### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11441768

Catalog #: 01036ET3E215T-W22

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

Insulation class Mounting : F-1

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

Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 176 lb

Protection degree : IP55 Moment of inertia (J)

: 0.6362 sa.ft.lb

Design	5	. IPээ : В		Momen	it of inertia (J)	. 0	.0302 Sq.11.10	
Output [HP]		10	7.5	7.5	7.5	10	10	10
Poles		2	2	2	2	2	2	2
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		23.2/11.6	10.4	10.1	9.91	14.1	13.4	13.1
L. R. Amperes [A]		167/83.5	77.0	84.8	90.2	79.0	85.8	90.4
LRC [A]		7.2x(Code H)	7.4x(Code H)	8.4x(Code J)	9.1x(Code K)	5.6x(Code F)	6.4x(Code	6.9x(Code H)
							G)	
No load current [A]		6.80/3.40	3.40	3.70	3.90	3.40	3.70	3.90
Rated speed [RPM	1]	3510	2925	2935	2940	2870	2890	2900
Slip [%]		2.50	2.50	2.17	2.00	4.33	3.67	3.33
Rated torque [ft.lb]		15.0	13.5	13.4	13.4	18.3	18.2	18.1
Locked rotor torqu		220	240	270	290	170	200	220
Breakdown torque	[%]	290	300	340	360	220	250	270
Service factor		1.25	1.25	1.25	1.25	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		43s (cold)	32s (cold)	32s (cold)	50s (cold)	32s (cold)	32s (cold)	32s (cold)
		24s (hot)	18s (hot)	18s (hot)	28s (hot)	18s (hot)	18s (hot)	18s (hot)
Noise level <sup>2</sup>		68.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)
	25%							
Efficiency (%)	50%	89.5	88.6	88.4	87.7	89.5	89.5	89.5
Efficiency (70)	75%	90.2	89.6	89.6	89.5	89.5	89.5	89.5
	100%	90.2	89.5	89.5	89.8	88.5	88.5	88.5
	25%							
Dower Footer	50%	0.79	0.75	0.72	0.70	0.83	0.81	0.79
Power Factor	75%	0.87	0.86	0.83	0.82	0.90	0.88	0.87
	100%	0.90	0.90	0.88	0.86	0.91	0.91	0.90

Drive end Non drive end Foundation loads

Bearing type 6308 ZZ 6207 ZZ Max. traction : 188 lb Sealing V'Ring V'Ring : 364 lb Max. compression

Lubricant amount Lubricant type Mobil Polyrex EM

Notes

Lubrication interval

USABLE @208V 25.7A SF 1.15 SFA 29.5A

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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#### Three Phase Induction Motor - Squirrel Cage



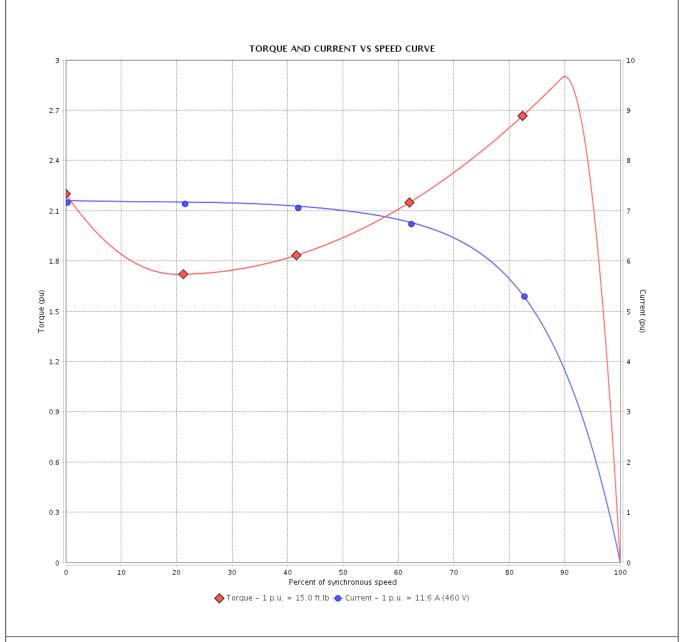
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11441768

Catalog #: 01036ET3E215T-W22



Performance : 230/460 V 60 Hz 2P Rated current : 23.2/11.6 A Moment of inertia (J) : 0.6362 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 15.0 ft.lb Service factor Locked rotor torque : 220 % : 1.25

Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 3510 rpm Design : B

Locked rotor time : 43s (cold) 24s (hot)

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#### Three Phase Induction Motor - Squirrel Cage

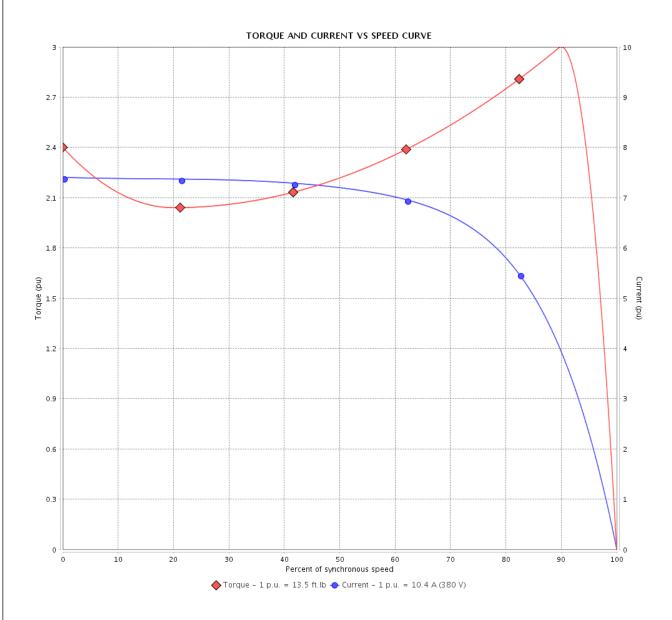


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11441768

Phase

Catalog #: 01036ET3E215T-W22



Performance	: 380 V 50 Hz 2P IE3		
Rated current	: 10.4 A	Moment of inertia (J)	: 0.6362 sq.ft.lb
LRC	: 7.4	Duty cycle	: Cont.(S1)
Rated torque	: 13.5 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 2925 rpm	Design	: B

Locked rotor time : 32s (cold) 18s (hot)

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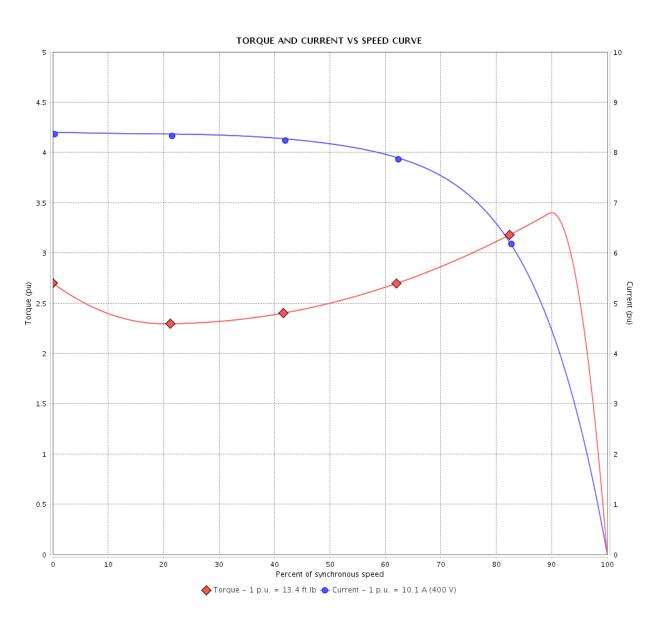
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11441768

Catalog #: 01036ET3E215T-W22



Performance : 400 V 50 Hz 2P IE3 Rated current : 10.1 A Moment of inertia (J) : 0.6362 sq.ft.lb **LRC** : 8.4 Duty cycle : Cont.(S1) : F : 13.4 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 270 % : 1.25 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 2935 rpm Design : B

Locked rotor time : 32s (cold) 18s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11441768 Catalog #: 01036ET3E215T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 13.4 ft.lb ◆ Current - 1 p.u. = 9.91 A (415 V) Performance : 415 V 50 Hz 2P IE3 Rated current : 9.91 A Moment of inertia (J) : 0.6362 sq.ft.lb **LRC** : 9.1 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 13.4 ft.lb : 290 % Locked rotor torque Service factor : 1.25 Breakdown torque : 360 % Temperature rise : 80 K Rated speed : 2940 rpm Design : B Locked rotor time : 50s (cold) 28s (hot) Date Rev. Performed Checked **Changes Summary** Performed by

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#### Three Phase Induction Motor - Squirrel Cage



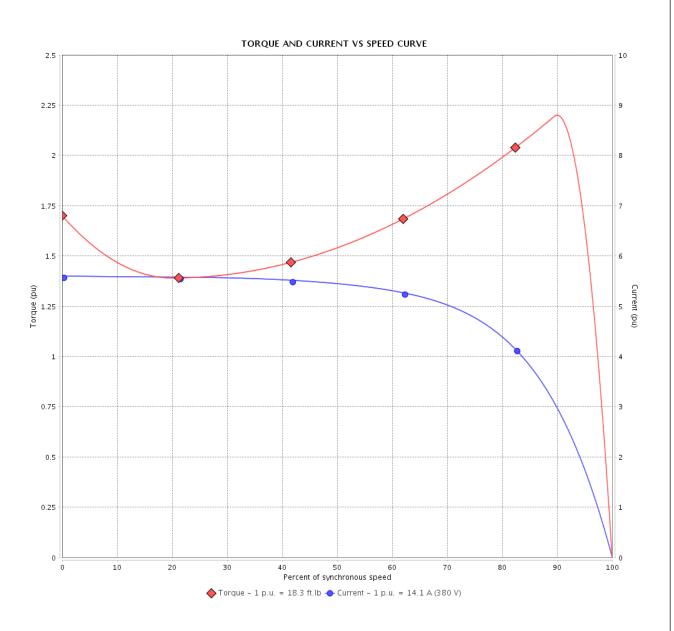
Customer :

Product line : NEMA Premium Efficiency Three- Prod

Phase

Product code: 11441768

Catalog #: 01036ET3E215T-W22



Performance : 380 V 50 Hz 2P IE2 Rated current : 14.1 A Moment of inertia (J) : 0.6362 sq.ft.lb **LRC** : 5.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 18.3 ft.lb : F Service factor Locked rotor torque : 170 % : 1.00 Breakdown torque : 220 % Temperature rise : 105 K Rated speed : 2870 rpm Design : B

Locked rotor time : 32s (cold) 18s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11441768 Catalog #: 01036ET3E215T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3 40 50 60 Percent of synchronous speed ♦ Torque – 1 p.u. = 18.2 ft.lb ♦ Current – 1 p.u. = 13.4 A (400 V) Performance : 400 V 50 Hz 2P IE2 Rated current : 13.4 A Moment of inertia (J) : 0.6362 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1)

Rated torque Locked rotor torq Breakdown torqu Rated speed	ue : 20 e : 25 : 28	3.2 ft.lb 90 % 60 % 990 rpm	Service factor Temperature rise		: F : 1.00 : 105 K : B	
Locked rotor time	: 32	28 (COIO) 188 (NO	τ)			
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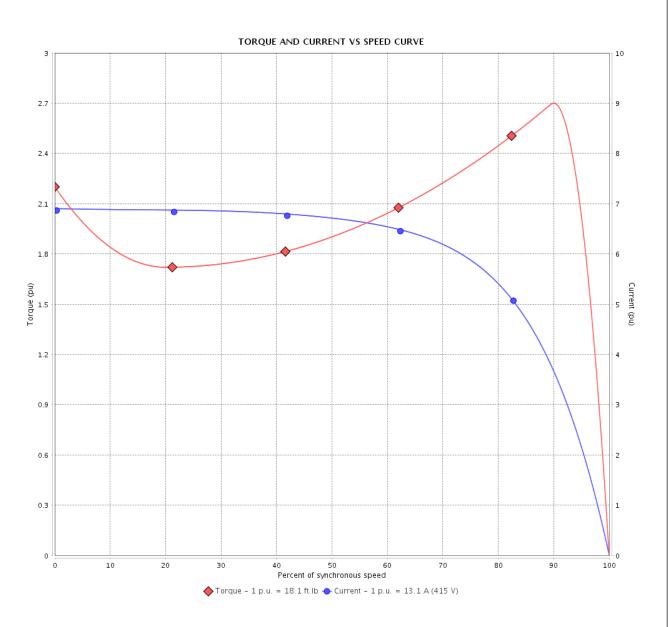


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11441768

Phase

Catalog #: 01036ET3E215T-W22



Performance : 415 V 50 Hz 2P IE2 Rated current : 13.1 A Moment of inertia (J) : 0.6362 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 18.1 ft.lb : F Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 270 % Temperature rise : 105 K Rated speed : 2900 rpm Design : B

Locked rotor time : 32s (cold) 18s (hot)

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#### Three Phase Induction Motor - Squirrel Cage



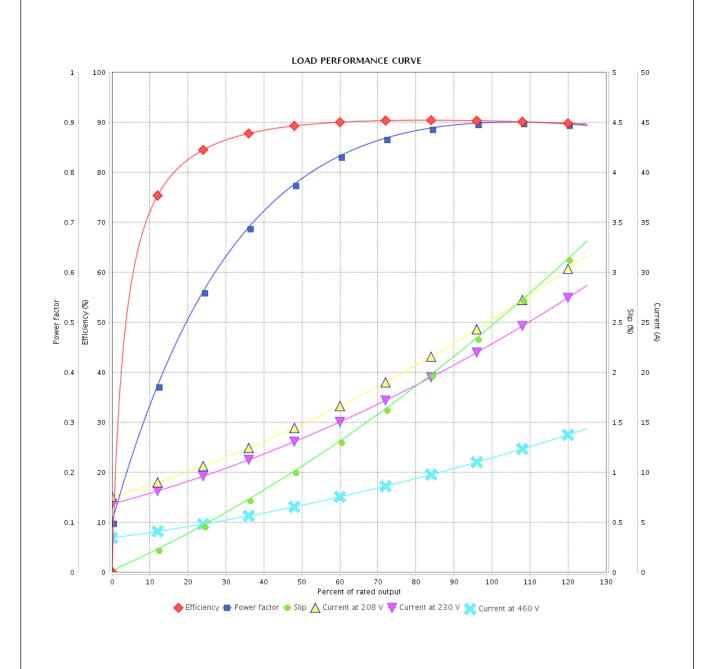
Customer

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11441768

Catalog #: 01036ET3E215T-W22



Performance	:	230/460 V 60 Hz 2P				
Rated current	:	23.2/11.6 A	Moment o	f inertia (J)	: 0.6362 sq.ft.	lb
LRC	:	7.2	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	:	15.0 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	220 %	Service fa	ctor	: 1.25	
Breakdown torque	:	290 %	Temperature rise		: 80 K	
Rated speed	:	3510 rpm	Design		: B	
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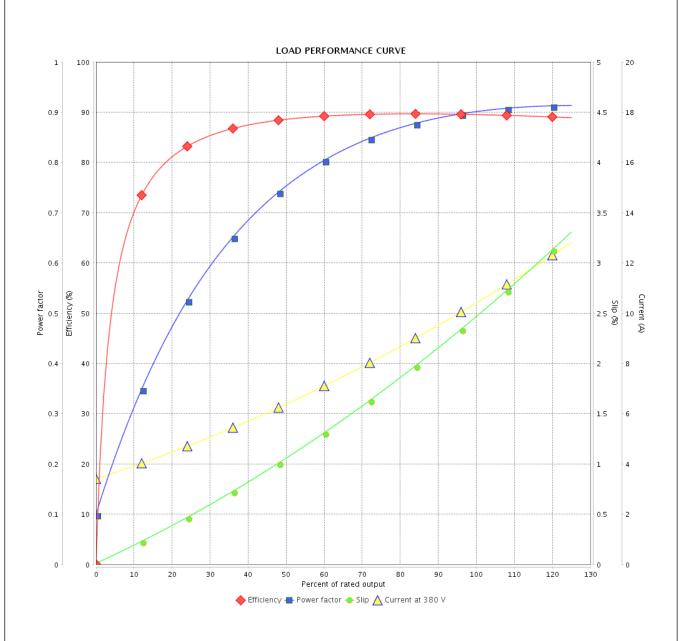
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Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11441768

Catalog #: 01036ET3E215T-W22



Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 10.4 A : 7.4 : 13.5 ft.lb : 240 % : 300 % : 2925 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.6362 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
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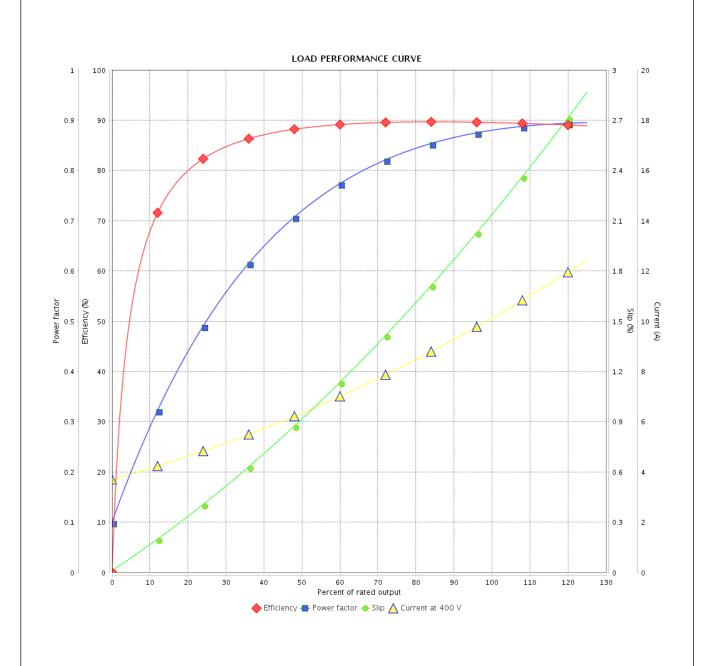
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Performance	: 400 V 50 Hz 2P IE3				
		Moment of inertia (J) Duty cycle		: 0.6362 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque	: 13.4 ft.lb : 270 %	13.4 ft.lb Insulation class 270 % Service factor 340 % Temperature rise		: F : 1.25	
Breakdown torque Rated speed	: 340 % : 2935 rpm			: 80 K : B	
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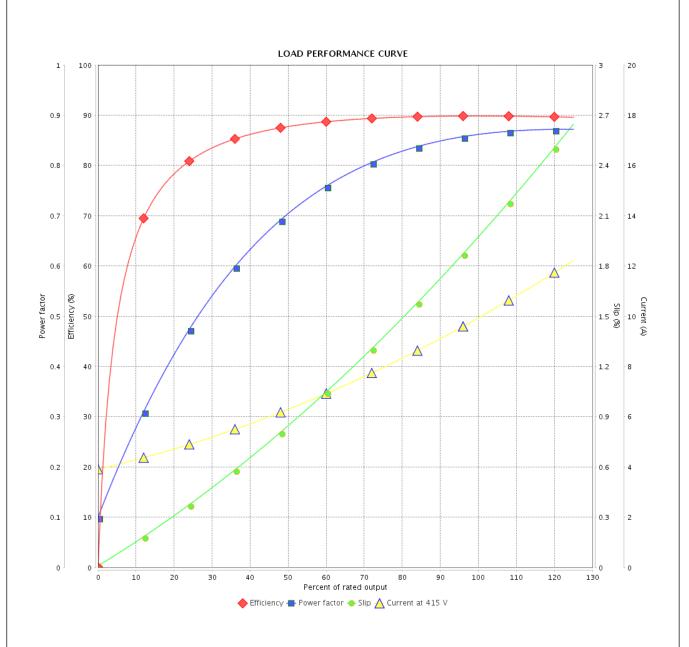
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11441768

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		·-			
Performance	Performance : 415 V 50 Hz 2P IE3				
Rated current : 9.91 A Moment of including the LRC : 9.1 Duty cycle		Duty cycle : Cont.(\$		: 0.6362 sq.ft. : Cont.(S1)	lb
Rated torque Locked rotor torque	: 13.4 ft.lb : 290 %	: 290 % Service factor		: F : 1.25	
Breakdown torque Rated speed	: 360 % : 2940 rpm	Temperature rise Design		: 80 K : B	
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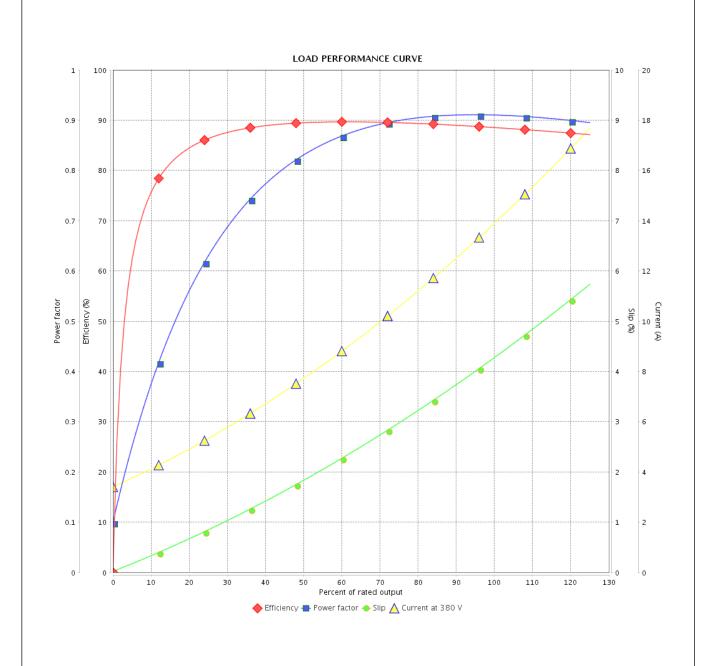
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11441768

Catalog #: 01036ET3E215T-W22



Performance	Performance : 380 V 50 Hz 2P IE2					
Rated current	: ′	14.1 A	Moment o	f inertia (J)	: 0.6362 sq.ft.	.lb
LRC	: 5	5.6	Duty cycle	)	: Cont.(S1)	
Rated torque		18.3 ft.lb	Insulation	class	: F	
Locked rotor torque		170 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	220 %	Temperati	Temperature rise		
Rated speed	: 2	2870 rpm Design			: B	
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Product line : NEMA Premium Efficiency Three- Product

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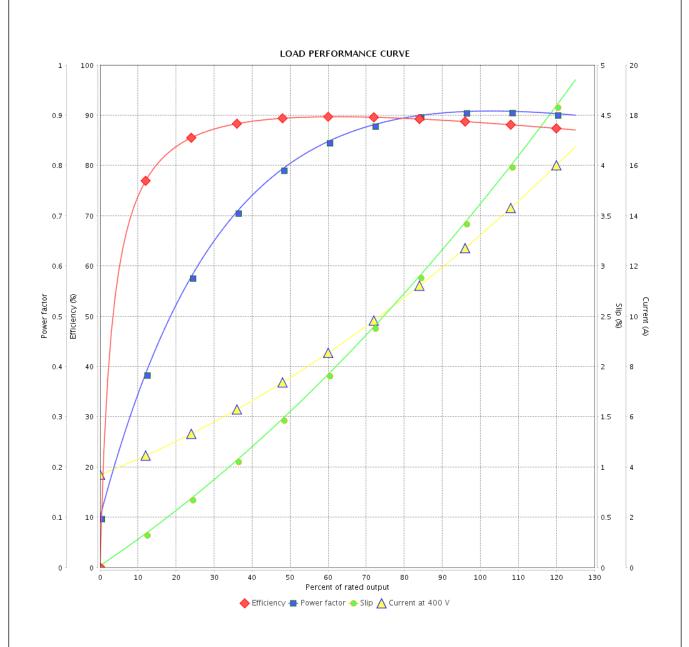
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Performance : 400 V 50 Hz 2P IE2 : 13.4 A Rated current Moment of inertia (J) : 0.6362 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 18.2 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 105 K Rated speed : 2890 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

#### Three Phase Induction Motor - Squirrel Cage



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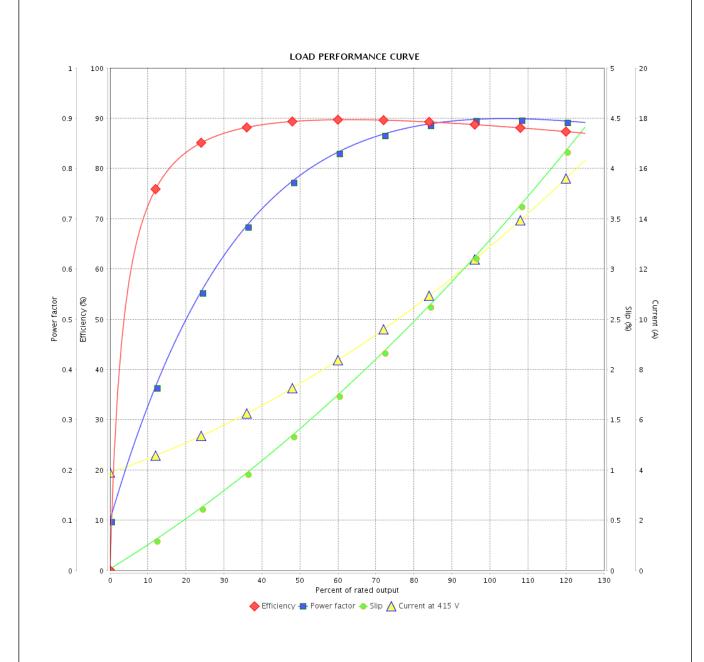
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance : 415 V 50 Hz 2P IE2					
Rated current LRC Rated torque Locked rotor torque	: 13.1 A : 6.9 : 18.1 ft.lb : 220 %	Moment of inertia (J) Duty cycle Insulation class Service factor		: 0.6362 sq.ft. : Cont.(S1) : F : 1.00	lb
Breakdown torque Rated speed	: 270 % : 2900 rpm	Temperature rise Design		: 105 K : B	
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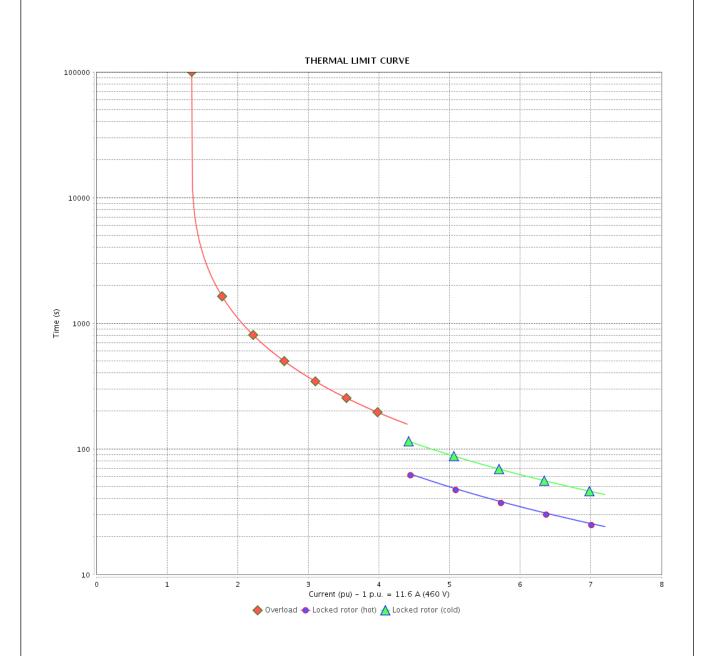


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	11441768	
	P	hase		Catalog # :	01036ET3E2	15T-W22
Performance		30/460 V 60 Hz 2P				
Rated current LRC	: 23 : 7.	3.2/11.6 A .2	Moment o Duty cycle	f inertia (J)	: 0.6362 sq.ft.l : Cont.(S1)	b
Rated torque	: 19	5.0 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		20 % 90 %	Service fa Temperatu		: 1.25 : 80 K	
Rated speed		510 rpm	Design		: B	
Heating constant						
Cooling constant		Change O		Dorf !	Chl !	D-t-
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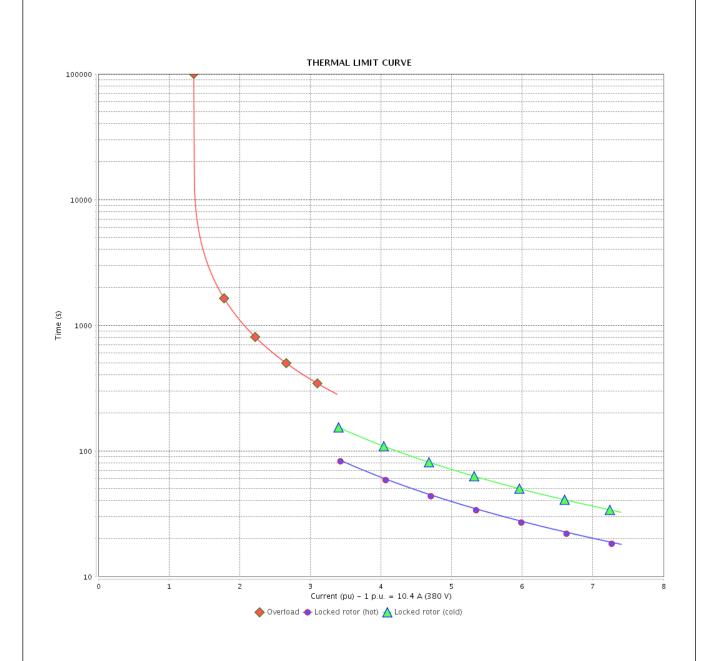


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Product line	: NEMA Premium Efficiency <sup>-</sup> Phase		roduct code :	11441768	
		C	atalog # :	01036ET3E2	215T-W22
Performance	: 380 V 50 Hz 2P IE3	1			
LRC Rated torque Locked rotor torque Breakdown torque	: 10.4 A : 7.4 : 13.5 ft.lb : 240 % : 300 % : 2925 rpm	Moment of Duty cycle Insulation of Service fac Temperatur Design	lass tor	: 0.6362 sq.ft.l : Cont.(S1) : F : 1.25 : 80 K : B	b
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Heating constant					
Cooling constant	Changas Summani		Dorformad	Chackad	Doto
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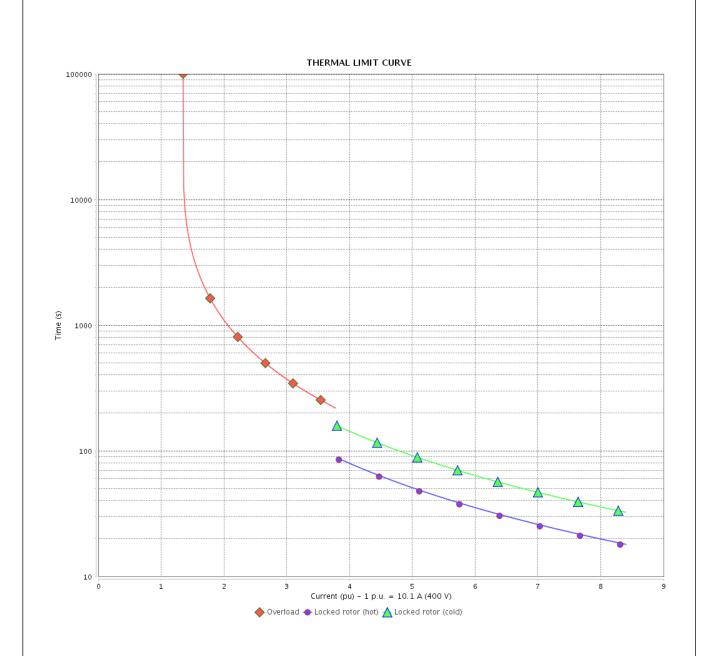


Customer	:					
Product line	: 1	NEMA Premium Efficiency	Three- I	Product code :	11441768	
	Pl	hase	(	Catalog # :	01036ET3E2	215T-W22
Performance	· 40	00 V 50 Hz 2P IE3				
Rated current		0.1 A	Moment of	f inertia (J)	: 0.6362 sq.ft.l	b
LRC	: 8.	4	Duty cycle	!	: Cont.(S1)	-
Rated torque Locked rotor tord		3.4 ft.lb 70 %	Insulation Service fa		: F : 1.25	
Breakdown torqu	ue : 34	40 %	Temperatu		: 80 K	
Rated speed	: 29	935 rpm	Design		: B	
Heating constan						
Cooling constant			Т	· · ·	0,	
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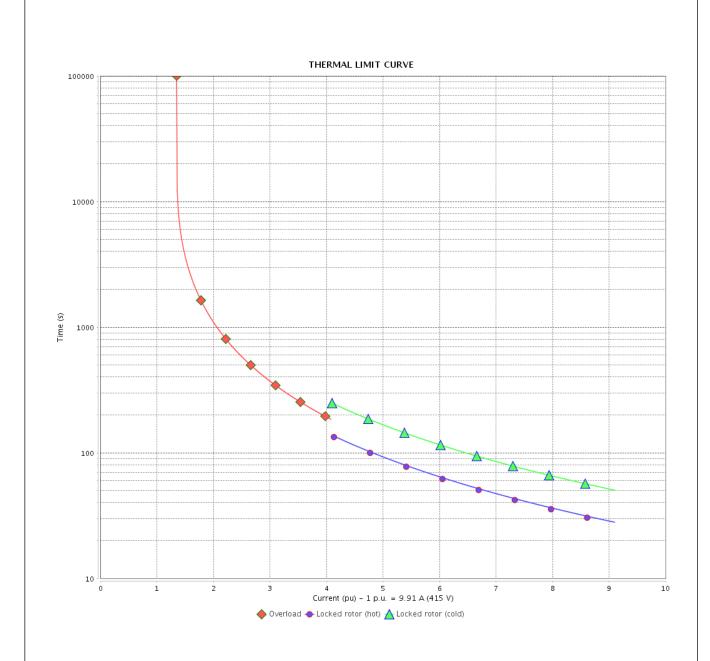


Customer	:				
Product line	: NEMA Phase	Premium Efficiency Th			
			Catalog # :	01036ET3E	215T-W22
Performance	: 415 V 5	0 Hz 2P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 9.91 A : 9.1 : 13.4 ft.II : 290 % : 360 % : 2940 rp	[   II   S   T	Moment of inertia (J) Outy cycle Insulation class Service factor Temperature rise Design	: 0.6362 sq.f : Cont.(S1) : F : 1.25 : 80 K : B	t.lb
Heating constant Cooling constant					
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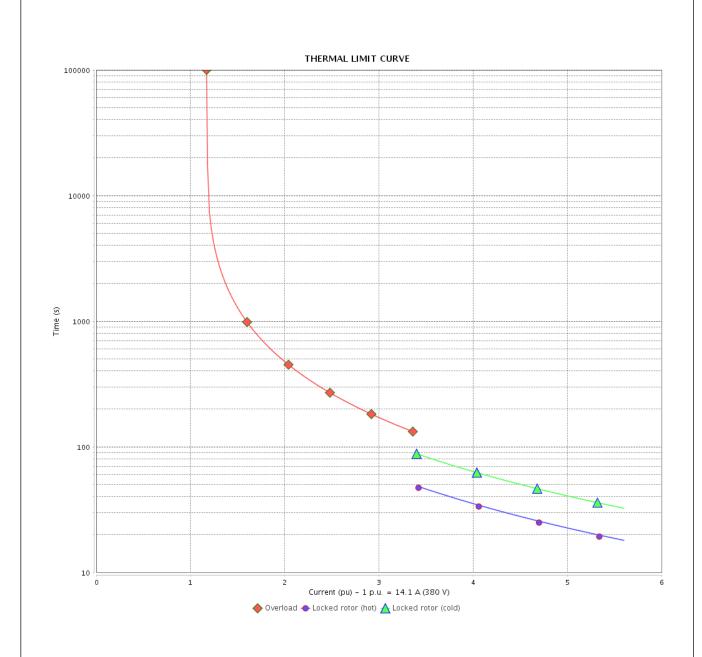


Customer	:				
Product line	: NEMA Premium Efficiend Phase	y Three-	Product code :	11441768	
	T Hade		Catalog # :	01036ET3E2	15T-W22
Performance	: 380 V 50 Hz 2P IE2				
Rated current	: 14.1 A		of inertia (J)	: 0.6362 sq.ft.l	b
LRC Rated torque	: 5.6 : 18.3 ft.lb	Duty cycl Insulation		: Cont.(S1) : F	
Locked rotor torqu	ue : 170 %	Service fa	actor	: 1.00	
Breakdown torque	e : 220 %	Temperat	ture rise	: 105 K : B	
Rated speed	: 2870 rpm	Design		. D	
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage

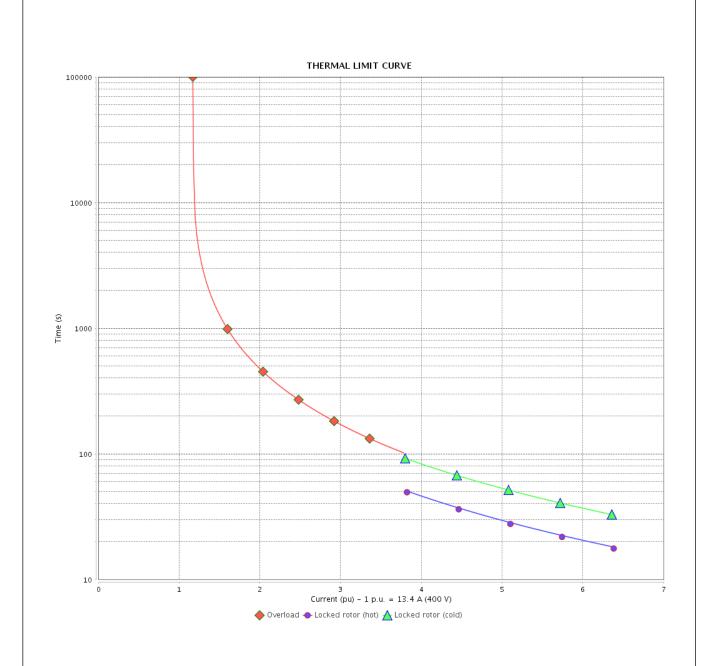


Customer		:				
Product line		: NEMA Premium Efficiency <sup>1</sup> Phase		Product code : Catalog # :	11441768 01036ET3E2	15T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: : : :ue :ie :	400 V 50 Hz 2P IE2 13.4 A 6.4 18.2 ft.lb 200 % 250 % 2890 rpm	Moment or Duty cycle Insulation Service far Temperatu Design	class ctor	: 0.6362 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	)
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



Customer :



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### Three Phase Induction Motor - Squirrel Cage

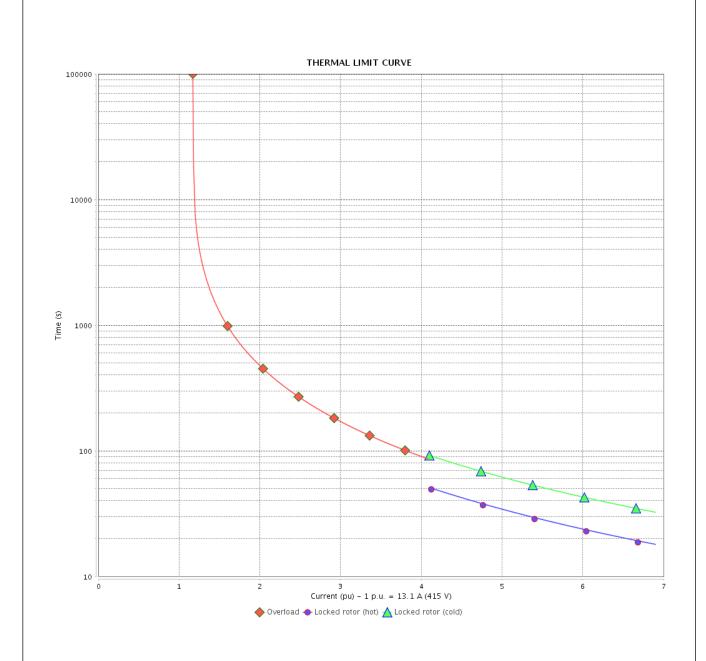


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11441768 01036ET3E2	15T-W22
					0100021022	101 112
Performance		: 415 V 50 Hz 2P IE2				
Rated current		: 13.1 A	Moment o	of inertia (J)	: 0.6362 sq.ft.ll	b
LRC Rated torque		: 6.9 : 18.1 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor tord		: 220 %	Service fa		: 1.00	
Breakdown torqu Rated speed		: 270 % : 2900 rpm	Temperat Design	ure rise	: 105 K : B	
Heating constan	t					
Cooling constant	t					
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### Three Phase Induction Motor - Squirrel Cage



Customer



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#### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

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12/04/2022

Product line : NEMA Premium Efficiency Three- Product code : 11441768

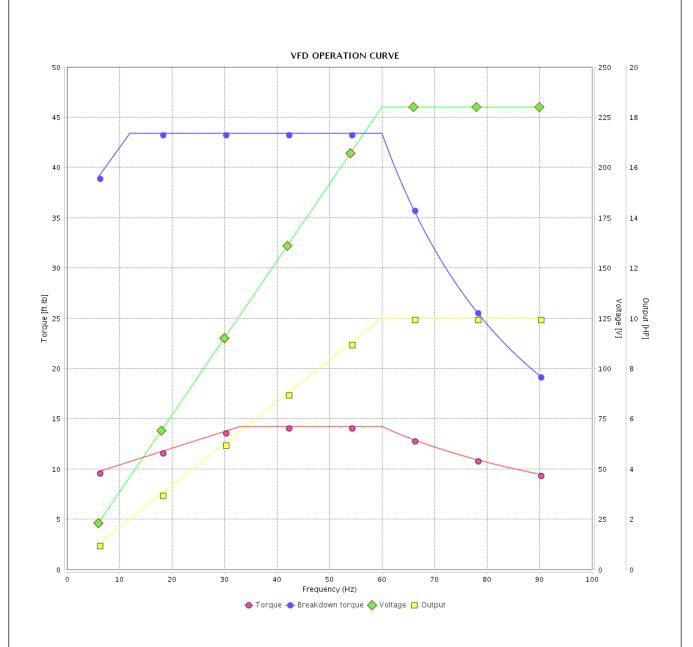
Phase

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Performance	: 230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 23.2/11.6 A : 7.2 : 15.0 ft.lb : 220 % : 290 % : 3510 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.6362 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three- Product

Phase

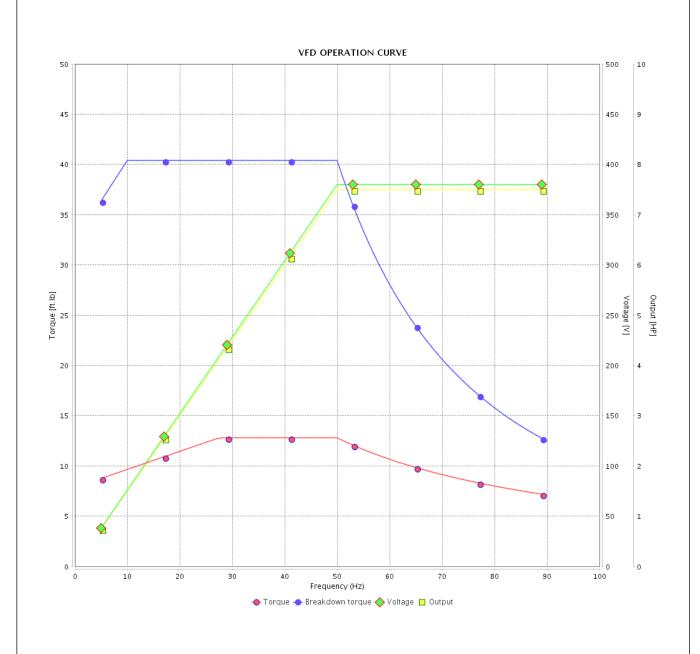
Product code: 11441768

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Performance		: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque		: 10.4 A : 7.4 : 13.5 ft.lb : 240 % : 300 %	Duty cycle Insulation Service fa Temperat	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		lb
Rated speed : 29		: 2925 rpm	Design		: B	
Rev.		Changes Summa	ry	Performed	Checked	Date
Performed by						

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Date

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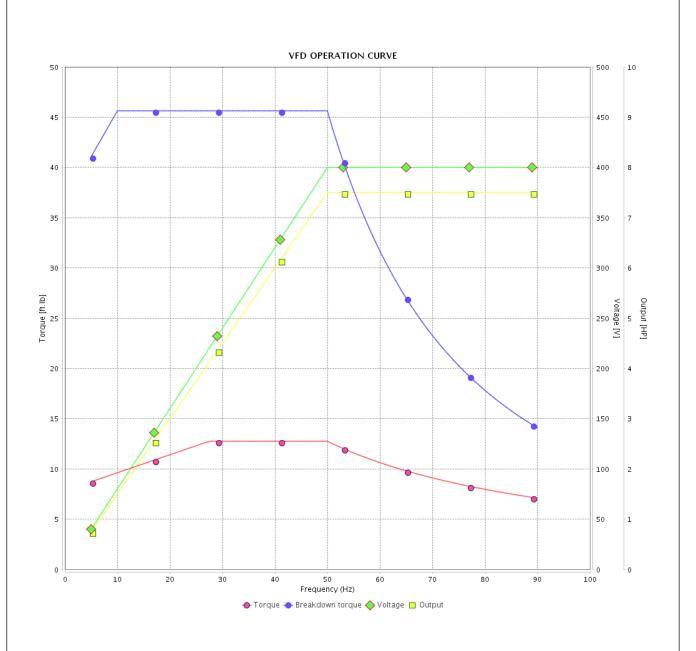
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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11441768

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Performance : 400 V 50 Hz 2P IE3 : 10.1 A Rated current Moment of inertia (J) : 0.6362 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 8.4 : 13.4 ft.lb Insulation class : F Rated torque Locked rotor torque : 270 % Service factor : 1.25 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 2935 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

#### Three Phase Induction Motor - Squirrel Cage



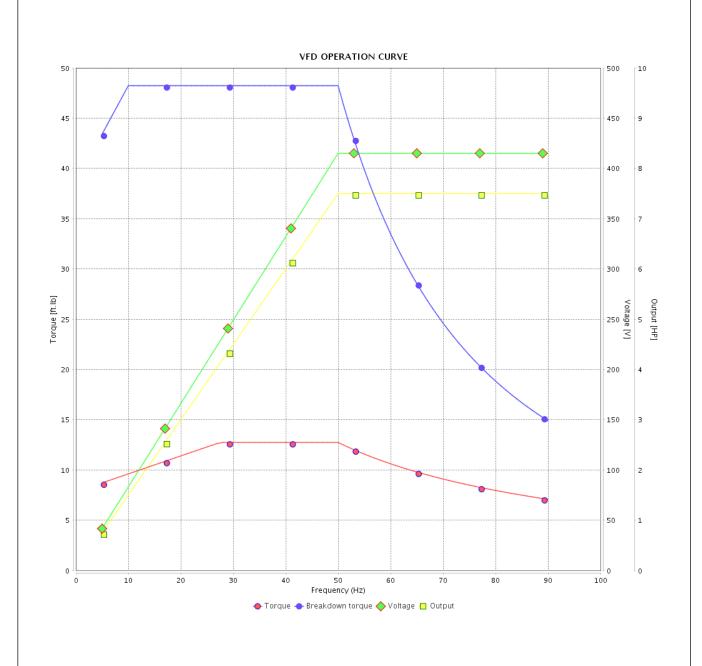
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 01036ET3E215T-W22

11441768



Performance	:	415 V 50 Hz 2P IE3				
Rated current : 9.91 A		9.91 A	Moment of inertia (J)		: 0.6362 sq.ft.lb	
LRC	:	9.1	Duty cycle	)	: Cont.(S1)	
Rated torque	:	13.4 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	290 %	Service factor		: 1.25	
Breakdown torque	:	360 %	Temperature rise		: 80 K	
Rated speed	:	2940 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three-

Phase

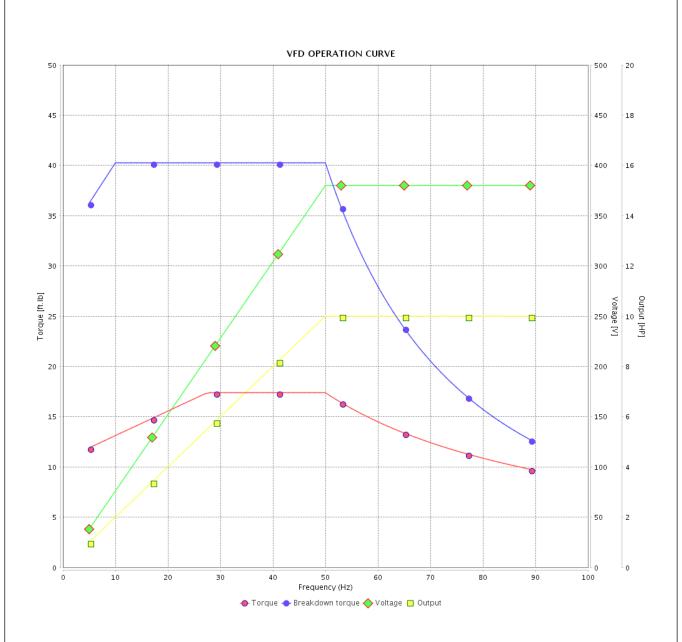
Product code: 11441768

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Performance : 380 V 50 Hz 2P IE2 : 14.1 A Rated current Moment of inertia (J) : 0.6362 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.6 : 18.3 ft.lb Insulation class Rated torque : F Locked rotor torque : 170 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 105 K Rated speed : 2870 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

#### Three Phase Induction Motor - Squirrel Cage

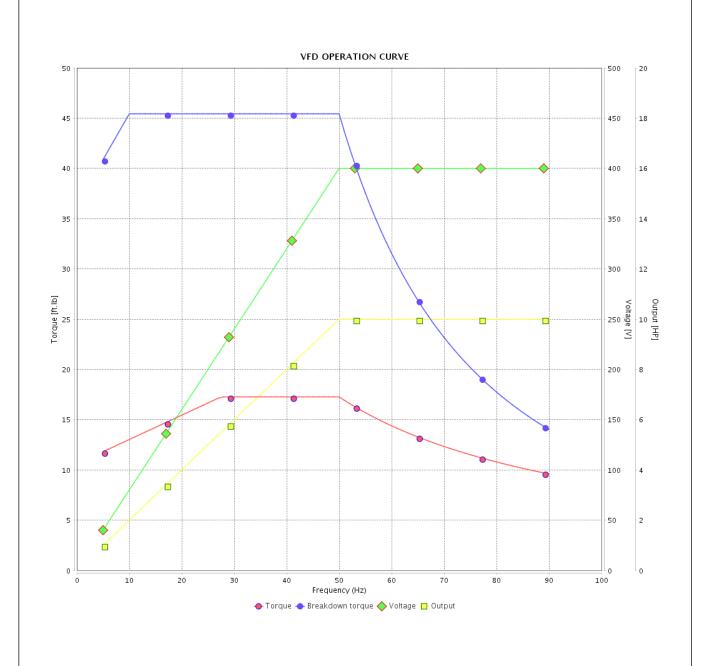


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11441768

Phase

Catalog #: 01036ET3E215T-W22



Performance		: 400 V 50 Hz 2P IE2				
Rated current		: 13.4 A	Moment o	Moment of inertia (J)		lb
LRC		: 6.4	Duty cycle	<b>)</b>	: Cont.(S1)	
Rated torque		: 18.2 ft.lb	Insulation	class	: F	
Locked rotor torque	)	: 200 %	Service factor		: 1.00	
Breakdown torque	kdown torque : 250 % Temperature rise		ıre rise	: 105 K		
Rated speed		: 2890 rpm	Design		: B	
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Product line : NEMA Premium Efficiency Three-

Phase

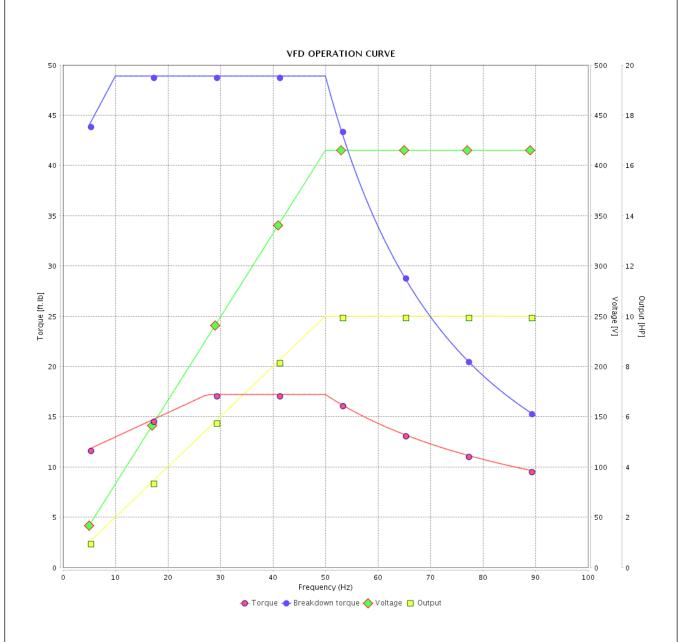
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Performance	: 415 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 13.1 A : 6.9 : 18.1 ft.lb : 220 % : 270 % : 2900 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.6362 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					

