### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11473721

Phase

Catalog #: 35018ET3G449T-W22

Frame : 447/9T 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 : 3042 lb

Protection degree : IP55 | Moment of inertia (J) : 118 sq.ft.lb

Protection degree		. 1600	Monte in or in	∃ilia (J) . 110 :	5q.ii.ib
Design		: A			
Output [HP]		350	300	300	300
Poles		4	4	4	4
Frequency [Hz]		60	50	50	50
Rated voltage [V]		460	380	400	415
Rated current [A]		399	405	389	379
L. R. Amperes [A]		3192	2957	3151	3373
LRC [A]		8.0x(Code J)	7.3x(Code H)	8.1x(Code J)	8.9x(Code K)
No load current [A	]	135	135	143	151
Rated speed [RPN	1]	1785	1483	1485	1487
Slip [%]		0.83	1.13	1.00	0.87
	Rated torque [ft.lb]		1060	1060	1060
Locked rotor torqu		280	260	290	310
Breakdown torque	[%]	280	260	290	310
Service factor		1.15	1.00	1.00	1.00
Temperature rise		80 K	105 K	105 K	80 K
Locked rotor time		25s (cold) 14s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)
Noise level <sup>2</sup>		75.0 dB(A)	71.0 dB(A)	71.0 dB(A)	71.0 dB(A)
	25%				
Efficiency (%)	50%	95.8	95.8	95.8	95.4
Efficiency (70)	75%	96.2	95.8	96.2	95.8
100%		96.2	96.0	96.0	96.2
	25%				
Power Factor	50%	0.73	0.73	0.70	0.68
1 OWEL FACIOI	75%	0.82	0.82	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 : 6322 C3 6319 C3 Max. traction : 7235 lb Sealing : WSeal WSeal Max. compression : 10276 lb

Lubricant amount : 60 g 45 g

Mobil Polyrex EM

Notes

Lubricant type

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 / 21	

#### Three Phase Induction Motor - Squirrel Cage



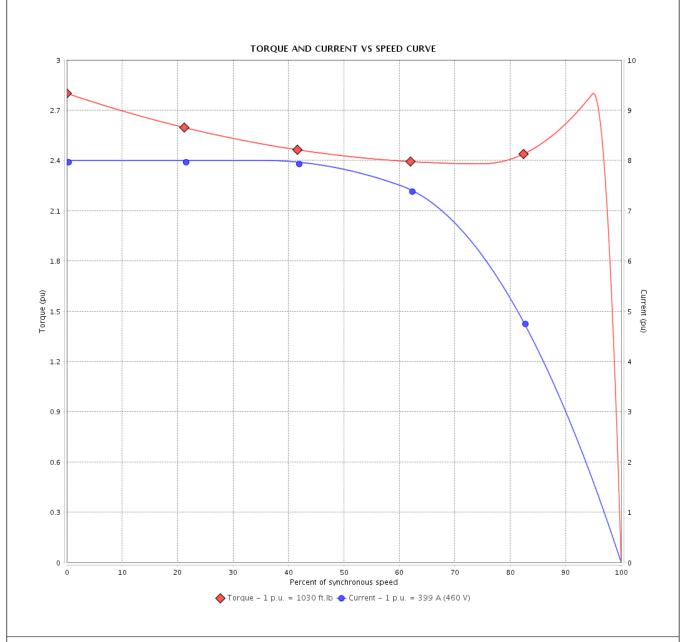
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11473721

Catalog #: 35018ET3G449T-W22



Performance: 460 V 60 Hz 4PRated current: 399 AMoment of inertia (J): 118 sq.ft.lbLRC: 8.0Duty cycle: Cont.(S1)Rated torque: 1030 ft.lbInsulation class: F

Locked rotor torque: 280 %Service factor: 1.15Breakdown torque: 280 %Temperature rise: 80 KRated speed: 1785 rpmDesign: A

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

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			2 / 21	

#### Three Phase Induction Motor - Squirrel Cage

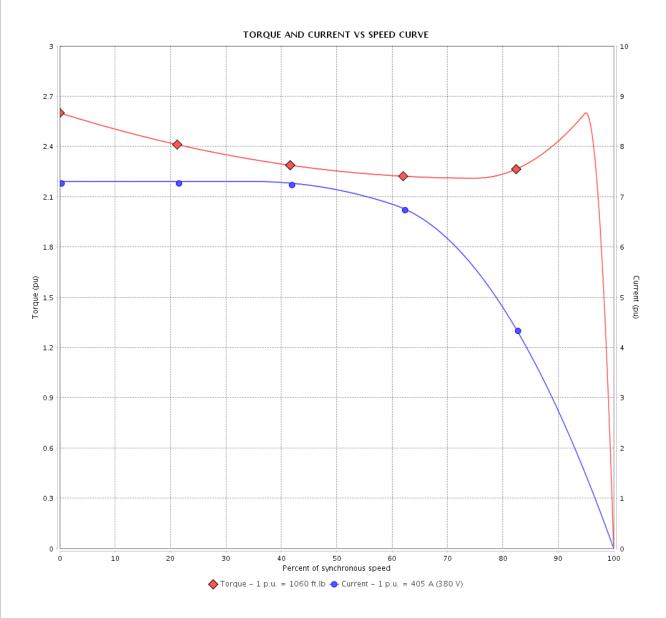


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11473721

nase

Catalog #: 35018ET3G449T-W22



Performance : 380 V 50 Hz 4P IE3 Rated current : 405 A Moment of inertia (J) : 118 sq.ft.lb **LRC** : 7.3 Duty cycle : Cont.(S1) : 1060 ft.lb Insulation class Rated torque : F : 260 % Locked rotor torque Service factor : 1.00 : 105 K Breakdown torque : 260 % Temperature rise Rated speed : 1483 rpm Design : A

Locked rotor time : 21s (cold) 12s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			3 / 21	

#### Three Phase Induction Motor - Squirrel Cage



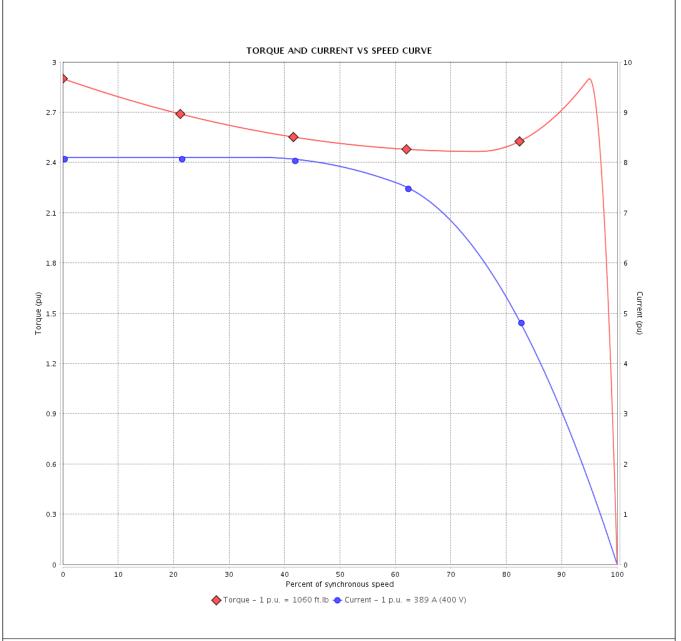
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11473721

Catalog #: 35018ET3G449T-W22



Performance : 400 V 50 Hz 4P IE3 Rated current : 389 A Moment of inertia (J) : 118 sq.ft.lb **LRC** : 8.1 Duty cycle : Cont.(S1) : 1060 ft.lb Insulation class Rated torque : F : 290 % Service factor Locked rotor torque : 1.00 : 105 K Breakdown torque : 290 % Temperature rise Rated speed : 1485 rpm Design : A

Locked rotor time : 21s (cold) 12s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022	1		4 / 21	



Revision

Page

5/21

Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11473721 Catalog #: 35018ET3G449T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed 🔷 Torque – 1 p.u. = 1060 ft.lb 🔷 Current – 1 p.u. = 379 A (415 V) Performance : 415 V 50 Hz 4P IE3 Rated current : 379 A Moment of inertia (J) : 118 sq.ft.lb **LRC** : 8.9 Duty cycle : Cont.(S1) : 1060 ft.lb Insulation class Rated torque : F : 310 % Locked rotor torque Service factor : 1.00 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1487 rpm Design : A Locked rotor time : 21s (cold) 12s (hot) Date Rev. Performed Checked **Changes Summary** Performed by

Checked by

Date

13/04/2022

#### Three Phase Induction Motor - Squirrel Cage



Customer :

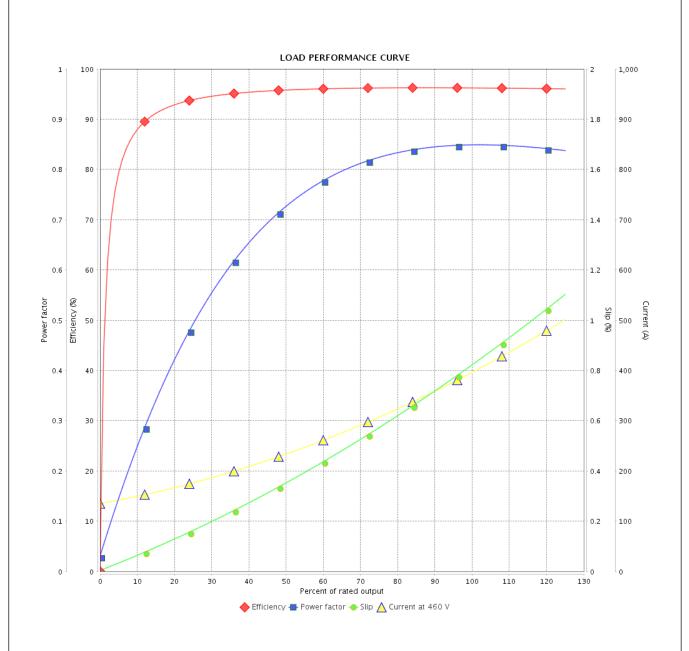
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 35018ET3G449T-W22

11473721

6/21



	,		,			
Performance	:	460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : que : ue :	: 399 A		class ctor	: 118 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : A	
Rev.		Changes Summa	ary	Performed	Checked	Date
Performed by Checked by					Page	Revision

13/04/2022

Date

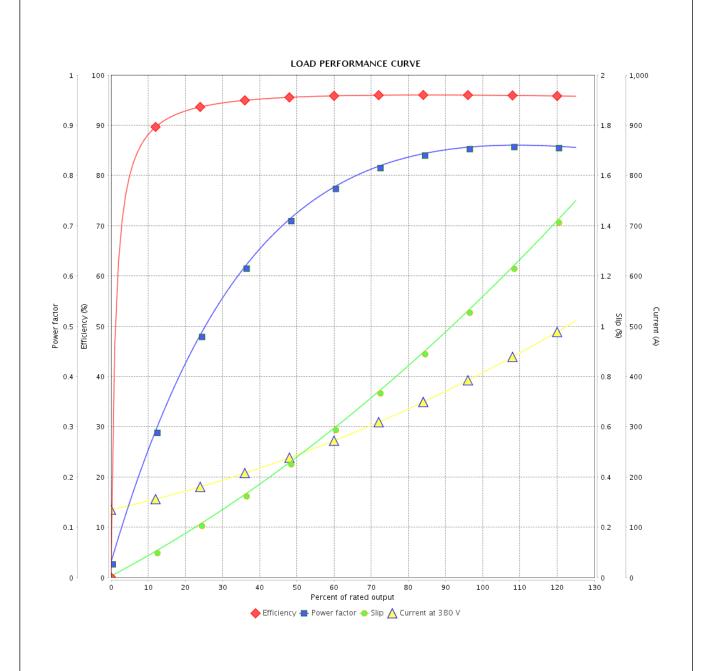
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11473721

Catalog #: 35018ET3G449T-W22



Performance	: 3	380 V 50 Hz 4P IE3				
Rated current		105 A	Moment o	f inertia (J)	: 118 sq.ft.lb	
LRC	: 7	7.3	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 1	1060 ft.lb	Insulation	class	: F	
Locked rotor torque		260 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	260 %	Temperati	ıre rise	: 105 K	
Rated speed	: 1	1483 rpm	Design		: A	
Rev.		Changes Summar	ту	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				7 / 21	

#### Three Phase Induction Motor - Squirrel Cage

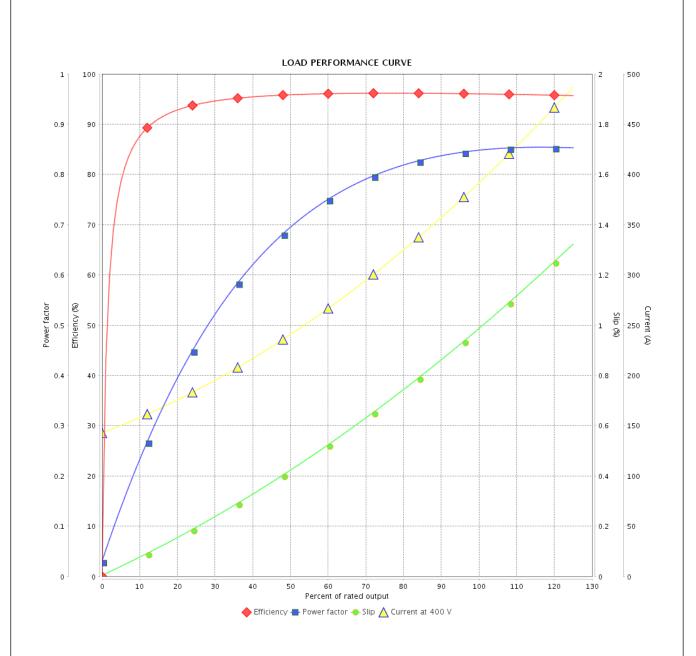


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11473721

Phase

Catalog #: 35018ET3G449T-W22



Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 389 A : 8.1 : 1060 ft.lb : 290 % : 290 % : 1485 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	class tor	: 118 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : A	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

8 / 21

13/04/2022

Date

#### Three Phase Induction Motor - Squirrel Cage

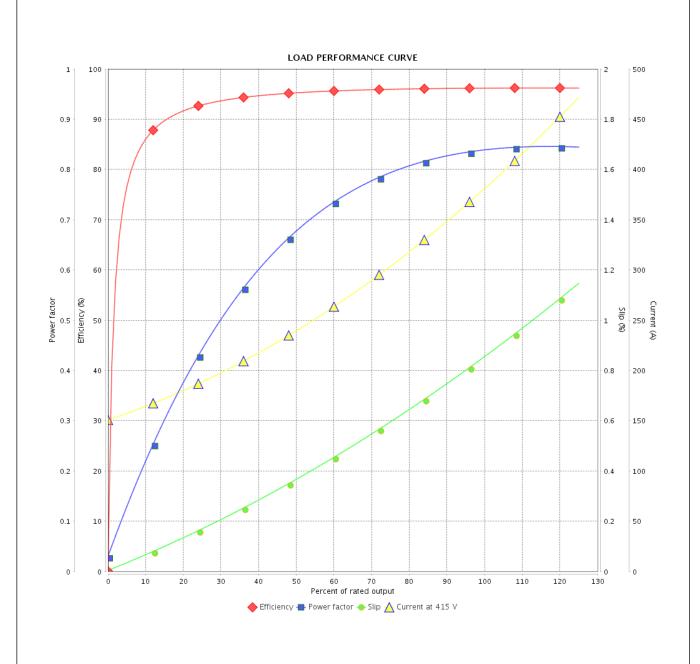


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11473721

Phase

Catalog #: 35018ET3G449T-W22



Performance	: •	415 V 50 Hz 4P IE3				
Rated current	::	379 A	Moment o	f inertia (J)	: 118 sq.ft.lb	
LRC	: :	8.9	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	:	1060 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie :	310 %	Service fa	ctor	: 1.00	
Breakdown torque	e ::	310 %	Temperati	ıre rise	: 80 K	
Rated speed	:	1487 rpm	Design		: A	
Rev.		Changes Summa	ry	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				9 / 21	

### Three Phase Induction Motor - Squirrel Cage

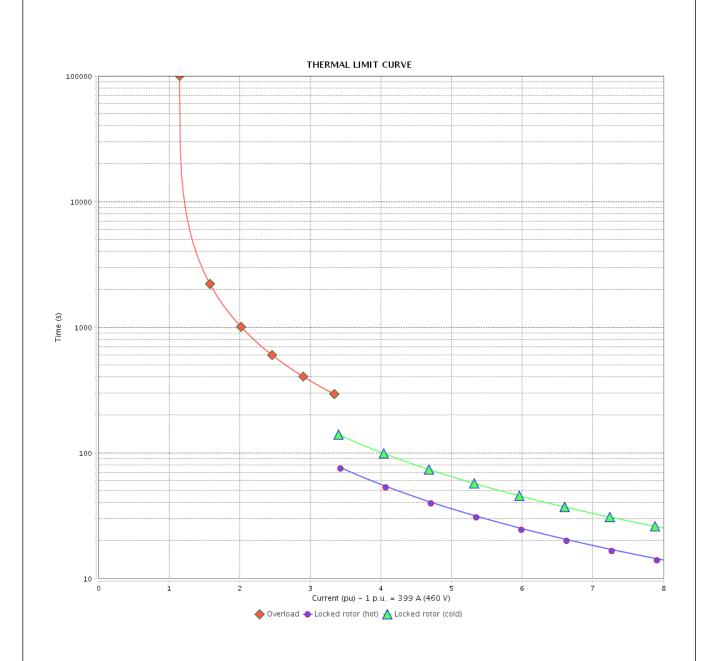


Customer	:					
Product line		IEMA Premium Efficiency	y Three-	Product code :	11473721	
	Ph	ase		Catalog # :	35018ET3G4	49T-W22
- ·		0.1/ 00.11 45				
Performance	: 46 : 39	0 V 60 Hz 4P	Momento	finartia (I)	: 110 og ft lb	
Rated current LRC	: 8.0	)	Duty cycle	f inertia (J)	: 118 sq.ft.lb : Cont.(S1)	
Rated torque		30 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque	: 28 : 28		Service fa Temperatu		: 1.15 : 80 K	
Rated speed		85 rpm	Design		: A	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Darfarra III	Т					
Performed by					D	Davidete
Checked by	40/04/0222				Page	Revision

### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			11 / 21	

### Three Phase Induction Motor - Squirrel Cage

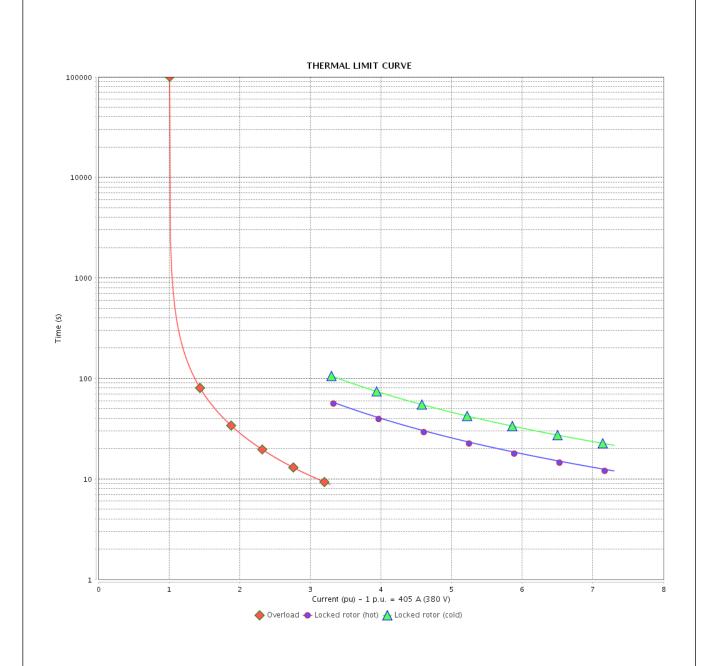


Customer	:			
Product line	: NEMA Premium Efficiency Phase	Three- Product code :	11473721	
		Catalog #:	35018ET3G4	49T-W22
Performance	: 380 V 50 Hz 4P IE3			
Rated current LRC	: 405 A : 7.3	Moment of inertia (J)	: 118 sq.ft.lb	
Rated torque	. 7.3 : 1060 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F	
Locked rotor torque	: 260 %	Service factor	: 1.00	
Breakdown torque Rated speed	: 260 % : 1483 rpm	Temperature rise Design	: 105 K : A	
Heating constant				
Cooling constant				
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date 13/04	1/2022		12 / 21	

### Three Phase Induction Motor - Squirrel Cage



Customer



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

### Three Phase Induction Motor - Squirrel Cage

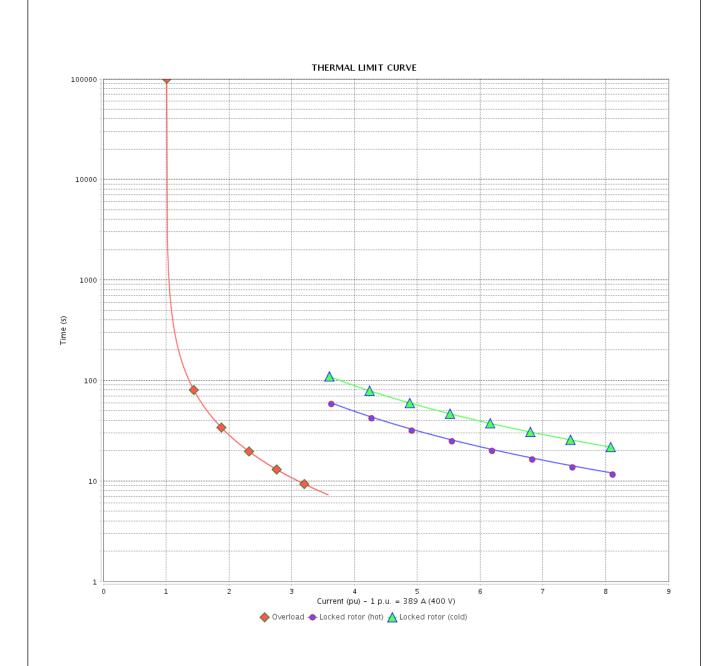


				-	•
Customer	:				
Product line	: NEMA Premium Efficiency Phase	Three-	Product code :	11473721	
			Catalog # :	35018ET3G4	49T-W22
Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC	: 389 A : 8.1	Moment o  Duty cycle	f inertia (J)	: 118 sq.ft.lb : Cont.(S1)	
Rated torque	: 1060 ft.lb	Insulation	class	: F	
Locked rotor torque	: 290 %	Service fa		: 1.00	
Breakdown torque Rated speed	: 290 % : 1485 rpm	Temperatu Design	ure rise	: 105 K : A	
Heating constant					
Cooling constant					
Rev.	Changes Summary		Performed	Checked	Date
Performed by				Paga	Revision
Checked by	2			Page	KENISION

### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			15 / 21	

### Three Phase Induction Motor - Squirrel Cage

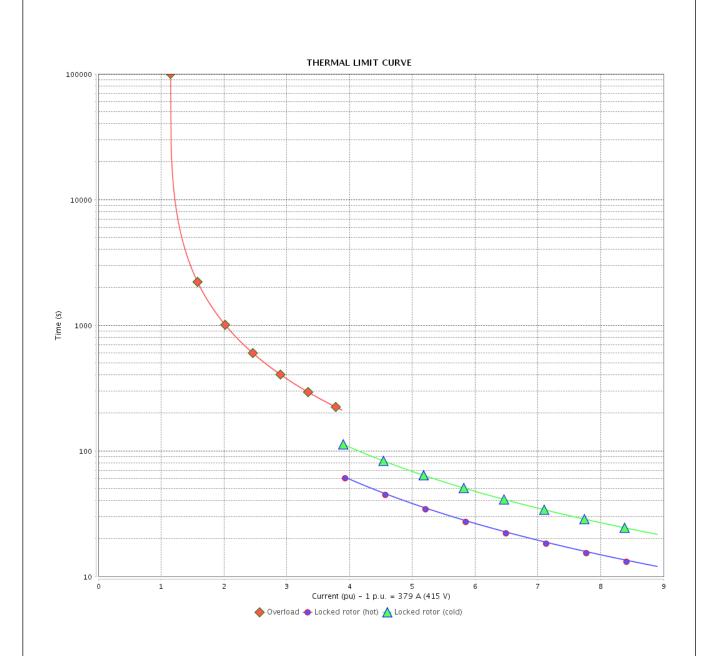


Customer	:			
Product line	: NEMA Premium Efficiency Phase	Three- Product code :	11473721	
		Catalog #:	35018ET3G4	49T-W22
Performance	: 415 V 50 Hz 4P IE3	T		
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 379 A : 8.9 : 1060 ft.lb : 310 % : 310 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise	: 118 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Rated speed	: 1487 rpm	Design	: A	
Heating constant				
Cooling constant				
Rev.	Changes Summary	Performed	Checked	Date
Performed by Checked by			Page	Revision
Date 13	/04/2022		16 / 21	

### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by			·		
Checked by				Page	Revision
Date	13/04/2022			17 / 21	

#### Three Phase Induction Motor - Squirrel Cage

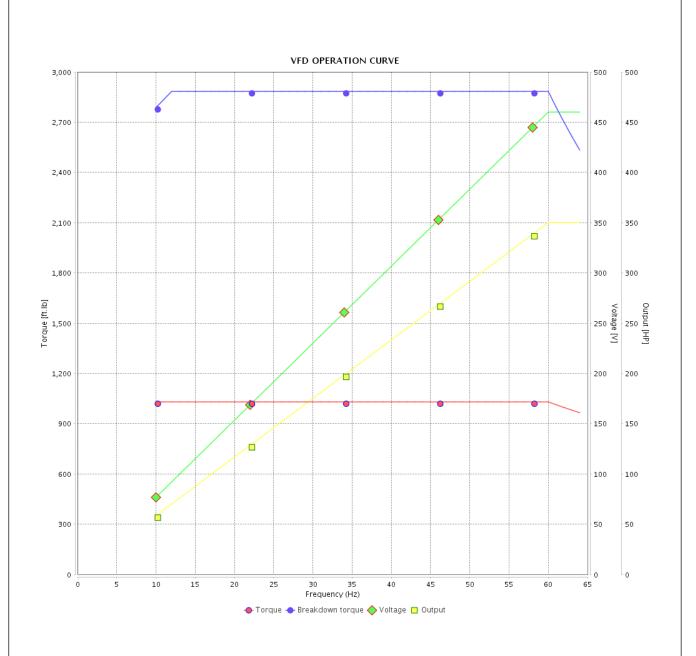


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11473721

Phase

Catalog #: 35018ET3G449T-W22



Performance	: 460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 399 A : 8.0 : 1030 ft.lb : 280 % : 280 % : 1785 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 118 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : A	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

18/21

13/04/2022

Date

#### Three Phase Induction Motor - Squirrel Cage

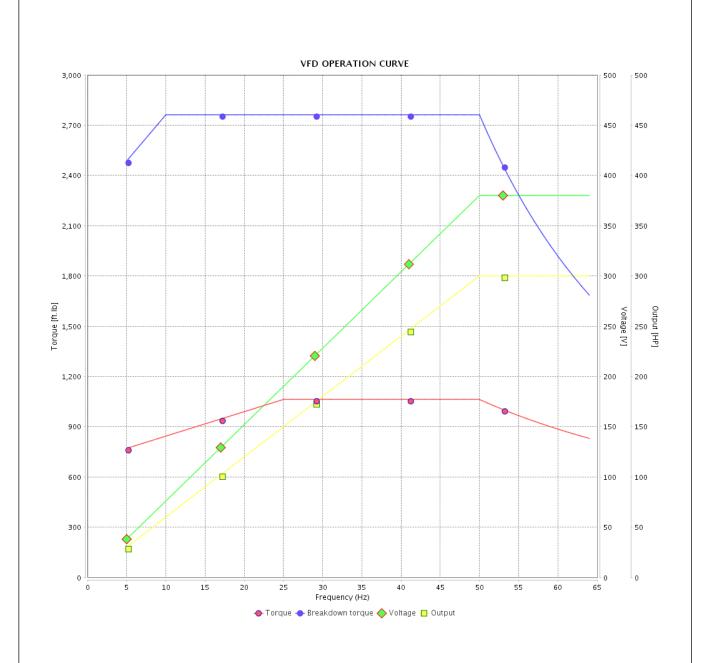


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11473721

Phase

Catalog #: 35018ET3G449T-W22



: 380 V 50 Hz 4P IE3 Performance : 405 A Rated current Moment of inertia (J) : 118 sq.ft.lb : 7.3 **LRC** Duty cycle : Cont.(S1) : 1060 ft.lb Insulation class : F Rated torque Locked rotor torque : 260 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 105 K Rated speed : 1483 rpm Design

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			19 / 21	
This do	cument is exclusive	authorization of WE	C S/A		

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Date

13/04/2022

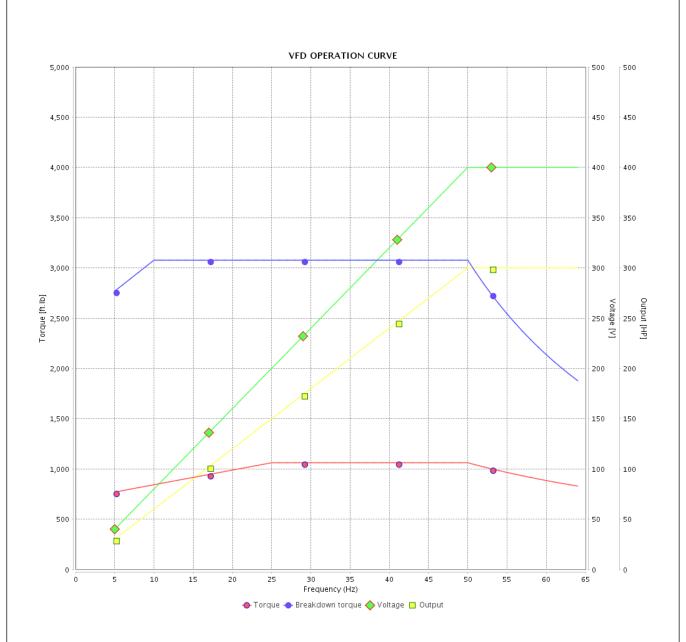
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11473721

Catalog #: 35018ET3G449T-W22

20 / 21



Performance : 400 V 50 Hz 4P IE3 : 389 A Rated current Moment of inertia (J) : 118 sq.ft.lb **LRC** : 8.1 Duty cycle : Cont.(S1) : 1060 ft.lb Insulation class Rated torque : F Locked rotor torque : 290 % Service factor : 1.00 Breakdown torque : 290 % Temperature rise : 105 K Rated speed : 1485 rpm Design : A Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

#### Three Phase Induction Motor - Squirrel Cage



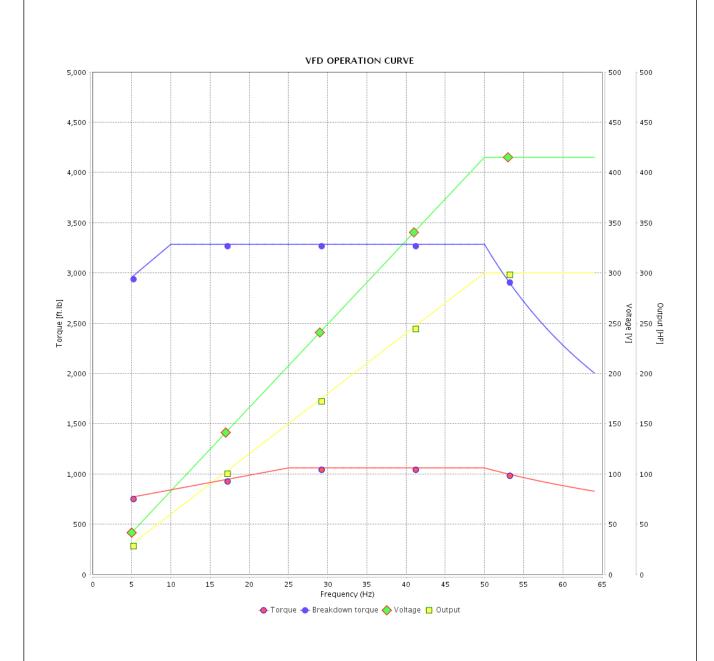
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code : 11473721

Catalog #: 35018ET3G449T-W22



Performance		415 V 50 Hz 4P IE3				
Rated current		379 A	Moment o	Moment of inertia (J)		
LRC		8.9	Duty cycle	Duty cycle		
Rated torque Locked rotor torque		1060 ft.lb	60 ft.lb Insulation class		: Cont.(S1) : F	
		310 %			: 1.00	
Breakdown torque	e :	310 %	1		: 80 K	
Rated speed	:	1487 rpm			: A	
Rev.		Changes Summar	у	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				21 / 21	

