### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14337969

Phase

Catalog #: 00318XT3E182TC

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

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. weight<sup>3</sup> : 126 lb

7 illitado		. 1000 111.0.0	, ippioni woigi			
1		: IP55	Moment of inc	oment of inertia (J) : 0.2781 sq.ft.lb		
Design		: B				
Output [HP]		3	3	3	3	
Poles		4	4	4	4	
Frequency [Hz]		60	50	50	50	
Rated voltage [V]		230/460	380	400	415	
Rated current [A]		7.82/3.91	4.60	4.48	4.38	
L. R. Amperes [A]		62.6/31.3	29.4	31.4	32.4	
LRC [A]		8.0x(Code K)	6.4x(Code H)	7.0x(Code J)	7.4x(Code J)	
No load current [A	.]	4.20/2.10	2.02	2.20	2.34	
Rated speed [RPN	Л]	1760	1440	1445 145		
Slip [%]		2.22	4.00	3.67	3.33	
Rated torque [ft.lb]	Rated torque [ft.lb]		10.9	10.9	10.9	
Locked rotor torqu	Locked rotor torque [%]		200	229	260	
Breakdown torque	: [%]	320	229	260	290	
Service factor		1.15	1.00 1.00		1.00	
Temperature rise		80 K	80 K	80 K	80 K	
Locked rotor time		50s (cold) 28s (hot)	45s (cold) 25s (hot)	45s (cold) 25s (hot)	45s (cold) 25s (hot)	
Noise level <sup>2</sup>		56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	
	25%	86.4	89.1	88.0	87.2	
Efficiency (%)	50%	87.5	88.5	87.5	87.5	
Efficiency (%)	75%	88.5	88.5	88.5	88.5	
100%		89.5	87.5	87.5	88.5	
25%		0.35	0.41	0.38	0.35	
Power Factor	50%	0.59	0.67	0.63	0.59	
I OWEI FACIOI	75%	0.71	0.78	0.75	0.72	
	100%	0.79	0.83	0.81	0.79	

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

Bearing type : 6307 2RS 6206 2RS Max. traction : 138 lb Sealing : Oil Seal Lip Seal Max. compression : 264 lb

Lubrication interval : - - Lubricant amount : - Lubricant type : Mobil Polyrex EM

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Notes

USABLE @208V 8.65A SF 1.15 SFA 9.94A

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	14/04/2022			1 / 22	

# DATA SHEET



Customer		

Thermal	protection
HIIGHIIIAI	protection

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	14/04/2022			2 / 22	



Revision

Page

3/22

Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 14337969 Catalog #: 00318XT3E182TC TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Current Torque (pu) 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 8.95 ft.lb ◆ Current - 1 p.u. = 3.91 A (460 V) Performance : 230/460 V 60 Hz 4P Rated current : 7.82/3.91 A Moment of inertia (J) : 0.2781 sq.ft.lb **LRC** : 8.0 Duty cycle : Cont.(S1) : 8.95 ft.lb Insulation class : F Rated torque : 250 % Locked rotor torque Service factor : 1.15 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 1760 rpm Design : B Locked rotor time : 50s (cold) 28s (hot) Date Rev. Performed Checked **Changes Summary** 

Performed by Checked by

Date

14/04/2022

#### Three Phase Induction Motor - Squirrel Cage



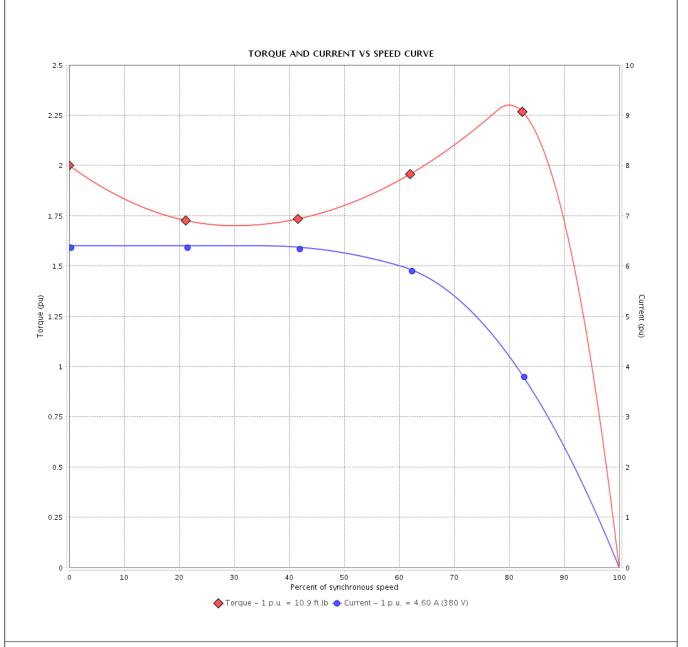
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14337969

Catalog #: 00318XT3E182TC



Performance : 380 V 50 Hz 4P IE3 Rated current : 4.60 A Moment of inertia (J) : 0.2781 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : F : 10.9 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 200 % : 1.00 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1440 rpm Design : B

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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			4 / 22	

#### Three Phase Induction Motor - Squirrel Cage



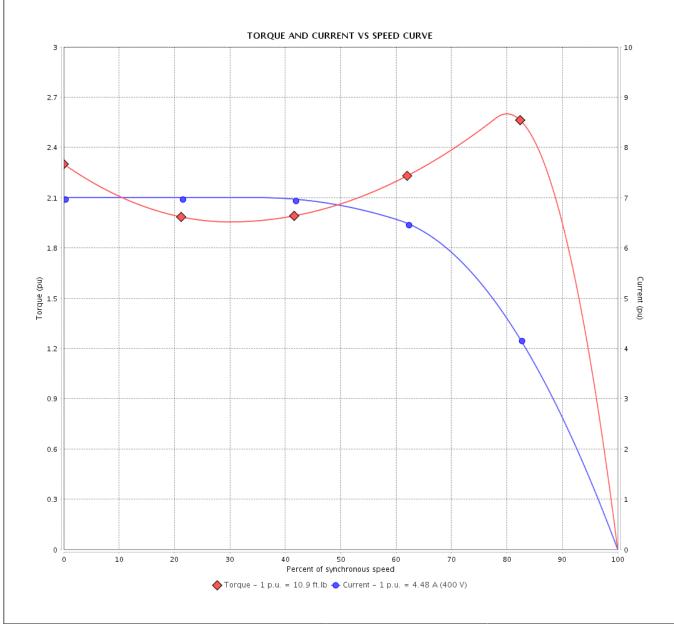
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

roduct code: 14337969

Catalog #: 00318XT3E182TC



Performance : 400 V 50 Hz 4P IE3 Rated current : 4.48 A Moment of inertia (J) : 0.2781 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) : 10.9 ft.lb Insulation class : F Rated torque : 229 % : 1.00 Locked rotor torque Service factor : 80 K Breakdown torque : 260 % Temperature rise : B Rated speed : 1445 rpm Design Locked rotor time : 45s (cold) 25s (hot)

Locked rotor time		03 (0014) 203 (1101)			
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			5 / 22	

#### Three Phase Induction Motor - Squirrel Cage



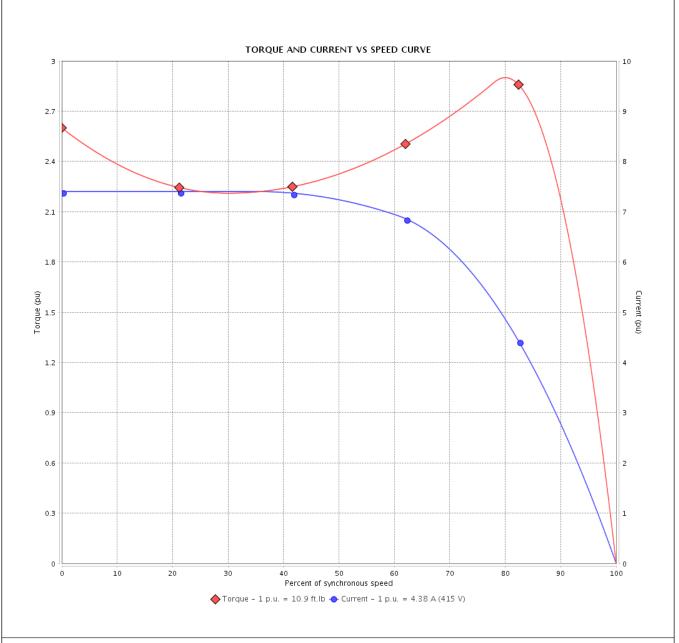
Customer :

Product line : NEMA Premium Efficiency Three- Produc

Phase

Product code: 14337969

Catalog #: 00318XT3E182TC



Performance : 415 V 50 Hz 4P IE3

Rated current : 4.38 A Moment of inertia (J) : 0.2781 sq.ft.lb

**LRC** : 7.4 Duty cycle : Cont.(S1) : F : 10.9 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 260 % : 1.00 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1450 rpm Design : B

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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			6 / 22	

#### Three Phase Induction Motor - Squirrel Cage

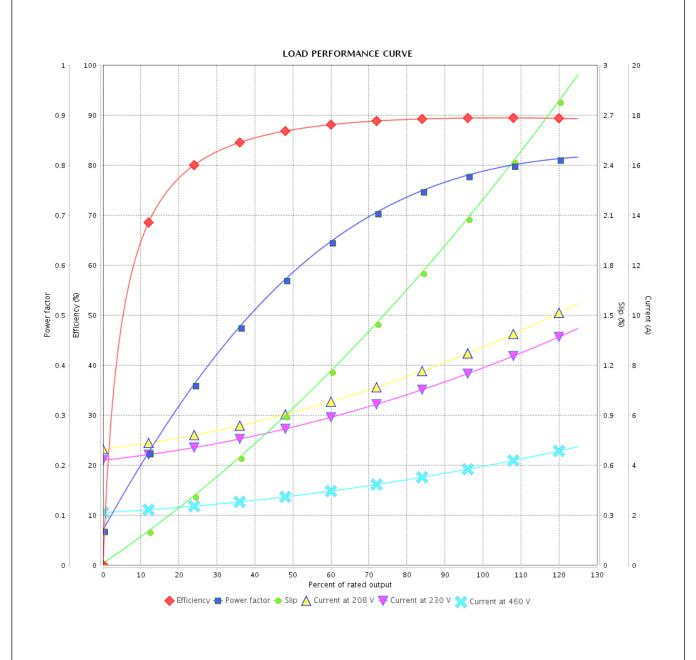


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14337969

Phase

Catalog #: 00318XT3E182TC



Performance	: 2	30/460 V 60 Hz 4P				
Rated current		.82/3.91 A	Moment o	f inertia (J)	: 0.2781 sq.ft.lb	
LRC	: 8	.0	Duty cycle	<b>:</b>	: Cont.(S1)	
Rated torque	: 8	.95 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	50 %	Service fa	ctor	: 1.15	
Breakdown torque	torque : 320 % Temperature rise		ıre rise	: 80 K		
Rated speed	: 1	760 rpm	Design		: B	
Rev.		Changes Summary	-	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				7 / 22	

#### Three Phase Induction Motor - Squirrel Cage



Customer

Checked by

Date

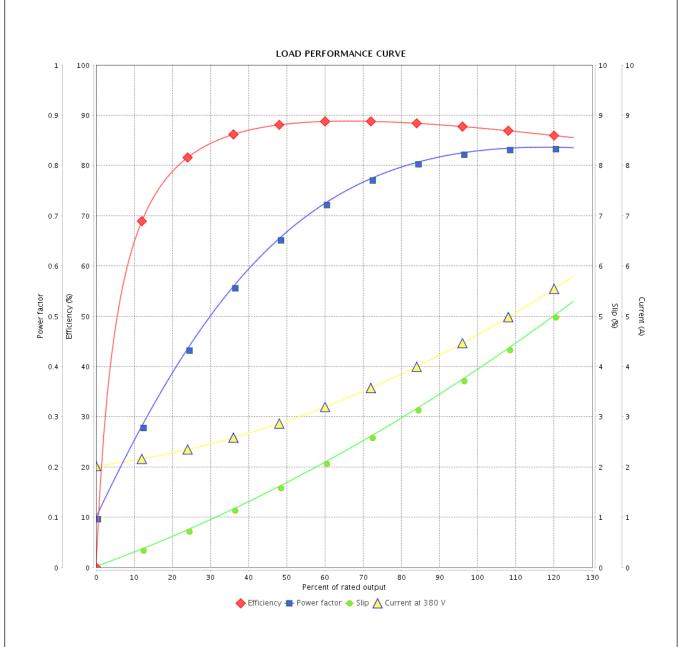
14/04/2022

Product line : NEMA Premium Efficiency Three- P

Phase

Product code: 14337969

Catalog #: 00318XT3E182TC



Performance	: 380 V 50 Hz 4P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 0.2781 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary	1	Performed	Checked	Date	
Performed by						

Page

8 / 22

#### Three Phase Induction Motor - Squirrel Cage

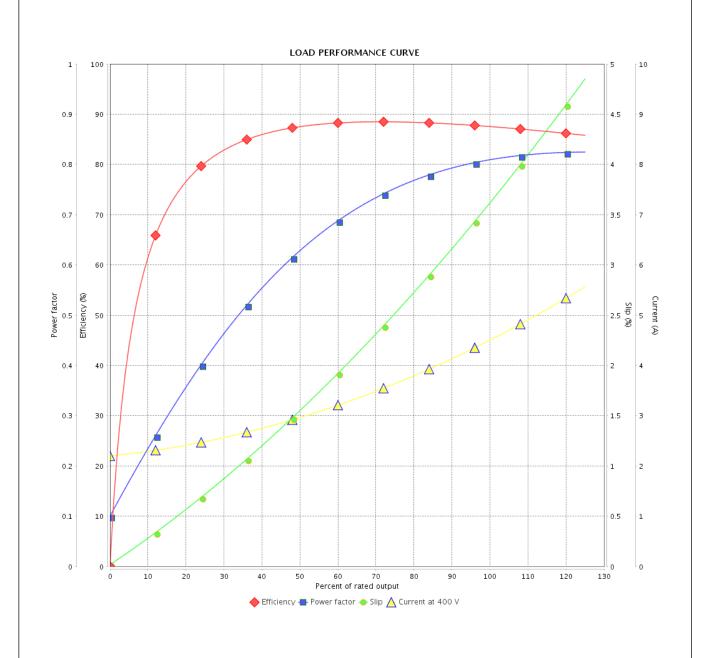


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14337969

Phase

Catalog #: 00318XT3E182TC



Performance	: 4	100 V 50 Hz 4P IE3				
Rated current	: 4	1.48 A	Moment o	Moment of inertia (J)		.lb
LRC	: 7	7.0	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 1	10.9 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	229 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	260 %	% Temperature rise		: 80 K	
Rated speed	: 1	1445 rpm	Design		: B	
Rev.		Changes Summar	у	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				9 / 22	

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

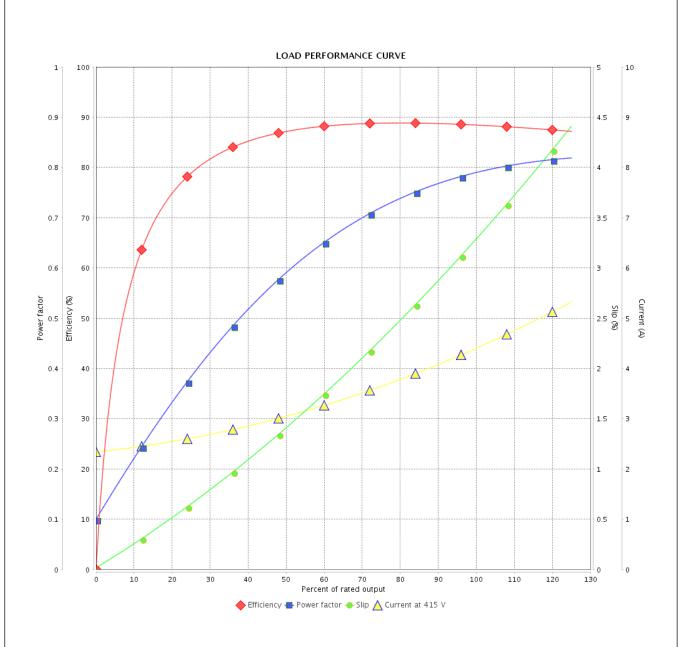
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Product line : NEMA Premium Efficiency Three- Product of

Phase

Product code: 14337969

Catalog #: 00318XT3E182TC



Performance	: 415 V 50 Hz 4P IE3				
Rated current	Rated current : 4.38 A M		of inertia (J)	: 0.2781 sq.ft.lb	
LRC	: 7.4	Duty cycle	•	: Cont.(S1)	
Rated torque			class	: F ` ´	
Locked rotor torque	: 260 %	Service factor		: 1.00	
Breakdown torque	: 290 %	Temperature rise		: 80 K	
Rated speed	: 1450 rpm	Design		: B	
Rev.	Changes Summary	I	Performed	Checked	Date
Performed by				1	

Page

10/22

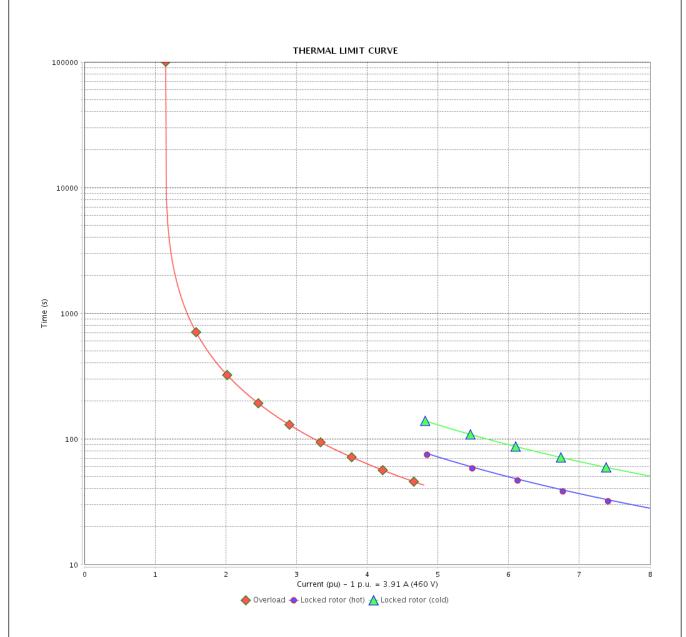


Customer	:					
Product line	:	NEMA Premium Efficiency	Three-	Product code :	14337969	
		Phase		Catalog # :	00318XT3E <sup>-</sup>	182TC
Performance Rated current RC Rated torque ocked rotor tord	: 7 : 8 : 8 que : 2	230/460 V 60 Hz 4P 7.82/3.91 A 8.0 8.95 ft.lb 250 %	Duty cycle Insulation Service fa	class actor	: 0.2781 sq.ft. : Cont.(S1) : F : 1.15	lb
Breakdown torqu Rated speed Heating constan	ue : 3 : 1	320 % 760 rpm	Temperat Design	ure rise	: 80 K : B	
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
		1				
Performed by						
Checked by					Page	Revisio
Date	14/04/2022				11 / 22	

### Three Phase Induction Motor - Squirrel Cage



Customer :



Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			12 / 22	

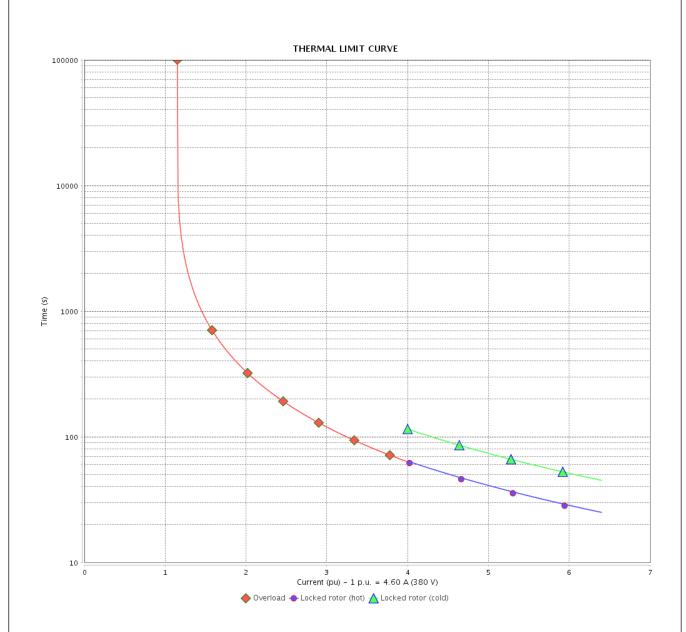


Product line		NEMA Premium Efficiency T	Three-	Product code :	14337969	
		hase		Catalog # :	00318XT3E1	182TC
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed	: 4 : 6 : 1 que : 2 ue : 2:	.4 0.9 ft.lb 00 % 29 %	Moment of Duty cycle Insulation Service fa Temperation Design	class actor	: 0.2781 sq.ft.l : Cont.(S1) : F : 1.00 : 80 K : B	lb
Performance Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar	: 4 : 6 : 11 que : 2: ue : 2: : 1.	.60 A .4 0.9 ft.lb 00 % 29 %	Duty cycle Insulation Service fa Temperate	e ı class actor	: Cont.(S1) : F : 1.00 : 80 K	lb
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar	: 4 : 6 : 11 que : 2: ue : 2: : 1.	.60 A .4 0.9 ft.lb 00 % 29 %	Duty cycle Insulation Service fa Temperate	e ı class actor	: Cont.(S1) : F : 1.00 : 80 K	lb Date
Rated current RC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar Cooling constar	: 4 : 6 : 11 que : 2: ue : 2: : 1.	.60 A .4 0.9 ft.lb 00 % 29 % 440 rpm	Duty cycle Insulation Service fa Temperate	e I class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar Cooling constar Rev.	: 4 : 6 : 11 que : 2: ue : 2: : 1.	.60 A .4 0.9 ft.lb 00 % 29 % 440 rpm	Duty cycle Insulation Service fa Temperate	e I class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	
Rated current .RC Rated torque .ocked rotor tor Breakdown torq Rated speed Heating constar Cooling constar	: 4 : 6 : 11 que : 2: ue : 2: : 1.	.60 A .4 0.9 ft.lb 00 % 29 % 440 rpm	Duty cycle Insulation Service fa Temperate	e I class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	

### Three Phase Induction Motor - Squirrel Cage



Customer



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

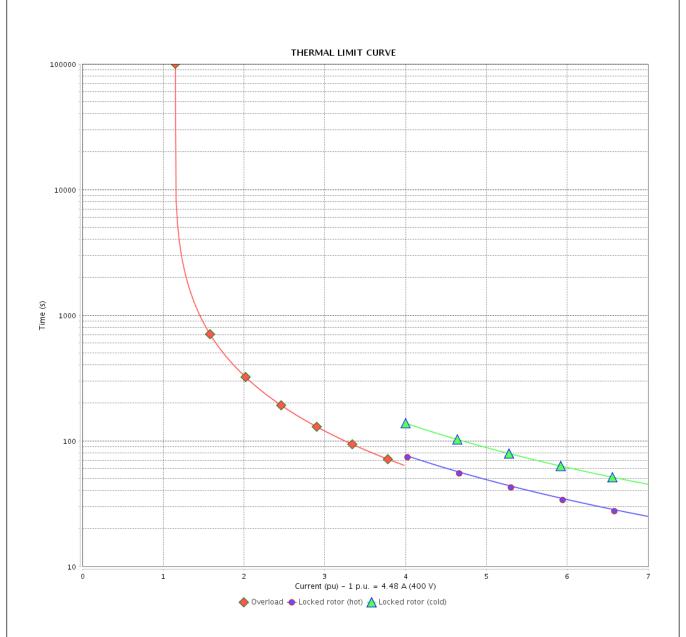


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Product line		NEMA Premium Efficiency	Three-	Product code :	14337969	
1 Toddot IIITo	P	hase				10070
				Catalog # :	00318XT3E1	18210
Performance	: 4	00 V 50 Hz 4P IE3				
Rated current		.48 A	Moment of	of inertia (J)	: 0.2781 sq.ft.	lb
LRC Rated torque	: 7 : 1	.0 0.9 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor tord	que : 2	29 %	Service fa	ector	: 1.00	
Breakdown torqı Rated speed		60 % 445 rpm	Temperati Design	ure rise	: 80 K : B	
			2001911			
Heating constan Cooling constan						
Rev.		Changes Summary		Performed	Checked	Date
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Performed by					I	
Checked by		-			Page	Revision
Date	14/04/2022	1			15 / 22	

### Three Phase Induction Motor - Squirrel Cage



Customer :



Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			16 / 22	

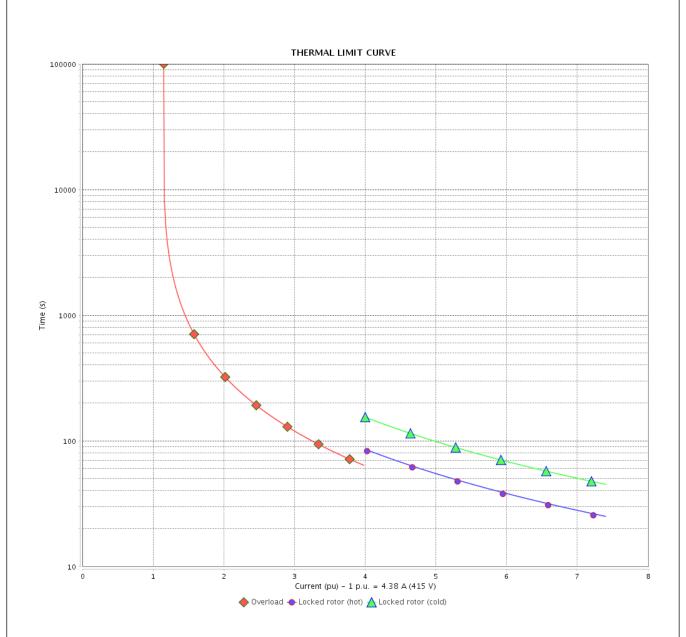


Customer	:					
Product line	: I Pi	NEMA Premium Efficiency <sup>·</sup> hase		Product code : Catalog # :	14337969 00318XT3E	182TC
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: 4. : 7. : 10 que : 20 ue : 29	15 V 50 Hz 4P IE3 .38 A .4 0.9 ft.lb 60 % 90 % 450 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ictor	: 0.2781 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : B	lb
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
		<u> </u>				
Performed by				I		
Checked by					Page	Revision
Date	14/04/2022				17 / 22	

### Three Phase Induction Motor - Squirrel Cage



Customer :



Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by		-		Page	Revision
Date	14/04/2022			18 / 22	

#### Three Phase Induction Motor - Squirrel Cage

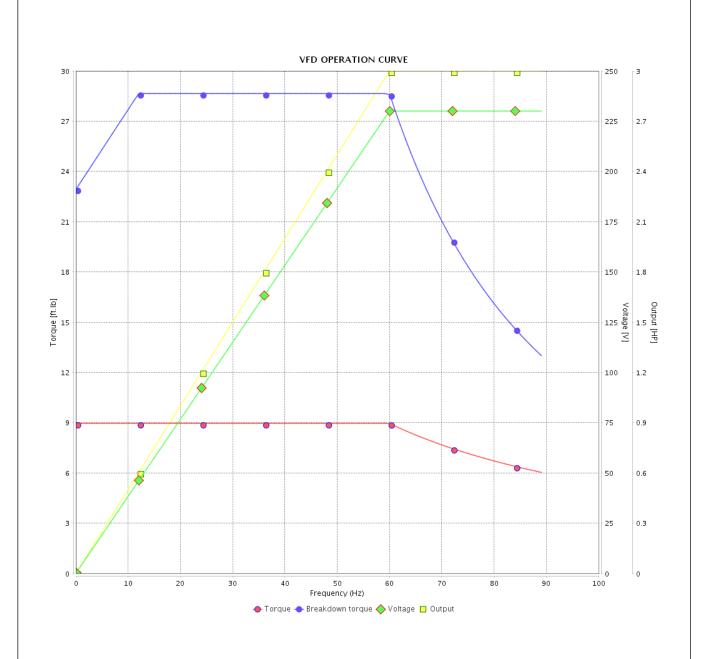


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14337969

Phase

Catalog #: 00318XT3E182TC



Performance	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.82/3.91 A : 8.0 : 8.95 ft.lb : 250 % : 320 % : 1760 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2781 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

19 / 22

14/04/2022

Date

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

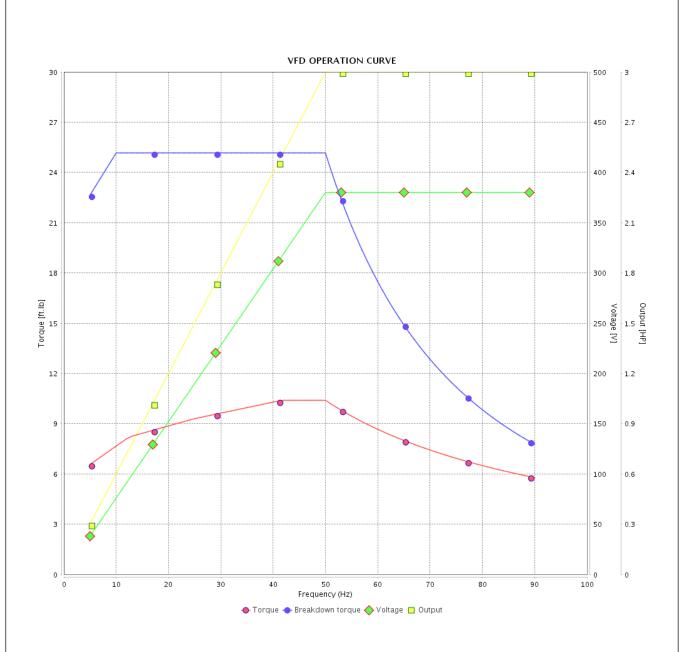
14/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14337969

Catalog #: 00318XT3E182TC



Performance : 380 V 50 Hz 4P IE3 Rated current : 4.60 A Moment of inertia (J) : 0.2781 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.4 : 10.9 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1440 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Page

20 / 22

### Three Phase Induction Motor - Squirrel Cage



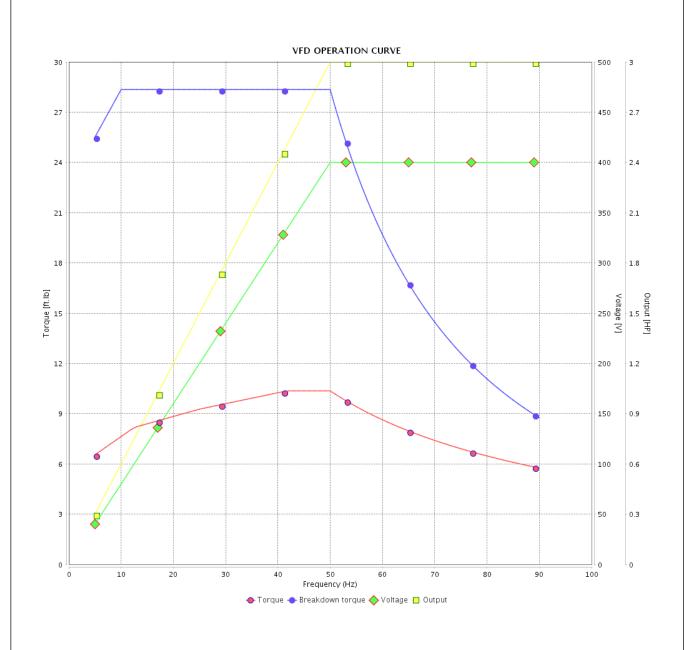
Customer

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Product line : NEMA Premium Efficiency Three- Product code : 14337969

Phase

Catalog #: 00318XT3E182TC



Performance	: 400 V 50 Hz 4P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.48 A : 7.0 : 10.9 ft.lb : 229 % : 260 % : 1445 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K		)
Rev.	Changes Summary	Design	Performed	: B Checked	Date	
Performed by	,					

Page

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

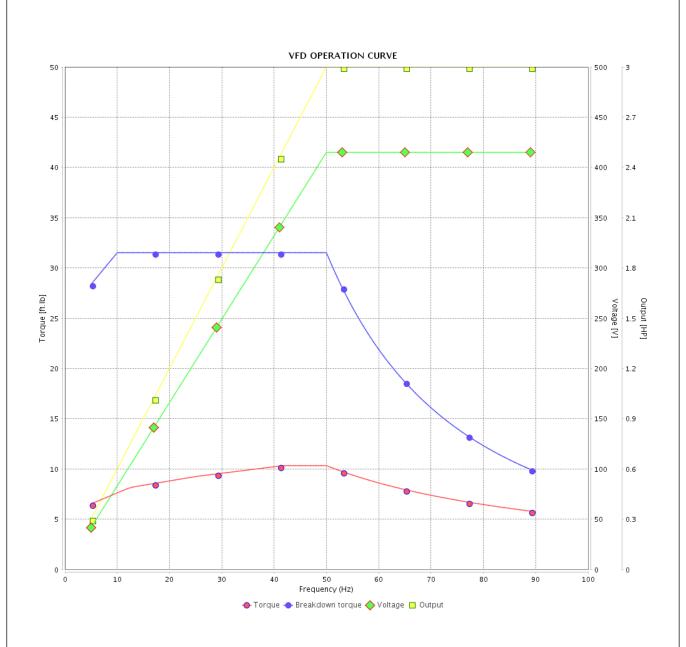
14/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14337969

Catalog #: 00318XT3E182TC



Performance : 415 V 50 Hz 4P IE3 Rated current : 4.38 A Moment of inertia (J) : 0.2781 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 10.9 ft.lb Insulation class : F Rated torque Locked rotor torque : 260 % Service factor : 1.00 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1450 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Page

22 / 22

