### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12408377

Phase

Catalog #: 12518XT3G444T

Frame : 444/5T Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

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

Ambient temperature : -20°C to +40°C Starting method : Direct On Line
Altitude : 1000 m.a.s.l. Approx. weight³ : 2048 lb

Altitude : 1000 m.a.s.l. Approx. weight³ : 2048 lb
Protection degree : IP55 Moment of inertia (J) : 57.2 sq.ft.lb

Design		: B			- 4
Output [HP]		125	100	100	100
Poles		4	4	4	4
Frequency [Hz]		60	50	50	50
Rated voltage [V]		460	380	400	415
Rated current [A]		139	142	136	132
L. R. Amperes [A]		890	852	898	937
LRC [A]		6.4x(Code G)	6.0x(Code G)	6.6x(Code H)	7.1x(Code H)
No load current [A]		43.0	43.0	45.0	47.0
Rated speed [RPM	<b>/</b> []	1782	1481	1483	1485
Slip [%]		1.00	1.27	1.13	1.00
Rated torque [ft.lb]		368	354	353	353
Locked rotor torque [%]		200	190	190 210	
Breakdown torque [%]		220	210	240	260
Service factor		1.15	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		32s (cold) 18s (hot)	54s (cold) 30s (hot)	54s (cold) 30s (hot)	54s (cold) 30s (hot)
Noise level <sup>2</sup>		76.0 dB(A)	72.0 dB(A)	72.0 dB(A)	72.0 dB(A)
	25%	94.9	94.4	94.8	94.4
Efficiency (%)	50%	95.0	94.5	94.5	94.5
Efficiency (70)	75%	95.4	94.5	95.0	95.0
	100%	95.4	94.5	94.5	95.0
	25%	0.51	0.52	0.49	0.46
Power Factor	50%	0.75	0.77	0.74	0.71
1 OWEL FACIOI	75%	0.82	0.83	0.82	0.80
	100%	0.85	0.85	0.84	0.83

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

Bearing type : 6219 C3 6316 C3 Max. traction : 1426 lb Sealing : Viton Viton Seal Max. compression : 3475 lb

Oil Seal

Lubrication interval:8033 h8569 hLubricant amount:28 g34 gLubricant type:Mobil Polyrex EM

Notes

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	

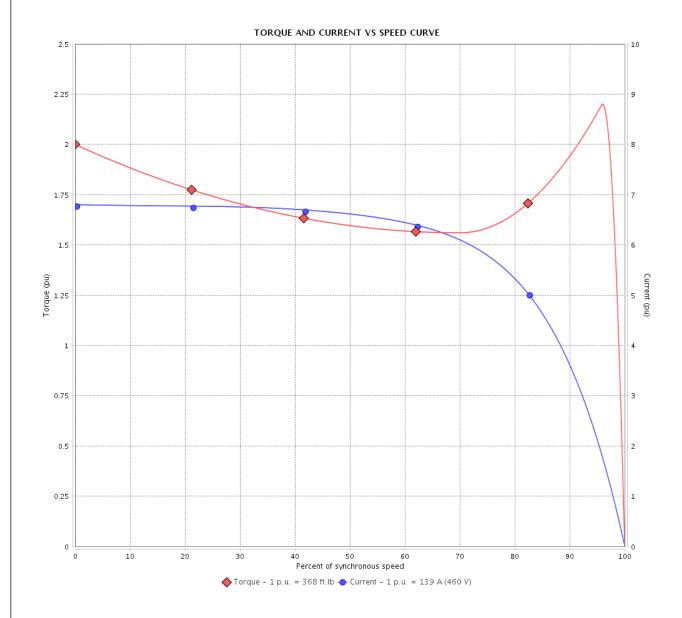
#### Three Phase Induction Motor - Squirrel Cage



12518XT3G444T

Customer Product line : NEMA Premium Efficiency Three-Product code: 12408377

Catalog #:



Performance : 460 V 60 Hz 4P Rated current : 139 A Moment of inertia (J) : 57.2 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 368 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 220 % Temperature rise : 80 K : 1782 rpm Rated speed Design : B Locked rotor time : 32s (cold) 18s (hot)

		(*****, **** (*****)			
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			3 / 22	

#### Three Phase Induction Motor - Squirrel Cage



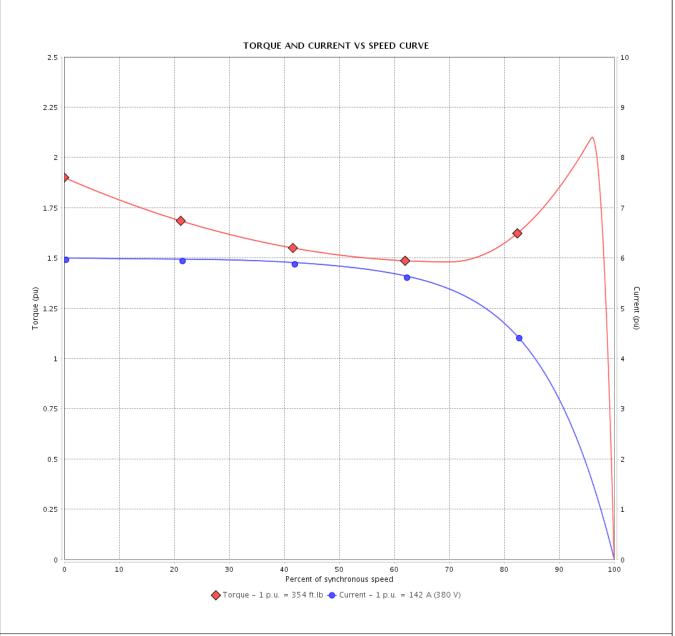
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12408377

Catalog #: 12518XT3G444T



Performance : 380 V 50 Hz 4P IE2 Rated current : 142 A Moment of inertia (J) : 57.2 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 354 ft.lb Service factor Locked rotor torque : 190 % : 1.00 Breakdown torque : 210 % Temperature rise : 80 K Rated speed : 1481 rpm Design : B

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

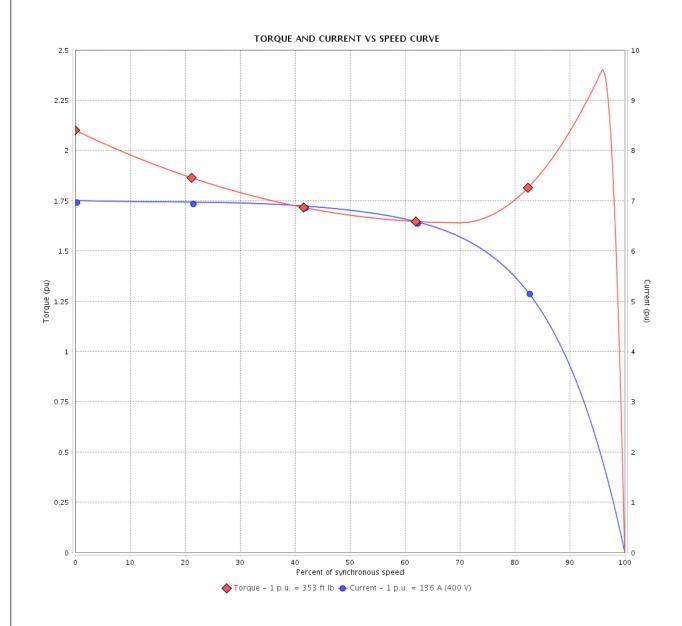


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12408377

e

Catalog #: 12518XT3G444T



Performance	: 400 V 50 Hz 4P IE2			
Rated current	: 136 A	Moment of inertia (J)	: 57.2 sq.ft.lb	
LRC	: 6.6	Duty cycle	: Cont.(S1)	
Rated torque	: 353 ft.lb	Insulation class	: F	
Locked rotor torque	: 210 %	Service factor	: 1.00	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 1483 rpm	Design	: B	
Locked rotor time	: 54s (cold) 30s (bot)	I		

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

		` , ` ,			
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			5 / 22	

#### Three Phase Induction Motor - Squirrel Cage



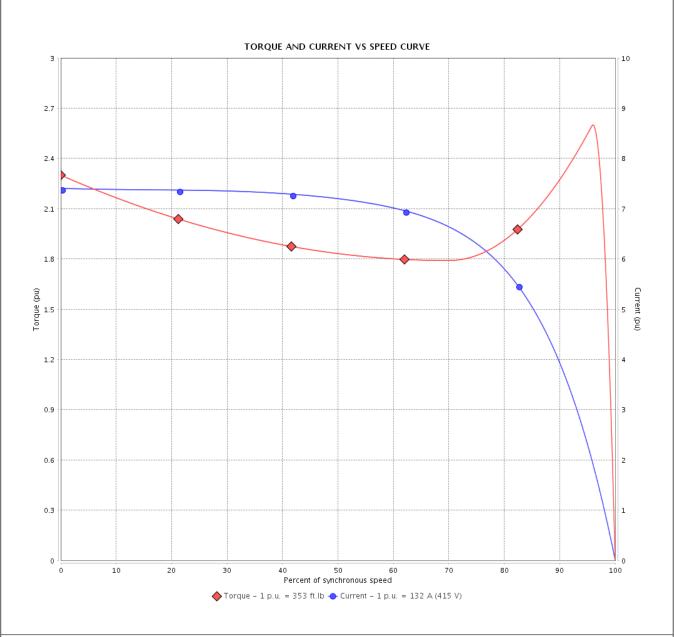
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 12408377

Catalog #: 12518XT3G444T



Performance : 415 V 50 Hz 4P IE3 Rated current : 132 A Moment of inertia (J) : 57.2 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 353 ft.lb : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1485 rpm Design : B

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

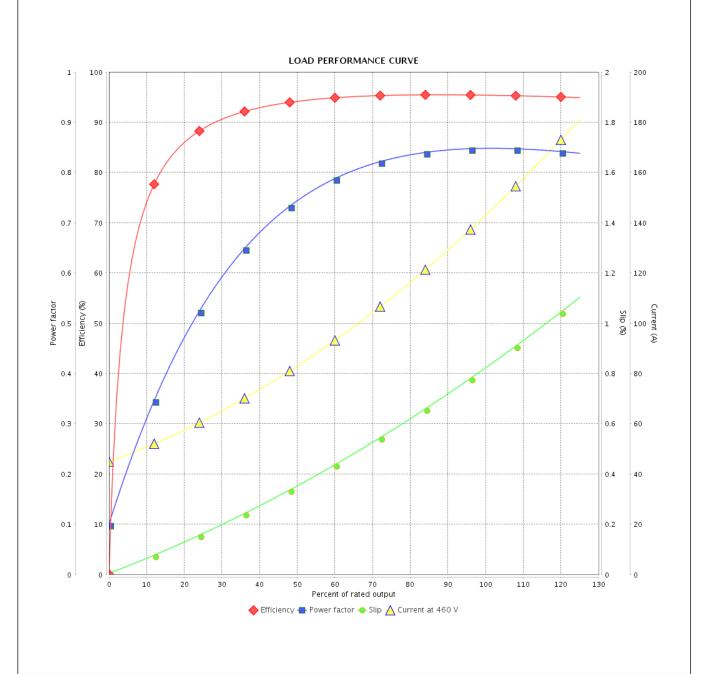


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12408377

Phase

Catalog #: 12518XT3G444T



Performance	:	460 V 60 Hz 4P				
Rated current	:	139 A	Moment of	f inertia (J)	: 57.2 sq.ft.lb	
LRC	:	6.4	Duty cycle	;	: Cont.(S1)	
Rated torque	:	368 ft.lb	Insulation	class	: F	
Locked rotor tord	que :	200 %	Service fa	ctor	: 1.15	
Breakdown torqu	ie :	220 %	Temperati	ure rise	: 80 K	
Rated speed	:	1782 rpm	Design		: B	
Rev.		Changes Summar	у	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				7 / 22	

#### Three Phase Induction Motor - Squirrel Cage



Customer :

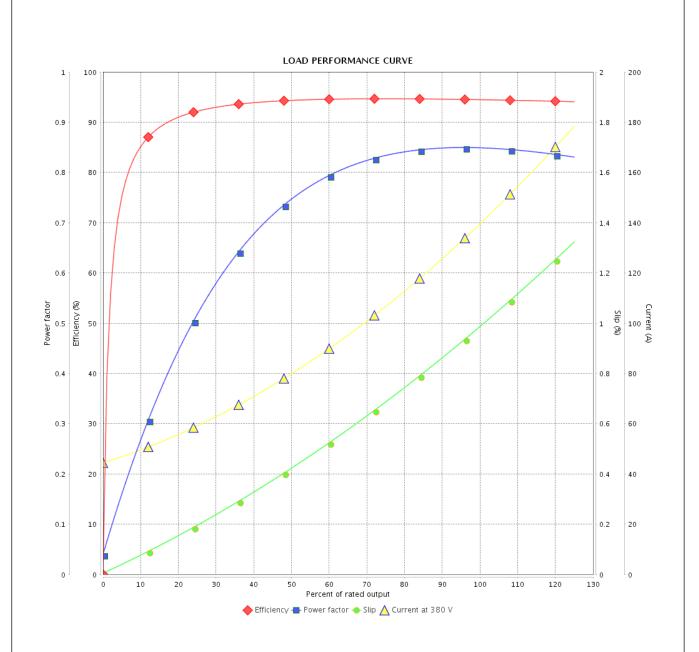
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 12518XT3G444T

12408377

8 / 22



Performance	: 380 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 142 A : 6.0 : 354 ft.lb : 190 % : 210 % : 1481 rpm	Moment of Duty cycle Insulation of Service fac Temperatu Design	class ctor	: 57.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

13/04/2022

Date

#### Three Phase Induction Motor - Squirrel Cage

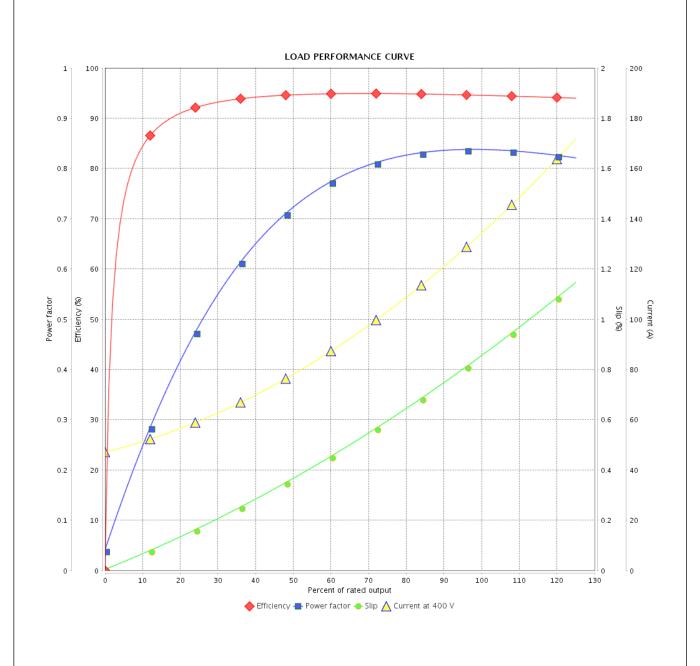


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12408377

Phase

Catalog #: 12518XT3G444T



Performance	:	400 V 50 Hz 4P IE2				
Rated current		136 A	Moment o	f inertia (J)	: 57.2 sq.ft.lb	
LRC	:	6.6	Duty cycle	)	: Cont.(S1)	
Rated torque	:	353 ft.lb	Insulation	class	: F	
Locked rotor torque	)	210 %	Service fa	ctor	: 1.00	
Breakdown torque	:	240 %	Temperati	ıre rise	: 80 K	
Rated speed	:	1483 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				9/22	

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

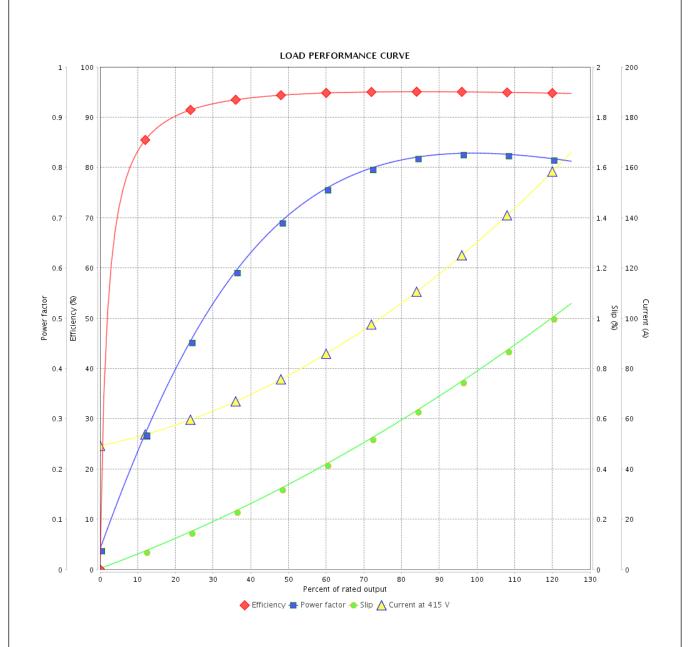
13/04/2022

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 12408377

Catalog #: 12518XT3G444T



Performance : 415 V 50 Hz 4P IE3 : 132 A Rated current Moment of inertia (J) : 57.2 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) : 353 ft.lb Insulation class Rated torque : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1485 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Page

10 / 22

Revision

### Three Phase Induction Motor - Squirrel Cage

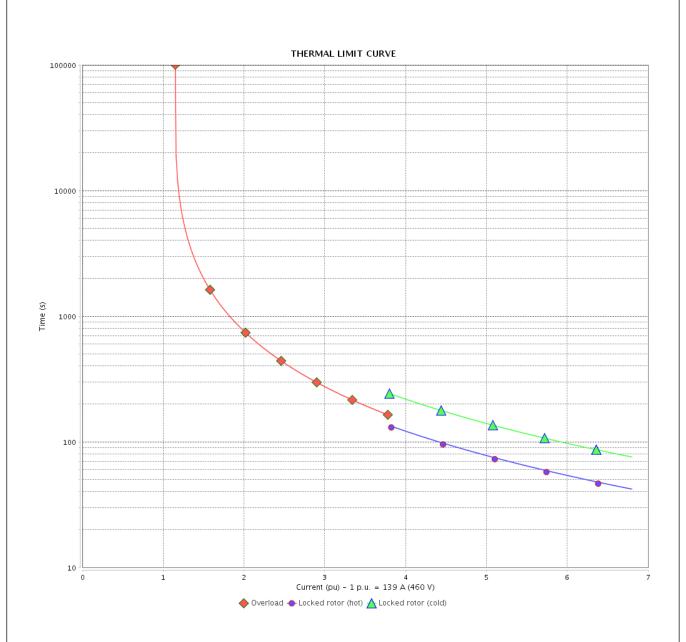


Product line		NEMA Premium Efficiency T	hree-	Product code :	12408377	
	۲	hase		Catalog # :	12518XT3G4	44T
Performance Rated current LRC Rated torque Locked rotor tor Breakdown torg Rated speed	: 1 : 6 : 3 rque : 2 ; 2 ; 1	.4 68 ft.lb 00 % 20 %	Moment of Duty cycle Insulation Service fa Temperation Design	class actor	: 57.2 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Rated current LRC Rated torque Locked rotor tor Breakdown torg Rated speed	: 1 : 6 : 3 rque : 2 : 2 : 1	39 A .4 68 ft.lb 00 % 20 %	Duty cycle Insulation Service fa Temperate	e class actor	: Cont.(S1) : F : 1.15 : 80 K	
Rated current LRC Rated torque Locked rotor tor Breakdown torg Rated speed Heating constar Cooling constar	: 1 : 6 : 3 rque : 2 : 2 : 1	39 A .4 68 ft.lb 00 % 20 % 782 rpm	Duty cycle Insulation Service fa Temperate	e class actor ure rise	: Cont.(S1) : F : 1.15 : 80 K : B	Data
Rated current LRC Rated torque Locked rotor tor Breakdown torg Rated speed	: 1 : 6 : 3 rque : 2 : 2 : 1	39 A .4 68 ft.lb 00 % 20 %	Duty cycle Insulation Service fa Temperate	e class actor	: Cont.(S1) : F : 1.15 : 80 K	Date
Rated current LRC Rated torque Locked rotor tor Breakdown torg Rated speed Heating constar Cooling constar Rev.	: 1 : 6 : 3 rque : 2 : 2 : 1	39 A .4 68 ft.lb 00 % 20 % 782 rpm	Duty cycle Insulation Service fa Temperate	e class actor ure rise	: Cont.(S1) : F : 1.15 : 80 K : B	Date
Rated current LRC Rated torque Locked rotor tor Breakdown torg Rated speed Heating constar Cooling constar	: 1 : 6 : 3 rque : 2 : 2 : 1	39 A .4 68 ft.lb 00 % 20 % 782 rpm	Duty cycle Insulation Service fa Temperate	e class actor ure rise	: Cont.(S1) : F : 1.15 : 80 K : B	Date

#### 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

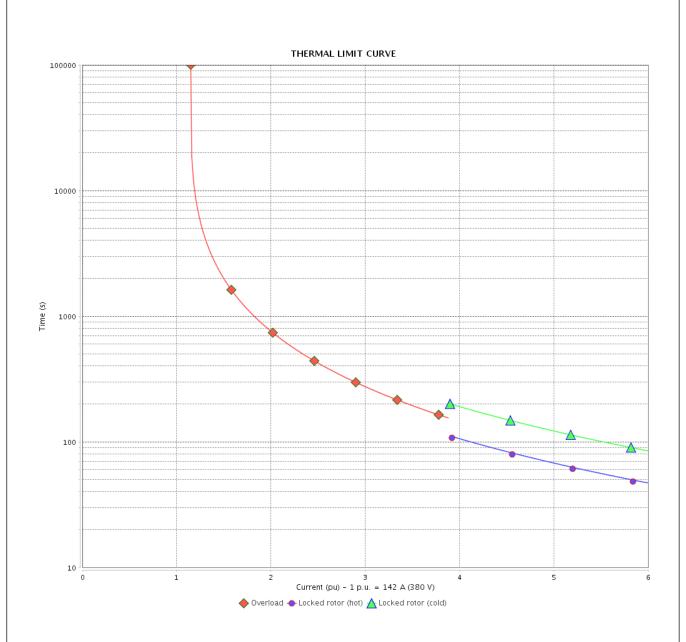


Customer	:					
Product line	:	NEMA Premium Efficiency	Three-	Product code :	12408377	
	Р	hase		Catalog # :	12518XT3G	444T
Performance Rated current LRC Rated torque Locked rotor torque Rated speed	: 1 <sup>,</sup> : 6 : 3 jue : 1 <sup>,</sup> le : 2	80 V 50 Hz 4P IE2 42 A .0 54 ft.lb 90 % 10 % 481 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 57.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant					-	
Cooling constant		Changos Cummani		Dorform 5 -	Chapted	Data
Rev.		Changes Summary		Performed	Checked	Date
Danfarrass		T				
Performed by		_			-	5
Checked by		_			Page	Revision
Date	13/04/2022				13 / 22	

#### 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

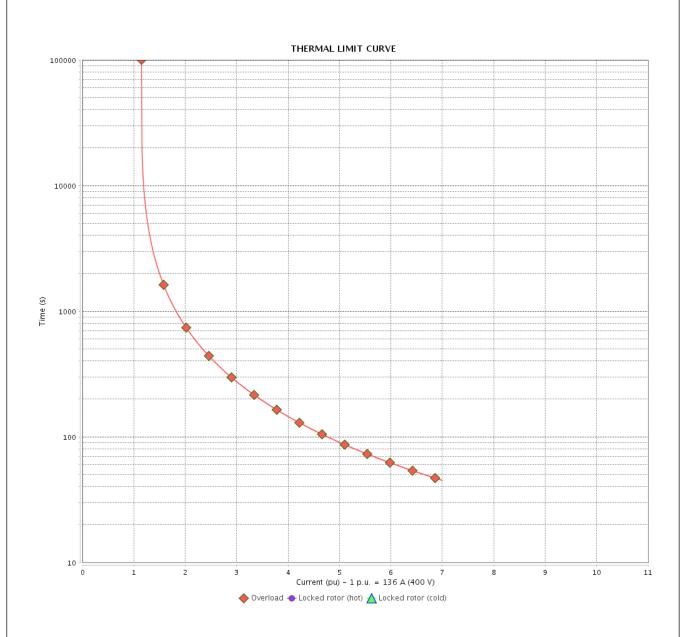


Customer	:					
Product line	: 1 P	NEMA Premium Efficiency hase		Product code : Catalog # :	12408377 12518XT3G	444T
Performance	: 40	00 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 38 que : 2° ue : 2°	36 A 6 53 ft.lb 10 % 40 % 483 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ictor	: 57.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constan						
Rev.		Changes Summary		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

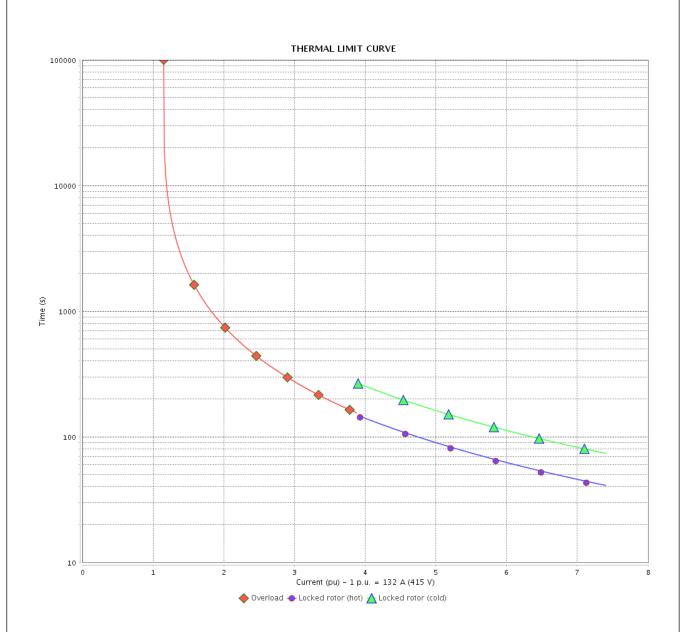


Customer	:					
Product line		NEMA Premium Efficiency hase	Three-	Product code :	12408377	
	1	lase		Catalog # :	12518XT3G4	144T
Performance	: 4	15 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7. : 39 que : 22 ie : 26	32 A 1 53 ft.lb 29 % 60 % 485 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 57.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant		r				
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
Performed by					_	
Checked by Date	13/04/2022				Page 17 / 22	Revision

### 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

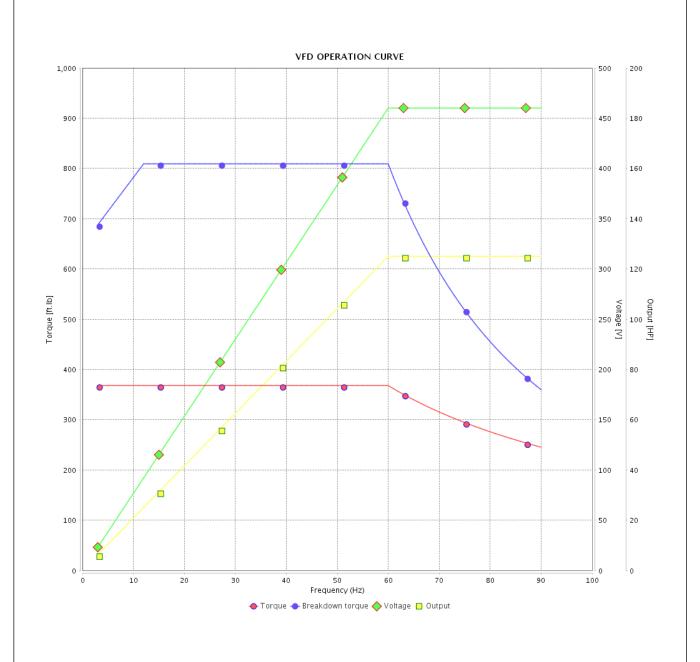
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 12518XT3G444T

12408377

19/22



Performance	: 460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 139 A : 6.4 : 368 ft.lb : 200 % : 220 % : 1782 rpm	Moment of in Duty cycle Insulation cla Service factor Temperature Design	ass or	: 57.2 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

13/04/2022

Date

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

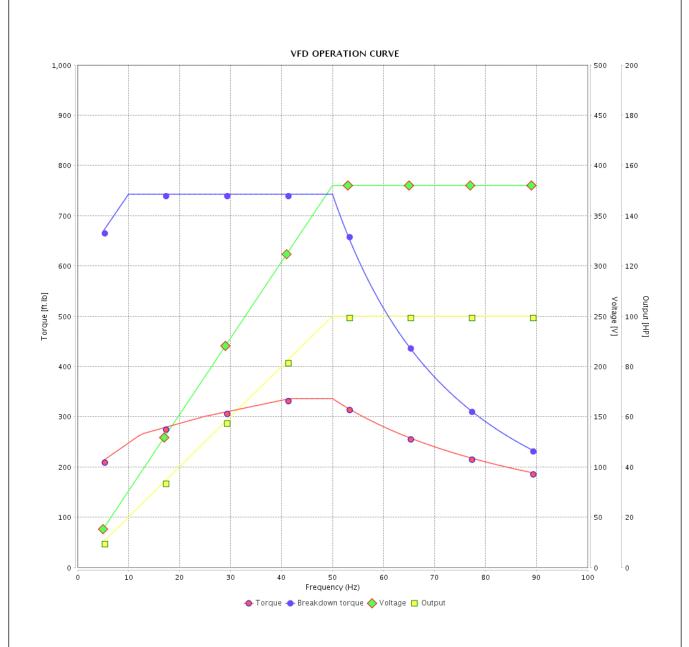
13/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12408377

Catalog #: 12518XT3G444T



Performance	: 3	880 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 3 jue : 1	142 A 5.0 854 ft.lb 190 % 210 % 1481 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 57.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.		Changes Summary	<u>'</u>	Performed	Checked	Date
Performed by						

Page

20 / 22

Revision

#### Three Phase Induction Motor - Squirrel Cage



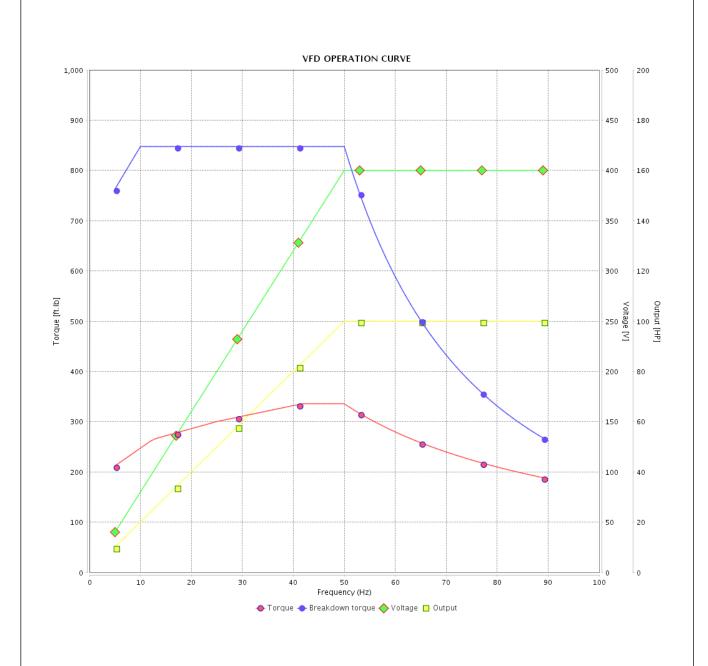
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 12518XT3G444T

12408377



					<del></del>	
Performance	: 40	00 V 50 Hz 4P IE2				
Rated current	: 13	Moment of inertia (J)		f inertia (J)	: 57.2 sq.ft.lb	
LRC	: 6.	6	Duty cycle	<del>)</del>	: Cont.(S1)	
Rated torque	: 3	53 ft.lb	Insulation	class	: F	
Locked rotor toro	jue : 2	10 %	Service fa	ctor	: 1.00	
Breakdown torqu	ie : 24	70 % Temperature rise		: 80 K		
Rated speed	: 14	183 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				21 / 22	

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

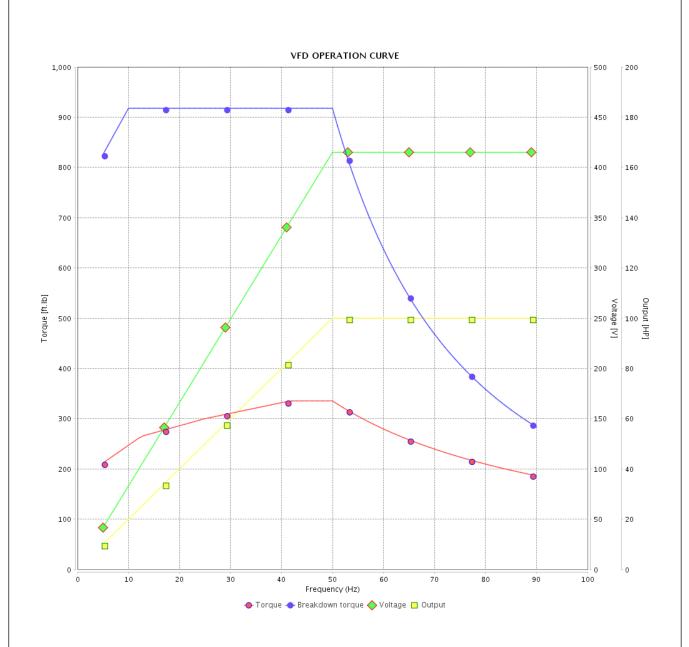
13/04/2022

Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 12408377

Catalog #: 12518XT3G444T



Performance : 415 V 50 Hz 4P IE3 : 132 A Rated current Moment of inertia (J) : 57.2 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 353 ft.lb : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1485 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Page

22 / 22

Revision

