### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14272484

Three-Phase

Catalog #: 05012OT3E365TC-W40

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

Insulation class : F Mounting : F-1

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

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

Altitude : 1000 m.a.s.l. Approx. weight³ : 802 lb
Protection degree : IP23 Moment of inertia (J) : 23.9 sq.ft.lb

Protection degree		: IP23	Moment of ine	ertia (J) : 23.9	sq.ft.lb
Design		: B			
Output [HP]		50	40	40	40
Poles		6	6	6	6
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		116/58.1	57.1	54.8	53.5
L. R. Amperes [A]		779/389	400	395	412
LRC [A]		6.7x(Code G)	7.0x(Code H)	7.2x(Code H)	7.7x(Code J)
No load current [A	]	40.8/20.4	20.2	21.7	23.0
Rated speed [RPN	<b>/</b> 1]	1185	985	985	985
Slip [%]		1.25	1.50	1.50	1.50
Rated torque [ft.lb]		222	213	213	213
Locked rotor torqu		220	200	229	250
Breakdown torque	[%]	240	240	270	290
Service factor		1.25	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		27s (cold) 15s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)
Noise level <sup>2</sup>		68.0 dB(A)			
	25%	93.5	92.4	92.4	92.4
Efficiency (%)	50%	93.6	92.5	92.5	92.5
Linciency (70)	75%	94.1	92.9	92.9	92.9
	100%	94.1	92.9	92.9	92.9
	25%	0.48	0.48	0.44	0.42
Power Factor	50%	0.74	0.74	0.70	0.68
1 OWCI I actor	75%	0.82	0.83	0.80	0.79
	100%	0.85	0.86	0.85	0.84

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

Bearing type : 6314 C3 6212 Z C3 Max. traction : 1718 lb Sealing : Without Without Max. compression : 2520 lb

ealing : Without Without | Max. compression : Bearing Seal

Lubrication interval:20000 h20000 hLubricant amount:27 g13 gLubricant type:Mobil Polyrex EM

Notes

USABLE @208V 128A SF 1.15 SFA 148A

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	12/04/2022			1 / 21	

#### Three Phase Induction Motor - Squirrel Cage



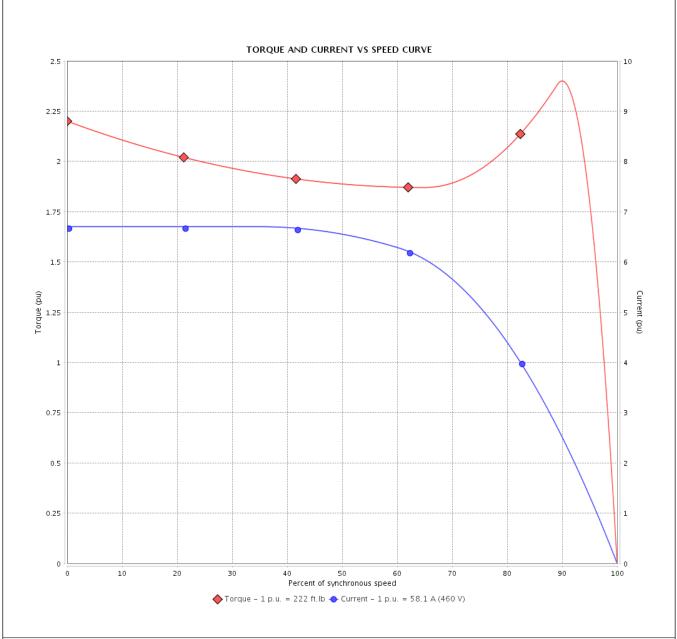
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272484

Catalog #: 05012OT3E365TC-W40



Performance : 230/460 V 60 Hz 6P Rated current : 116/58.1 A Moment of inertia (J) : 23.9 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 222 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 220 % : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1185 rpm Design : B

Locked rotor time : 27s (cold) 15s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			2 / 21	

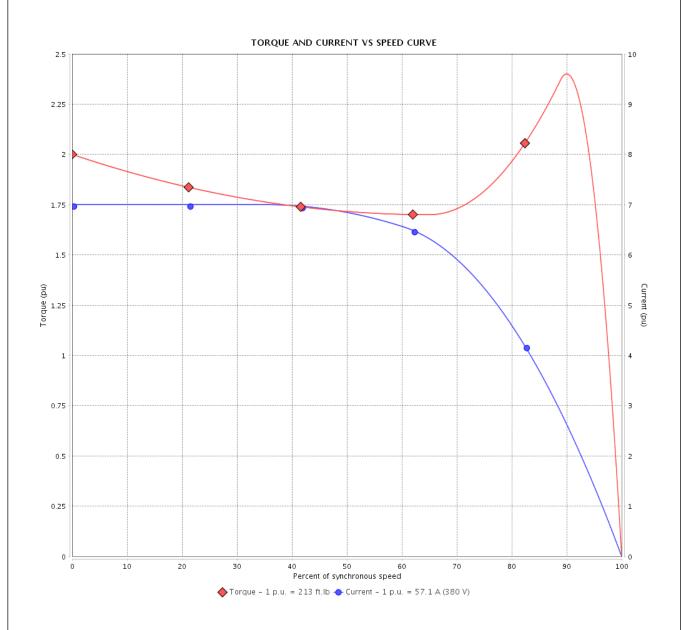
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Product code: 14272484

Catalog #: 05012OT3E365TC-W40



Performance	: 380 V 50 Hz 6P IE3			
Rated current	: 57.1 A	Moment of inertia (J)	: 23.9 sq.ft.lb	
LRC	: 7.0	Duty cycle	: Cont.(S1)	
Rated torque	: 213 ft.lb	Insulation class	:F	
Locked rotor torque	: 200 %	Service factor	: 1.00	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 985 rpm	Design	: B	
Locked rotor time	· 25s (cold) 14s (hot)			

LOCKCU TOLOT LITT	. 2	55 (COId) 145 (NOI)			
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by		-		Page	Revision
Date	12/04/2022	7		3 / 21	

#### Three Phase Induction Motor - Squirrel Cage



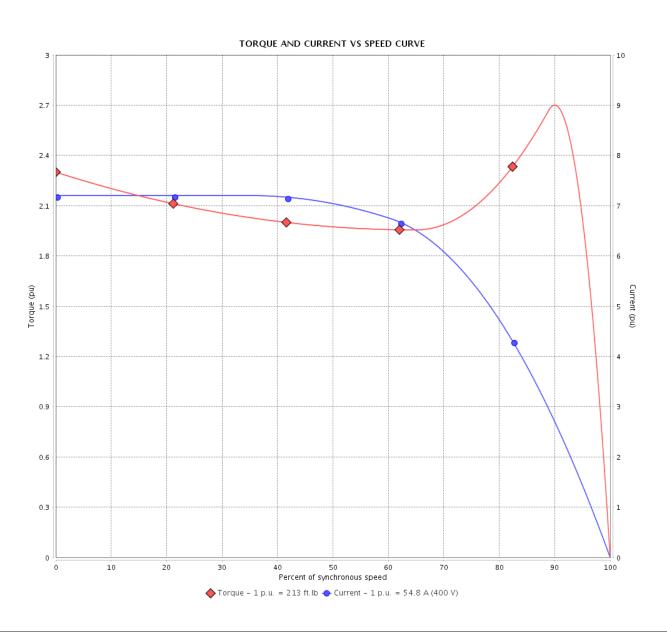
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272484

Catalog #: 05012OT3E365TC-W40



Performance : 400 V 50 Hz 6P IE3 Rated current : 54.8 A Moment of inertia (J) : 23.9 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 213 ft.lb : F Service factor Locked rotor torque : 229 % : 1.00 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 985 rpm Design : B

Locked rotor time : 25s (cold) 14s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			4 / 21	

#### Three Phase Induction Motor - Squirrel Cage

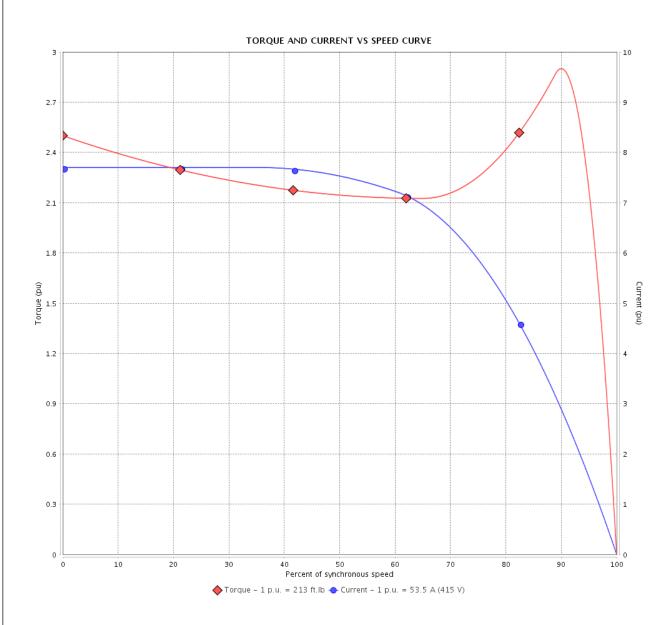


Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14272484

Three-Phase

Catalog #: 05012OT3E365TC-W40



Performance	: 415 V 50 Hz 6P IE3			
Rated current	: 53.5 A	Moment of inertia (J)	: 23.9 sq.ft.lb	
LRC	: 7.7	Duty cycle	: Cont.(S1)	
Rated torque	: 213 ft.lb	Insulation class	: F	
Locked rotor torque	: 250 %	Service factor	: 1.00	
Breakdown torque	: 290 %	Temperature rise	: 80 K	
Rated speed	: 985 rpm	Design	: B	

Locked rotor time : 25s (cold) 14s (hot)

LOCKEU TOLOT LITTI	. 2	33 (Cold) 143 (110t)			
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022	1		5 / 21	

#### Three Phase Induction Motor - Squirrel Cage



Customer :

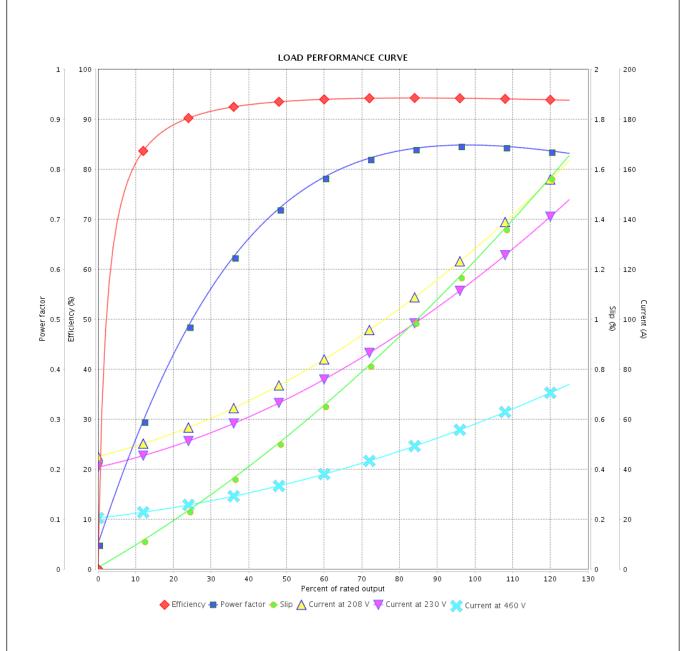
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272484

Catalog #: 05012OT3E365TC-W40

6/21



Performance	· 230/4	460 V 60 Hz 6P	<u> </u>			
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 116/5 : 6.7 : 222 f ue : 220 <sup>0</sup>	58.1 A ft.lb %		class ctor	: 23.9 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Ch	nanges Summar	у	Performed	Checked	Date
Performed by Checked by					Page	Revision

12/04/2022

Date

#### Three Phase Induction Motor - Squirrel Cage



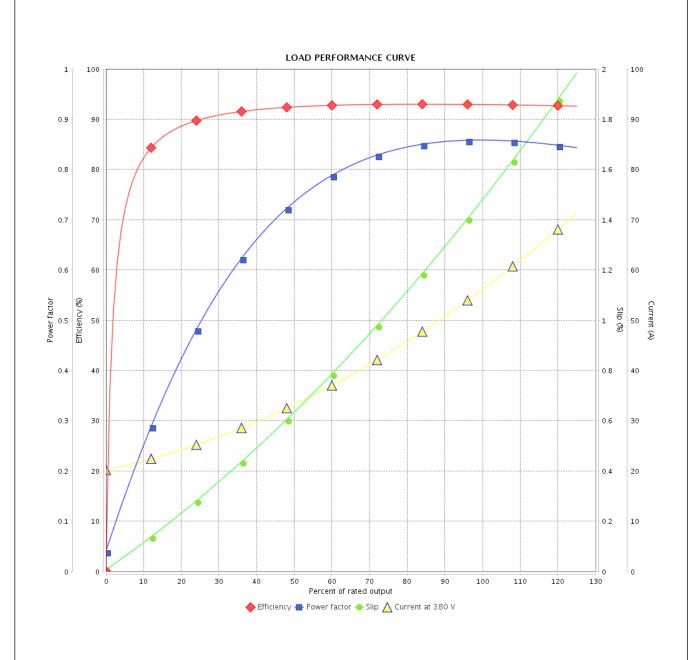
Customer

Product line : W40 NEMA Premium Efficiency Product code : 14272484

Three-Phase

Catalog #: 05012OT3E365TC-W40

7/21



Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 57.1 A : 7.0 : 213 ft.lb : 200 % : 240 % : 985 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 23.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

12/04/2022

Date

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

12/04/2022

Product line : W40 NEMA Premium Efficiency

Three-Phase

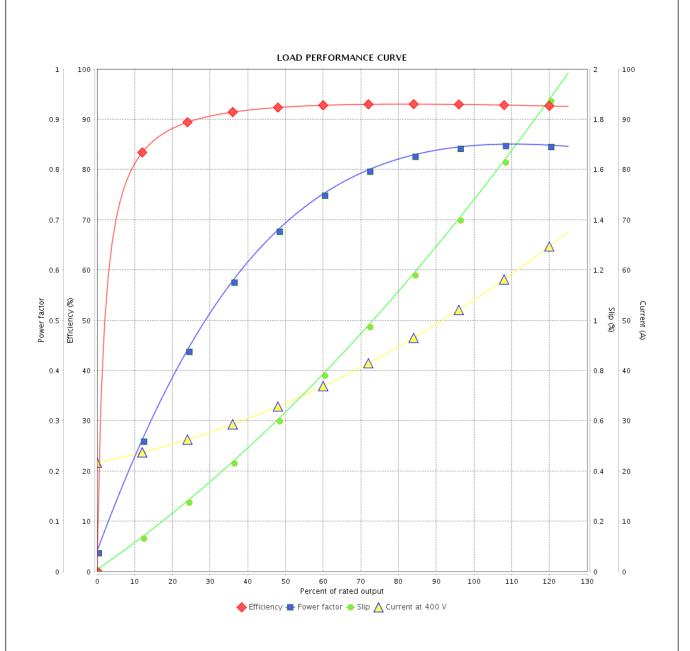
Product code: 14272484

Catalog #: 05012OT3E365TC-W40

Page

8 / 21

Revision



Performance	: 400 V 50 Hz 6P IE3			
Rated current LRC Rated torque Locked rotor torqu Breakdown torque Rated speed		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 23.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
			l .	

#### Three Phase Induction Motor - Squirrel Cage



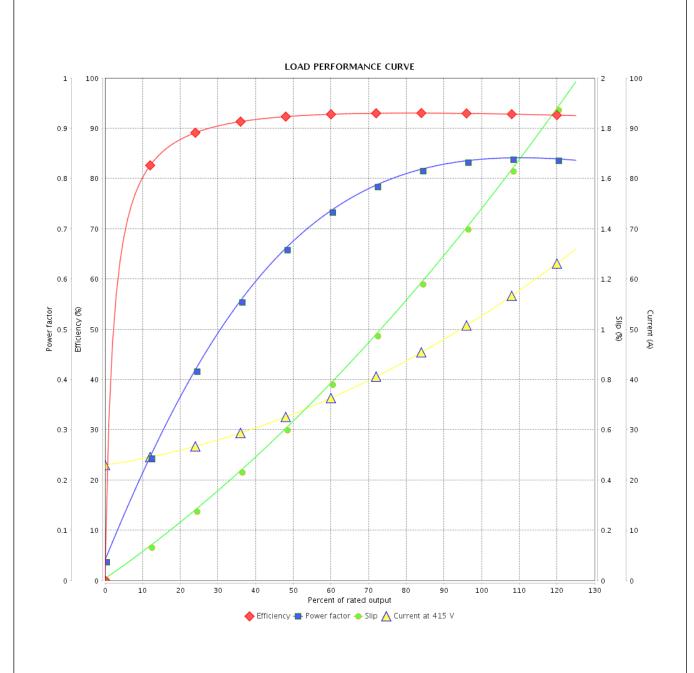
Customer

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Catalog #: 05012OT3E365TC-W40

14272484



Performance	: 4	15 V 50 Hz 6P IE3				
Rated current		3.5 A		f inertia (J)	: 23.9 sq.ft.lb	
LRC	: 7		Duty cycle	` '	: Cont.(S1)	
Rated torque		 213 ft.lb	Insulation		: F	
Locked rotor torqu	e : 2	250 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	90 %	Temperati	ıre rise	: 80 K	
Rated speed		985 rpm	Design		: B	
Rev.		Changes Summar	ry	Performed	Checked	Date
Performed by		1				
, ,						
Checked by					Page	Revision
Date	12/04/2022	7			9 / 21	

### Three Phase Induction Motor - Squirrel Cage

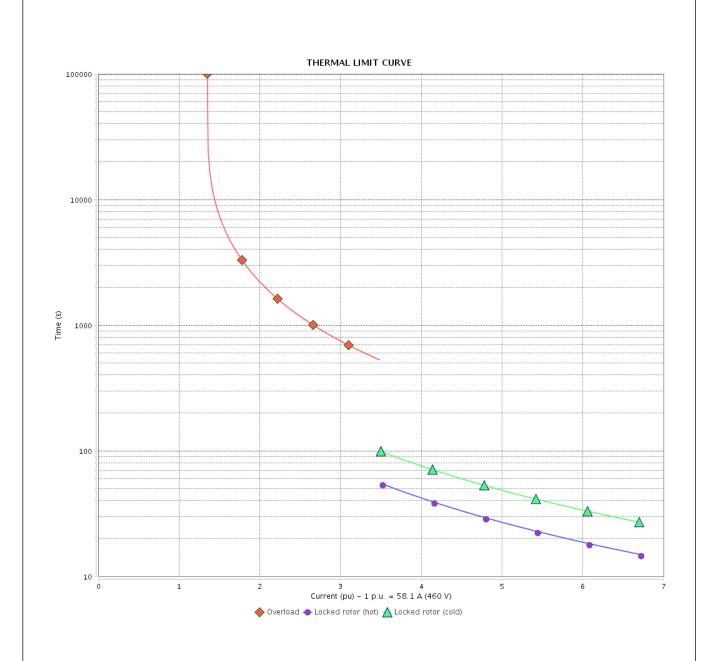


Customer	:				_	
Product line	: \	W40 NEMA Premium Effici	encv I	Product code :	14272484	
		hree-Phase				
				Catalog # :	05012OT3E3	65TC-W40
Performance		30/460 V 60 Hz 6P			000 611	
Rated current LRC	: 11 : 6.	16/58.1 A 7	Moment of Duty cycle	nertia (J)	: 23.9 sq.ft.lb : Cont.(S1)	
Rated torque	: 22	22 ft.lb	Insulation	class	: F	
Locked rotor torq Breakdown torqu		20 % 40 %	Service fac Temperatu		: 1.25 : 80 K	
Rated speed		185 rpm	Design		: B	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Desfe !!		I				
Performed by		-			Dana	Dovisio-
Checked by	10/01/0007				Page	Revision

### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			11 / 21	

### Three Phase Induction Motor - Squirrel Cage

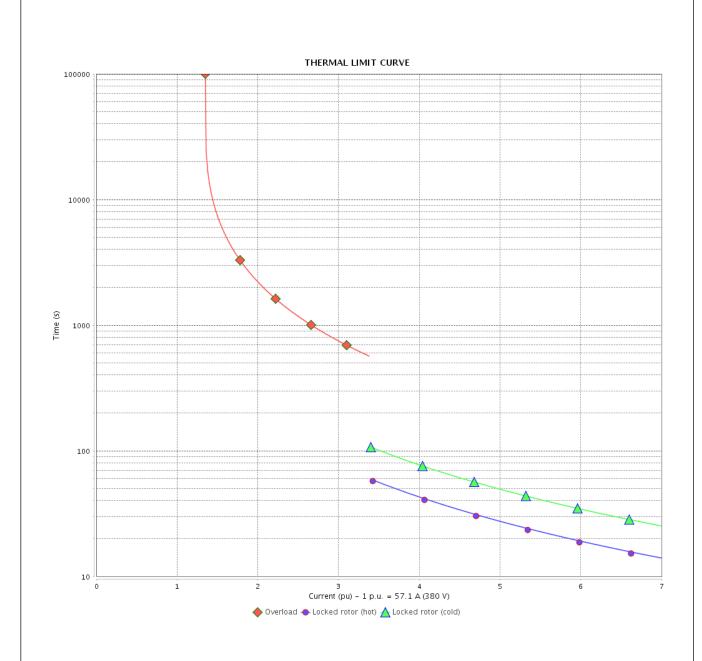


Customer		:				
Product line		: W40 NEMA Premium Effici Three-Phase		Product code :	14272484 05012OT3E36	65TC-W40
Performance		: 380 V 50 Hz 6P IE3				
Rated current LRC	:	: 57.1 A : 7.0	Duty cycle		: 23.9 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 213 ft.lb : 200 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue :	: 240 %	Temperati		: 80 K	
Rated speed		: 985 rpm	Design		: B	
Heating constant						
Cooling constant	t 	Changes Summary		Performed	Checked	Date
1/0/.		Onanges Summary		i enomieu	Oliecked	Paic
Performed by						
Checked by					Page	Revision
Date	12/04/2022				12 / 21	

### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			13 / 21	

### Three Phase Induction Motor - Squirrel Cage

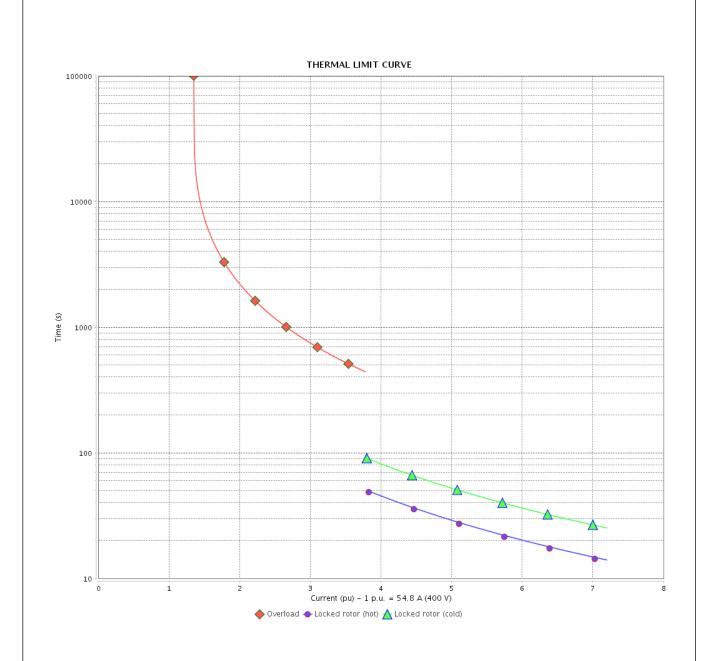


Customer	:				<del>_</del>	
Customer	•					
Product line		N40 NEMA Premium Efficie nree-Phase	ency I	Product code :	14272484	
	11	iree-Priase	(	Catalog # :	05012OT3E3	65TC-W40
Performance	· 40	00 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 54 : 7. : 21 jue : 22 ie : 27	1.8 A	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor	: 23.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant		•				
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by			J			
Checked by					Page	Revision
Data	12/04/2022				14/21	

### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			15 / 21	

### Three Phase Induction Motor - Squirrel Cage

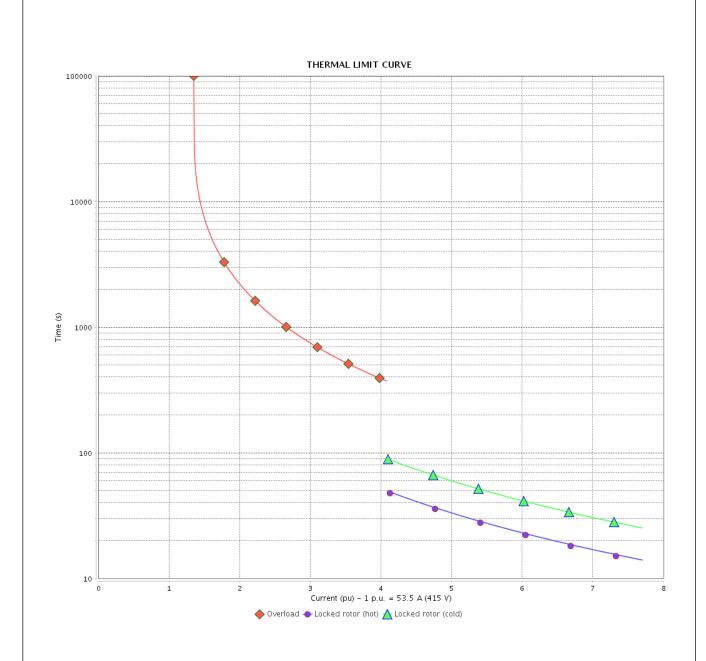


Customer		:				
Product line		: W40 NEMA Premium Efficie Three-Phase		Product code : Catalog # :	14272484 05012OT3E36	65TC-W40
Performance		415 V 50 Hz 6P IE3				
Rated current		53.5 A	Moment o	f inertia (J)	: 23.9 sq.ft.lb	
LRC	:	7.7	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	:	213 ft.lb	Insulation	class	: F	
Locked rotor tord		250 % 290 %	Service fa		: 1.00 : 80 K	
Breakdown torqu Rated speed		985 rpm	Temperatu Design	ire rise	: 80 K : B	
Heating constant						
Rev.		Changes Summary		Performed	Checked	Date
		zagoo oanmary			200.104	
Performed by						
Checked by					Page	Revision
Date	12/04/2022				16 / 21	IZEAISIOH

### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			17 / 21	

#### Three Phase Induction Motor - Squirrel Cage



Customer :

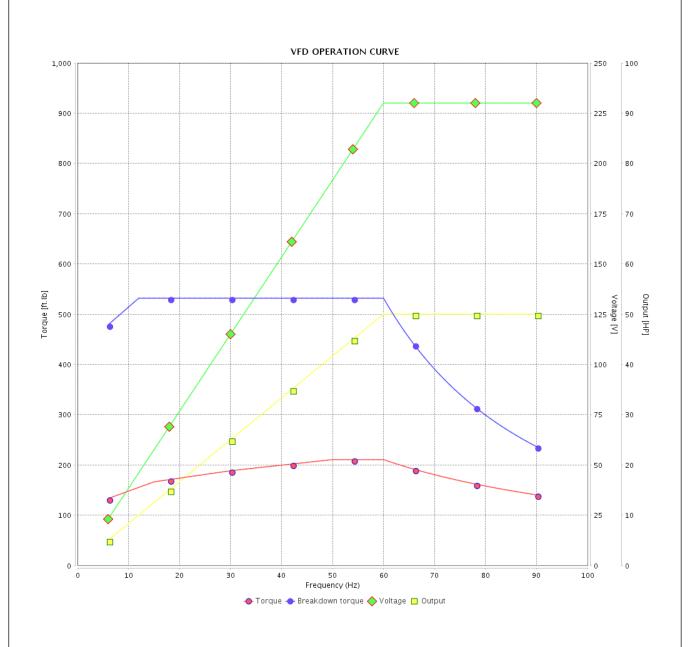
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272484

Catalog #: 05012OT3E365TC-W40

18/21



Performance	: 2:	30/460 V 60 Hz 6P				
Rated current	: 1	16/58.1 A	Moment of inertia (J)		: 23.9 sq.ft.lb	
LRC	: 6.	.7	Duty cycle		: Cont.(S1)	
Rated torque	: 2:	22 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 2:	20 %	Service fa	ctor	: 1.25	
Breakdown torqu	ie : 24	40 %	Temperat	ure rise	: 80 K	
Rated speed	: 1	185 rpm	Design		: B	
Rev.		Changes Summary	,	Performed	Checked	Date
Performed by						
Checked by		1			Page	Revision

12/04/2022

Date

#### Three Phase Induction Motor - Squirrel Cage



Customer

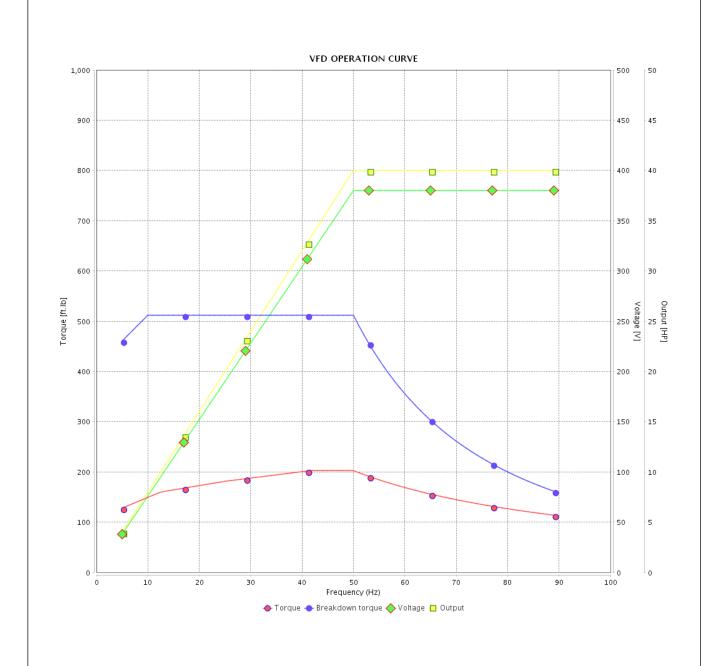
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272484

Catalog #: 05012OT3E365TC-W40

19/21



Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 57.1 A : 7.0 : 213 ft.lb : 200 % : 240 % : 985 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 23.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

12/04/2022

Date

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

12/04/2022

Product line : W40 NEMA Premium Efficiency

Three-Phase

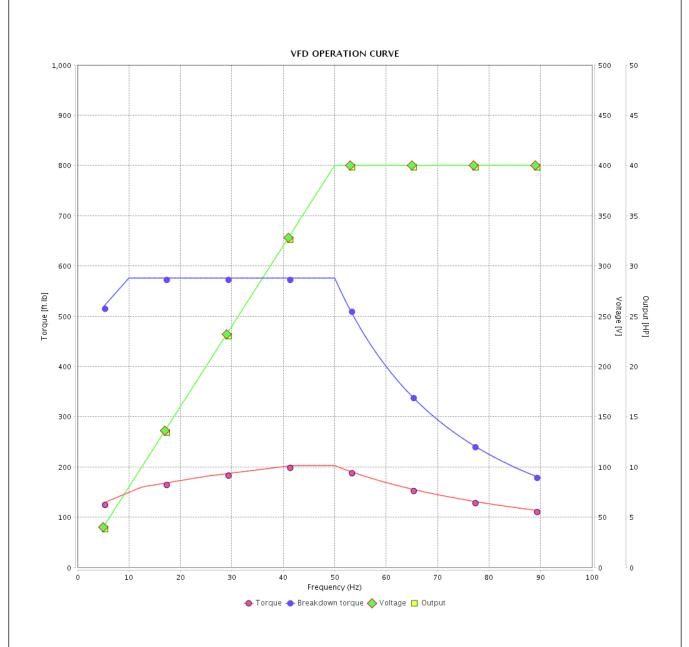
Product code: 14272484

Catalog #: 05012OT3E365TC-W40

Page

20 / 21

Revision



Performance		: 400 V 50 Hz	6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	que ie	: 54.8 A : 7.2 : 213 ft.lb : 229 % : 270 % : 985 rpm		Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 23.9 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



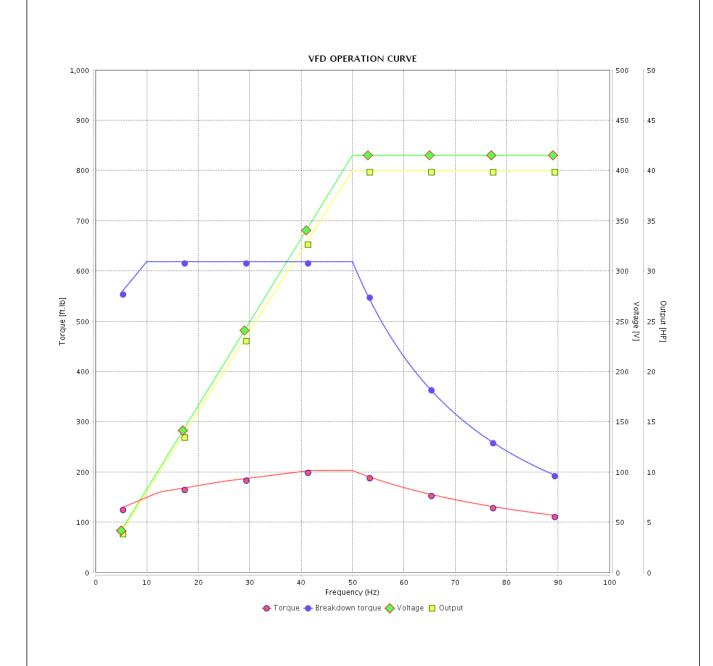
Customer

Product line : W40 NEMA Premium Efficiency Product

Three-Phase

Product code: 14272484

Catalog #: 05012OT3E365TC-W40



Performance	: 4	: 415 V 50 Hz 6P IE3				
Rated current	: 5	: 53.5 A Moment		f inertia (J)	: 23.9 sq.ft.lb	
LRC	: 7.	7	Duty cycle	<del>)</del>	: Cont.(S1)	
Rated torque	: 2	13 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	50 %	Service fa	ctor	: 1.00	
Breakdown torque	: 29	90 %	Temperature rise		: 80 K	
Rated speed	: 98	35 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
		I				
Performed by						
Checked by					Page	Revision
Date	12/04/2022	1			21 / 21	

