DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14353304

Phase

Catalog #: 00512XT3E215T

Frame : 213/5T Cooling method : IC411 - TEFC

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 : 215 lb

Protection degree : IP55 Moment of inertia (J) : 1.47 sq ft lb

Protection degree		: IP55	Moment of inertia (J) : 1.47 sq.ft.lb		
Design		: B			
Output [HP]		5	5	5	5
Poles		6	6	6	6
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		13.7/6.83	8.10	7.82	7.55
L. R. Amperes [A]		92.9/46.4	44.5	47.7	49.1
LRC [A]		6.8x(Code J)	5.5x(Code G)	6.1x(Code H)	6.5x(Code H)
No load current [A]	6.90/3.45	3.41	3.68	3.90
Rated speed [RPN	/ []	1170	960	965	970
Slip [%]	Slip [%]		4.00	3.50	3.00
	Rated torque [ft.lb]		27.4	27.2	27.1
Locked rotor torqu	Locked rotor torque [%]		140	160	190
Breakdown torque	[%]	260	200	229	250
Service factor		1.15	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		102s (cold) 57s (hot)	54s (cold) 30s (hot)	54s (cold) 30s (hot)	54s (cold) 30s (hot)
Noise level ²		55.0 dB(A)	53.0 dB(A)	53.0 dB(A)	53.0 dB(A)
	25%	88.2	89.8	89.1	87.2
Efficiency (%)	50%	88.5	88.5	88.5	87.5
Efficiency (%)	75%	89.5	88.5	88.5	88.5
	100%	89.5	86.8	87.5	88.5
	25%	0.34	0.40	0.37	0.34
Power Factor	50%	0.58	0.65	0.61	0.58
I OWEI FACIOI	75%	0.70	0.76	0.73	0.71
	100%	0.76	0.80	0.78	0.77

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

Bearing type : 6308 2RS 6207 2RS Max. traction : 274 lb Sealing : Oil Seal Lip Seal Max. compression : 489 lb

Lubricant amount : - - Lubricant type : Mobil Polyrex EM

Notes

Lubrication interval

USABLE @208V 15.1A SF 1.15 SFA 17.4A

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 / 22	

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer	
Customer	

Thermal protection

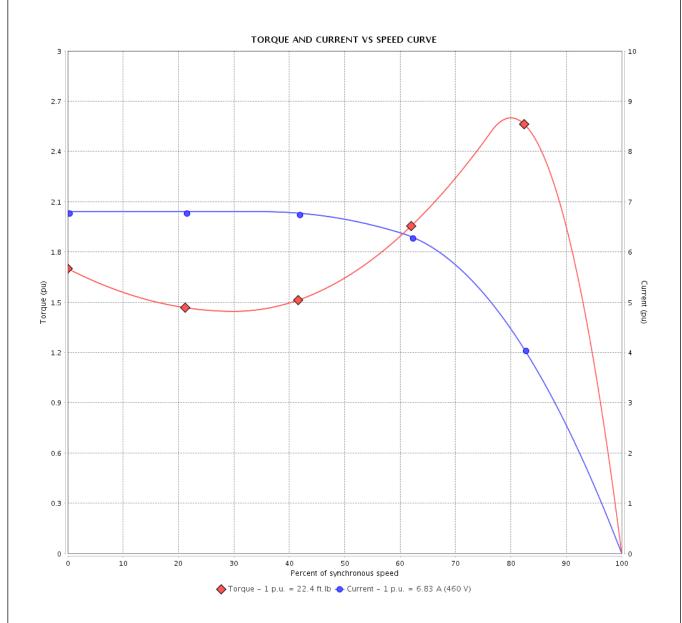
		•		
ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			2 / 22	

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 14353304 Catalog #: 00512XT3E215T



Performance : 230/460 V 60 Hz 6P Rated current : 13.7/6.83 A Moment of inertia (J) : 1.47 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) : 22.4 ft.lb Insulation class Rated torque : F : 170 % Locked rotor torque Service factor : 1.15 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1170 rpm Design : B Locked rotor time : 102s (cold) 57s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			3 / 22	

Three Phase Induction Motor - Squirrel Cage



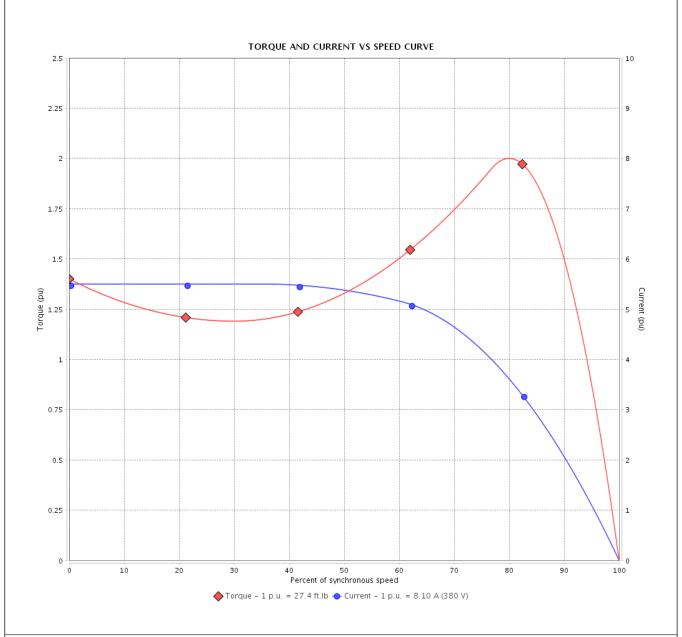
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14353304

Catalog #: 00512XT3E215T



Performance : 380 V 50 Hz 6P IE3 Rated current : 8.10 A Moment of inertia (J) : 1.47 sq.ft.lb **LRC** : 5.5 Duty cycle : Cont.(S1) : 27.4 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 140 % : 1.00 Breakdown torque : 200 % Temperature rise : 80 K Rated speed : 960 rpm Design : B

Locked rotor time : 54s (cold) 30s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			4 / 22	

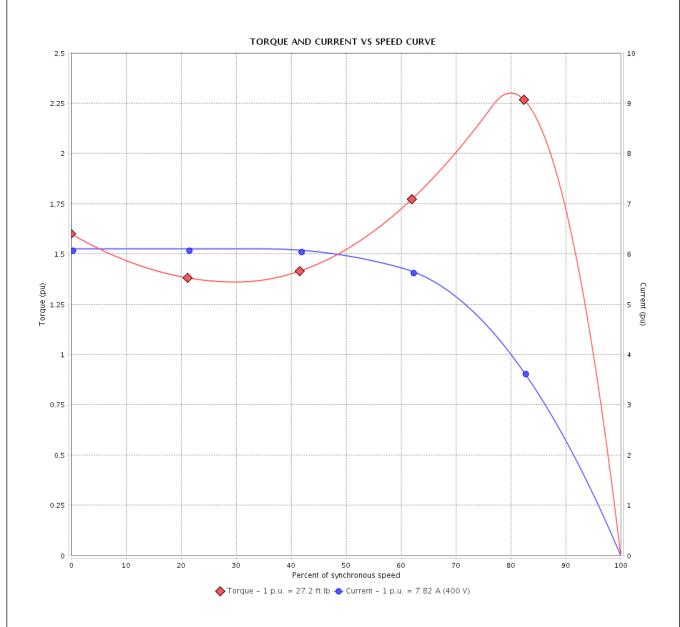
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14353304

Catalog #: 00512XT3E215T



Performance	: 400 V 50 Hz 6P IE3		
Rated current	: 7.82 A	Moment of inertia (J)	: 1.47 sq.ft.lb
LRC	: 6.1	Duty cycle	: Cont.(S1)
Rated torque	: 27.2 ft.lb	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 965 rpm	Design	: B
Locked rotor time	: 54s (cold) 30s (hot)	1	·

LOCKCU TOLOT LITT		743 (cold) 503 (flot)			
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			5 / 22	

Three Phase Induction Motor - Squirrel Cage



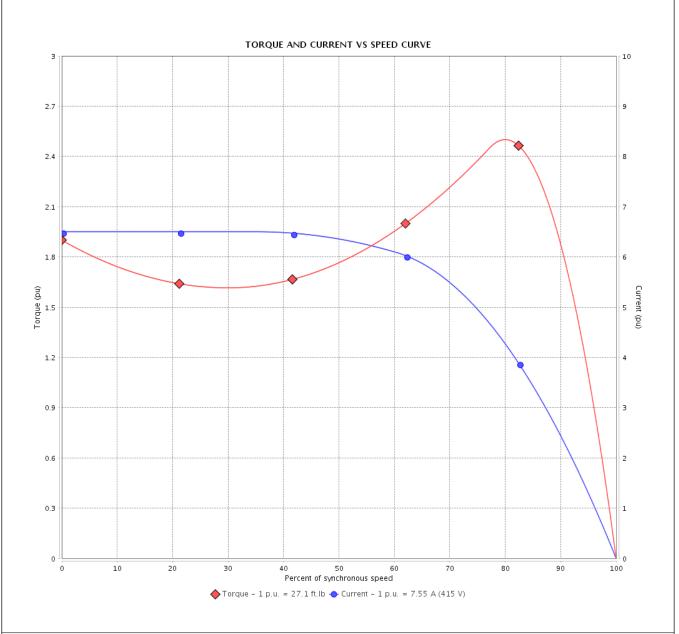
Customer :

Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

Product code: 14353304

Catalog #: 00512XT3E215T



Performance	: 415 V 50 Hz 6P IE3		
Rated current LRC	: 7.55 A : 6.5	Moment of inertia (J) Duty cycle	: 1.47 sq.ft.lb : Cont.(S1)
Rated torque	: 27.1 ft.lb	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 970 rpm	Design	: B
Looked reter time	: E4a (aald) 20a (bat)		

Locked rotor time : 54s (cold) 30s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			6 / 22	

Three Phase Induction Motor - Squirrel Cage



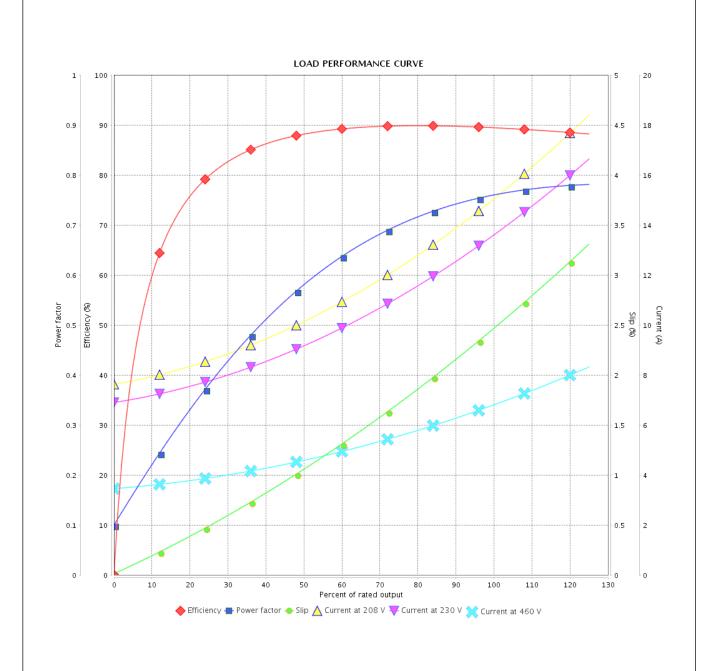
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00512XT3E215T

14353304



Performance	: 2	230/460 V 60 Hz 6P				
Rated current	: 1	13.7/6.83 A	Moment o	f inertia (J)	: 1.47 sq.ft.lb	
LRC	: 6	3.8	Duty cycle	!	: Cont.(S1)	
Rated torque	: 2	22.4 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 1	170 %	Service fa	ctor	: 1.15	
Breakdown torque	: 2	260 %	Temperature rise		: 80 K	
Rated speed	: '	1170 rpm	Design		: B	
Rev.		Changes Summary	1	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Data	12/04/2022				7 / 22	

Three Phase Induction Motor - Squirrel Cage



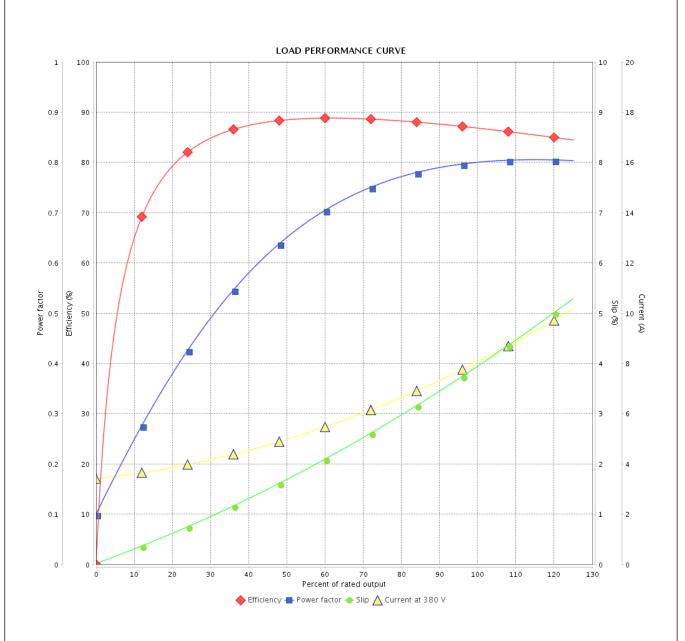
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14353304

Catalog #: 00512XT3E215T



Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 8.10 A : 5.5 : 27.4 ft.lb : 140 % : 200 % : 960 rpm	Moment of inert Duty cycle Insulation class Service factor Temperature ris Design	. ,	: 1.47 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary	Pe	erformed	Checked	Date
Performed by					
Checked by				Page	Revision

8 / 22

12/04/2022

Three Phase Induction Motor - Squirrel Cage



Customer

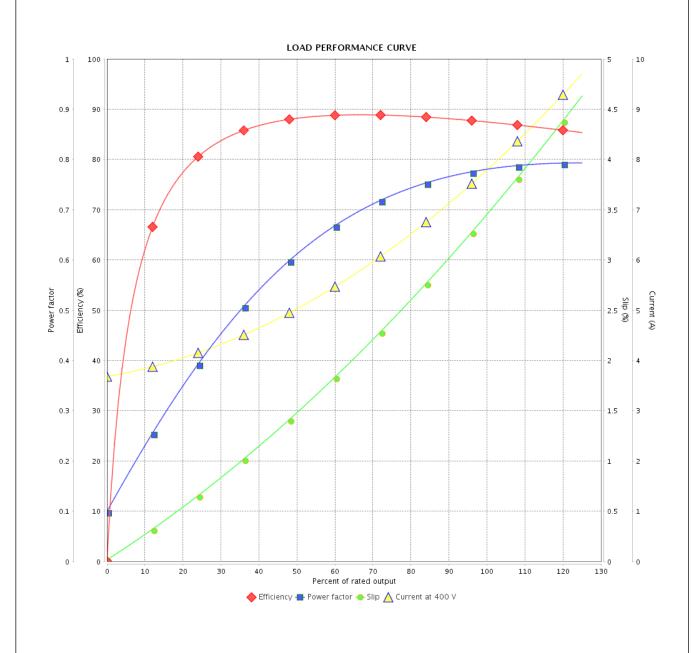
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00512XT3E215T

14353304

9/22



Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.82 A : 6.1 : 27.2 ft.lb : 160 % : 229 % : 965 rpm	Moment of in Duty cycle Insulation clus Service factor Temperature Design	ass or	: 1.47 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

Three Phase Induction Motor - Squirrel Cage



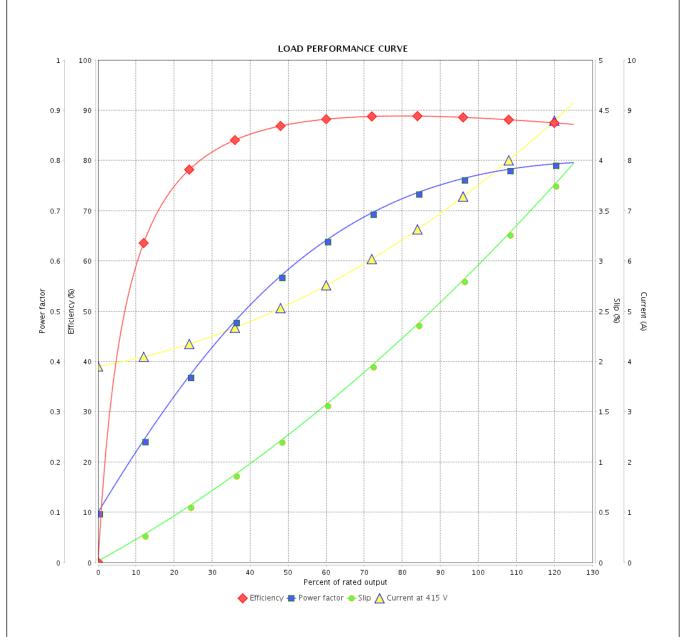
Customer :

Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 14353304

Catalog #: 00512XT3E215T



					
Performance	: 415 V 50 Hz 6P IE3				
Rated current	: 7.55 A Moment of ine		of inertia (J)	: 1.47 sq.ft.lb	
_RC	: 6.5	Duty cycle	е	: Cont.(S1)	
Rated torque	: 27.1 ft.lb	Insulation	class	: F	
Locked rotor torque	: 190 %	Service fa	actor	: 1.00	
Breakdown torque	: 250 %	Temperature rise		: 80 K	
Rated speed	: 970 rpm	Design		: B	
Rev.	Changes Summary	I	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
	1			1	

10/22

12/04/2022

Three Phase Induction Motor - Squirrel Cage

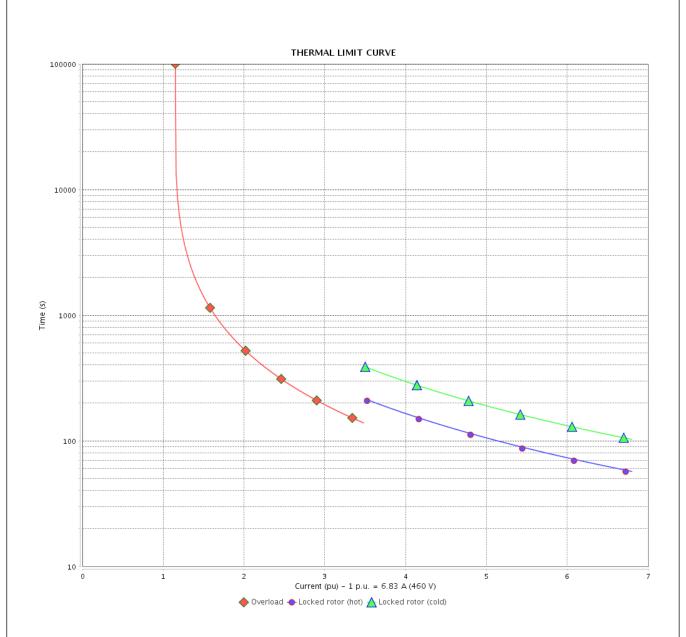


Customer	:					
Product line		NEMA Premium Efficiency		Product code :	14353304	
				Catalog # :	00512XT3E2	215T
Performance	: 2	30/460 V 60 Hz 6P				
Rated current	: 1	3.7/6.83 A	Moment of	of inertia (J)	: 1.47 sq.ft.lb	
₋RC Rated torque	: 6	i.8 :2.4 ft.lb	Duty cycle Insulation	e Lelaes	: Cont.(S1) : F	
cated torque _ocked rotor tor		70 %	Service fa		. r : 1.15	
Breakdown torqu	ue : 2	60 %	Temperat	ure rise	: 80 K	
Rated speed		170 rpm	Design		: B	
Heating constant						
Cooling constant Rev.	.	Changes Summary		Performed	Checked	Date
				. 5.1011104	23034	2410
Performed by				-		
Checked by					Page	Revision
Date	12/04/2022				11 / 22	

Three Phase Induction Motor - Squirrel Cage



Customer :



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

Three Phase Induction Motor - Squirrel Cage

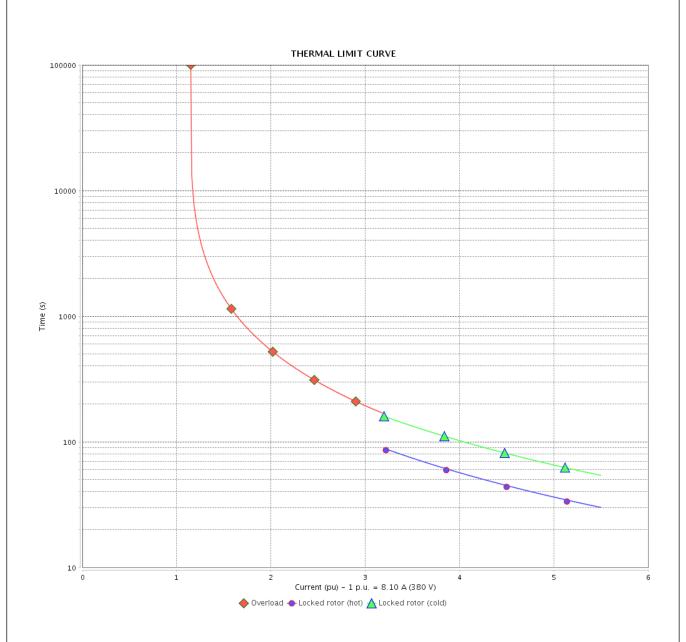


Product line		NEMA Premium Efficiency T hase	hree-	Product code :	14353304	
			-	Catalog # :	00512XT3E2	15T
Performance	: 3	80 V 50 Hz 6P IE3				
Rated current	: 8	.10 A	Moment o	f inertia (J)	: 1.47 sq.ft.lb	
Rated current .RC	: 8 : 5	.10 A .5	Duty cycle	!	: Cont.(S1)	
Rated current .RC Rated torque	: 8 : 5 : 2	.10 A .5 7.4 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Rated current RC Rated torque ocked rotor tor Breakdown torq	: 8 : 5 : 2 que : 1 ue : 2	.10 A .5 7.4 ft.lb 40 % 00 %	Duty cycle Insulation Service fa Temperatu	class ctor	: Cont.(S1) : F : 1.00 : 80 K	
Performance Rated current .RC Rated torque .ocked rotor tor Breakdown torq Rated speed	: 8 : 5 : 2 que : 1 ue : 2 : 9	.10 A .5 7.4 ft.lb 40 % 00 %	Duty cycle Insulation Service fa	class ctor	: Cont.(S1) : F : 1.00	
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar	: 8 : 5 : 2 : que : 1 : 1 : 9	.10 A .5 7.4 ft.lb 40 % 00 %	Duty cycle Insulation Service fa Temperatu	class ctor	: Cont.(S1) : F : 1.00 : 80 K	
Rated current .RC Rated torque .ocked rotor tor Breakdown torq Rated speed Heating constar Cooling constar	: 8 : 5 : 2 : que : 1 : 1 : 9	.10 A .5 7.4 ft.lb 40 % 00 % 60 rpm	Duty cycle Insulation Service fa Temperatu	class ctor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	
Rated current .RC Rated torque .ocked rotor tor Breakdown torq Rated speed	: 8 : 5 : 2 : que : 1 : 1 : 9	.10 A .5 7.4 ft.lb 40 % 00 %	Duty cycle Insulation Service fa Temperatu	class ctor	: Cont.(S1) : F : 1.00 : 80 K	Date
Rated current RC Rated torque Cocked rotor tor Breakdown torq Rated speed Reating constar Cooling constar Rev.	: 8 : 5 : 2 : que : 1 : 1 : 9	.10 A .5 7.4 ft.lb 40 % 00 % 60 rpm	Duty cycle Insulation Service fa Temperatu	class ctor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date
Rated current .RC Rated torque .ocked rotor tor Breakdown torq Rated speed Heating constar Cooling constar	: 8 : 5 : 2 : que : 1 : 1 : 9	.10 A .5 7.4 ft.lb 40 % 00 % 60 rpm	Duty cycle Insulation Service fa Temperatu	class ctor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date

Three Phase Induction Motor - Squirrel Cage



Customer :



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

Three Phase Induction Motor - Squirrel Cage

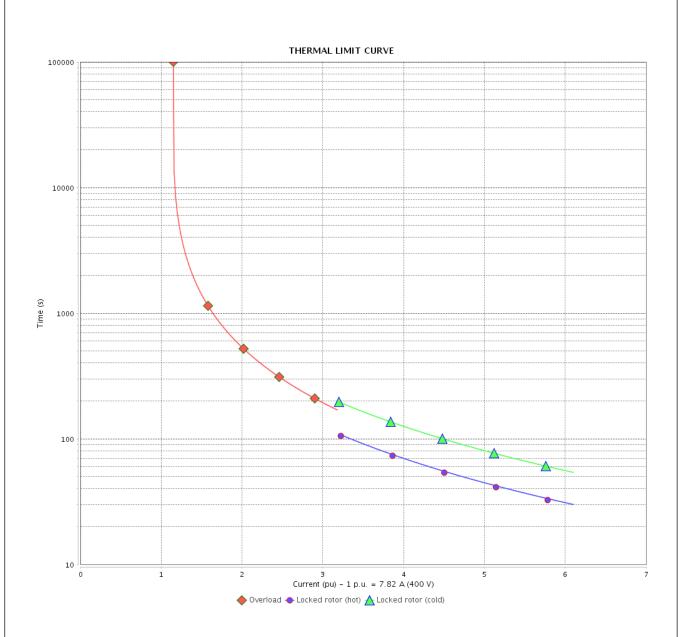


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	14353304	
	Р	hase		Catalog # :	00512XT3E2	215T
Performance Rated current LRC Rated torque Locked rotor torqu Breakdown torqu Rated speed	: 7 : 6 : 2 jue : 1 ie : 2	00 V 50 Hz 6P IE3 .82 A .1 7.2 ft.lb 60 % 29 % 65 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 1.47 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant						
Cooling constant		Changes Commercial		Doutsum	Charles d	Data
Rev.		Changes Summary		Performed	Checked	Date
		I				
Performed by		_			_	-
Checked by					Page	Revision
Date	12/04/2022				15 / 22	

Three Phase Induction Motor - Squirrel Cage



Customer :



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by		-		Page	Revision
Date	12/04/2022			16 / 22	

Three Phase Induction Motor - Squirrel Cage

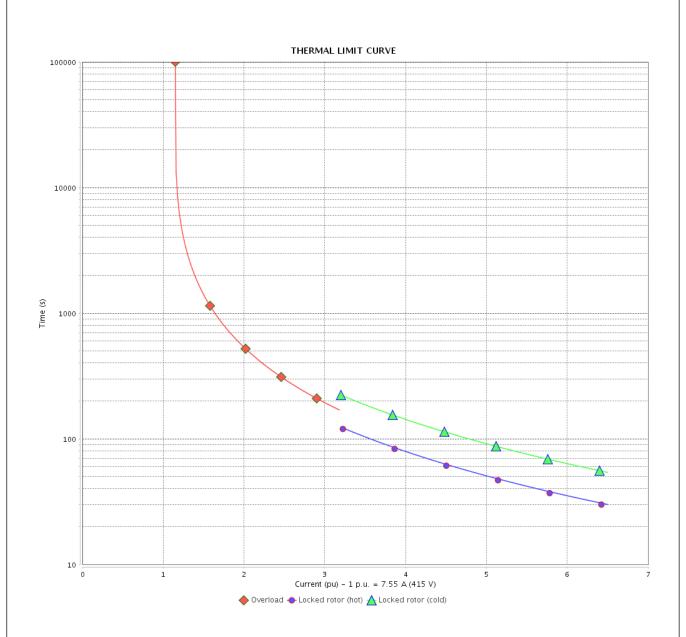


Customer	:					
Product line		NEMA Premium Efficiency	Three	Product code :	14353304	
FIOGUCTIME		Phase				
				Catalog # :	00512XT3E2	15T
Performance		115 V 50 Hz 6P IE3 7.55 A	Moment	of inactio (I)	. 1 17 og ft lb	
Rated current LRC		3.5 A 3.5	Duty cycle	of inertia (J) e	: 1.47 sq.ft.lb : Cont.(S1)	
Rated torque		27.1 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown tord	que : 1 ue : 2	90 % 250 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		970 rpm	Design	410	: B	
Heating constan	t					
Cooling constan						
Rev.		Changes Summary		Performed	Checked	Date
Performed by					_	
Checked by	10/21/5				Page	Revision
Date	12/04/2022				17 / 22	

Three Phase Induction Motor - Squirrel Cage



Customer :



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			18 / 22	

Three Phase Induction Motor - Squirrel Cage



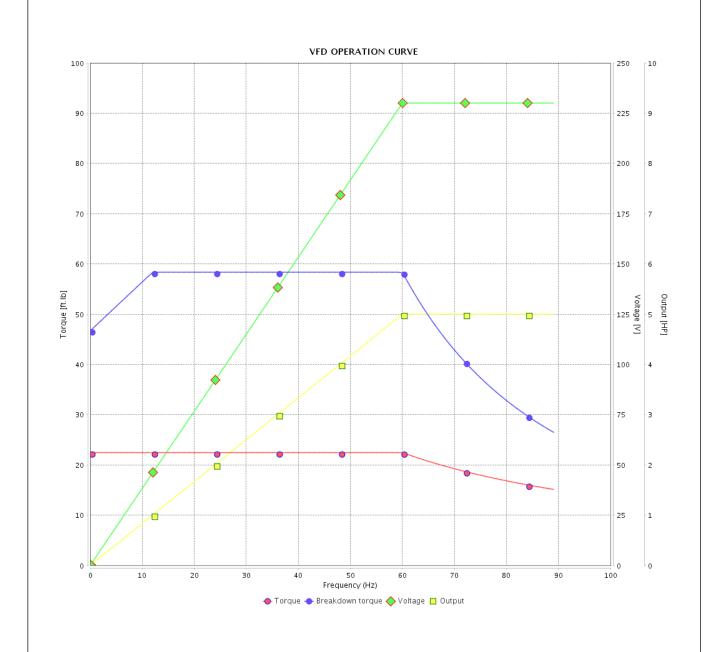
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 14353304





Performance	: 230/460 V 60 Hz 6P								
Rated current LRC	: 13.7/6.83 A : 6.8	Moment of inertia (J) Duty cycle				1		: 1.47 sq.ft.lb : Cont.(S1)	
Rated torque	: 22.4 ft.lb	Insulation class	3	:F					
Locked rotor torque	: 170 %	Service factor : 1.15							
Breakdown torque	: 260 %	Temperature ris	se	: 80 K					
Rated speed	: 1170 rpm	Design		: B					
Rev.	Changes Summary	Р	erformed	Checked	Date				
Performed by									
Checked by				Page	Revision				

19 / 22

12/04/2022

Three Phase Induction Motor - Squirrel Cage



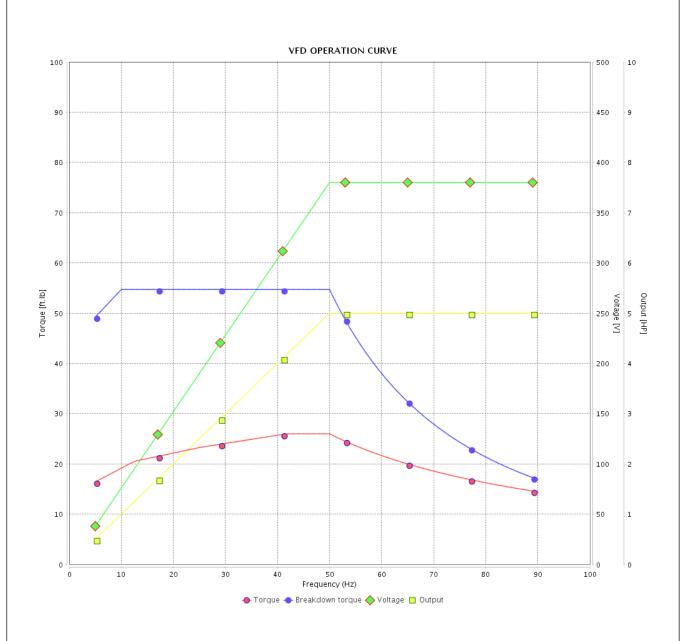
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14353304

Catalog #: 00512XT3E215T



Performance	: 38	: 380 V 50 Hz 6P IE3							
Rated current	: 8.	10 A	Moment o	Moment of inertia (J)					
LRC	: 5.	5	Duty cycle	Duty cycle		: Cont.(S1)			
Rated torque	: 27	7.4 ft.lb	Insulation	Insulation class		: F			
Locked rotor torc	jue : 14	40 %	Service fa	Service factor		: 1.00			
Breakdown torqu	ie : 20	00 %	Temperati	Temperature rise					
Rated speed	: 96	60 rpm	Design		: B				
Rev.	Rev. Changes Summary		ary	Performed	Checked	Date			
Performed by									
Checked by		1			Page	Revision			

20 / 22

12/04/2022

Three Phase Induction Motor - Squirrel Cage

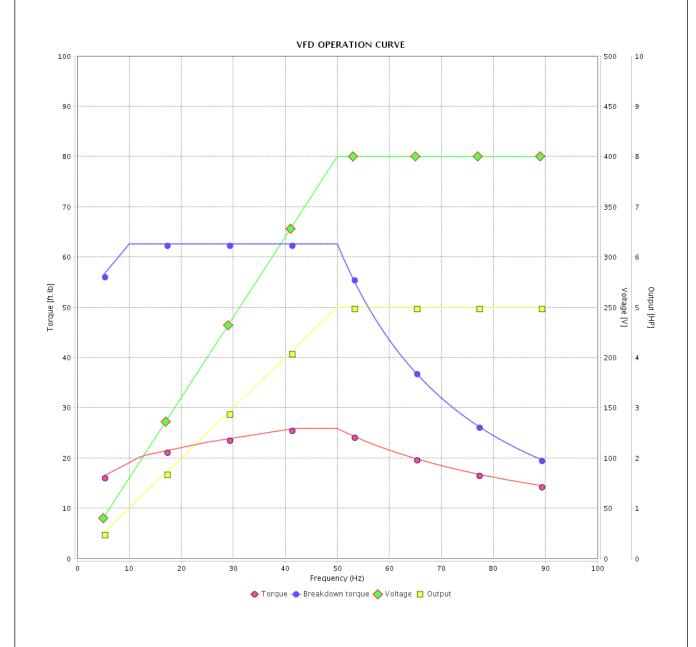


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14353304

Phase

Catalog #: 00512XT3E215T



Performance	: 400 V 50 Hz 6P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.82 A : 6.1 : 27.2 ft.lb : 160 % : 229 % : 965 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.47 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B		
Rev.	Changes Summary		Performed	Checked	Date	
Performed by						
Checked by				Page	Revision	

21 / 22

12/04/2022

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

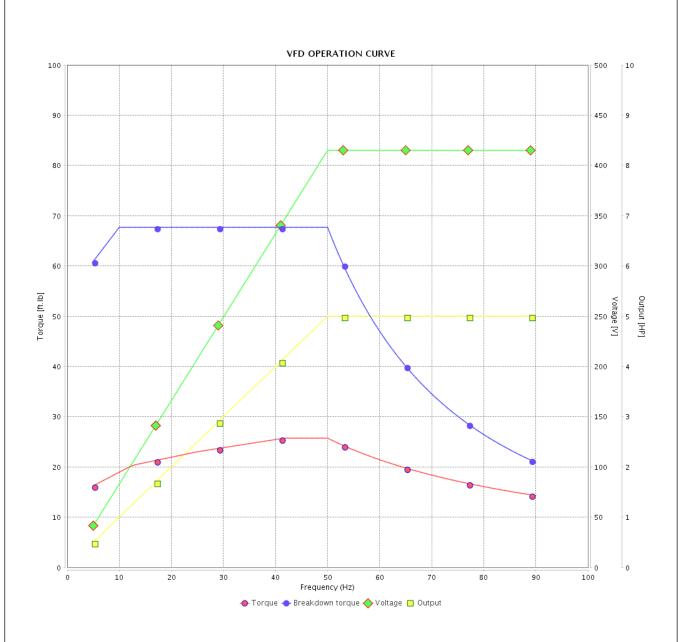
12/04/2022

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 14353304

Catalog #: 00512XT3E215T



Performance	: 4	115 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 2 jue : 1 ie : 2	7.55 A 3.5 27.1 ft.lb 190 % 250 % 970 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 1.47 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date	
Performed by					·	

Page

22 / 22

Revision

