### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12006668

1.11

295

0.87

10018ET3E405TC-W22 Catalog #:

Frame : 404/5TC Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

1.00

265

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) : -20°C to +40°C Starting method Ambient temperature : Direct On Line

: 1000 m.a.s.l. Approx. weight<sup>3</sup> : 1205 lb Altitude : IP55 Moment of inertia (J) : 29.9 sq.ft.lb

Protection degree Design : B

Design	. Б						
Output [HP]	100	75	75	75	100	100	100
Poles	4	4	4	4	4	4	4
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	230/460	380	400	415	380	400	415
Rated current [A]	226/113	102	98.3	95.9	138	131	127
L. R. Amperes [A]	1650/825	785	826	854	814	852	902
LRC [A]	7.3x(Code H)	7.7x(Code H)	8.4x(Code J)	8.9x(Code K)	5.9x(Code F)	6.5x(Code	7.1x(Code H)
						G)	
No load current [A]	76.0/38.0	37.6	40.1	42.0	37.6	40.1	42.0
Rated speed [RPM]	1780	1485	1485	1485	1470	1475	1475

1.00

265

1.00

265

0.84

2.00

357

0.88

1.67

356

0.88

1.67

356

0.87

Locked rotor torqu	e [%]	240	260	280	290	190	210	220
Breakdown torque	[%]	260	280	310	330	210	229	250
Service factor		1.25	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K	105 K	105 K	105 K
Locked rotor time		23s (cold)	16s (cold)					
		13s (hot)	9s (hot)	9s (hot)	9s (hot)	9s (hot)	9s (hot)	9s (hot)
Noise level <sup>2</sup>		68.0 dB(A)	64.0 dB(A)					
	25%							
Efficiency (%)	50%	95.0	94.0	93.9	93.6	94.5	94.5	94.5
Liliciency (70)	75%	95.0	94.4	94.5	94.5	94.1	94.5	94.5
	100%	95.4	95.0	95.0	95.0	93.6	94.1	94.5
	25%							
Power Factor	50%	0.77	0.72	0.69	0.66	0.82	0.79	0.77
FOWEI FACIOI	75%	0.84	0.83	0.81	0.79	0.86	0.85	0.84

0.85

Drive end Non drive end Foundation loads Bearing type 6316 C3 6314 C3 : 2069 lb Max. traction Sealing WSeal WSeal Max. compression : 3274 lb

0.86

Lubrication interval 10000 h 12000 h 27 g Lubricant amount 34 g Lubricant type Mobil Polyrex EM

Notes

Slip [%]

Rated torque [ft.lb]

USABLE @208V 245A SF 1.10 SFA 270A

100%

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.

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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022	1		1 / 36	

#### Three Phase Induction Motor - Squirrel Cage

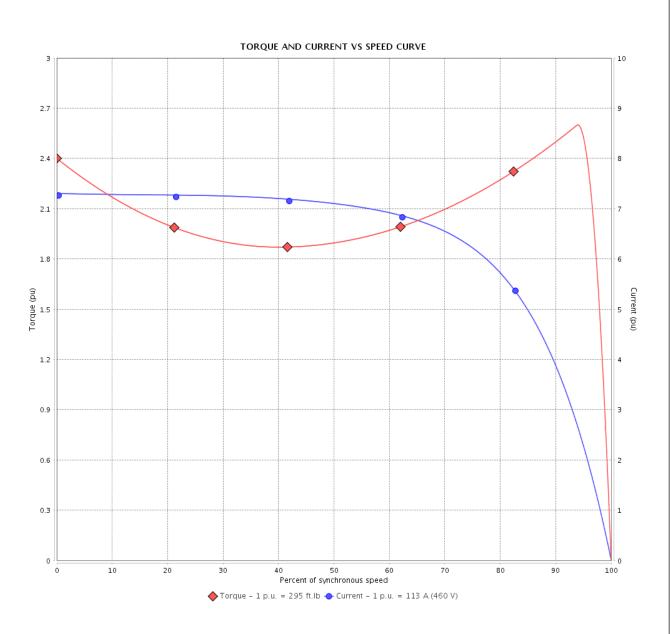


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 10018ET3E405TC-W22

12006668



Performance : 230/460 V 60 Hz 4P Rated current : 226/113 A Moment of inertia (J) : 29.9 sq.ft.lb **LRC** : 7.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 295 ft.lb : F Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B Locked rotor time

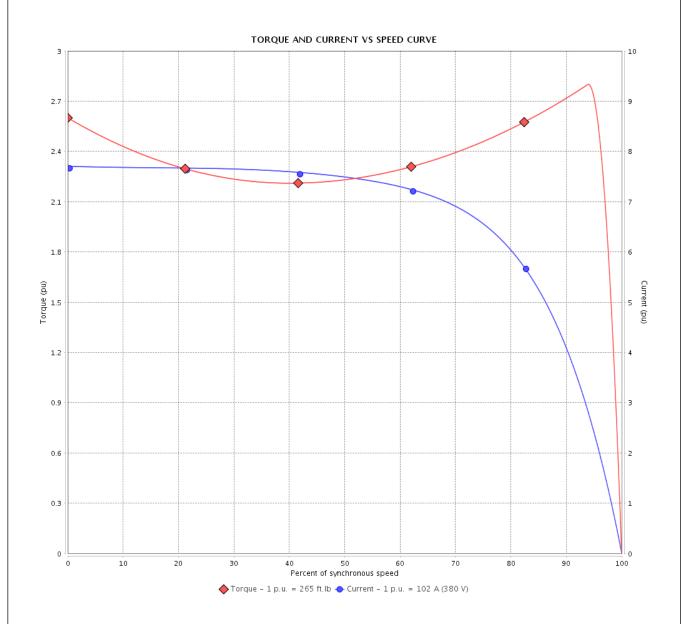
: 23s (cold) 13s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			2 / 36	

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12006668 Catalog #: 10018ET3E405TC-W22



Performance	: 380 V 50 Hz 4P IE3			
Rated current	: 102 A	Moment of inertia (J)	: 29.9 sq.ft.lb	
LRC	: 7.7	Duty cycle	: Cont.(S1)	
Rated torque	: 265 ft.lb	Insulation class	: F	
Locked rotor torque	: 260 %	Service factor	: 1.00	
Breakdown torque	: 280 %	Temperature rise	: 80 K	
Rated speed	: 1485 rpm	Design	: B	
Locked rotor time	: 16s (cold) 9s (hot)			

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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022	_		3 / 36	

#### Three Phase Induction Motor - Squirrel Cage



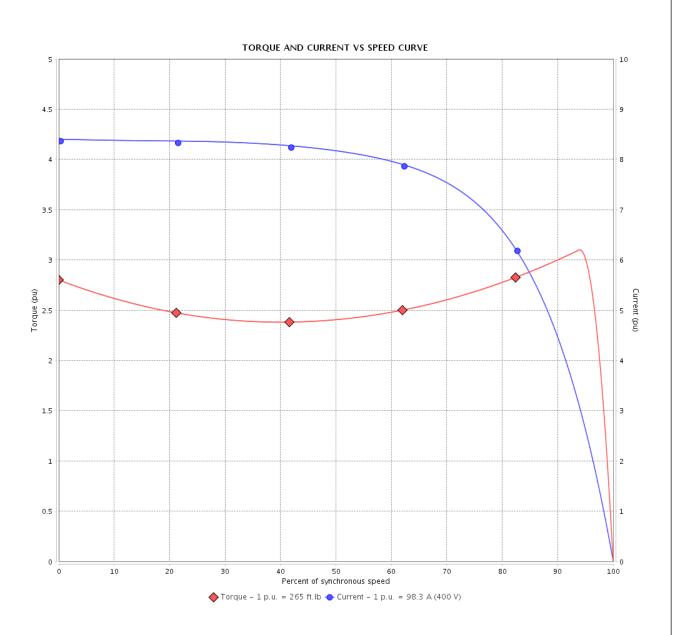
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12006668

Catalog #: 10018ET3E405TC-W22



: 400 V 50 Hz 4P IE3 Performance Rated current : 98.3 A Moment of inertia (J) : 29.9 sq.ft.lb **LRC** : 8.4 Duty cycle : Cont.(S1) : 265 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 280 % : 1.00 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1485 rpm Design : B

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			4 / 36	



Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12006668 Catalog #: 10018ET3E405TC-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 265 ft.lb ◆ Current - 1 p.u. = 95.9 A (415 V) Performance : 415 V 50 Hz 4P IE3 Rated current : 95.9 A Moment of inertia (J) : 29.9 sq.ft.lb **LRC** : 8.9 Duty cycle : Cont.(S1) : 265 ft.lb Rated torque Insulation class : F : 290 % Locked rotor torque Service factor : 1.00 : 330 % : 80 K Breakdown torque Temperature rise Rated speed · 1485 rpm Design

ica speca	. 1 <del>4</del> 03 (pill		Design		. 0	
cked rotor time	: 16	Ss (cold) 9s (hot)				
Rev.		Changes Summary		Performed	Checked	Date
erformed by						
hecked by					Page	Revision
Date	14/04/2022				5 / 36	
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### Three Phase Induction Motor - Squirrel Cage

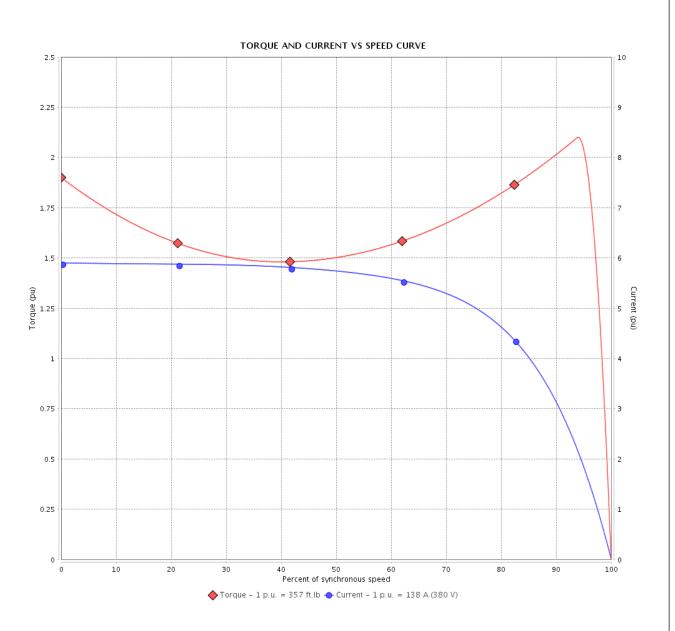


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12006668

Phase

Catalog #: 10018ET3E405TC-W22



Performance	: 380 V 50 Hz 4P IE1			
Rated current	: 138 A	Moment of inertia (J)	: 29.9 sq.ft.lb	
LRC	: 5.9	Duty cycle	: Cont.(S1)	
Rated torque	: 357 ft.lb	Insulation class	: F	
Locked rotor torque	: 190 %	Service factor	: 1.00	
Breakdown torque	: 210 %	Temperature rise	: 105 K	
Rated speed	: 1470 rpm	Design	: B	
Locked rotor time	: 16s (cold) 9s (hot)			

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			6 / 36	

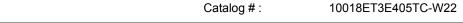
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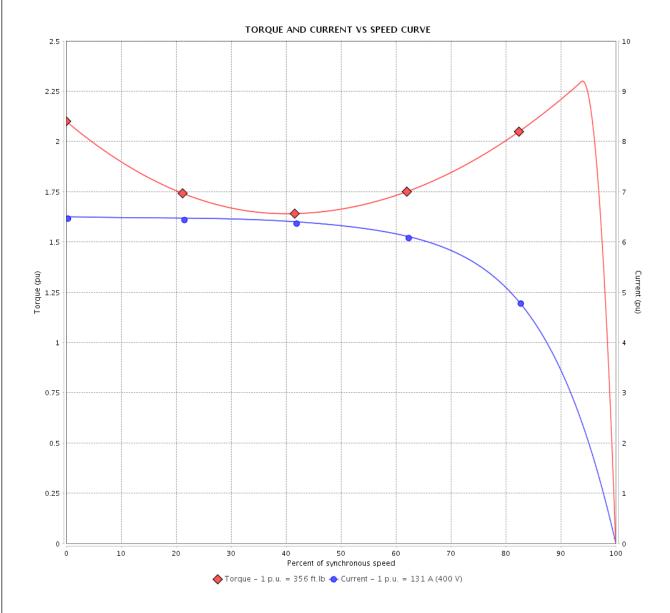


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12006668

Phase





Performance	: 400 V 50 Hz 4P IE2			
Rated current	: 131 A	Moment of inertia (J)	: 29.9 sq.ft.lb	
LRC	: 6.5	Duty cycle	: Cont.(S1)	
Rated torque	: 356 ft.lb	Insulation class	: F	
Locked rotor torque	: 210 %	Service factor	: 1.00	
Breakdown torque	: 229 %	Temperature rise	: 105 K	
Rated speed	: 1475 rpm	Design	: B	

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Rev.		Changes Summary	Performed	Checked	Date
Checked by				Page	Revision
Date	14/04/2022	_		7 / 36	

### Three Phase Induction Motor - Squirrel Cage

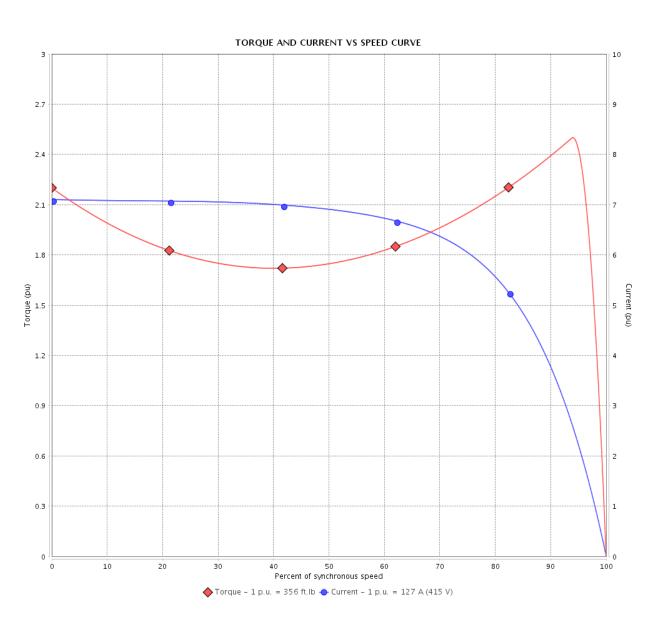


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12006668

Phase

Catalog #: 10018ET3E405TC-W22



Performance	: 415 V 50 Hz 4P IE2			
Rated current	: 127 A	Moment of inertia (J)	: 29.9 sq.ft.lb	
LRC	: 7.1	Duty cycle	: Cont.(S1)	
Rated torque	: 356 ft.lb	Insulation class	: F	
Locked rotor torque	: 220 %	Service factor	: 1.00	
Breakdown torque	: 250 %	Temperature rise	: 105 K	
Rated speed	: 1475 rpm	Design	: B	
Locked rotor time	: 16s (cold) 9s (hot)			

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			8 / 36	

#### Three Phase Induction Motor - Squirrel Cage

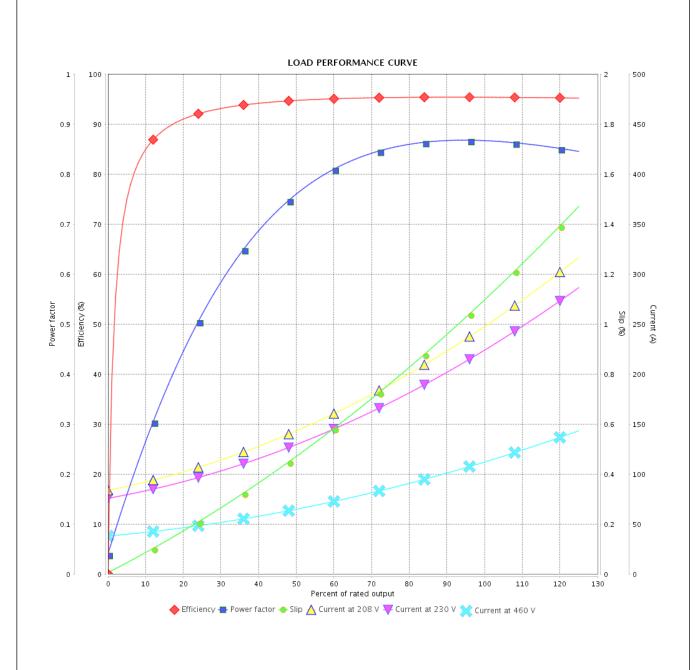


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12006668

Phase

Catalog #: 10018ET3E405TC-W22



Performance	: 2	230/460 V 60 Hz 4P				
Rated current	: 2	226/113 A	Moment o	f inertia (J)	: 29.9 sq.ft.lb	
LRC	: 7	7.3	Duty cycle	}	: Cont.(S1)	
Rated torque	: 2	295 ft.lb	Insulation	class	: F	
Locked rotor torque	e :2	240 %	Service fa	ctor	: 1.25	
Breakdown torque	: 2	260 %	Temperati	ıre rise	: 80 K	
Rated speed	: ′	1780 rpm	Design		: B	
Rev.		Changes Summary	<u>'</u>	Performed	Checked	Date
Performed by						
Checked by		7			Page	Revision
Date	14/04/2022				9 / 36	

#### Three Phase Induction Motor - Squirrel Cage



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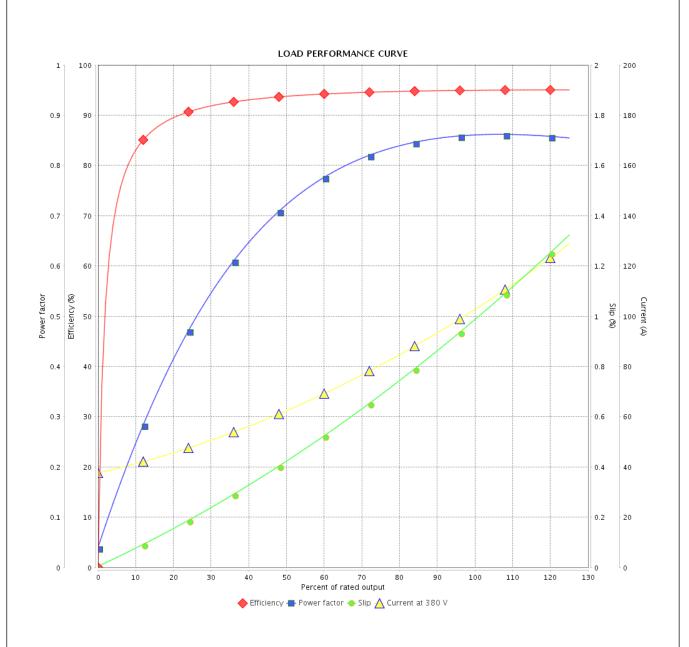
Product line : NEMA Premium Efficiency Three- Product co

Phase

Product code: 12006668

Catalog #: 10018ET3E405TC-W22

10/36



Dorformana	· 200 V E0 H= 4D IF2				
Performance	: 380 V 50 Hz 4P IE3				
Rated current	ated current : 102 A		nertia (J)	: 29.9 sq.ft.lb	
LRC	: 7.7	Duty cycle		: Cont.(S1)	
Rated torque	: 265 ft.lb	Insulation cl	ass	: F	
Locked rotor torque	: 260 %	Service factor		: 1.00	
Breakdown torque	: 280 %	Temperature rise		: 80 K	
Rated speed	: 1485 rpm	Design		: B	
Rev.	Changes Summary		Performed	Checked	Date
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Performed by					
Checked by				Page	Revision

14/04/2022

Date

#### Three Phase Induction Motor - Squirrel Cage

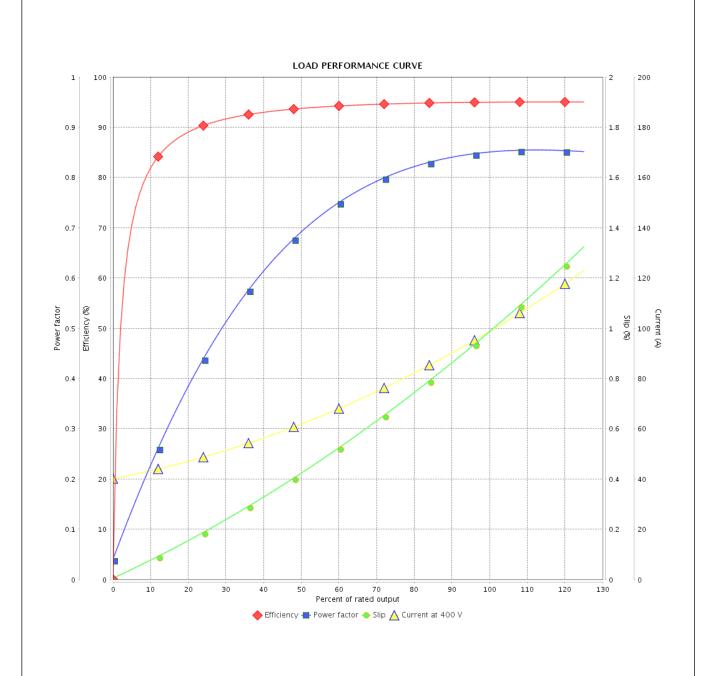


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12006668

Phase

Catalog #: 10018ET3E405TC-W22



Performance	: 400 V 50 Hz 4P IE3					
Rated current	ted current : 98.3 A		Moment of	f inertia (J)	: 29.9 sq.ft.lb	
LRC	: 8.	4	Duty cycle	;	: Cont.(S1)	
Rated torque	: 20	65 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 28	30 %	Service fa	ctor	: 1.00	
Breakdown torque	: 3	10 %	Temperat	ure rise	: 80 K	
Rated speed	: 14	485 rpm	Design		: B	
Rev.		Changes Summary	1	Performed	Checked	Date
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Performed by						
Checked by					Page	Revision
Date	14/04/2022	1			11 / 36	

#### Three Phase Induction Motor - Squirrel Cage

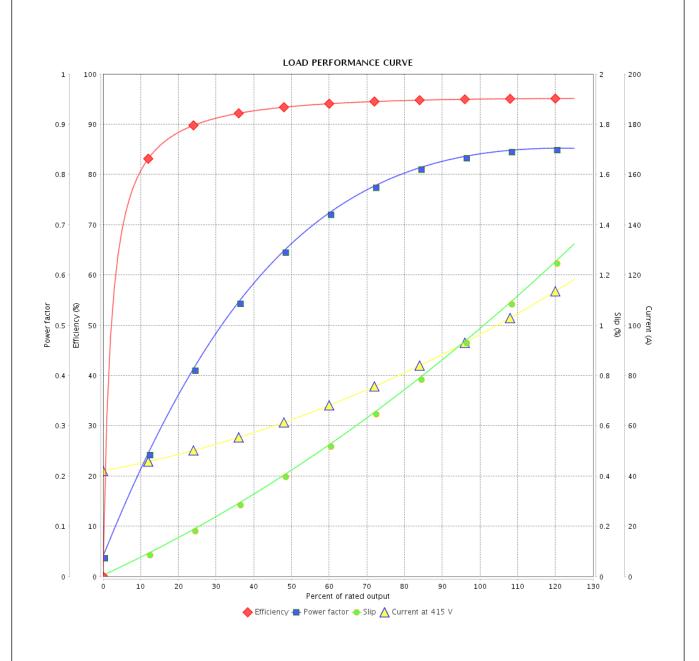


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12006668

Phase

Catalog #: 10018ET3E405TC-W22



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	: 9	5.9 A	Moment of	of inertia (J)	: 29.9 sq.ft.lb	
LRC	: 8	3.9	Duty cycle	9	: Cont.(S1)	
Rated torque	: 2	65 ft.lb	Insulation	class	: F	
Locked rotor torg	μe : 2	90 %	Service fa	octor	: 1.00	
Breakdown torqu	ie : 3	30 %	Temperat	ure rise	: 80 K	
Rated speed	: 1	485 rpm	Design		: B	
Rev.		Changes Summary	 	Performed	Checked	Date
		T				
Performed by						
Checked by					Page	Revision
Date	14/04/2022	7			12 / 36	

#### Three Phase Induction Motor - Squirrel Cage



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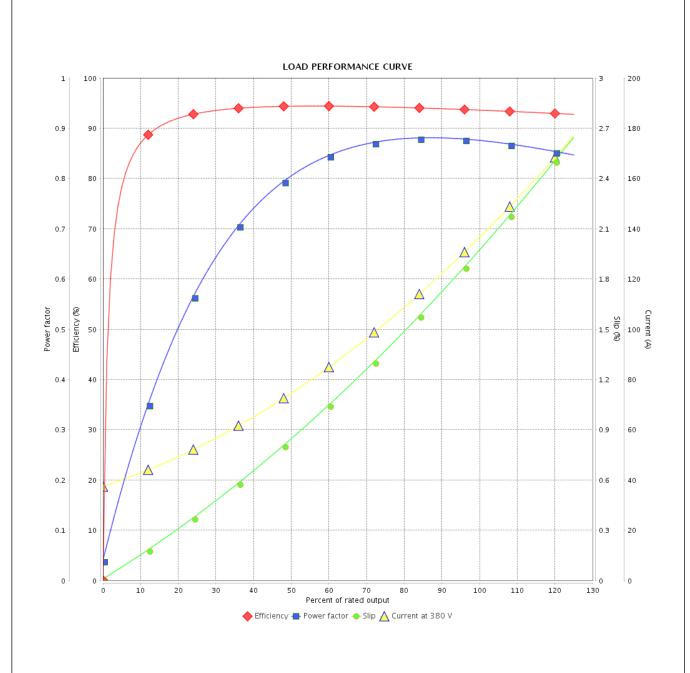
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #:

12006668

10018ET3E405TC-W22



Performance	: 3	80 V 50 Hz 4P IE1				
Rated current	: 1	38 A	Moment of	f inertia (J)	: 29.9 sq.ft.lb	
LRC	: 5	.9	Duty cycle	•	: Cont.(S1)	
Rated torque	: 3	57 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 1	90 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	10 %	Temperati	ure rise	: 105 K	
Rated speed	: 1	470 rpm	Design		: B	
Rev.		Changes Summar	у	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022	1			13 / 36	

#### Three Phase Induction Motor - Squirrel Cage

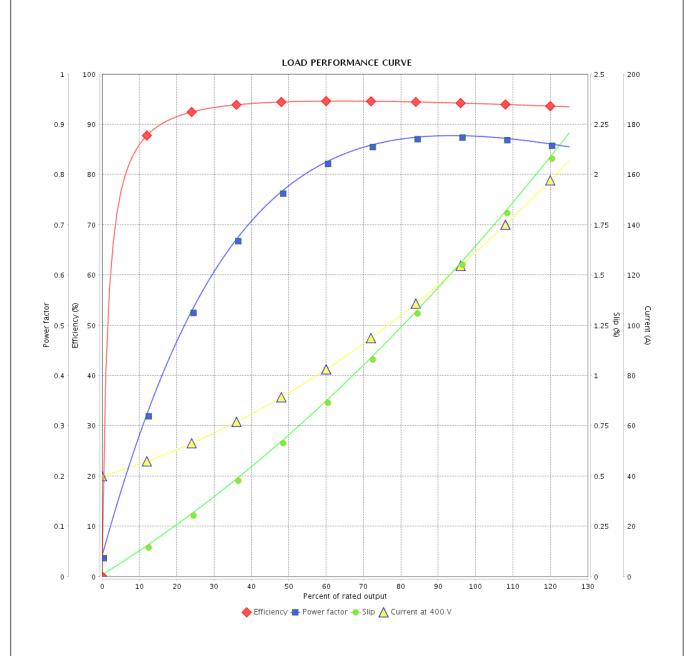


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12006668

Phase

Catalog #: 10018ET3E405TC-W22



Performance	: 400 V 50 Hz 4P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 131 A : 6.5 : 356 ft.lb : 210 % : 229 % : 1475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 29.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision

14/36

14/04/2022

Date

#### Three Phase Induction Motor - Squirrel Cage

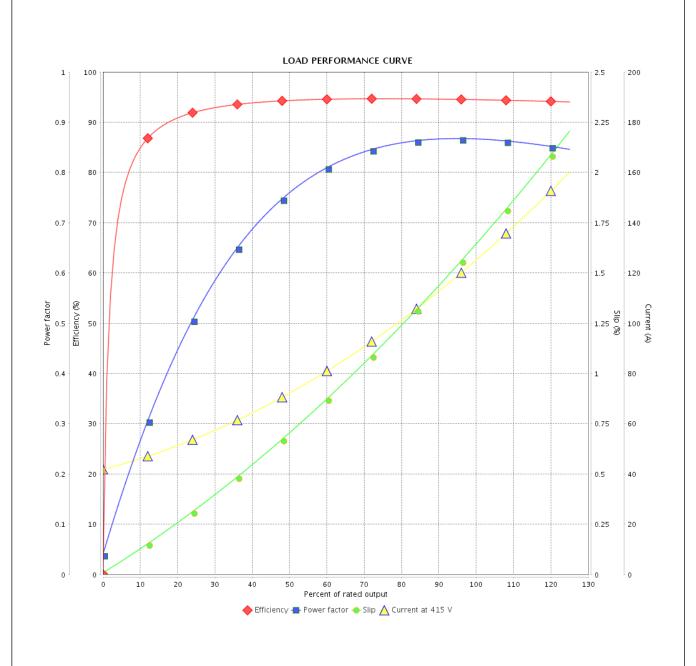


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12006668

Phase

Catalog #: 10018ET3E405TC-W22



Performance	:	415 V 50 Hz 4P IE2					
Rated current	:	127 A	Moment o	f inertia (J)	: 29.9 sq.ft.lb		
LRC	:	7.1	Duty cycle	)	: Cont.(S1)		
Rated torque ::		356 ft.lb	Insulation	class	: F		
Locked rotor torque		220 %	Service fa	ctor	: 1.00		
Breakdown torque	e ::	250 %	Temperati	Temperature rise		: 105 K	
Rated speed	:	1475 rpm	Design		: B		
Rev.		Changes Summa	ry	Performed	Checked	Date	
Performed by							
Checked by					Page	Revision	
Date	14/04/2022				15 / 36		

### Three Phase Induction Motor - Squirrel Cage

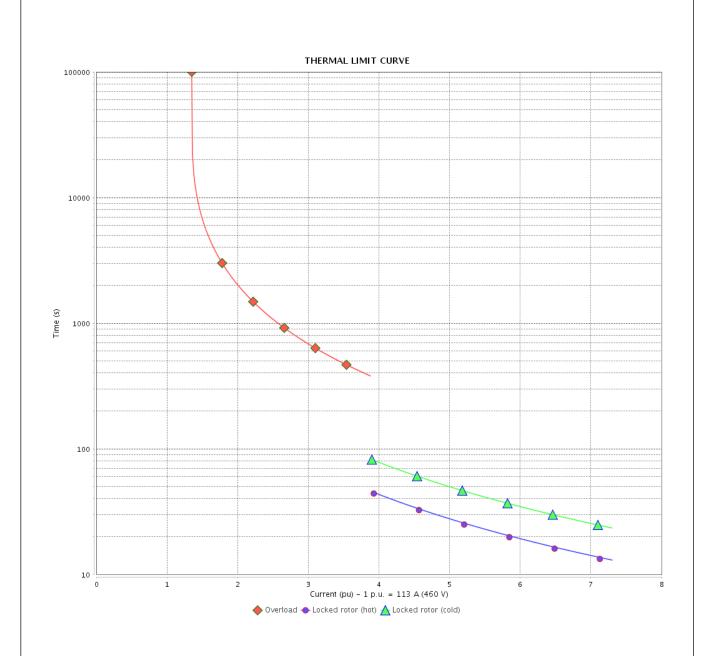


Customer	:				<del>-</del>	
Product line	1:	NEMA Premium Efficiency	Three-	Product code :	12006668	
		hase		Catalog # :	10018ET3E40	05TC-W22
				Catalog # .	10010E13E40	J31C-VVZZ
Performance		30/460 V 60 Hz 4P	T			
Rated current LRC	: 22 : 7.	26/113 A	Moment of Duty cycle	f inertia (J)	: 29.9 sq.ft.lb : Cont.(S1)	
Rated torque	: 29	95 ft.lb	Insulation	class	: F	
Locked rotor torqu		40 %	Service fa		: 1.25	
Breakdown torque Rated speed		60 % 780 rpm	Temperatu Design	ire rise	: 80 K : B	
Heating constant			_			
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
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### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			17 / 36	

### Three Phase Induction Motor - Squirrel Cage

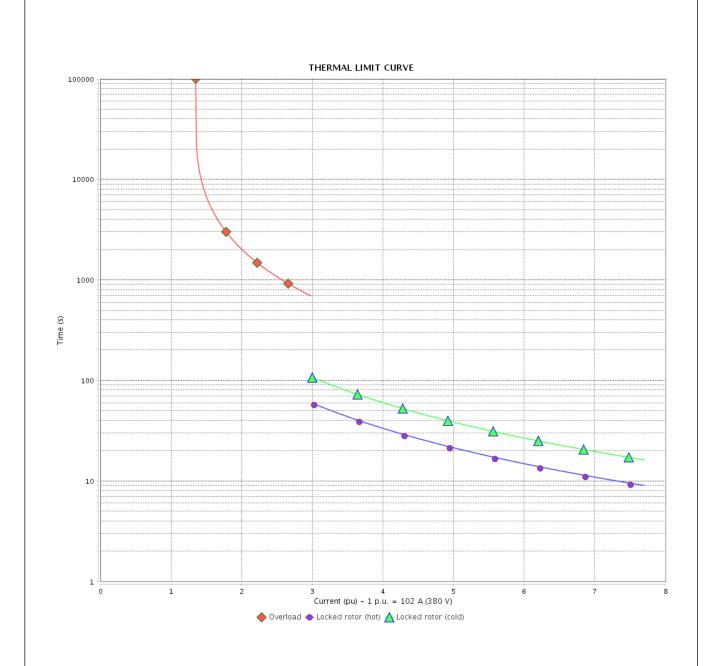


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12006668 10018ET3E40	05TC-W22
Performance		: 380 V 50 Hz 4P IE3				
Rated current		: 102 A : 7.7	Moment o	of inertia (J)	: 29.9 sq.ft.lb	
LRC Rated torque		: 265 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor tord		: 260 %	Service fa		: 1.00	
Breakdown torqu Rated speed		: 280 % : 1485 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constan	t					
Cooling constant	t					
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				18 / 36	

### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			19 / 36	

### Three Phase Induction Motor - Squirrel Cage

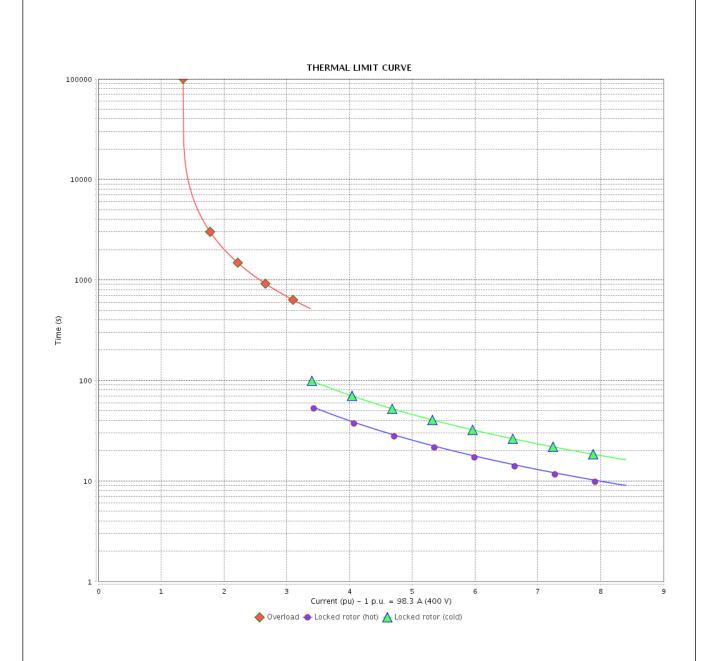


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	12006668 10018ET3E4	05TC-W22
Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 98.3 A : 8.4 : 265 ft.lb : 280 % : 310 % : 1485 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ictor	: 29.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant					
Rev.	Changes Summary		Performed	Checked	Date
Performed by Checked by Date 14/04/20	22			Page 20 / 36	Revision

### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by			·		
Checked by				Page	Revision
Date	14/04/2022			21 / 36	

### Three Phase Induction Motor - Squirrel Cage

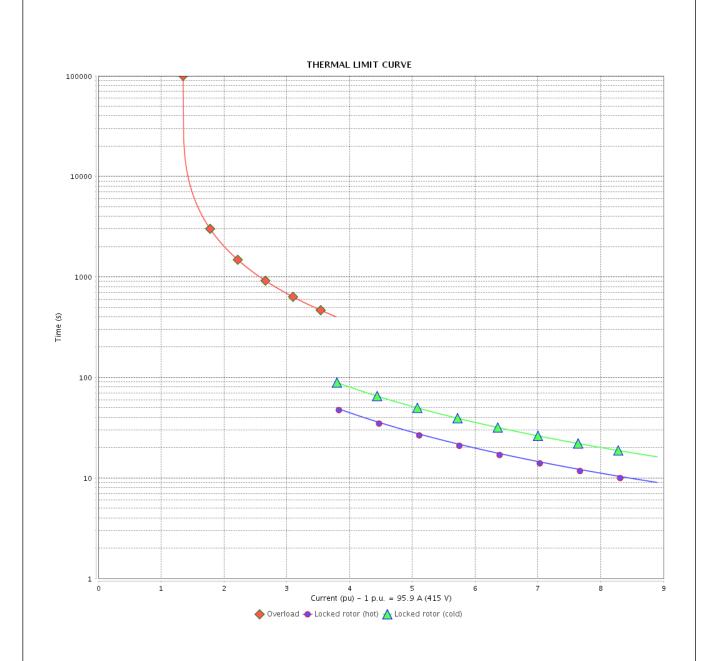


Customer	:			·	
Product line	: NEMA Premium Efficiency	Three-	Product code :	12006668	
	Phase		Catalog # :	10018ET3E4	OSTO MOS
			Catalog # .	10016E13E4	0510-4422
Performance	: 415 V 50 Hz 4P IE3	Г			
Rated current LRC	: 95.9 A : 8.9	Moment o  Duty cycle	f inertia (J)	: 29.9 sq.ft.lb : Cont.(S1)	
Rated torque	: 265 ft.lb	Insulation	class	: F	
Locked rotor torque	: 290 % : 330 %	Service fa Temperatu		: 1.00 : 80 K	
Breakdown torque Rated speed	: 1485 rpm	Design	ire rise	: B	
Heating constant		-			
Cooling constant					
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			23 / 36	

### Three Phase Induction Motor - Squirrel Cage

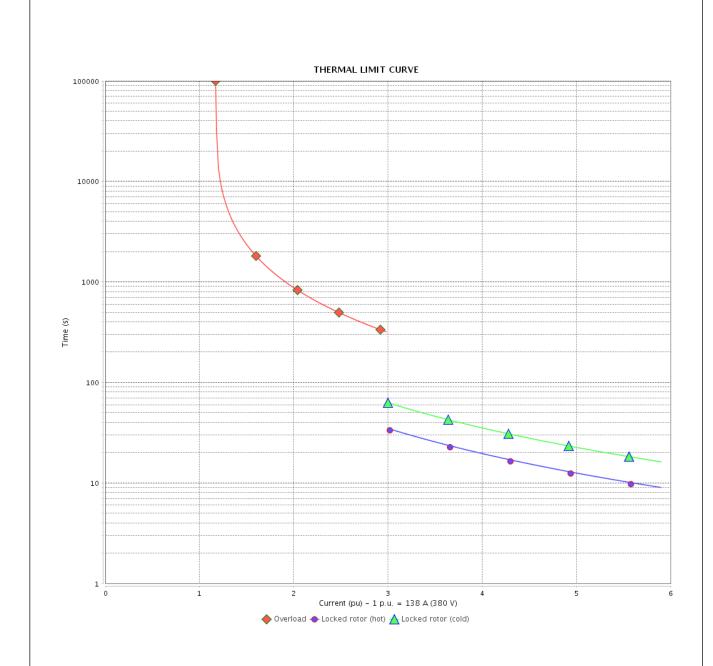


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Product line	: 1	NEMA Premium Efficiency	Three-	Product code :	12006668	
		hase		Catalog # :	10018ET3E40	OSTC W22
				Catalog # .	10016E13E40	J51C-VV22
Performance	: 38	30 V 50 Hz 4P IE1				
Rated current		38 A	Moment o	f inertia (J)	: 29.9 sq.ft.lb	
LRC Rated torque	: 5. : 35	9 57 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torque	: 19	90 %	Service fa	ctor	: 1.00	
Breakdown torque Rated speed		10 % 470 rpm	Temperatu Design	ire rise	: 105 K : B	
		I*	75.3			
Heating constant Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
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### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			25 / 36	

### Three Phase Induction Motor - Squirrel Cage

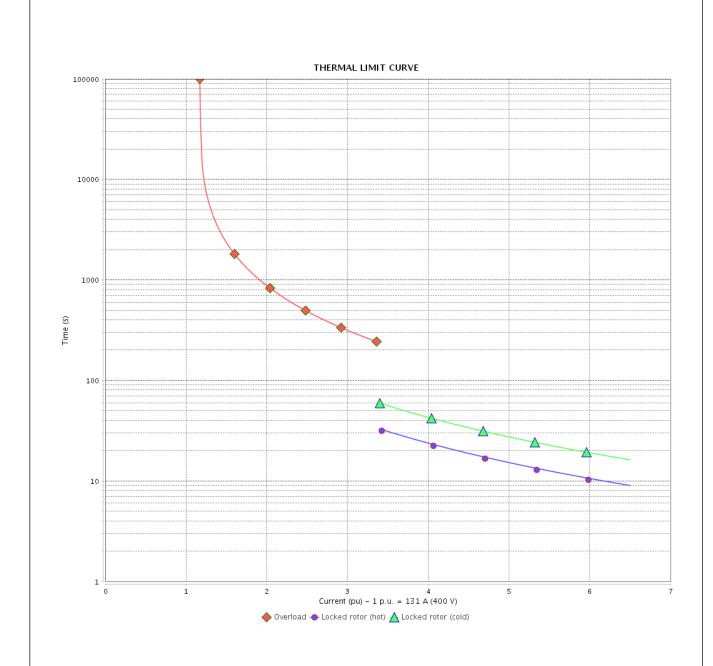


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12006668 10018ET3E40	05TC-W22
Performance		: 400 V 50 Hz 4P IE2				
Rated current LRC		: 131 A : 6.5	Duty cycle		: 29.9 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 356 ft.lb : 210 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue	: 229 %	Temperat		: 105 K	
Rated speed		: 1475 rpm	Design		: B	
Heating constant						
Cooling constant	ι 	Changes Summary		Performed	Checked	Date
		<u> </u>				
Performed by					1	
Checked by	4.45.45				Page	Revision
Date	14/04/2022				26 / 36	

### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by			·		
Checked by				Page	Revision
Date	14/04/2022			27 / 36	

### Three Phase Induction Motor - Squirrel Cage

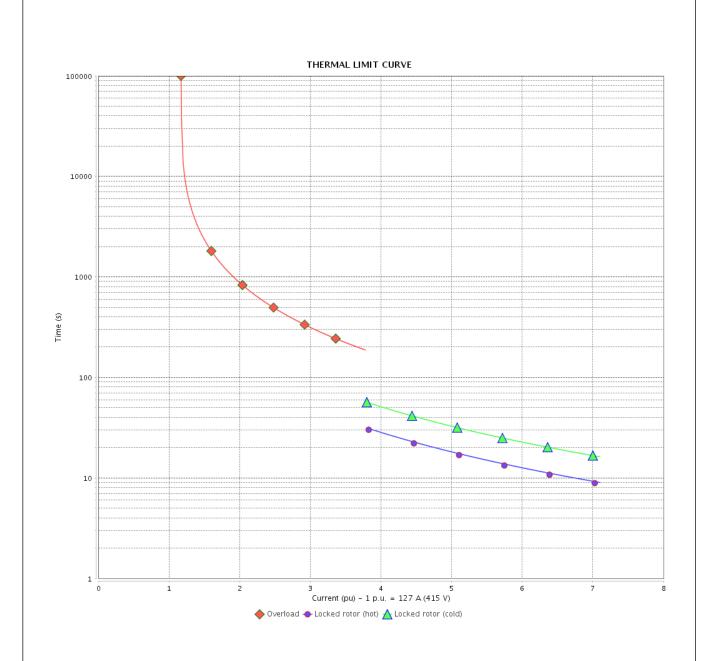


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12006668 10018ET3E40	95TC-W22
Performance		: 415 V 50 Hz 4P IE2				
Rated current LRC		: 127 A : 7.1	Moment of Duty cycle	of inertia (J)	: 29.9 sq.ft.lb : Cont.(S1)	
Rated torque		: 356 ft.lb	Insulation	class	: F	
Locked rotor tord		: 220 % : 250 %	Service fa		: 1.00 : 105 K	
Breakdown torqu Rated speed		: 250 % : 1475 rpm	Temperat Design	uic iise	: 105 K : B	
Heating constan						
Cooling constant	t					
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				28 / 36	

### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			29 / 36	

#### Three Phase Induction Motor - Squirrel Cage



Customer :

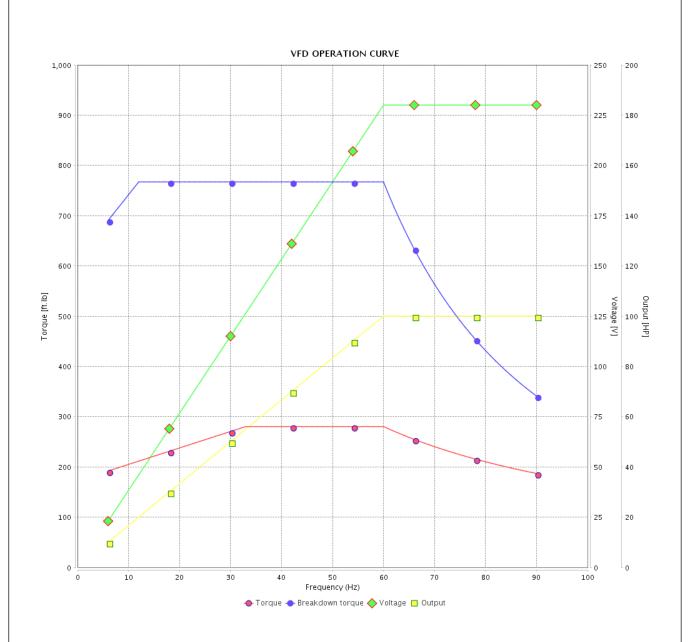
Product line : NEMA Premium Efficiency Three- Product c

Phase

Product code: 12006668

Catalog #: 10018ET3E405TC-W22

30 / 36



					1	
Performance	: 2	230/460 V 60 Hz 4F	•			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7 : 2 que : 2 ie : 2	226/113 A 7.3 295 ft.lb 240 % 260 % 1780 rpm	Moment on Duty cycle Insulation Service fa Temperatu Design	class ctor	: 29.9 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.		Changes Summa	ary	Performed	Checked	Date
Performed by Checked by					Page	Revision

14/04/2022

Date

#### Three Phase Induction Motor - Squirrel Cage



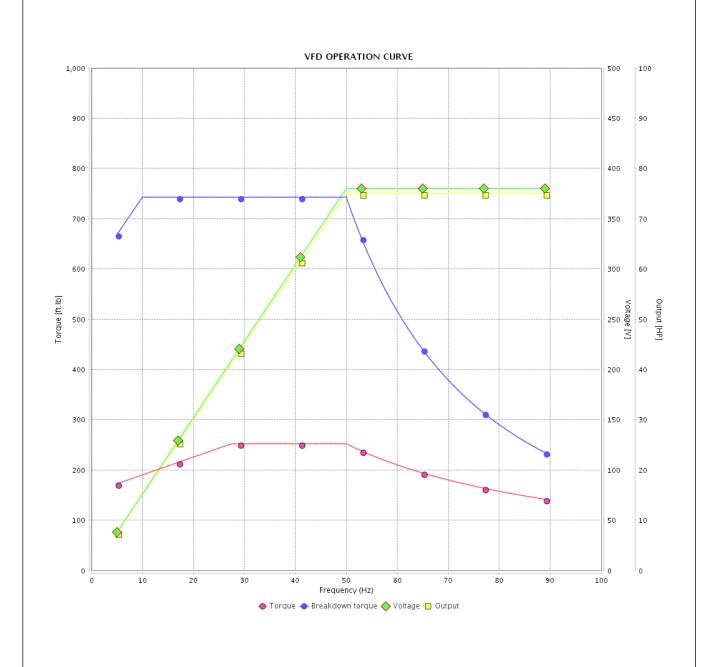
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

roduct code: 12006668

Catalog #: 10018ET3E405TC-W22



Performance	: 3	: 380 V 50 Hz 4P IE3				
Rated current : 102		02 A	Moment o	Moment of inertia (J)		
LRC : 7.7		.7	Duty cycle	Duty cycle		
Rated torque : 20		65 ft.lb	Insulation class		: F	
Locked rotor torque : 2		60 %	Service fa	Service factor		
Breakdown torque	: 2	80 %	Temperati	Temperature rise		
Rated speed	: 1	485 rpm Design		: B		
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by		_			Page	Revision
-		_			_	1.00101011
Date	14/04/2022				31 / 36	

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Date

14/04/2022

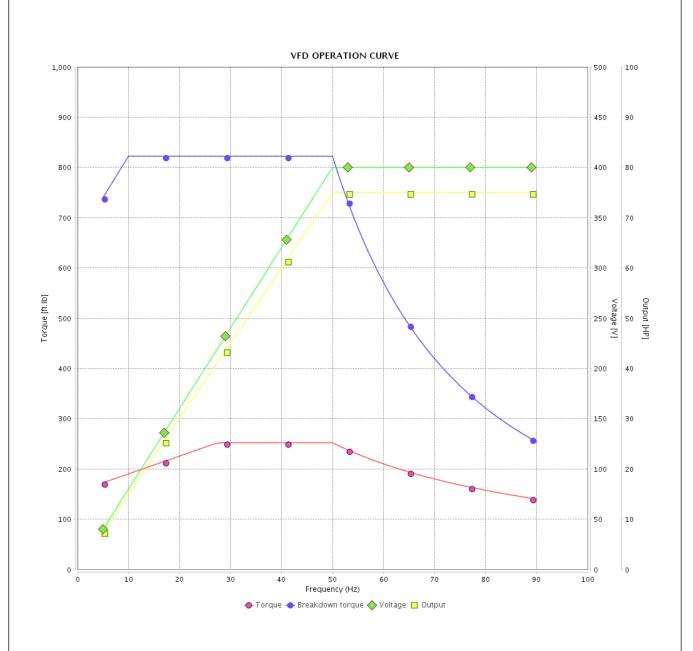
Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 12006668

Catalog #: 10018ET3E405TC-W22

32 / 36



Performance : 400 V 50 Hz 4P IE3 Rated current : 98.3 A Moment of inertia (J) : 29.9 sq.ft.lb **LRC** : 8.4 Duty cycle : Cont.(S1) Insulation class Rated torque : 265 ft.lb : F Locked rotor torque : 280 % Service factor : 1.00 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1485 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

#### Three Phase Induction Motor - Squirrel Cage

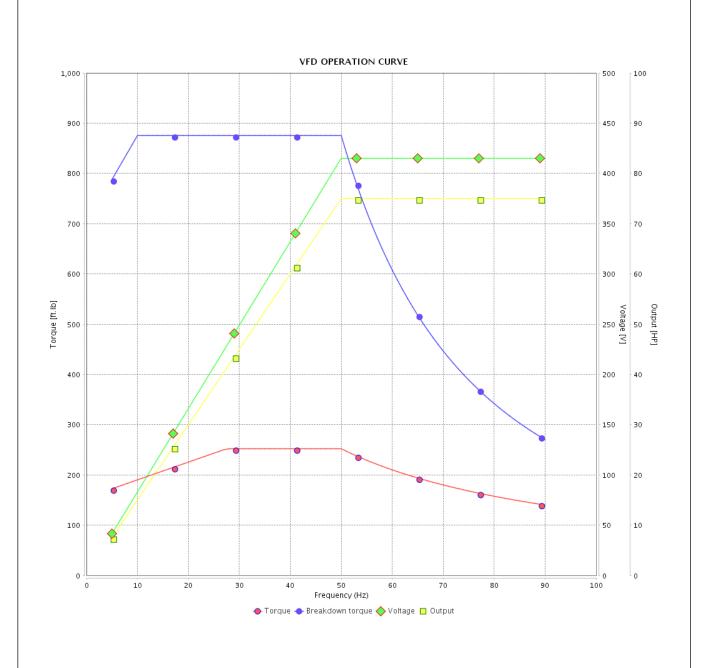


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12006668

Phase

Catalog #: 10018ET3E405TC-W22



Performance : 4		: 415 V 50 Hz 4P IE3						
Rated current		5.9 A Moment of inertia (J)		f inertia (J)	: 29.9 sq.ft.lb			
LRC :		.9	Duty cycle	Duty cycle				
Rated torque		65 ft.lb	Insulation class		: F			
Locked rotor torque		90 %	Service factor		: 1.00			
Breakdown torque	e : 3	30 %	Temperature rise		: 80 K			
Rated speed	: 1	1485 rpm Design		: B				
Rev.		Changes Summary		Performed	Checked	Date		
Performed by								
Checked by		-			Page	Revision		
Date	14/04/2022				33 / 36			

#### Three Phase Induction Motor - Squirrel Cage



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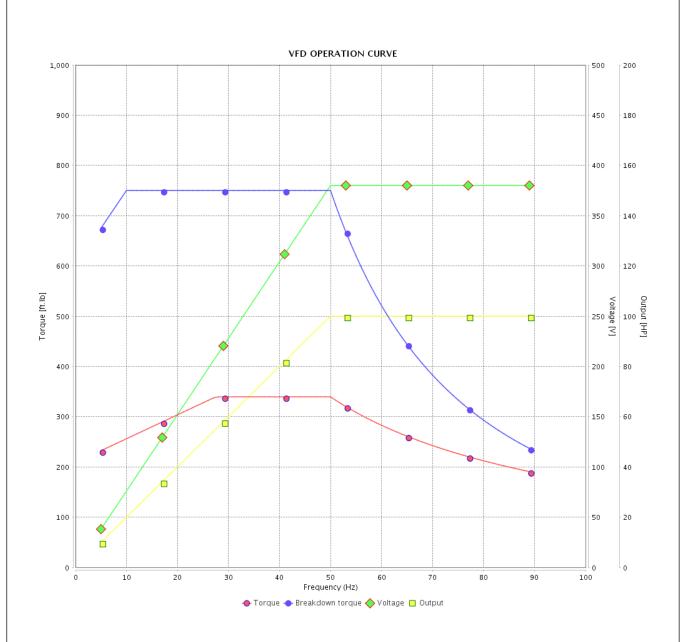
Product line : NEMA Premium Efficiency Three- Product of

Phase

Product code: 12006668

Catalog #: 10018ET3E405TC-W22

34 / 36



Performance	: 380 V 50 Hz 4P IE1						
Rated current	: 138 A	Moment of inertia (J)		: 29.9 sq.ft.lb			
LRC	: 5.9	Duty cycle		: Cont.(S1)			
Rated torque	: 357 ft.lb	Insulation class		: F			
Locked rotor torque	: 190 %	Service factor		: 1.00			
Breakdown torque	: 210 %	Temperature rise		: 105 K			
Rated speed	: 1470 rpm	Design		: B			
Rev.	Changes Summary		Performed	Checked	Date		
Performed by							
Checked by				Page	Revision		

14/04/2022

Date

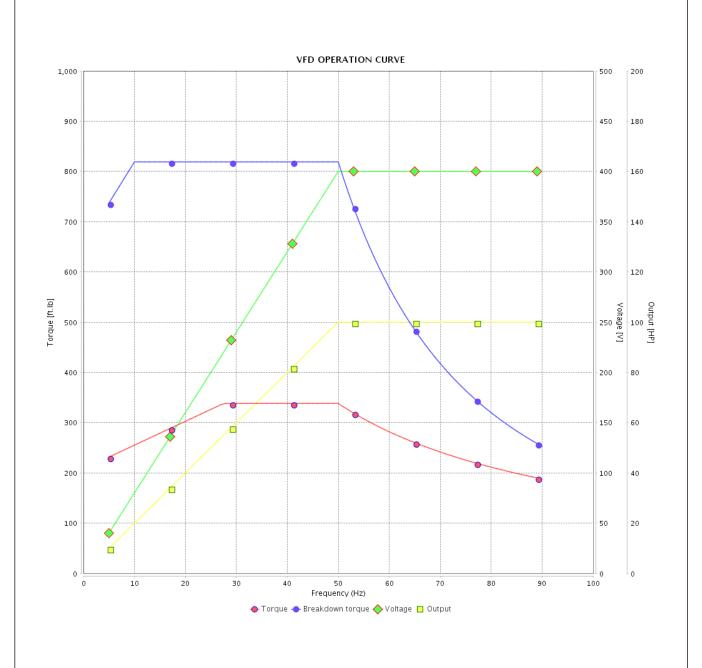
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12006668

Catalog #: 10018ET3E405TC-W22



Performance	: 400 V 50 Hz 4P IE2					
Rated current : 1		31 A	Moment o	Moment of inertia (J)		
LRC : 6 Rated torque : 3		5.5 Duty cycle 356 ft.lb Insulation		•	: Cont.(S1)	
				class	: F	
Locked rotor torque		10 %	Service fa	Service factor		
Breakdown torque	e : 22	: 229 % : 1475 rpm		Temperature rise		
Rated speed	: 14				: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022	1			35 / 36	

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

14/04/2022

Product line : NEMA Premium Efficiency Three- Produc

Phase

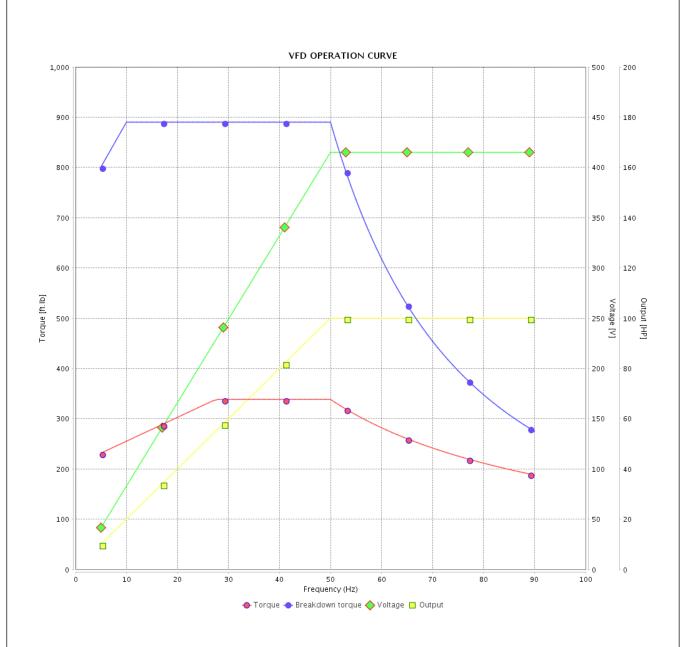
Product code: 12006668

Catalog #: 10018ET3E405TC-W22

Page

36 / 36

Revision



Performance	: 4	15 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7 : 3 jue : 2 ie : 2	27 A .1 56 ft.lb 20 % 50 % 475 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 29.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Rev.	Changes Summary			Performed	Checked	Date
Performed by						

