DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Pro

Product code:

14270659

Three-Phase

Catalog #: 04012OT3E364T-W40

Frame : 364/5T 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

Altitude : 1000 m.a.s.l. Approx. weight³ : 746 lb
Protection degree : IP23 Moment of inertia (J) : 21.8 sq.ft.lb

Protection degre	е	: IP23	Moment of ine	ertia (J) : 21.8	sq.ft.lb
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 [%]		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 ²		68.0 dB(A)			
	25%	93.5	91.7	91.7	91.7
Efficiency (%)	50%	93.6	91.8	91.8	91.8
Linciency (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 OWCI I actor	75%	0.82	0.82	0.79	0.78
	100%	0.85	0.85	0.84	0.83

<u>Drive end</u> <u>Non drive end</u> Foundation loads

Bearing type : 6314 C3 6212 Z C3 Max. traction : 1326 lb Sealing : Without Without Max. compression : 2072 lb

Bearing Seal Bearing Seal Lubrication interval : 20000 h 20000 h Lubricant amount : 27 g 13 g

Lubricant amount : 27 g 13 g Lubricant type : Mobil Polyrex EM

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



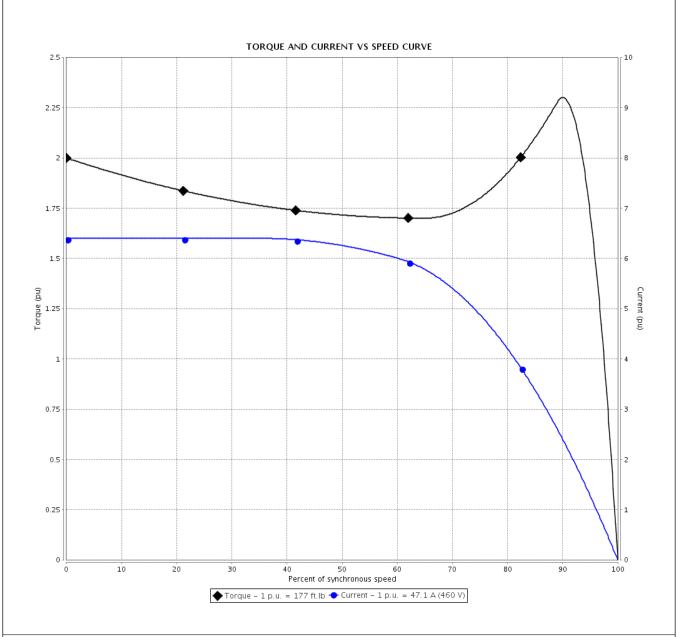
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14270659

Catalog #: 04012OT3E364T-W40



Performance	: 230/460 V 60 Hz 6P			
Rated current LRC	: 94.2/47.1 A : 6.4	Moment of inertia (J) Duty cycle	: 21.8 sq.ft.lb : Cont.(S1)	
Rated torque	: 177 ft.lb	Insulation class	: F	
Locked rotor torque Breakdown torque	: 200 % : 229 %	Service factor Temperature rise	: 1.25 : 80 K	
Rated speed	: 1185 rpm	Design	: B	
Laster destantions	. 20- (1-1) 20- (1+)	I		

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



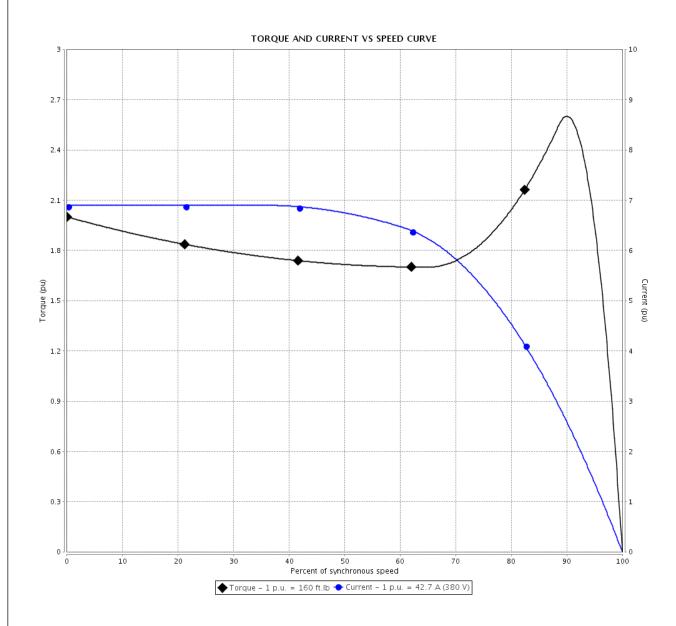
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14270659

Catalog #: 04012OT3E364T-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)
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
Locked rotor time	· 45s (cold) 25s (hot)		

Locked rotor time

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2020			3 / 21	

Three Phase Induction Motor - Squirrel Cage



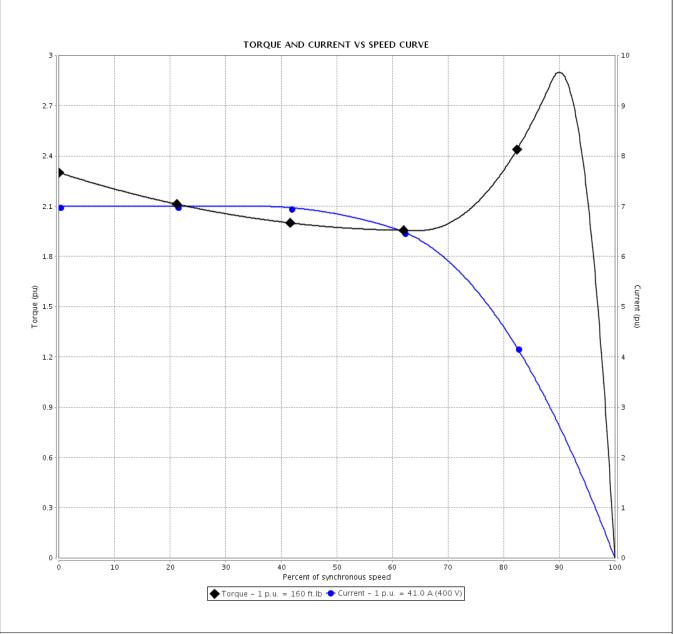
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14270659

Catalog #: 04012OT3E364T-W40



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	: 21.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : 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



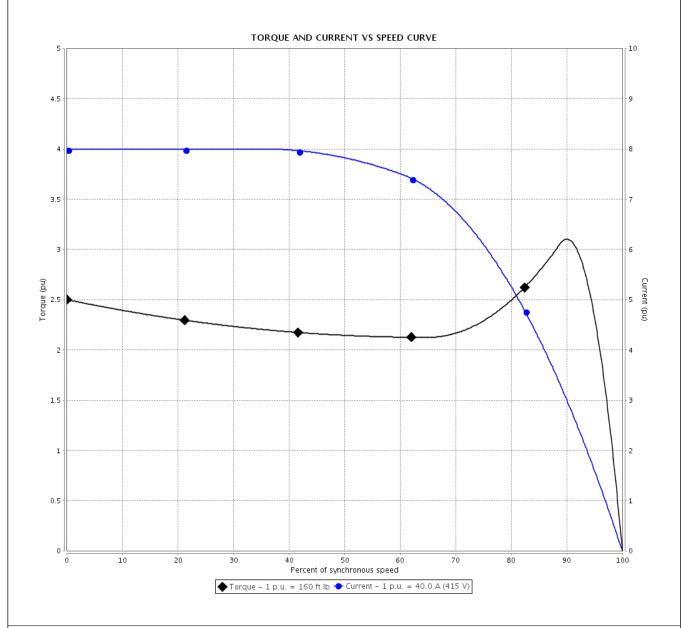
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14270659

Catalog #: 04012OT3E364T-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) : 160 ft.lb Insulation class Rated torque : F Locked rotor torque : 250 % Service factor : 1.00 Breakdown torque : 310 % Temperature rise : 80 K : B Rated speed : 985 rpm Design Locked rotor time : 41s (cold) 23s (hot)

		` ' ' '			
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2020			5 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

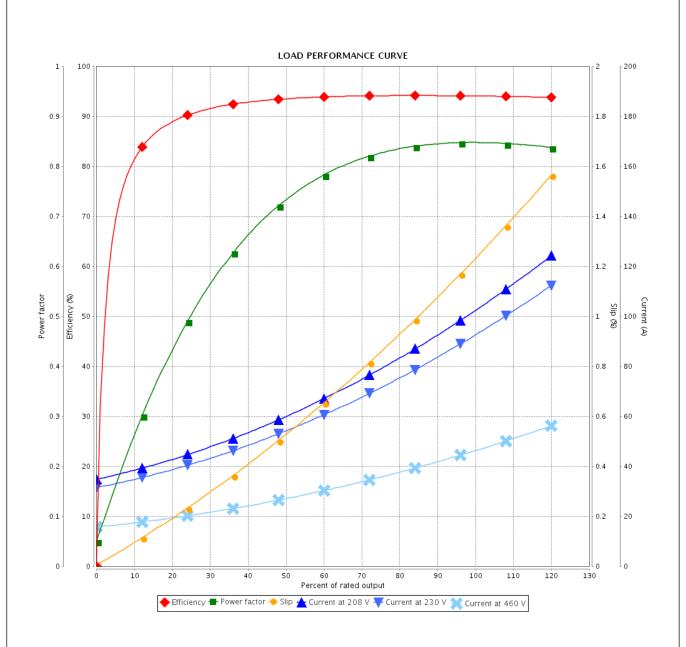
11/04/2020

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14270659

Catalog #: 04012OT3E364T-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** Duty cycle : Cont.(S1) : 6.4 Insulation class : 177 ft.lb : F Rated torque Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1185 rpm Design : B Performed Checked Rev. **Changes Summary** Date Performed by Checked by Revision Page

6/21

Three Phase Induction Motor - Squirrel Cage



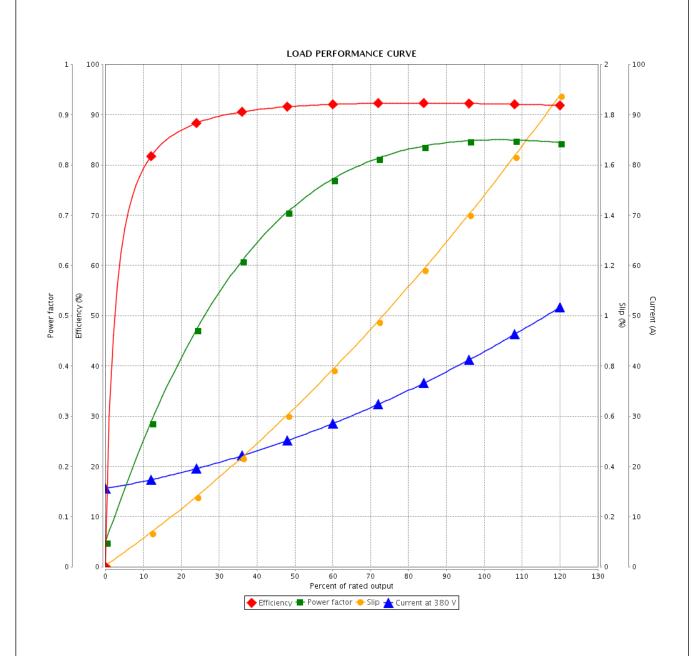
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14270659

Catalog #: 04012OT3E364T-W40



Performance	: 380 V 50 Hz 6P IE3				
Rated current	: 42.7 A	Moment of	f inertia (J)	: 21.8 sq.ft.lb	
LRC	: 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				'	

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2020			7 / 21	
This do	cument is exclusive	property of WEG S/A Reprinting is not all	owed without written	authorization of WE	G S/A

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

11/04/2020

Product line : W40 NEMA Premium Efficiency

Three-Phase

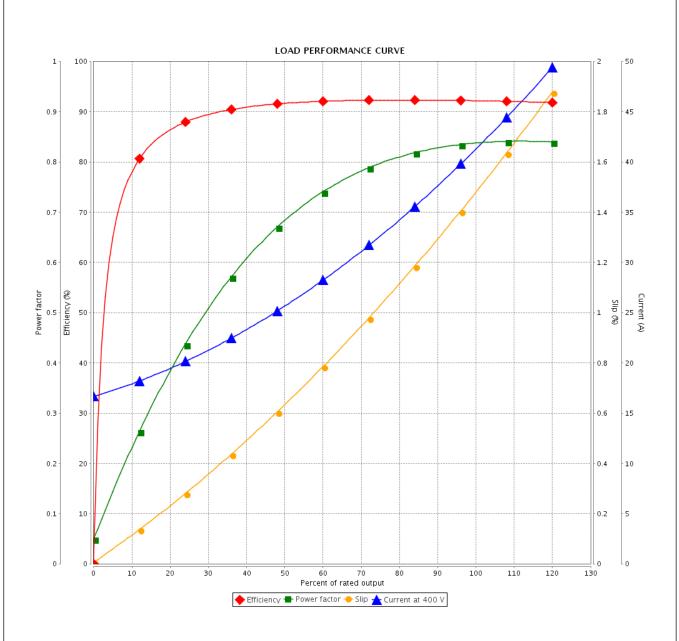
Product code: 14270659

Catalog #: 04012OT3E364T-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 Temperat 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



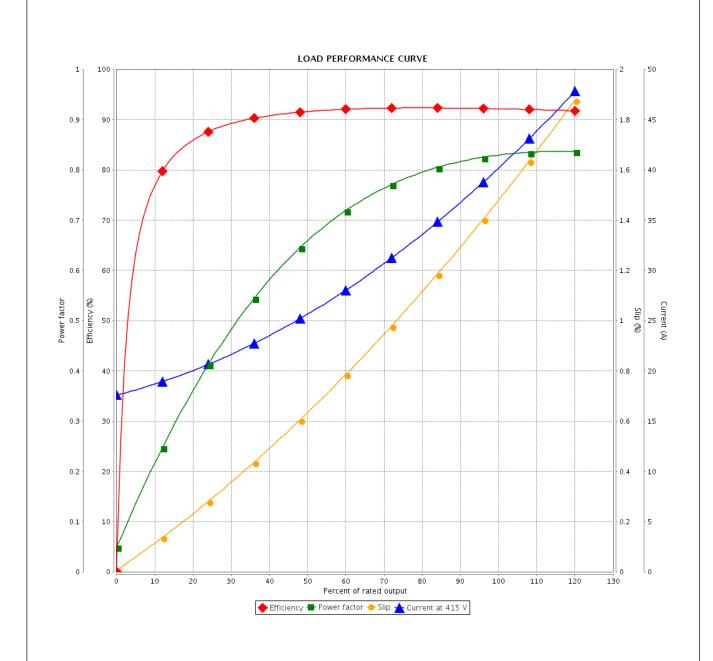
Customer

Product line : W40 NEMA Premium Efficiency Product code:

Three-Phase

14270659

Catalog #: 04012OT3E364T-W40



Performance	: 4	15 V 50 Hz 6P IE3				
Rated current	: 4	.0 A Moment of		t of inertia (J)	: 21.8 sq.ft.lb	
LRC	: 8	.0	Duty cyc	cle	: Cont.(S1)	
Rated torque	: 10	60 ft.lb	Insulation		: F ` ´	
Locked rotor tord	que : 2:	50 %	Service	factor	: 1.00	
Breakdown torqu	ie : 3	10 %	Temperature rise		: 80 K	
Rated speed	: 98	85 rpm	Design		: B	
Rev.		Changes Summar	у	Performed	Checked	Date
		1				
Performed by						
Checked by		-			Page	Revision
Date	11/04/2020	1			9 / 21	

Three Phase Induction Motor - Squirrel Cage

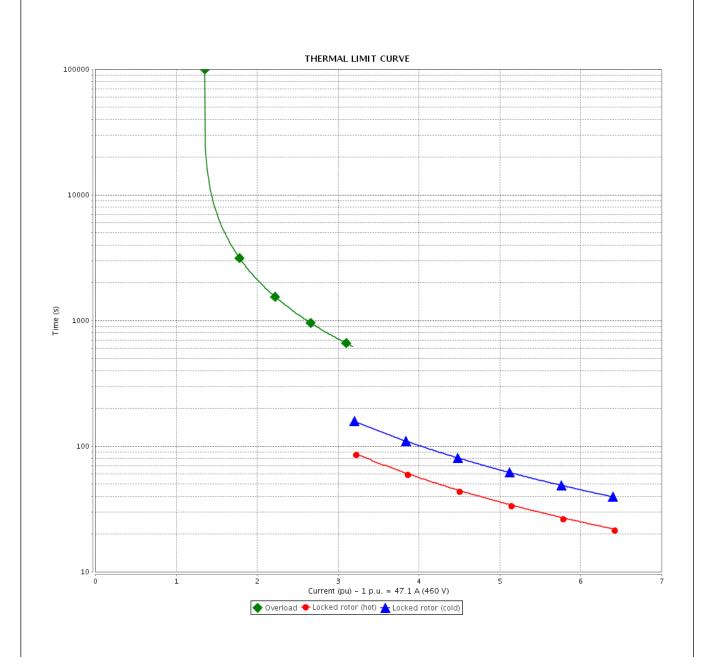


Customer	:					
D 1 4 11					440=22=2	
Product line		N40 NEMA Premium Efficiente Pree-Phase	ency I	Product code :	14270659	
			(Catalog # :	04012OT3E3	64T-W40
Performance		30/460 V 60 Hz 6P	N/	5 : (I)	. 04.0 # 11-	
Rated current LRC	: 6.		Moment of Duty cycle		: 21.8 sq.ft.lb : Cont.(S1)	
Rated torque		77 ft.lb	Insulation	class	: F : 1.25	
Locked rotor torq Breakdown torqu		00 % 29 %	Service fac Temperatu		: 1.25 : 80 K	
Rated speed		185 rpm	Design		: B	
Heating constant						
Cooling constant		Ob an ana O		Devit 1	Ob. 1	D :
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
5 (4.4/0.4/0.000	1			10/04	

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

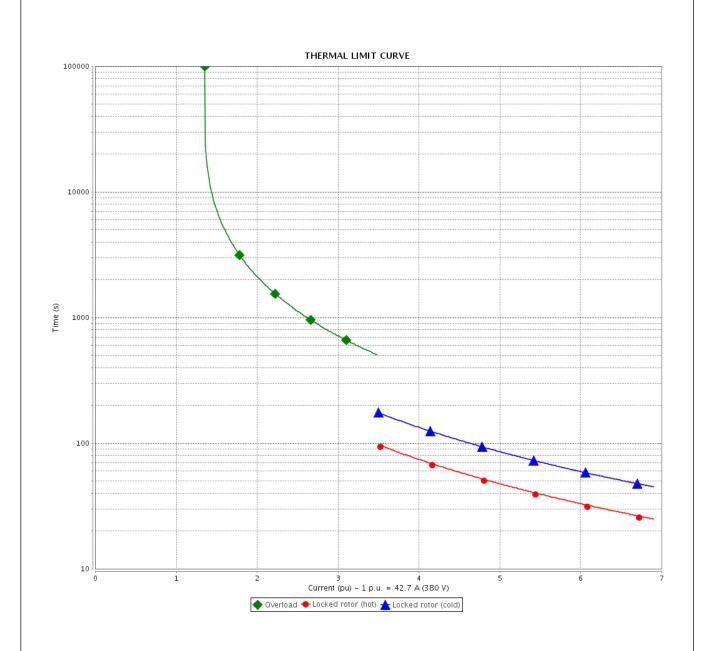


Customer	:				
Product line	: W40 NEMA Premium Effi Three-Phase	ciency	Product code :	14270659	
	THICC-I Hase		Catalog # :	04012OT3E3	364T-W40
Performance Rated current	: 380 V 50 Hz 6P IE3 : 42.7 A	Momont	of inertia (J)	: 21.8 sq.ft.lb	
LRC	: 6.9	Duty cycle	Э	: Cont.(S1)	
Rated torque Locked rotor torque	: 160 ft.lb : 200 %	Insulation Service fa		: F : 1.00	
Breakdown torque	: 260 %	Temperat		: 80 K	
Rated speed	: 985 rpm	Design		: B	
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
	<u> </u>				
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			13 / 21	

Three Phase Induction Motor - Squirrel Cage

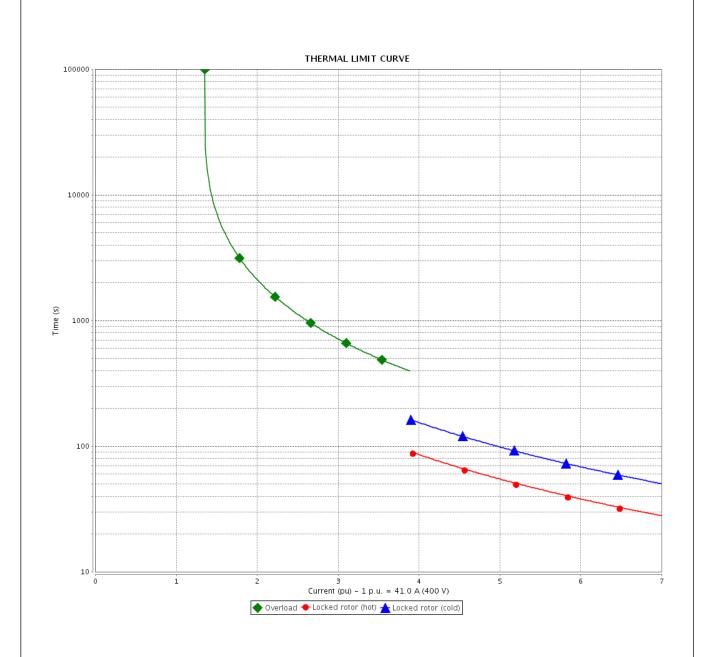


Customer		:				
Product line		: W40 NEMA Premium Efficient		Product code :	14270659	
				Catalog # :	04012OT3E3	64T-W40
Performance	:	: 400 V 50 Hz 6P IE3				
Rated current		: 41.0 A	Moment o	of inertia (J)	: 21.8 sq.ft.lb	
LRC Rated torque		: 7.0 : 160 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que :	: 229 %	Service fa	ictor	: 1.00	
Breakdown torqu Rated speed		: 290 % : 985 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constan		•				
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by					5	Б
Checked by	11/04/2020	_			Page 14 / 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			15 / 21	

Three Phase Induction Motor - Squirrel Cage

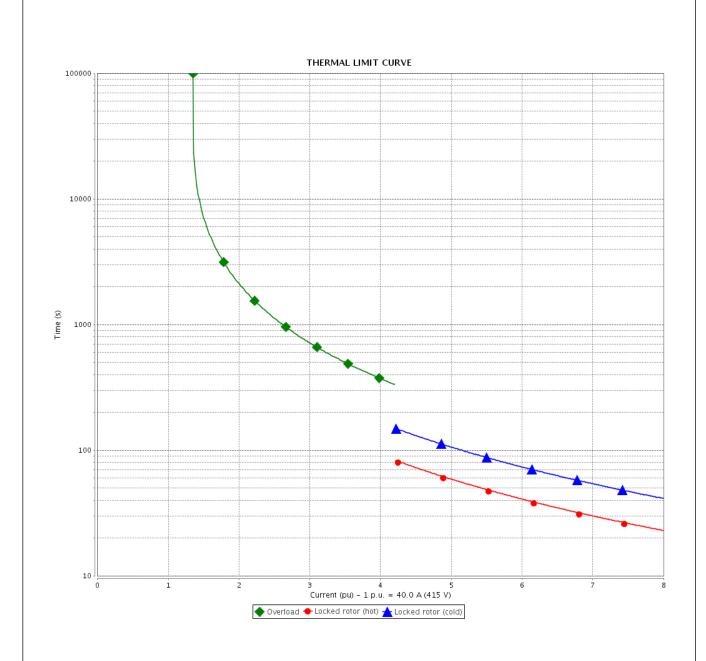


Customer		:				
Product line		: W40 NEMA Premium Efficion Three-Phase		Product code :	14270659	
				Catalog # :	04012OT3E36	64T-W40
Performance	:	415 V 50 Hz 6P IE3				
Rated current LRC		40.0 A 8.0	Moment of Duty cycle	f inertia (J)	: 21.8 sq.ft.lb : Cont.(S1)	
Rated torque	:	160 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		250 % 310 %	Service fa Temperati		: 1.00 : 80 K	
Rated speed		985 rpm	Design	ai 0 1100	: B	
Heating constan	t					
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Dorformed by						
Performed by Checked by					Page	Revision
Date	11/04/2020				16 / 21	INCVISION

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



Revision

Page

18 / 21

Customer :

Checked by

Date

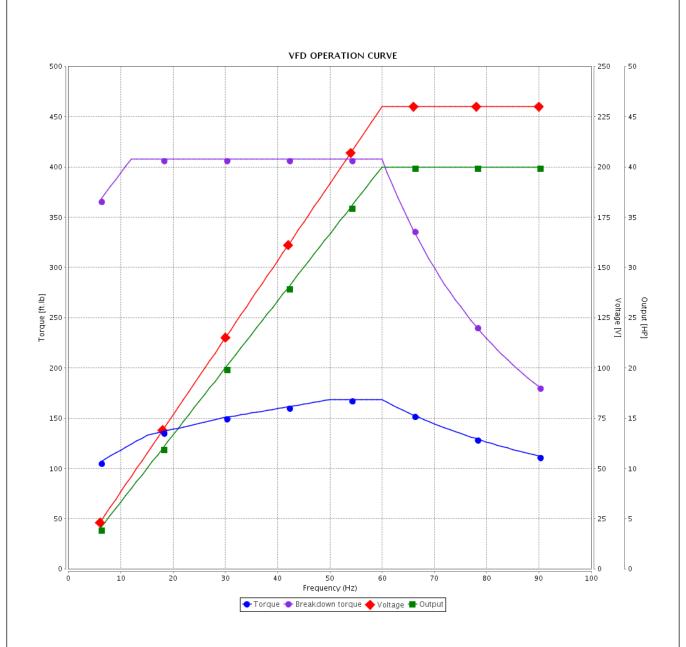
11/04/2020

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14270659

Catalog #: 04012OT3E364T-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** Duty cycle : Cont.(S1) : 6.4 Insulation class : 177 ft.lb : F Rated torque Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1185 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by

Three Phase Induction Motor - Squirrel Cage



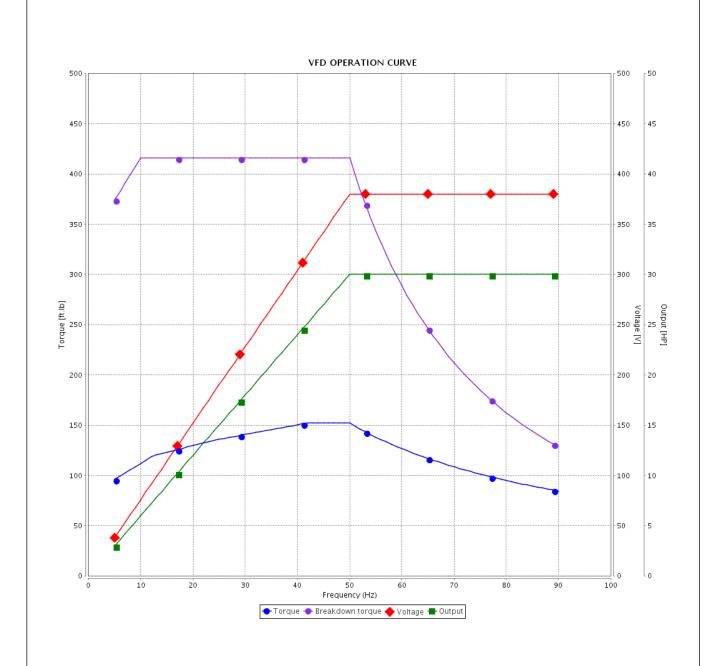
Customer

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Product code: 14270659

Catalog #: 04012OT3E364T-W40



Performance	: 3	30 V 50 Hz 6P IE3				
Rated current	: 4:	2.7 A Moment of inertia (J)		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	Temperature rise		: 80 K		
Rated speed	: 98	35 rpm	Design		: B	
Rev.		Changes Summary	1	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	11/04/2020				19 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

11/04/2020

Product line : W40 NEMA Premium Efficiency

Three-Phase

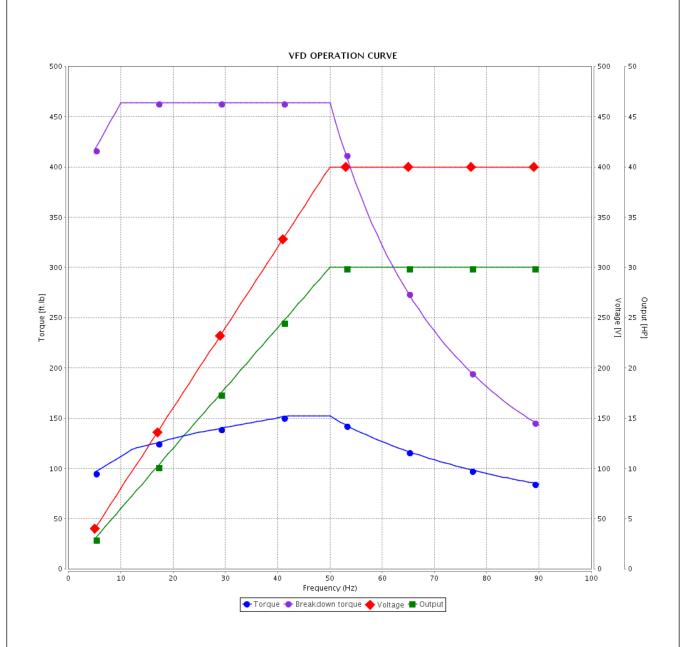
Product code: 14270659

Catalog #: 04012OT3E364T-W40

Page

20 / 21

Revision



Performance	: 400	V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	e : 290) ft.lb) %	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 21.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	C	Changes Summary	,	Performed	Checked	Date
Performed by		<u> </u>		<u> </u>		

Three Phase Induction Motor - Squirrel Cage



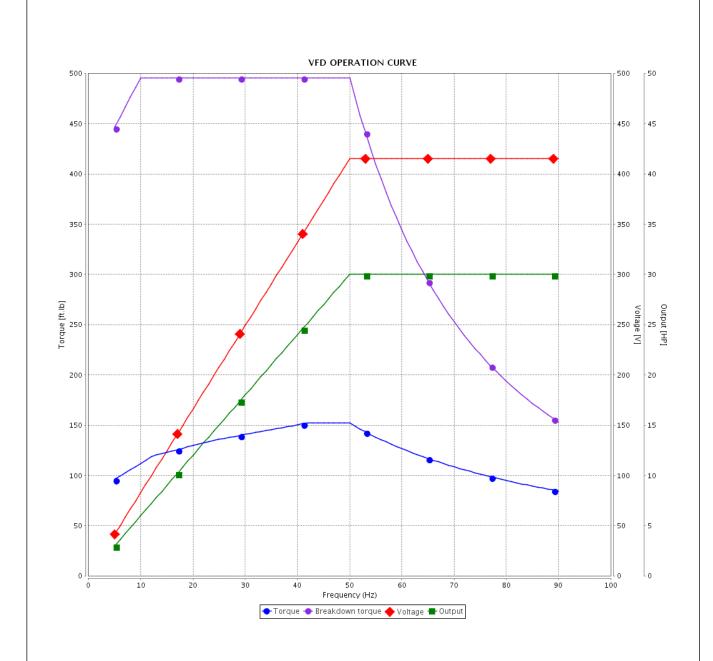
Customer

Product line : W40 NEMA Premium Efficiency Product

Three-Phase

Product code: 14270659

Catalog #: 04012OT3E364T-W40



Performance	: 4	115 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 %	Temperature rise		: 80 K	
Rated speed	: 9	985 rpm	Design		: B	
Rev.		Changes Summary	· · · · · · · · · · · · · · · · · · ·	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	11/04/2020				21 / 21	