Service fa	ctor	: 1.00	
Breakdown torque	: 3	10 %	Temperature rise		: 80 K	
Rated speed	: 9	85 rpm	Design		: B	
Rev.	Changes Summary		ry	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	11/04/2020				21 / 21	