### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14192751

Catalog #: 00336XT3E182T

Frame : 182/4T Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW)

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

Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 123 lb

Protection degree : IP55 Moment of inertia (J) : 0.1471 sa.ft.lb

Protection degree		. 1233			
Design		: B			
Output [HP]		3	3	3	3
Poles		2	2	2	2
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		7.52/3.76	4.44	4.27	4.16
L. R. Amperes [A]		63.2/31.6	29.7	31.6	33.3
LRC [A]		8.4x(Code K)	6.7x(Code H)	7.4x(Code J)	8.0x(Code J)
No load current [A]	]	2.80/1.40	1.30	1.40	1.48
Rated speed [RPN	1]	3510	2880	2890	2900
Slip [%]		2.50	4.00	3.67	3.33
	Rated torque [ft.lb]		5.47	5.45	5.43
Locked rotor torque [%]		250	210	240	260
Breakdown torque	[%]	400	300	340	370
Service factor		1.15	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		54s (cold) 30s (hot)	77s (cold) 43s (hot)	77s (cold) 43s (hot)	77s (cold) 43s (hot)
Noise level <sup>2</sup>		69.0 dB(A)	64.0 dB(A)	64.0 dB(A)	64.0 dB(A)
	25%	81.3	82.0	81.2	81.3
Efficiency (%)	50%	82.5	82.5	82.5	82.5
Liliciency (70)	75%	85.5	85.5	85.5	85.5
	100%	86.5	85.5	86.5	86.5
	25%	0.48	0.55	0.51	0.48
Power Factor	50%	0.73	0.78	0.75	0.72
I OWELL ACTOL	75%	0.81	0.85	0.83	0.81
	100%	0.85	0.88	0.86	0.85

Non drive end Foundation loads **Drive end** 

6206 2RS Bearing type 6307 2RS Max. traction : 67 lb Sealing Oil Seal Lip Seal Max. compression : 190 lb

Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 8.32A SF 1.15 SFA 9.56A

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	13/04/2022			1 / 22	

# DATA SHEET

### Three Phase Induction Motor - Squirrel Cage



Customer		

#### Thermal protection

		<u> </u>		
ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			2 / 22	



Date

Revision

Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 14192751 Catalog #: 00336XT3E182T TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Current Torque (pu) 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 4.49 ft.lb ◆ Current - 1 p.u. = 3.76 A (460 V) Performance : 230/460 V 60 Hz 2P Rated current : 7.52/3.76 A Moment of inertia (J) : 0.1471 sq.ft.lb **LRC** : 8.4 Duty cycle : Cont.(S1) : 4.49 ft.lb Insulation class : F Rated torque : 250 % Locked rotor torque Service factor : 1.15 Breakdown torque : 400 % Temperature rise : 80 K Rated speed : 3510 rpm Design : B Locked rotor time : 54s (cold) 30s (hot)

Date 13/04/2022 3/22 This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A. Subject to change without notice

**Changes Summary** 

Performed

Checked

Page

Rev.

Performed by Checked by

### Three Phase Induction Motor - Squirrel Cage



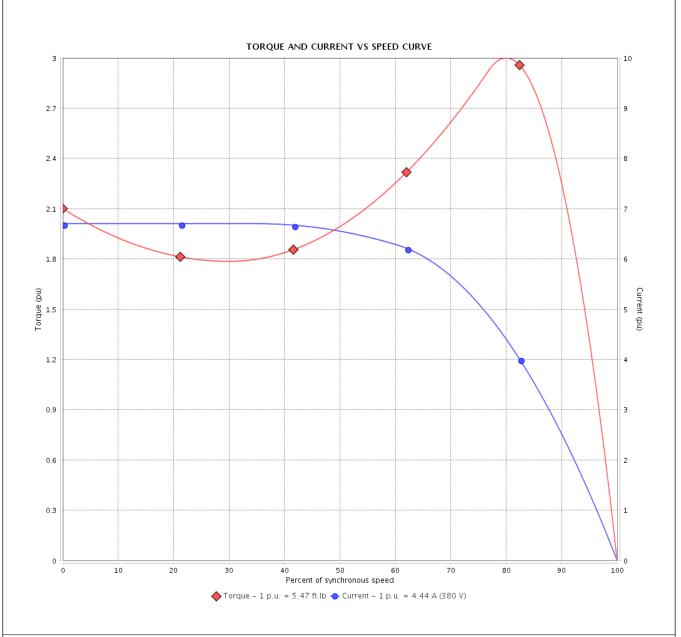
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14192751

Catalog #: 00336XT3E182T



Performance	: 380 V 50 Hz 2P IE2			
Rated current	: 4.44 A	Moment of inertia (J)	: 0.1471 sq.ft.lb	
LRC	: 6.7	Duty cycle	: Cont.(S1)	
Rated torque	: 5.47 ft.lb	Insulation class	: F	
Locked rotor torque	: 210 %	Service factor	: 1.00	
Breakdown torque	: 300 %	Temperature rise	: 80 K	
Rated speed	: 2880 rpm	Design	: B	
Laster destantions	. 77- (1-1) 40- (11-1)			

Locked rotor time : 77s (cold) 43s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			4 / 22	



Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 14192751 Catalog #: 00336XT3E182T TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Current Torque (pu) 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 5.45 ft.lb ◆ Current - 1 p.u. = 4.27 A (400 V) Performance : 400 V 50 Hz 2P IE3 Rated current : 4.27 A Moment of inertia (J) : 0.1471 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 5.45 ft.lb Insulation class : F Rated torque : 240 % Locked rotor torque Service factor : 1.00 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 2890 rpm Design : B Locked rotor time : 77s (cold) 43s (hot)

Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page Date 13/04/2022 5/22 This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

#### Three Phase Induction Motor - Squirrel Cage



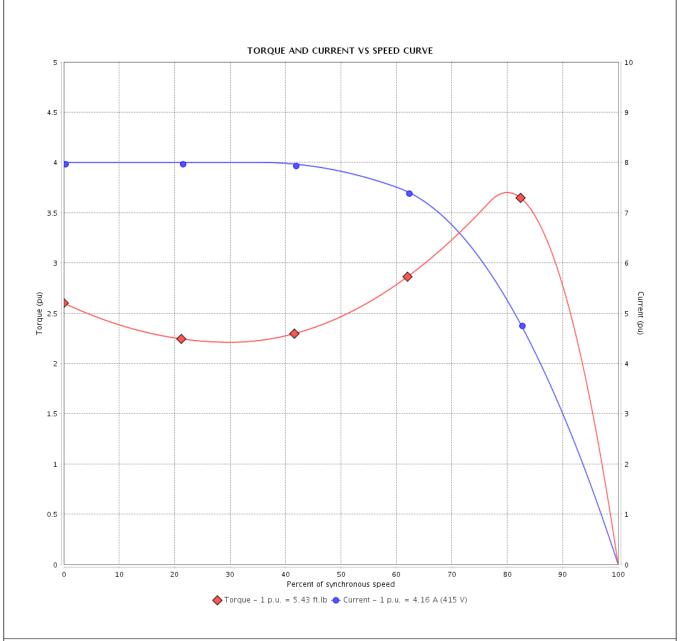
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14192751

Catalog #: 00336XT3E182T



Performance : 415 V 50 Hz 2P IE3 Rated current : 4.16 A Moment of inertia (J) : 0.1471 sq.ft.lb **LRC** : 8.0 Duty cycle : Cont.(S1) : F : 5.43 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 260 % : 1.00 Breakdown torque : 370 % Temperature rise : 80 K Rated speed : B : 2900 rpm Design

Locked rotor time : 77s (cold) 43s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			6 / 22	

#### Three Phase Induction Motor - Squirrel Cage

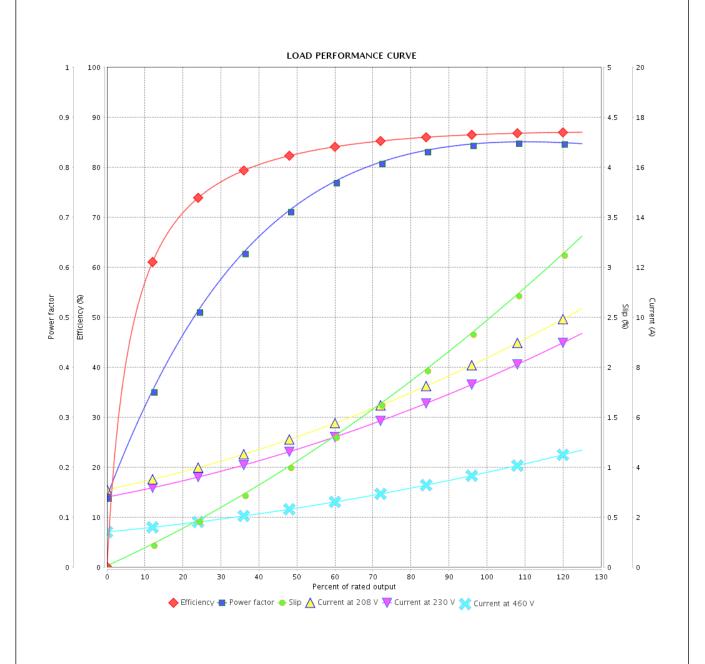


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14192751

Phase

Catalog #: 00336XT3E182T



Performance	:	230/460 V 60 Hz 2P				
Rated current	:	7.52/3.76 A	Moment o	f inertia (J)	: 0.1471 sq.ft.lb	
LRC	:	8.4	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	:	4.49 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	250 %	Service fa	ctor	: 1.15	
Breakdown torque	:	400 %	Temperature rise		: 80 K : B	
Rated speed	:	: 3510 rpm De				
Rev.		Changes Summary	I	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				7 / 22	

#### Three Phase Induction Motor - Squirrel Cage



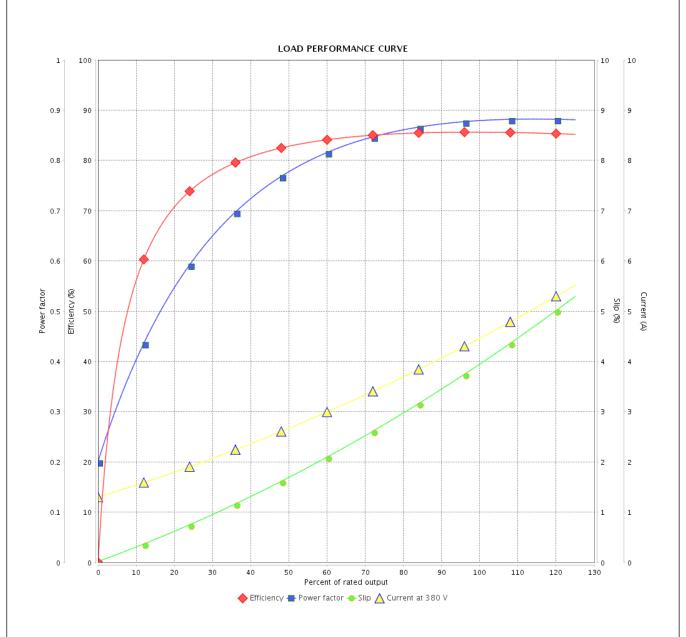
Customer :

Product line : NEMA Premium Efficiency Three- Pr

Phase

Product code: 14192751

Catalog #: 00336XT3E182T



Performance	: 380 V 50 Hz 2P IE2				
Rated current	(1)		` ,		lb
LRC	: 6.7	Duty cycle		: Cont.(S1)	
Rated torque	: 5.47 ft.lb	Insulation	class	: F	
Locked rotor torque	: 210 %	Service factor		: 1.00	
Breakdown torque	: 300 %	Temperature rise		: 80 K	
Rated speed	: 2880 rpm	Design		: B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

8 / 22

13/04/2022

Date

#### Three Phase Induction Motor - Squirrel Cage

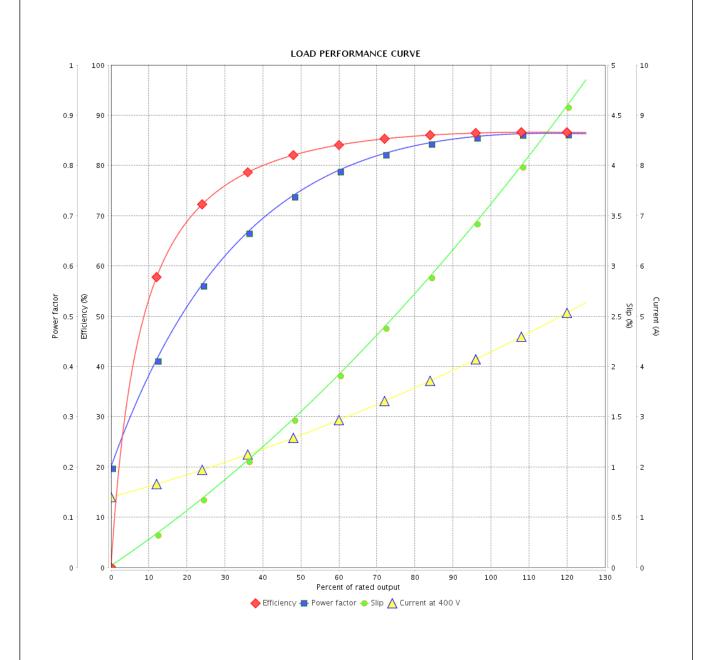


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14192751

Phase

Catalog #: 00336XT3E182T



Performance	: 40	00 V 50 Hz 2P IE3				
Rated current	: 4.	27 A	27 A Moment of		: 0.1471 sq.ft.	lb
LRC	: 7.	.4	Duty cycle	9	: Cont.(S1)	
Rated torque	: 5.	.45 ft.lb	Insulation	class	: F	
Locked rotor tord	jue : 24	40 %	Service fa	ictor	: 1.00	
Breakdown torqu	n torque : 340 % Temperature rise		ure rise	: 80 K		
Rated speed		90 rpm Design			: B	
Rev.		Changes Summary	У	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022	1			9 / 22	

#### Three Phase Induction Motor - Squirrel Cage



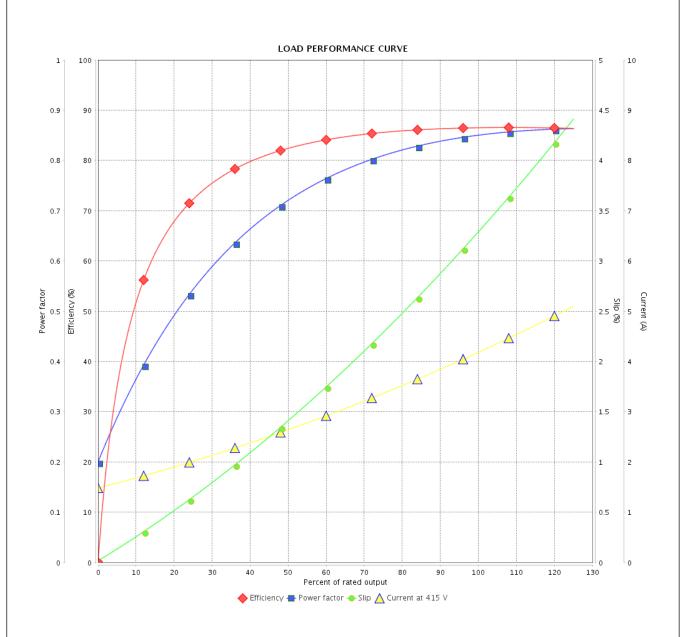
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14192751

Catalog #: 00336XT3E182T



Performance	: 4	15 V 50 Hz 2P IE3				
Rated current	: 4	: 4.16 A		t of inertia (J)	: 0.1471 sq.ft.lb	
LRC	: 8	.0	Duty cy	cle	: Cont.(S1)	
Rated torque	: 5	.43 ft.lb	Insulation	on class	: F	
Locked rotor tord	que : 20	60 %	Service	factor	: 1.00	
Breakdown torqu	ue : 3°	70 %	Temper	ature rise	: 80 K	
Rated speed	: 2	900 rpm	Design		: B	
Rev.		Changes Summar	у	Performed	Checked	Date
Performed by						
Checked by		1			Page	Revision
Date	13/04/2022	1			10 / 22	

### Three Phase Induction Motor - Squirrel Cage

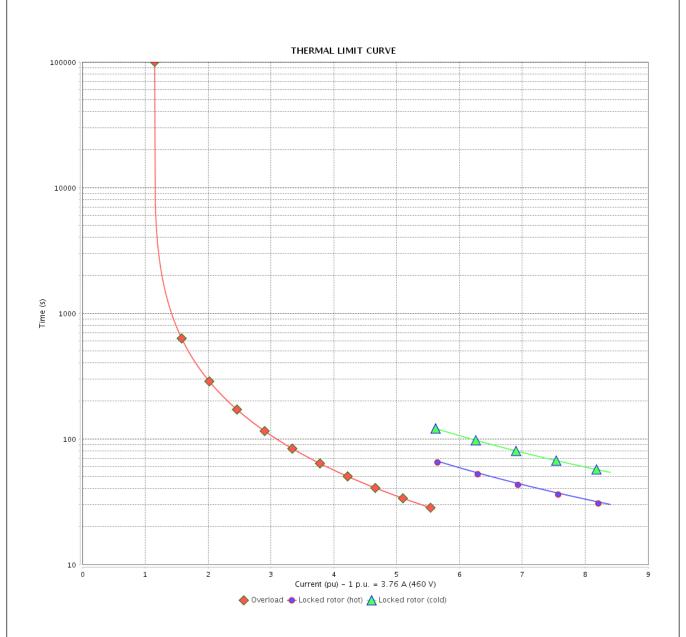


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	14192751	
Floudet iiile	F	Phase				
				Catalog # :	00336XT3E1	82T
Performance		230/460 V 60 Hz 2P				
Rated current LRC		7.52/3.76 A 3.4	Moment of Duty cycle	of inertia (J)	: 0.1471 sq.ft.l : Cont.(S1)	b
Rated torque	: 4	4.49 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu	que : 2	250 % 400 %	Service fa Temperat		: 1.15 : 80 K	
Rated speed		3510 rpm	Design	ure rise	: B	
Heating constan						
Cooling constan						
Rev.		Changes Summary	1	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				11 / 22	

### Three Phase Induction Motor - Squirrel Cage



Customer :



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by		-		Page	Revision
Date	13/04/2022			12 / 22	

### Three Phase Induction Motor - Squirrel Cage

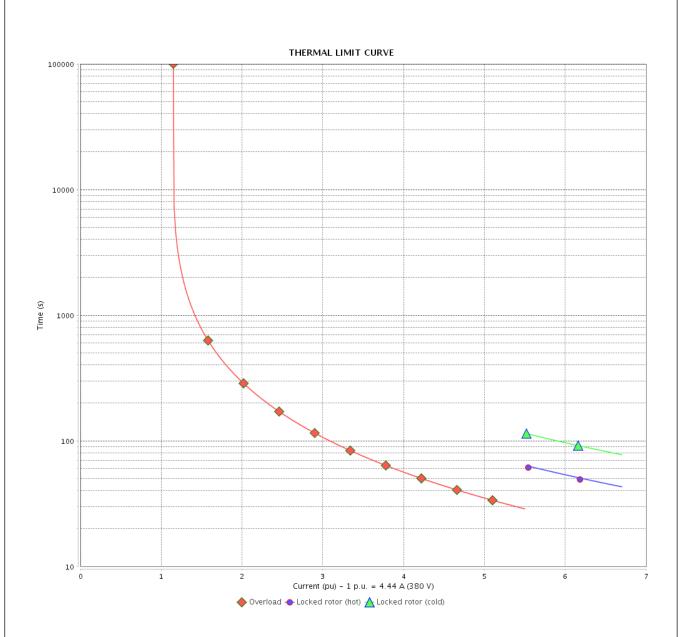


Phase	Premium Efficiency Three-	Product code : Catalog # :	14192751 00336XT3E	182T
Performance : 380 V 50				182T
RC : 6.7 sated torque : 5.47 ft.lb ocked rotor torque : 210 %	Duty cy Insulat Service	ation class ce factor	: 0.1471 sq.ft. : Cont.(S1) : F : 1.00	lb
Breakdown torque : 300 % Rated speed : 2880 rpr Heating constant		erature rise ın	: 80 K : B	
Cooling constant  Rev. Chang	1	Performed	Checked	Date
	 jes Summary	1		
Performed by	ges Summary			
Date 13/04/2022	ges Summary		Page	Revisio

### Three Phase Induction Motor - Squirrel Cage



Customer :



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by		-		Page	Revision
Date	13/04/2022			14 / 22	

### Three Phase Induction Motor - Squirrel Cage

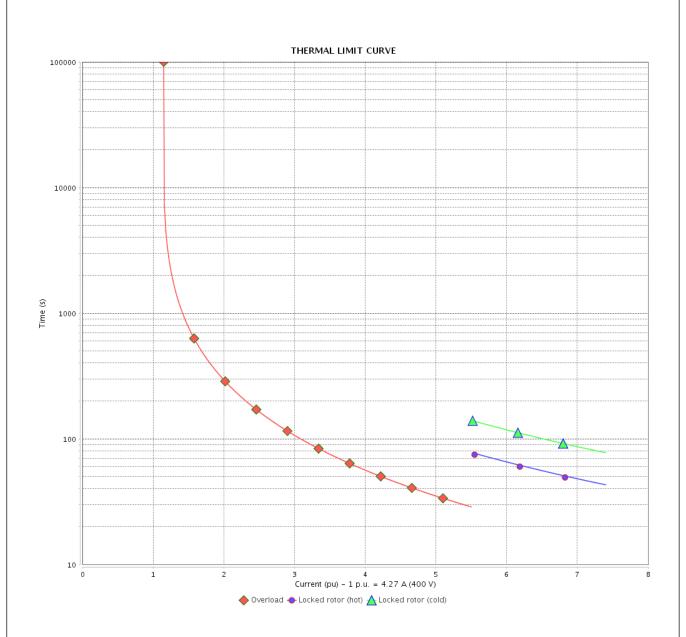


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	14192751	
1 Toddot IIIIc	P	hase				
				Catalog # :	00336XT3E1	821
Performance		00 V 50 Hz 2P IE3	1			
Rated current LRC	: 4 : 7	.27 A 4	Moment of Duty cycle	of inertia (J)	: 0.1471 sq.ft.l : Cont.(S1)	b
Rated torque	: 5	.45 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		40 % 40 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		890 rpm	Design	uie lise	: B	
Heating constan						
Cooling constan						
Rev.		Changes Summary	1	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				15 / 22	

### Three Phase Induction Motor - Squirrel Cage



Customer :



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			16 / 22	

### Three Phase Induction Motor - Squirrel Cage

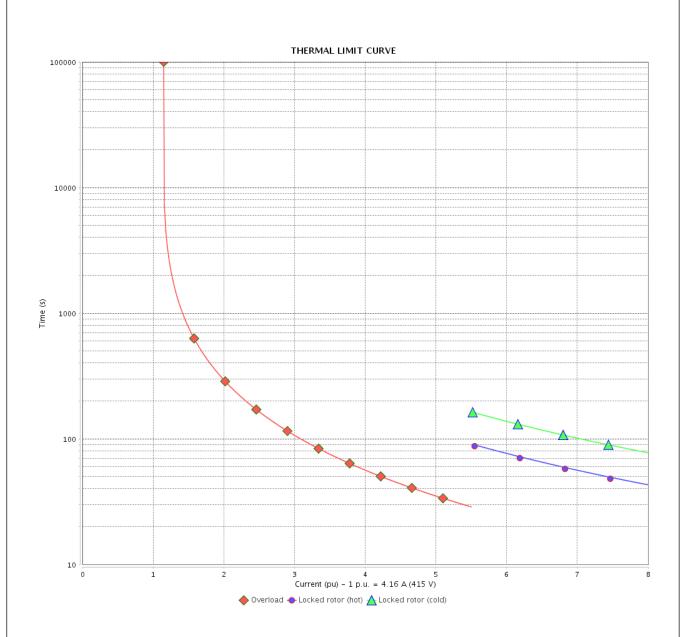


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	14192751	
1 Toddot IIITo	P	hase				
				Catalog # :	00336XT3E1	821
Performance	: 4	15 V 50 Hz 2P IE3				
Rated current		.16 A	Moment of	of inertia (J)	: 0.1471 sq.ft.l	b
LRC	: 8		Duty cycle	Э	: Cont.(S1)	
Rated torque Locked rotor tord		.43 ft.lb 60 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue : 3	70 %	Temperat		: 80 K	
Rated speed	: 2	900 rpm	Design		: B	
Heating constan						
Cooling constan	t					
Rev.		Changes Summary		Performed	Checked	Date
D ( ::		1				
Performed by		-			Dama	Davidata -
Checked by	12/04/2022	_			Page	Revision
Date	13/04/2022	1			17 / 22	

### Three Phase Induction Motor - Squirrel Cage



Customer :



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			18 / 22	

### Three Phase Induction Motor - Squirrel Cage



Customer

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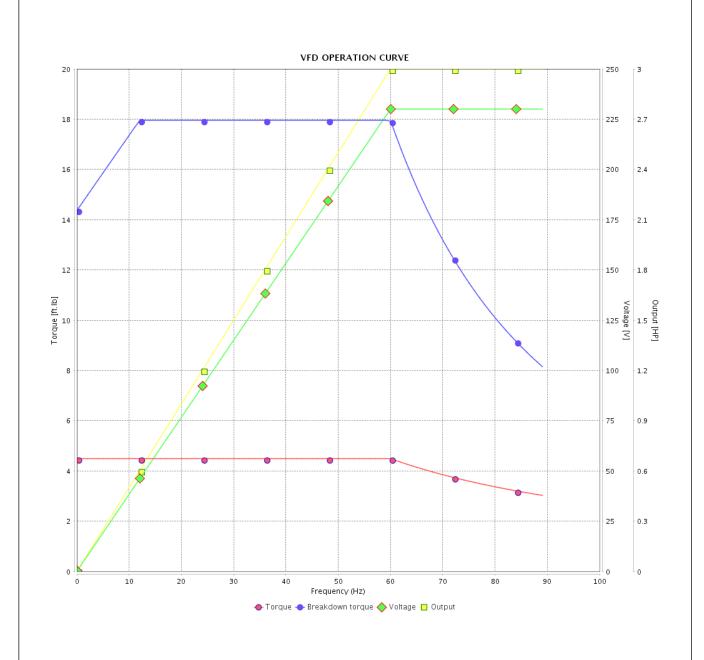
Date

13/04/2022

Product line : NEMA Premium Efficiency Three- Product code : 14192751

Phase

Catalog #: 00336XT3E182T



Performance	: 230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.52/3.76 A : 8.4 : 4.49 ft.lb : 250 % : 400 % : 3510 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.1471 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					

Page

19 / 22

Revision

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Date

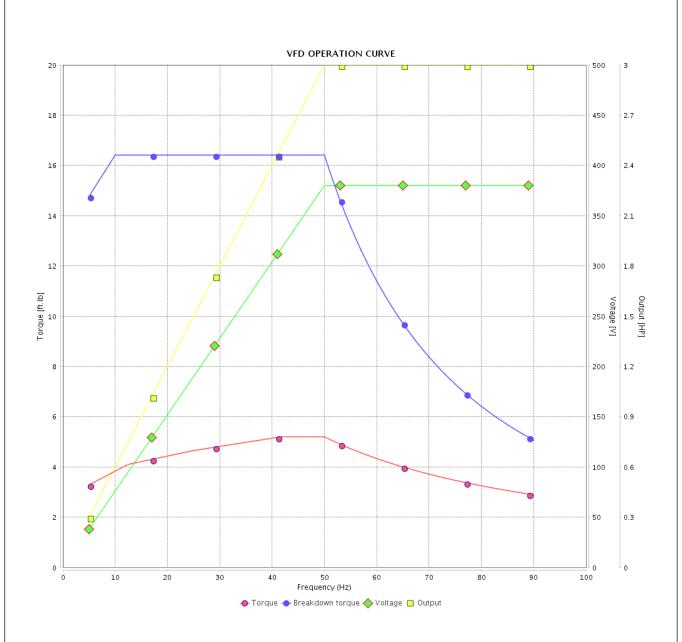
13/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14192751

Catalog #: 00336XT3E182T



Performance : 380 V 50 Hz 2P IE2 Rated current : 4.44 A Moment of inertia (J) : 0.1471 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 5.47 ft.lb Insulation class Rated torque : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 2880 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

20 / 22

#### Three Phase Induction Motor - Squirrel Cage



Customer

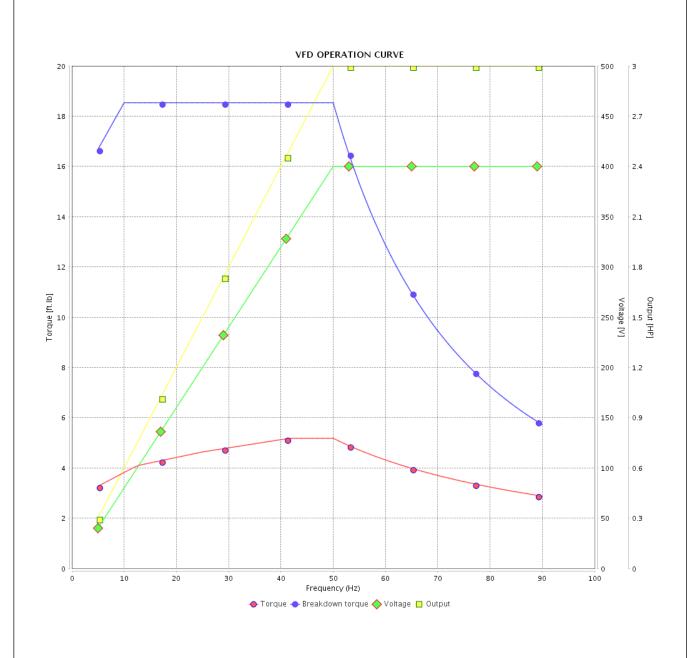
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00336XT3E182T

14192751

21 / 22



: 4.27 A				
: 7.4 : 5.45 ft.lb : 240 % : 340 % : 2890 rpm	Moment of inertia (J Duty cycle Insulation class Service factor Temperature rise Design	J)	: 0.1471 sq.ft.lt : Cont.(S1) : F : 1.00 : 80 K : B	)
Changes Summary	Perfor	med	Checked	Date
				Revision
	: 5.45 ft.lb : 240 % : 340 % : 2890 rpm	: 5.45 ft.lb : 240 % : 340 % : 2890 rpm  Insulation class Service factor Temperature rise Design	: 5.45 ft.lb : 240 % : 340 % : 2890 rpm  Insulation class Service factor Temperature rise Design	: 5.45 ft.lb       Insulation class       : F         : 240 %       Service factor       : 1.00         : 340 %       Temperature rise       : 80 K         : 2890 rpm       Design       : B

13/04/2022

Date

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Date

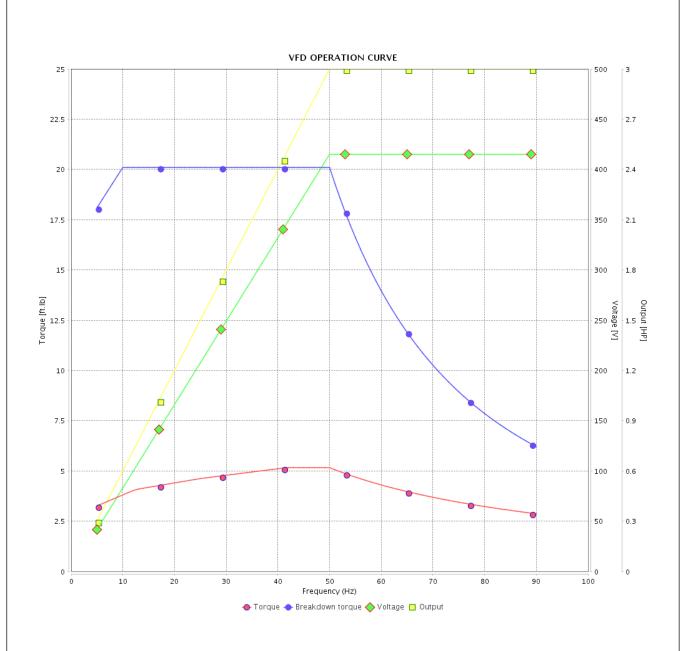
13/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14192751

Catalog #: 00336XT3E182T



Performance : 415 V 50 Hz 2P IE3 Rated current : 4.16 A Moment of inertia (J) : 0.1471 sq.ft.lb **LRC** : 8.0 Duty cycle : Cont.(S1) : 5.43 ft.lb Insulation class Rated torque : F Locked rotor torque : 260 % Service factor : 1.00 Breakdown torque : 370 % Temperature rise : 80 K Rated speed : 2900 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

22 / 22

