### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11963274

Phase

Catalog #: 30036ET3G449TS-W22

Frame : 447/9TS 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 : 2801 lb

Protection degree : IP55 | Moment of inertia (J) : 58.1 sq.ft.lb

Design		: B			•
Output [HP]		300	250	250	250
Poles		2	2	2	2
Frequency [Hz]		60	50	50	50
Rated voltage [V]		460			415
Rated current [A]		320	326	310	299
L. R. Amperes [A]		2176	2086	2263	2392
LRC [A]		6.8x(Code G)	6.4x(Code F)	7.3x(Code G)	8.0x(Code H)
No load current [A	.]	65.0	64.3	68.5	71.6
Rated speed [RPN	Л]	3570	2970	2970	2975
Slip [%]		0.83	1.00	1.00	0.83
Rated torque [ft.lb]	Rated torque [ft.lb]		442	442	441
Locked rotor torqu	ie [%]	210	190	190 210	
Breakdown torque	: [%]	240	229	229 260	
Service factor		1.15	1.00	1.00 1.00	
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		25s (cold) 14s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)
Noise level <sup>2</sup>		81.0 dB(A)			
	25%	95.3	95.0	95.3	95.3
Temperature rise Locked rotor time	50%	95.4	95.4	95.4	95.4
	75%	95.8	95.4	95.8	95.8
	100%	95.8	95.8	95.8	95.8
	25%	0.65	0.65	0.63	0.61
Power Factor	50%	0.86	0.86	0.85	0.84
1 OWELL ACTOR	75%	0.89	0.89	0.89	0.88
	100%	0.90	0.90	0.90	0.90

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

Bearing type : 6314 C3 6314 C3 | Max. traction : 1893 lb Sealing : WSeal WSeal Max. compression : 4694 lb

4000 h

Lubricant amount : 27 g 27 g Lubricant type : Mobil Polyrex EM

4000 h

Notes

Lubrication interval

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 / 21	

### Three Phase Induction Motor - Squirrel Cage



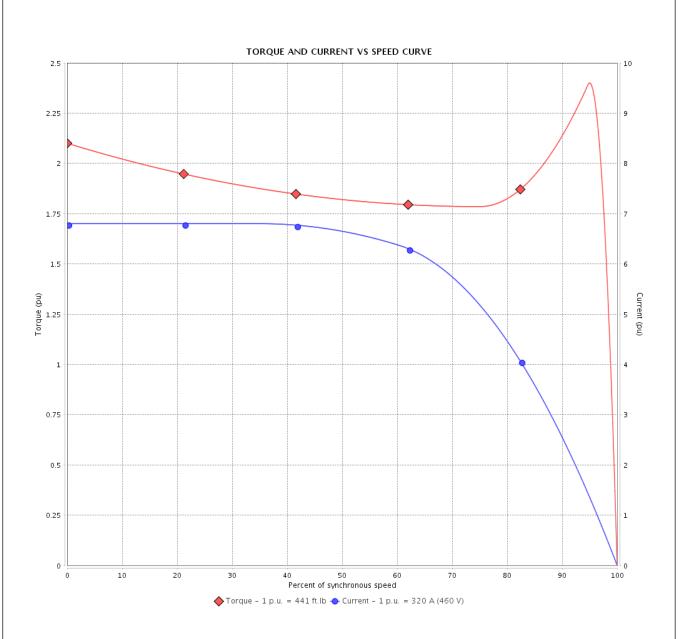
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 30036ET3G449TS-W22

11963274



Performance	: 460 V 60 Hz 2P			
Rated current	: 320 A	Moment of inertia (J)	: 58.1 sq.ft.lb	
LRC	: 6.8	Duty cycle	: Cont.(S1)	
Rated torque	: 441 ft.lb	Insulation class	:F	
Locked rotor torque	: 210 %	Service factor	: 1.15	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 3570 rpm	Design	: B	
Locked rotor time	· 25s (cold) 14s (hot)			

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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			2 / 21	

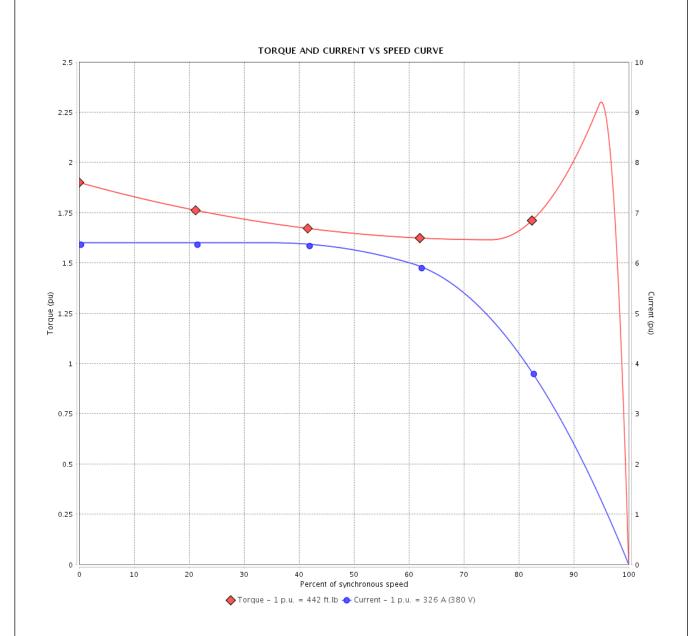
#### Three Phase Induction Motor - Squirrel Cage



30036ET3G449TS-W22

Customer Product line : NEMA Premium Efficiency Three-Product code: 11963274

Catalog #:



Performance : 380 V 50 Hz 2P IE3 Rated current : 326 A Moment of inertia (J) : 58.1 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 442 ft.lb Insulation class Rated torque : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 80 K : B Rated speed : 2970 rpm Design Locked rotor time

: 18s (cold) 10s (hot)

		. , . ,			
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			3 / 21	

### Three Phase Induction Motor - Squirrel Cage

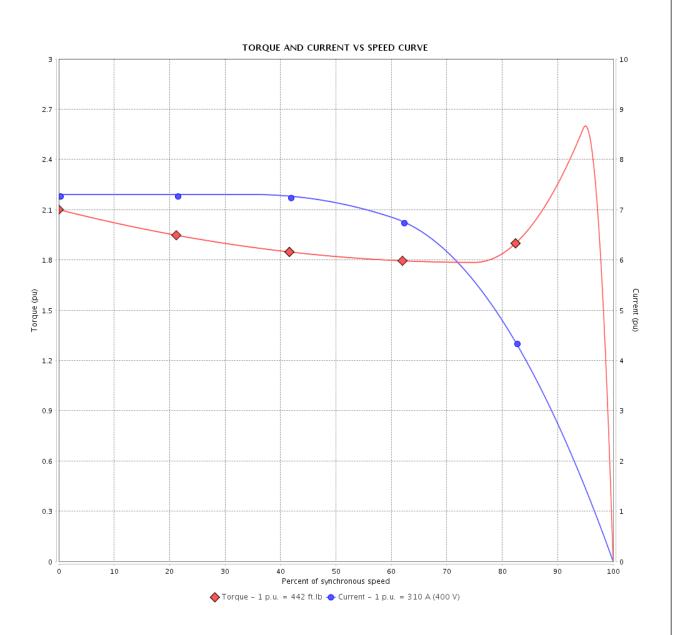


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11963274

Phase

Catalog #: 30036ET3G449TS-W22



Performance	: 400 V 50 Hz 2P IE3		
Rated current	: 310 A	Moment of inertia (J)	: 58.1 sq.ft.lb
LRC	: 7.3	Duty cycle	: Cont.(S1)
Rated torque  Locked rotor torque	: 442 ft.lb : 210 %	Insulation class Service factor	: F : 1.00
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 2970 rpm	Design	: B

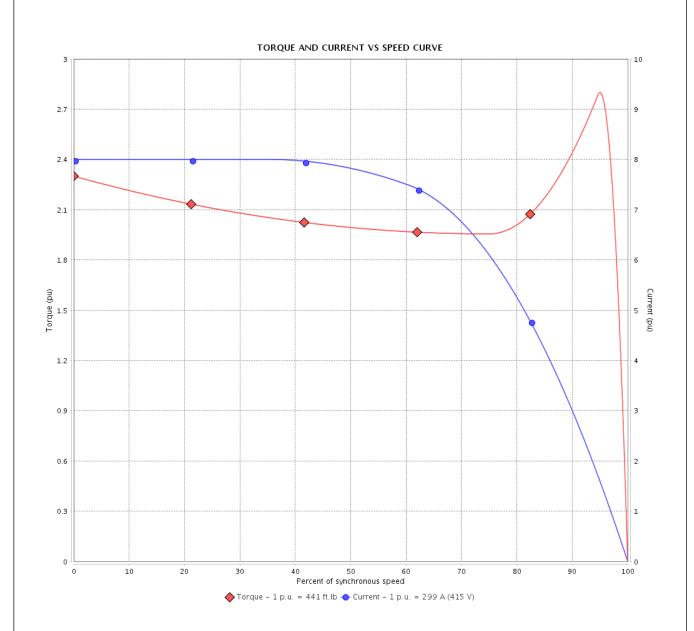
Locked rotor time : 18s (cold) 10s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			4 / 21	

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11963274 Catalog #: 30036ET3G449TS-W22



Performance : 415 V 50 Hz 2P IE3 Rated current : 299 A Moment of inertia (J) : 58.1 sq.ft.lb **LRC** : 8.0 Duty cycle : Cont.(S1) : 441 ft.lb Insulation class : F Rated torque : 229 % : 1.00 Locked rotor torque Service factor : 80 K Breakdown torque : 280 % Temperature rise : B Rated speed : 2975 rpm Design Locked rotor time : 18s (cold) 10s (hot)

LOCKCO TOTOL UITA		33 (cold) 103 (110t)			
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			5 / 21	

#### Three Phase Induction Motor - Squirrel Cage

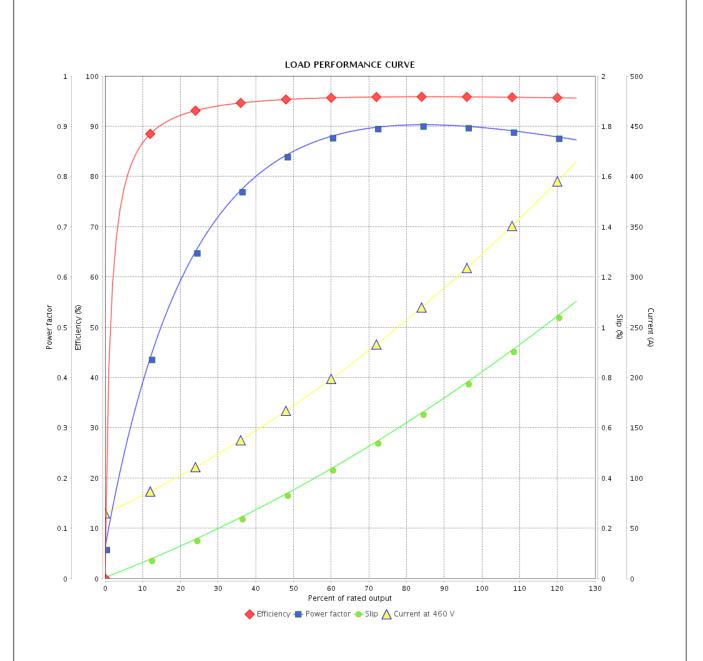


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 30036ET3G449TS-W22

11963274



Performance	: 4	60 V 60 Hz 2P				
Rated current : 320 A		Moment o	of inertia (J)	: 58.1 sq.ft.lb		
LRC	: 6	5.8	Duty cycle	9	: Cont.(S1)	
Rated torque	: 4	41 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2	210 %	Service fa	actor	: 1.15	
Breakdown torque		40 %	Temperature rise		: 80 K	
Rated speed	: 3	570 rpm	Design		: B	
Rev.		Changes Summa	ry	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022	1			6 / 21	

#### Three Phase Induction Motor - Squirrel Cage



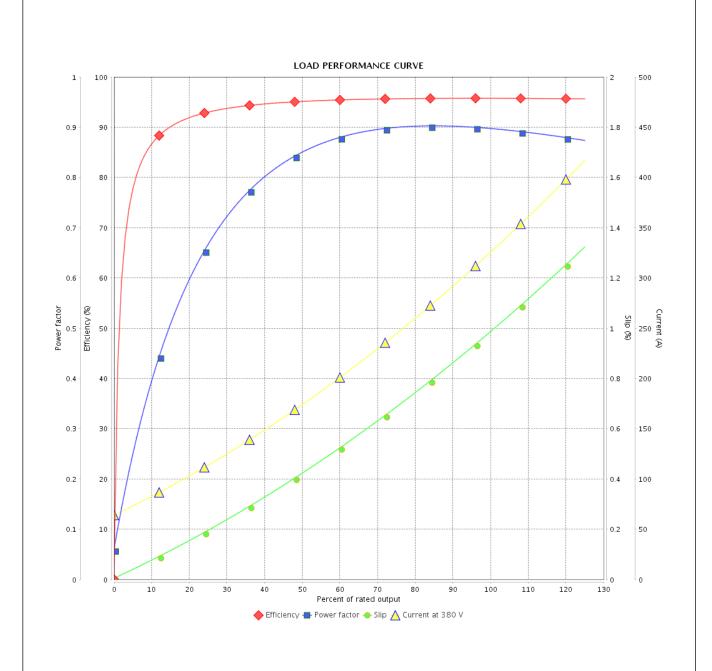
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11963274

Phase

Catalog #: 30036ET3G449TS-W22

7/21



Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 326 A : 6.4 : 442 ft.lb : 190 % : 229 % : 2970 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 58.1 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

Date

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

12/04/2022

Product line : NEMA Premium Efficiency Three- Product code : 11963274

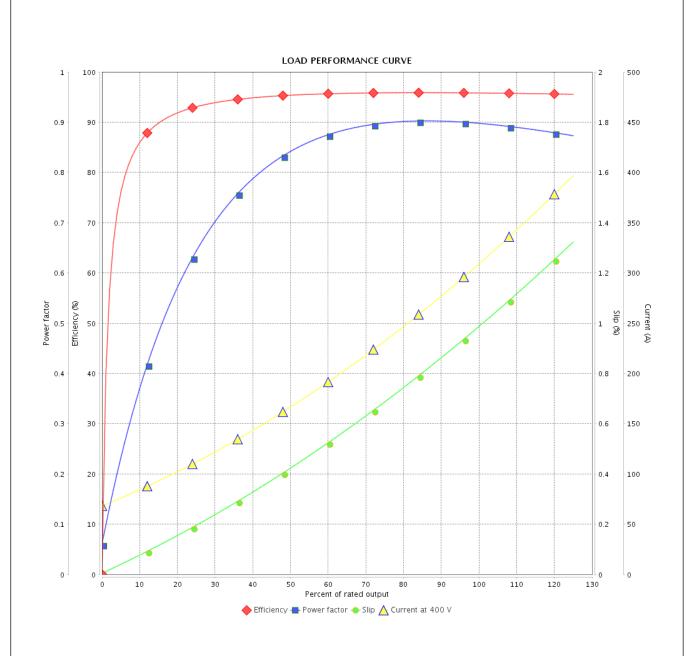
Phase

Catalog #: 30036ET3G449TS-W22

Page

8 / 21

Revision



Performance	: 4	100 V 50 Hz 2P IE3	i			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7 : 4 jue : 2	810 A 7.3 842 ft.lb 810 % 860 % 8970 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 58.1 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Rev. Changes Summary		ry	Performed	Checked	Date
Performed by						

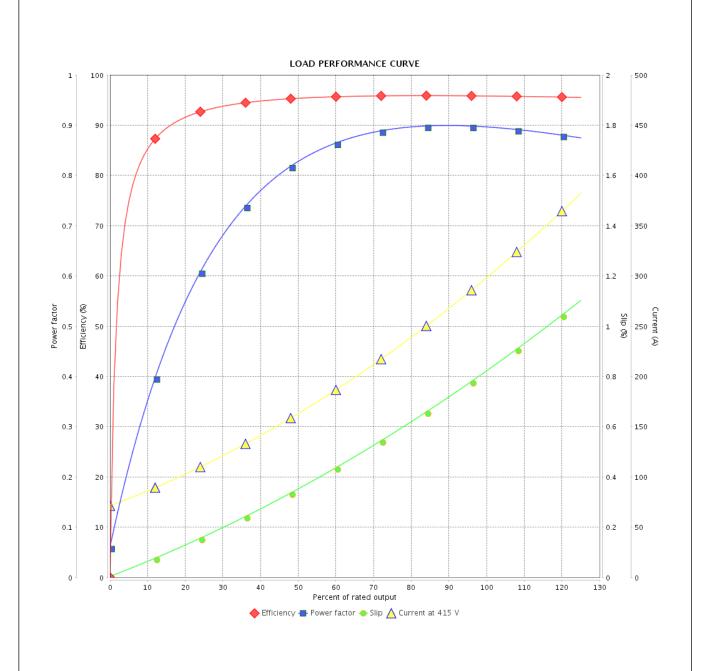
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11963274

Catalog #: 30036ET3G449TS-W22



Performance	: 4	115 V 50 Hz 2P IE3				
Rated current : 2		299 A	Moment o	Moment of inertia (J)		
LRC	: 8	3.0	Duty cycle	)	: Cont.(S1)	
Rated torque	: 4	l41 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 2	229 %	Service fa	ctor	: 1.00	
Breakdown torque		280 %	Temperatu	Temperature rise		
Rated speed	: 2	2975 rpm	Design		: B	
Rev.		Changes Summa	ry	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				9 / 21	

### Three Phase Induction Motor - Squirrel Cage

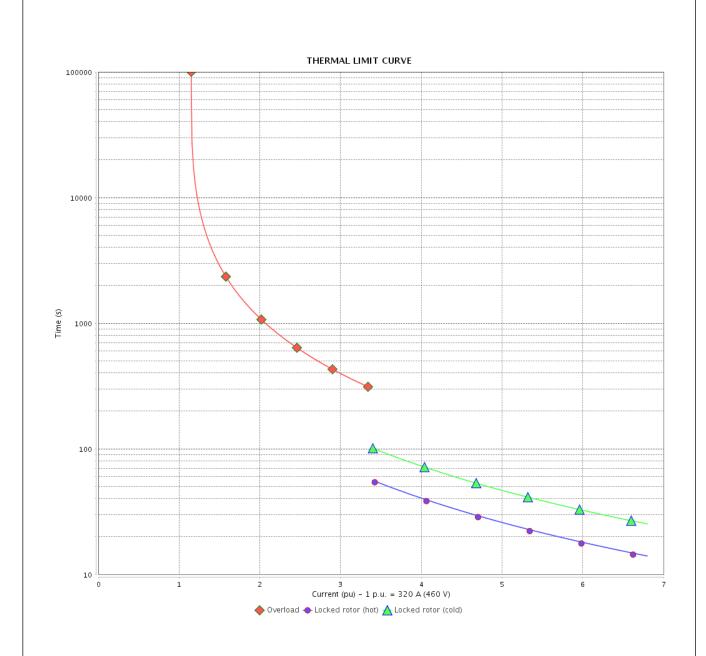


Customer	:				_	
Product line		NEMA Premium Efficiency hase		Product code :	11963274 30036ET3G4	49TS-W22
Performance		60 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6. : 4 <sup>2</sup> ue : 2 <sup>2</sup> e : 2 <sup>2</sup>	20 A 8 41 ft.lb 10 % 40 % 570 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 58.1 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant		·				
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by Checked by					Page	Revision
Ollecked by	40/04/0600				1 aye	17041910[]

### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			11 / 21	

### Three Phase Induction Motor - Squirrel Cage

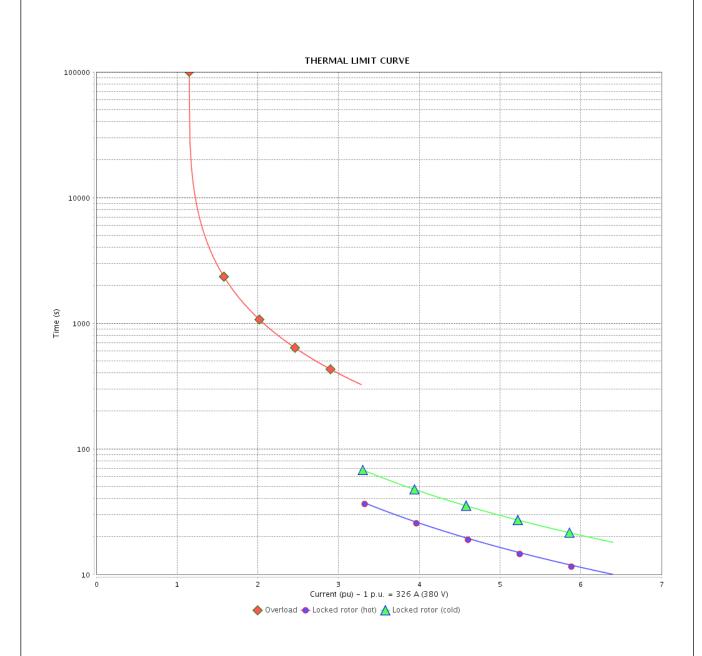


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11963274 30036ET3G44	19TS-W22
Performance		: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque		: 326 A : 6.4 : 442 ft.lb	Moment of Duty cycle Insulation		: 58.1 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord	que	: 190 %	Service fa	ictor	: 1.00	
Breakdown torqu Rated speed		: 229 % : 2970 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constant						
Cooling constant Rev.	<u> </u>	Changes Summary		Performed	Checked	Date
					-	
Performed by					Б	D : :
Checked by	12/04/2022				Page 12 / 21	Revision

### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022	1		13 / 21	

### Three Phase Induction Motor - Squirrel Cage

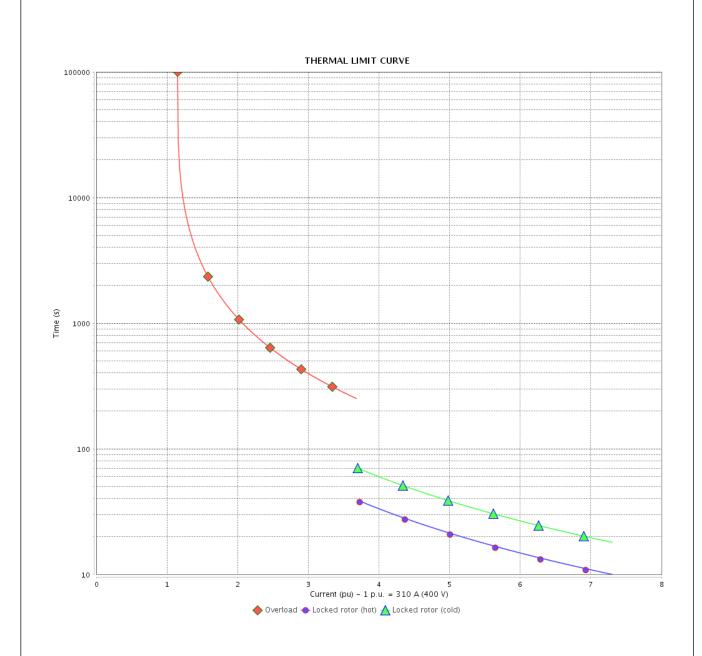


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11963274 30036ET3G44	19TS-W22
Performance		: 400 V 50 Hz 2P IE3				
Rated current LRC		: 310 A : 7.3	Duty cycle		: 58.1 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 442 ft.lb : 210 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue	: 260 %	Temperat		: 80 K	
Rated speed		: 2970 rpm	Design		: B	
Heating constan						
Cooling constant	Ţ.	Changes Summers		Performed	Checked	Date
r\ev.		Changes Summary		renomea	Checked	Date
Performed by					I	
Checked by					Page	Revision
Date	12/04/2022				14 / 21	

#### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			15 / 21	

### Three Phase Induction Motor - Squirrel Cage

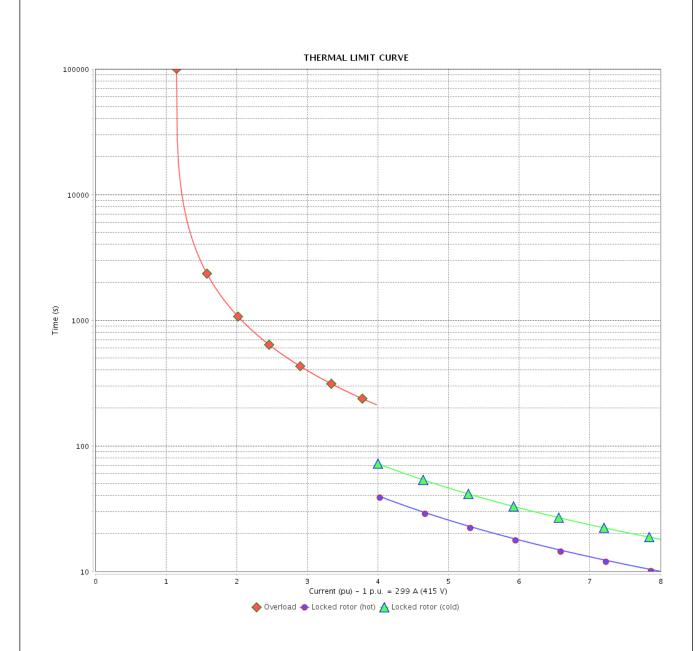


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11963274 30036ET3G44	49TS-W22
Performance		: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque		: 299 A : 8.0 : 441 ft.lb	Moment of Duty cycle Insulation		: 58.1 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord	que	: 229 %	Service fa	ctor	: 1.00	
Breakdown torqu Rated speed		: 280 % : 2975 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constan						
Cooling constant	t	Changes Commercial		Dorform	Charles	Data
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by	12/04/2022				Page 16 / 21	Revision

### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			17 / 21	

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

12/04/2022

Product line : NEMA Premium Efficiency Three- Product code :

Phase

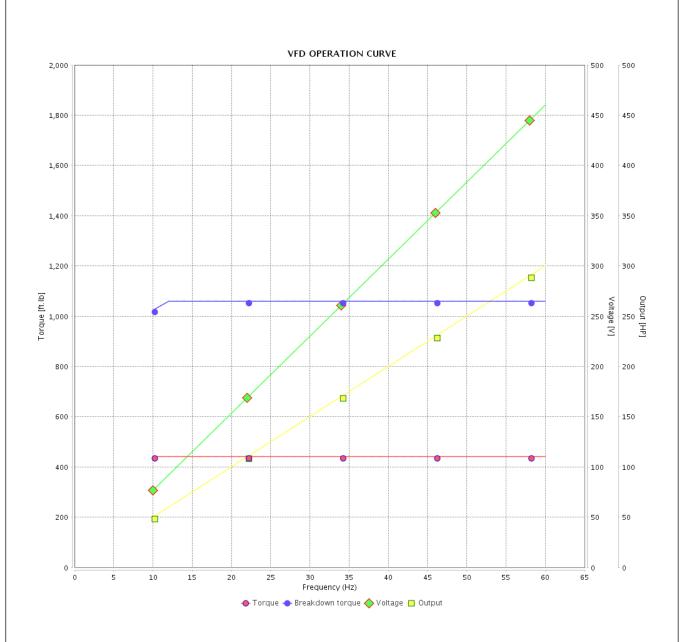
Catalog #: 30036ET3G449TS-W22

Page

18/21

Revision

11963274



Performance	: 460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 58.1 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.	Changes Summar	У	Performed	Checked	Date
Performed by					
i chomica by					

#### Three Phase Induction Motor - Squirrel Cage



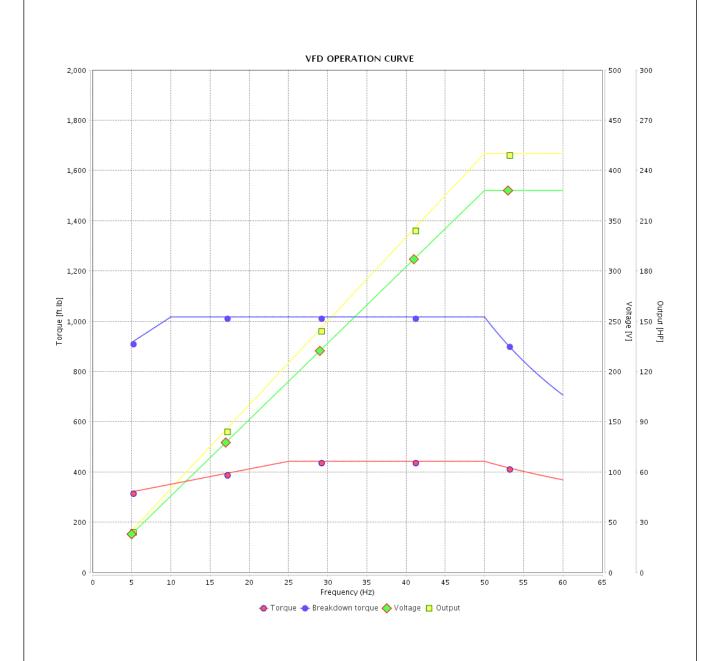
Customer

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11963274

Catalog #: 30036ET3G449TS-W22



Performance	:	380 V 50 Hz 2P IE3				
Rated current	:	326 A	Moment of inertia (J)		: 58.1 sq.ft.lb	
LRC	:	6.4	Duty cycle	•	: Cont.(S1)	
Rated torque	:	442 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie :	190 %	Service fa	ctor	: 1.00	
Breakdown torque		229 %	Temperat	ure rise	: 80 K	
Rated speed	:	2970 rpm	Design		: B	
Rev.		Changes Summar	у	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				19 / 21	

#### Three Phase Induction Motor - Squirrel Cage



Customer :

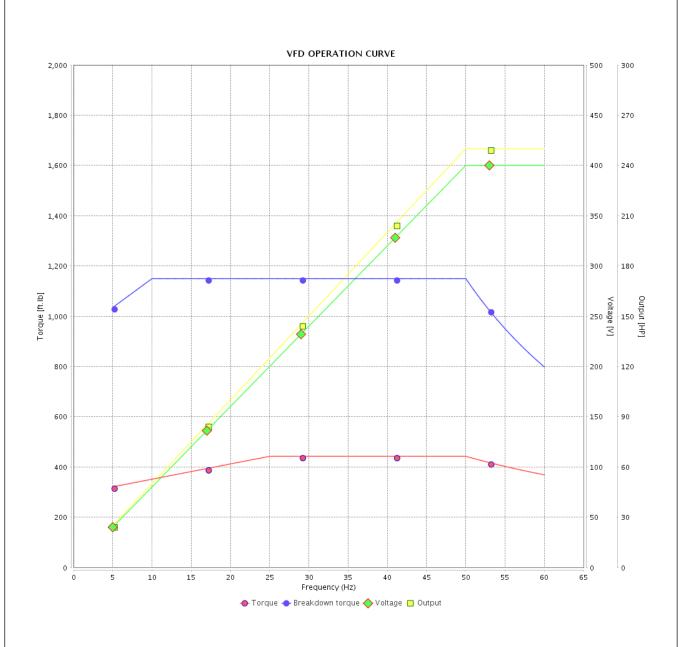
Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 11963274

Catalog #: 30036ET3G449TS-W22

20 / 21



Performance	: 400 V 50 Hz 2P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 310 A : 7.3 : 442 ft.lb : 210 % : 260 % : 2970 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 58.1 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

Date

#### Three Phase Induction Motor - Squirrel Cage



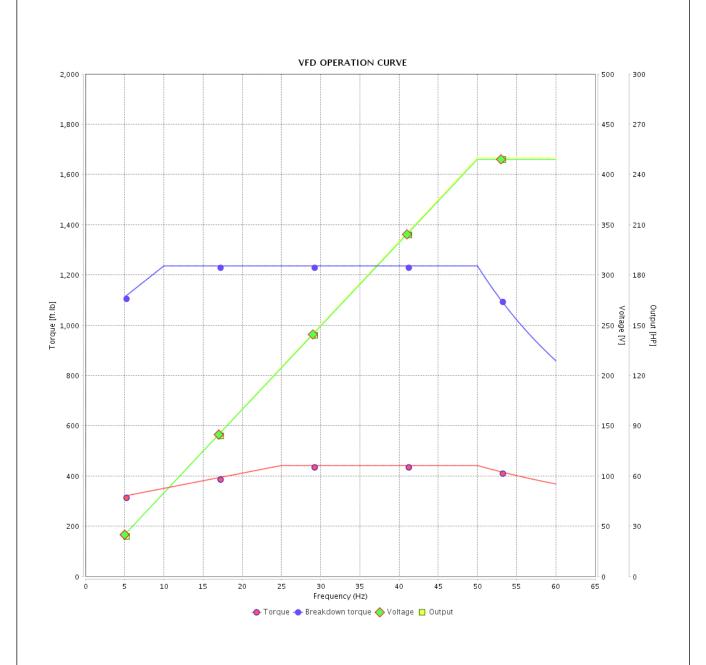
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11963274

Phase

Catalog #: 30036ET3G449TS-W22

21 / 21



Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 299 A : 8.0 : 441 ft.lb : 229 % : 280 % : 2975 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 58.1 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by				<u> </u>	
Checked by				Page	Revision

12/04/2022

Date

