### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12709736

Phase

Catalog #: 01036ST3QIE215TC-W22

Frame : 213/5TC 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	Approx. weight <sup>3</sup> : 1			176 lb	
Protection degre	е	: IP55		Momer	Moment of inertia (J) : 0		0.6362 sq.ft.lb		
Design		: B							
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]		460	380	400	415	380	400	415	
Rated current [A]		11.6	10.4	10.1	9.91	14.1	13.4	13.1	
L. R. Amperes [A]		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	]	3.40	3.40	3.70	3.90	3.40	3.70	3.90	
Rated speed [RPN	<b>/</b> []	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	e [%]	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)	32s (cold)	32s (cold)	32s (cold)	32s (cold)	
		24s (hot)	18s (hot)	18s (hot)	18s (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%	89.3	88.4	88.2	87.2	90.1	90.1	90.2	
Efficiency (9/)	50%	89.5	88.6	88.4	87.7	89.5	89.5	89.5	
Efficiency (%)	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%	0.54	0.51	0.47	0.45	0.60	0.56	0.54	
Power Factor	50%	0.79	0.75	0.72	0.70	0.83	0.81	0.79	
rower ractor	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	

<u>Drive end</u> <u>Non drive end</u> Foundation loads earing type : 6308 C3 6207 C3 Max traction

Bearing type : 6308 C3 6207 C3 Max. traction : 187 lb Sealing : Inpro/Seal Inpro/Seal Lubrication interval : 20000 h 20000 h

Lubricant amount : 11 g 7 g Lubricant 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.

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#### Three Phase Induction Motor - Squirrel Cage



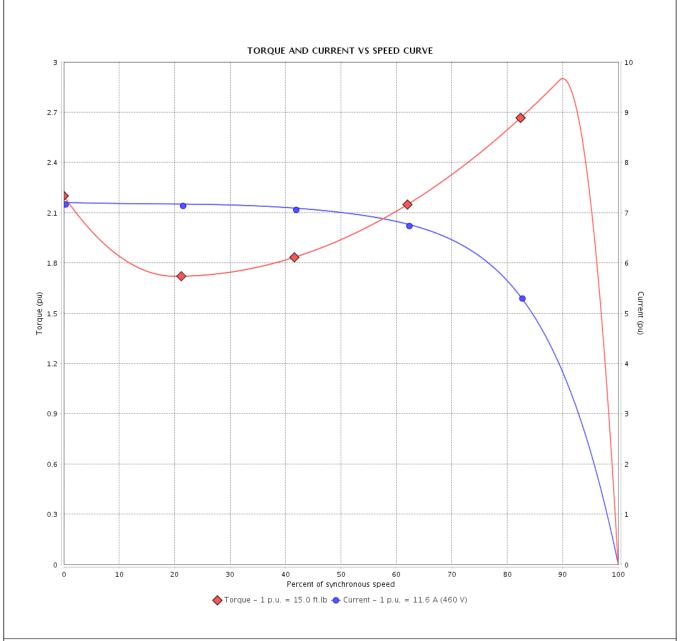
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12709736

Catalog #: 01036ST3QIE215TC-W22



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

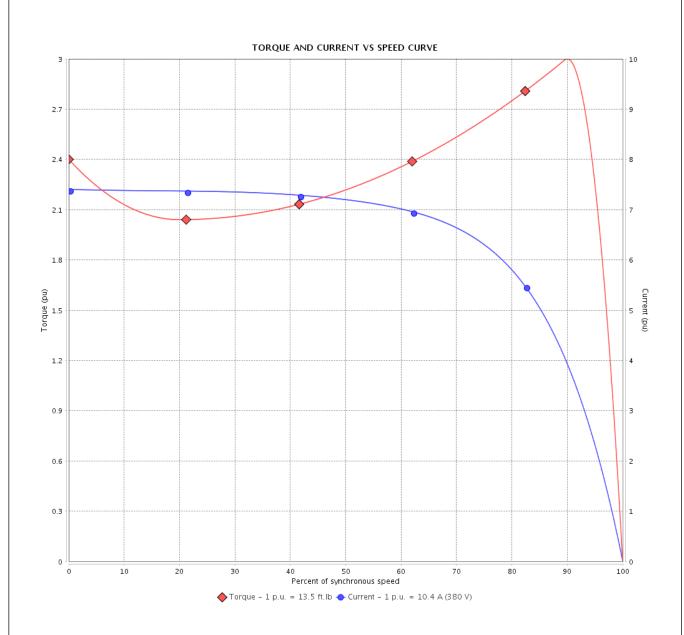


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12709736

Phase

Catalog #: 01036ST3QIE215TC-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)	I	

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

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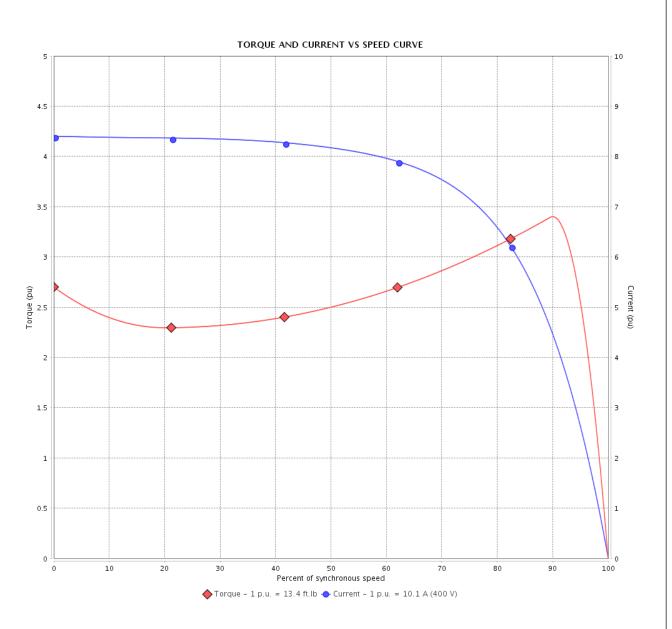
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12709736

Catalog #: 01036ST3QIE215TC-W22



Performance	: 400 V 50 Hz 2P IE3			
Rated current	: 10.1 A	Moment of inertia (J)	: 0.6362 sq.ft.lb	
LRC Rated torque	: 8.4 : 13.4 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F	
Locked rotor torque	: 270 %	Service factor	. г : 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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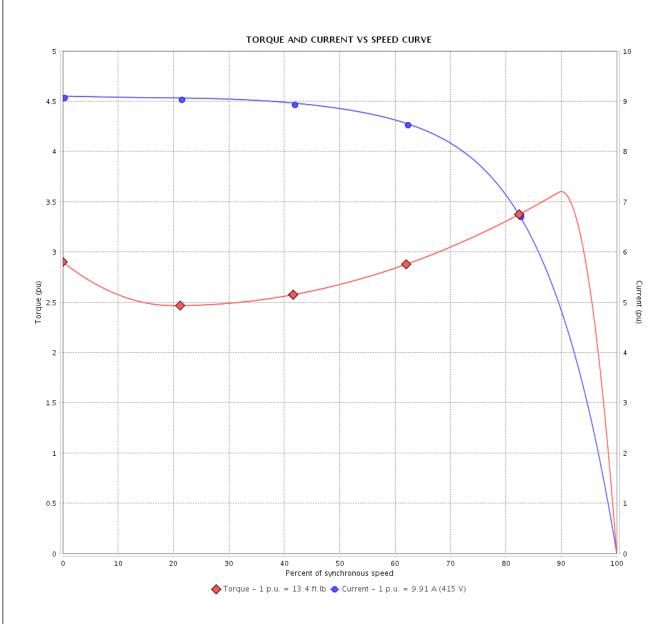


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12709736

Phase

Catalog #: 01036ST3QIE215TC-W22



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)
Rated torque	: 13.4 ft.lb	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	: 1.25
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 2940 rpm	Design	: B

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

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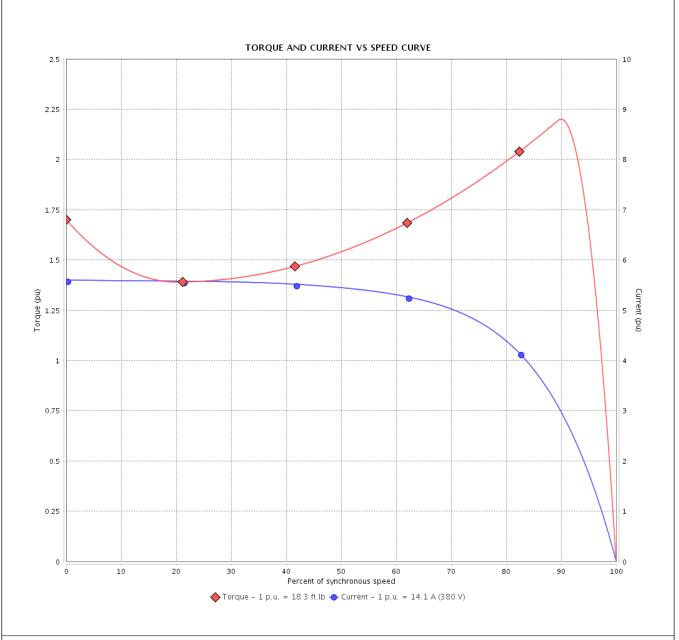
Customer :

Product line : NEMA Premium Efficiency Three- Prod

Phase

Product code: 12709736

Catalog #: 01036ST3QIE215TC-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 Locked rotor torque : 170 % Service factor : 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: 12709736 Catalog #: 01036ST3QIE215TC-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Torque (pu) 1.2 0.6 0.3 40 50 -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	: 18.2 ft.lb	Insulation class	:F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 105 K
Rated speed	: 2890 rpm	Design	: B
Locked rotor time	: 32s (cold) 18s (hot)	1	

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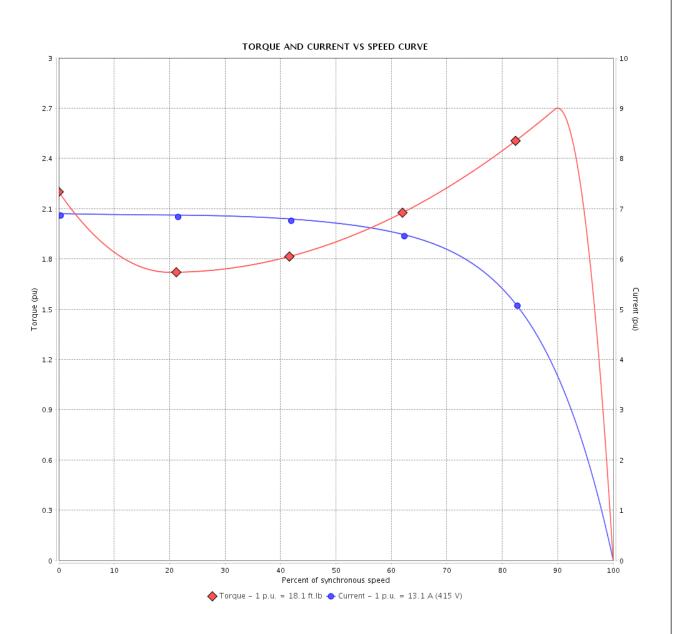
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12709736

Catalog #: 01036ST3QIE215TC-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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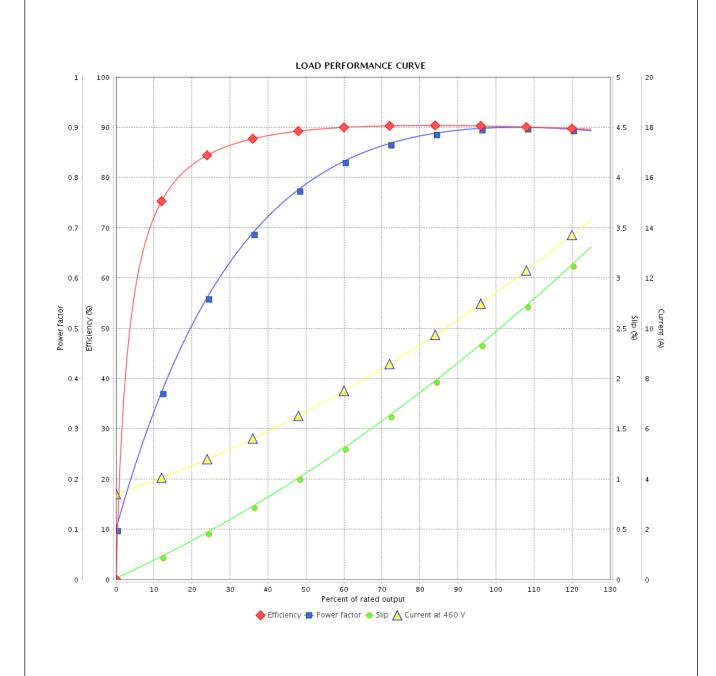


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12709736

Phase

Catalog #: 01036ST3QIE215TC-W22



	*					
Performance	: 4	60 V 60 Hz 2P				
Rated current	ated current : 11.6 A		Moment of	Moment of inertia (J)		.lb
LRC	: 7	.2	Duty cycle	•	: Cont.(S1)	
Rated torque	: 1:	5.0 ft.lb	Insulation	Insulation class		
Locked rotor tord	que : 2:	20 %	Service fa	Service factor		
Breakdown torqu	ue : 2	90 %	Temperat	ure rise	: 80 K	
Rated speed	: 3	510 rpm	Design		: B	
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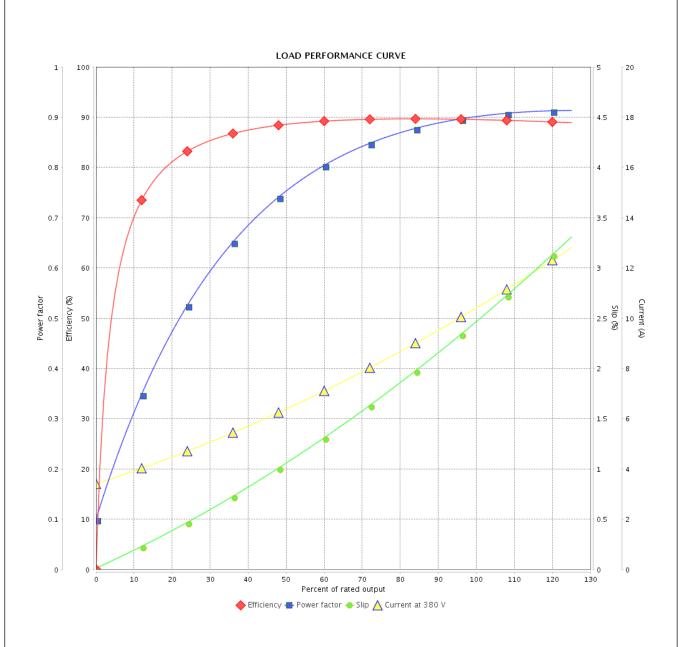
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Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 10.4 A : 7.4 : 13.5 ft.lb : 240 % : 300 % : 2925 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 0.6362 sq.ft.ll : Cont.(S1) : F : 1.25 : 80 K : B	b
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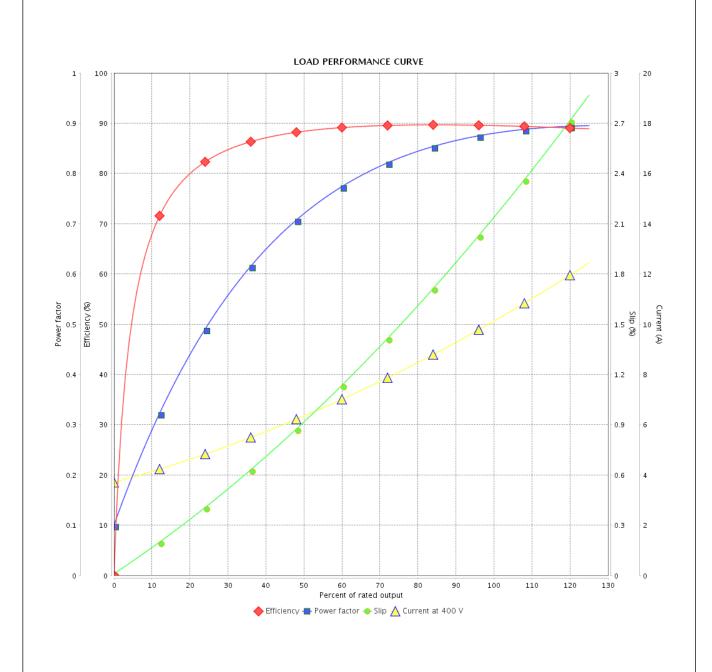


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Product line : NEMA Premium Efficiency Three- Product code : 12709736

Phase

Catalog #: 01036ST3QIE215TC-W22



Performance	: 40	00 V 50 Hz 2P IE3				
Rated current	ated current : 10.1 A		Moment of	Moment of inertia (J)		.lb
LRC	: 8.	4	Duty cycle	•	: Cont.(S1)	
Rated torque	: 13	3.4 ft.lb	Insulation	Insulation class		
Locked rotor torg	jue : 2°	70 %	Service fa	Service factor		
Breakdown torqu	ie : 34	40 %	Temperat	ure rise	: 80 K	
Rated speed	: 29	935 rpm	Design		: B	
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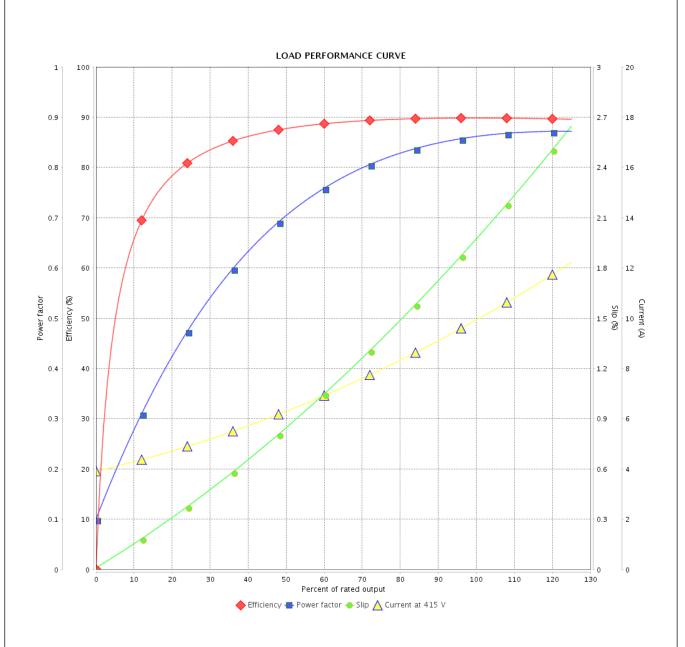
Product line : NEMA Premium Efficiency Three- Prod

Phase

Product code: 12709736

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#### Three Phase Induction Motor - Squirrel Cage

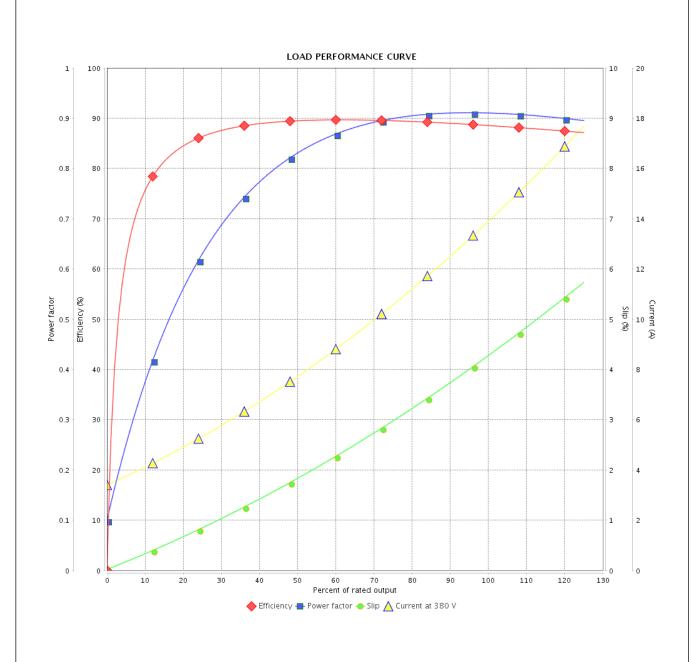


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12709736

Phase

Catalog #: 01036ST3QIE215TC-W22



Performance	: 3	880 V 50 Hz 2P IE2				
Rated current	: 1	4.1 A	Moment o	f inertia (J)	: 0.6362 sq.ft.	.lb
LRC	: 5	5.6	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 1	8.3 ft.lb	Insulation	class	: F	
Locked rotor torqu	e :1	70 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	220 %	Temperati	ıre rise	: 105 K	
Rated speed	: 2	2870 rpm	Design		: B	
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Product line : NEMA Premium Efficiency Three- Prod

Phase

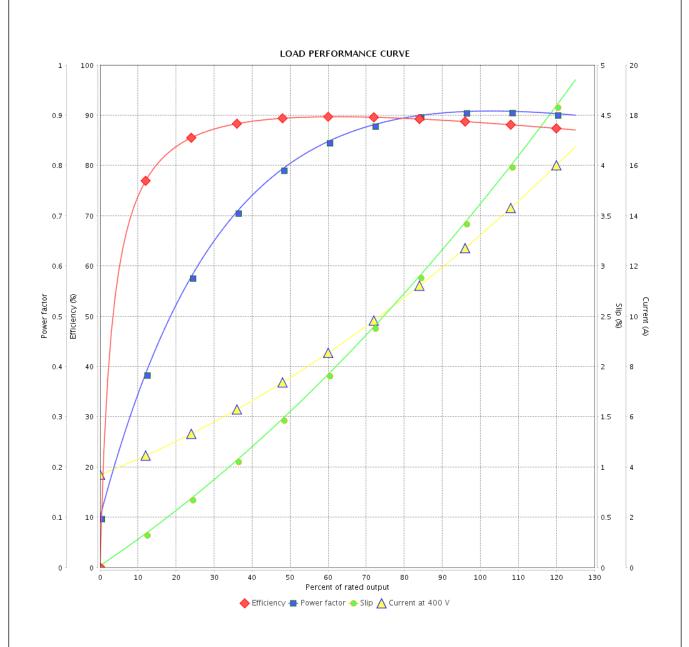
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Performance	: 400 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 13.4 A : 6.4 : 18.2 ft.lb : 200 % : 250 % : 2890 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ector	: 0.6362 sq.ft.ll : Cont.(S1) : F : 1.00 : 105 K : B	)
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#### Three Phase Induction Motor - Squirrel Cage

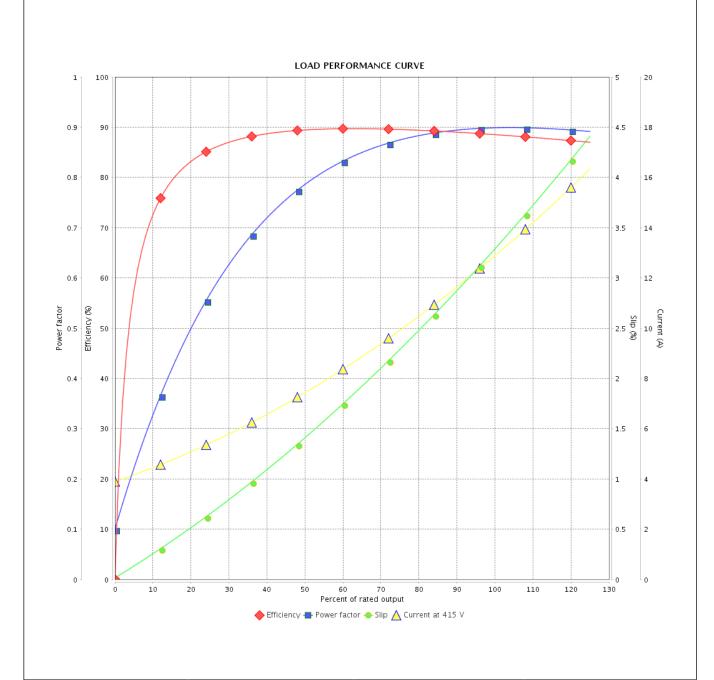


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12709736

Phase

Catalog #: 01036ST3QIE215TC-W22



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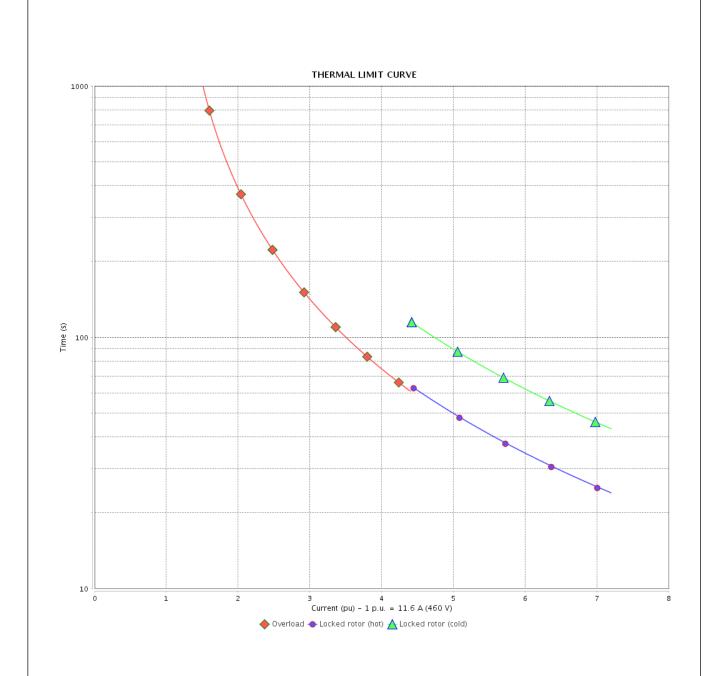


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12709736 01036ST3QII	E215TC-W22
					·	
Performance		: 460 V 60 Hz 2P				
Rated current LRC		: 11.6 A : 7.2	Moment of	of inertia (J)	: 0.6362 sq.ft.l : Cont.(S1)	b
Rated torque		: 15.0 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 220 % : 290 %	Service fa Temperat		: 1.25 : 80 K	
Rated speed		: 3510 rpm	Design		: B	
Heating constant						
Cooling constant	l .	Changes Summary		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage

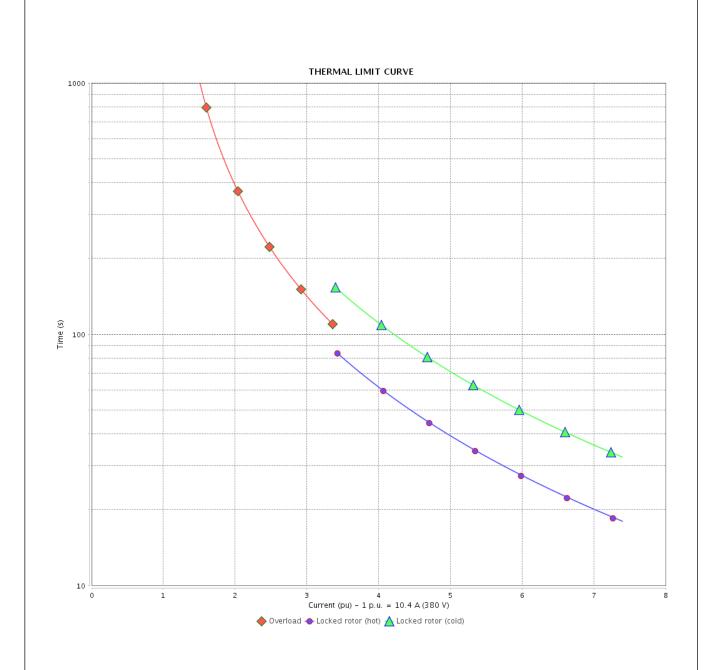


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	12709736	T045T0 W00
				Catalog # :	01030313Q11	E215TC-W22
Performance		: 380 V 50 Hz 2P IE3				
Rated current		: 10.4 A	Moment o	of inertia (J)	: 0.6362 sq.ft.ll	b
LRC Rated torque		: 7.4 : 13.5 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torq	jue :	: 240 %	Service fa	actor	: 1.25	
Breakdown torqu Rated speed		: 300 % : 2925 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constant		•	- 3			
Cooling constant						
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### Three Phase Induction Motor - Squirrel Cage



Customer



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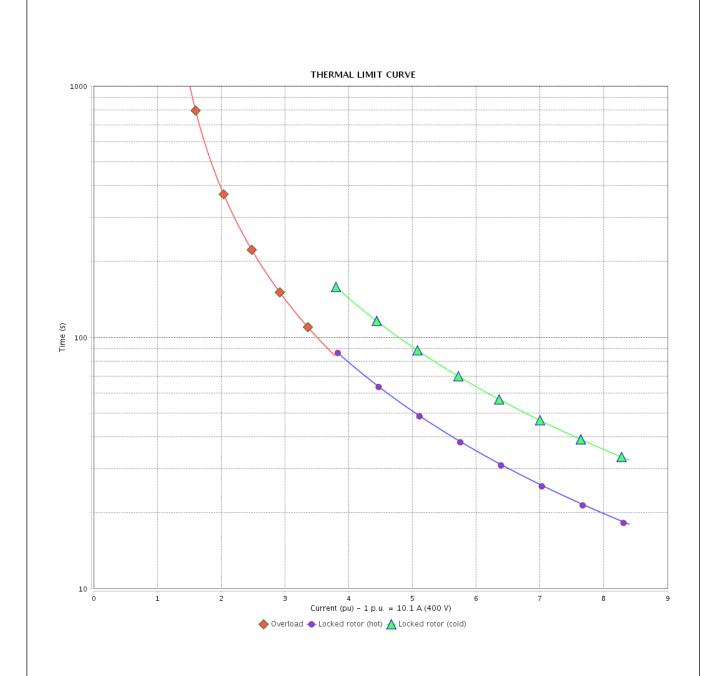


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	12709736	724FTC W22
				Catalog # :	01030513QII	E215TC-W22
Performance		: 400 V 50 Hz 2P IE3				
Rated current		: 10.1 A	Moment o	of inertia (J)	: 0.6362 sq.ft.ll	b
LRC Rated torque		: 8.4 : 13.4 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torq	lue	: 270 %	Service fa	actor	: 1.25	
Breakdown torqu Rated speed		: 340 % : 2935 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constant		•				
Cooling constant						
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### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

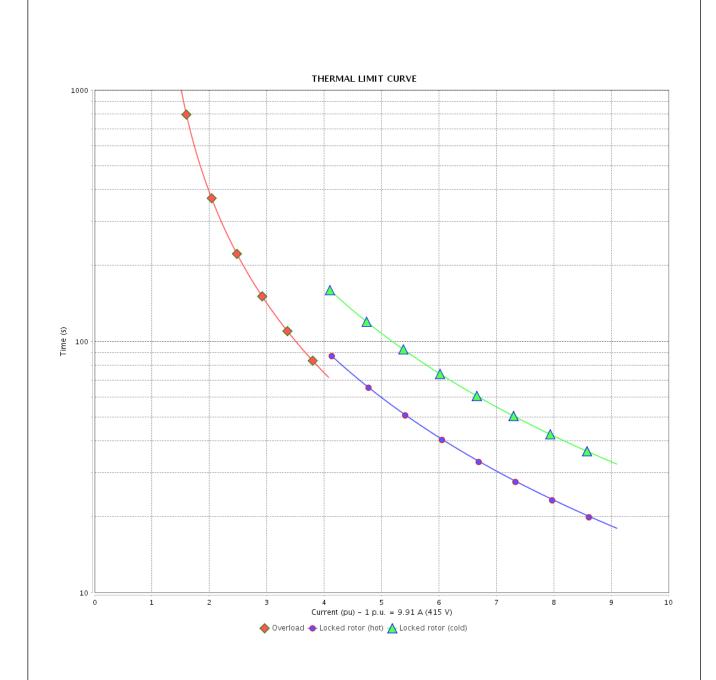


Customer		:				
Product line		: NEMA Premium Efficiency `Phase		Product code : Catalog # :	12709736 01036ST3QI	E215TC-W22
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: : que :	415 V 50 Hz 2P IE3  9.91 A  9.1  13.4 ft.lb  290 %  360 %  2940 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.6362 sq.ft.l : Cont.(S1) : F : 1.25 : 80 K : B	b
Heating constant Cooling constant Rev.	t	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

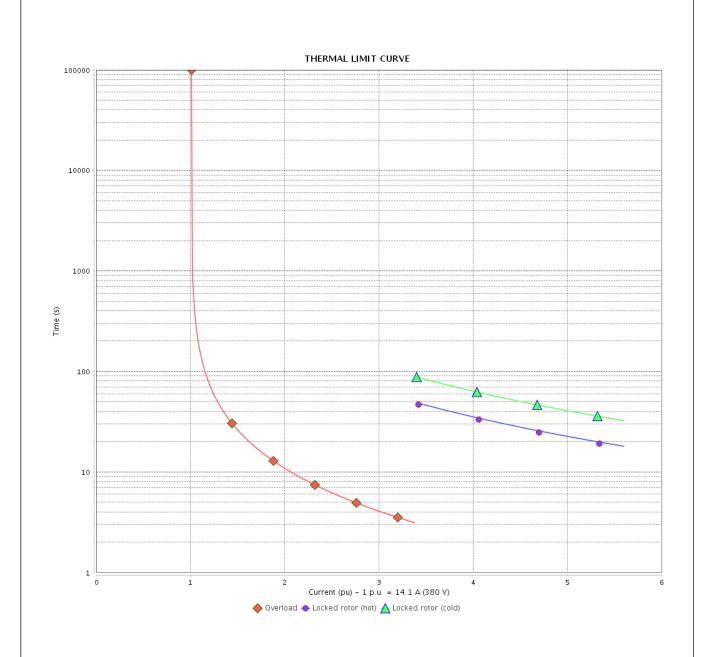


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12709736	E215TC-W22
				Catalog # .	01030313Q1	E2131C-VV22
Performance		: 380 V 50 Hz 2P IE2				
Rated current	:	: 14.1 A	Moment of	of inertia (J)	: 0.6362 sq.ft.l	b
LRC Rated torque		: 5.6 : 18.3 ft.lb	Duty cycle	Э	: Cont.(S1) : F	
Locked rotor torqu	ie :	: 170 %	Service fa	actor	: 1.00	
Breakdown torque Rated speed		: 220 % : 2870 rpm	Temperat Design	ure rise	: 105 K : B	
Heating constant	•		2001911			
Cooling constant						
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### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

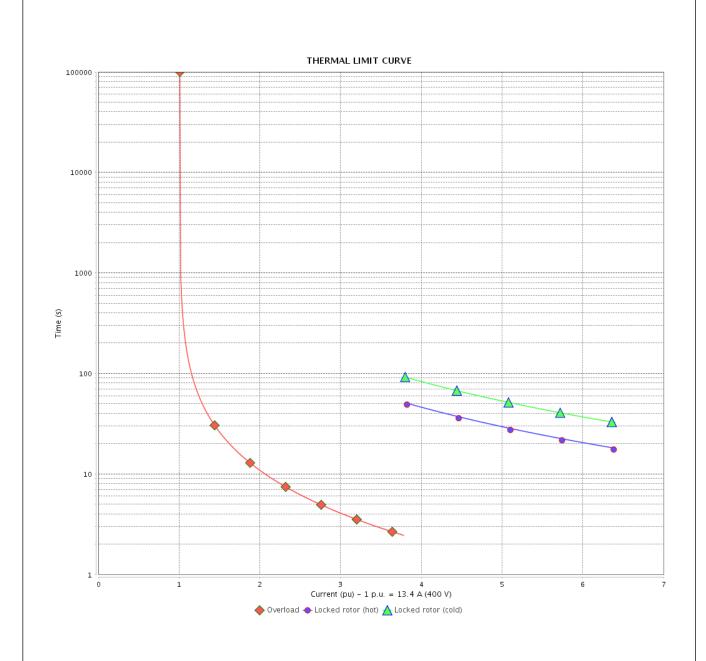


Customer	:				
Product line	: NEMA P Phase	remium Efficiency Three-	Product code : Catalog # :	12709736 01036ST3QI	E215TC-W22
Performance	: 400 V 50 I	Hz 2P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 13.4 A : 6.4 : 18.2 ft.lb : 200 % : 250 % : 2890 rpm	Mome Duty o Insula Servio	tion class ce factor erature rise	: 0.6362 sq.ft.l : Cont.(S1) : F : 1.00 : 105 K : B	b
Heating constant Cooling constant Rev.	Change	s Summary	Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage

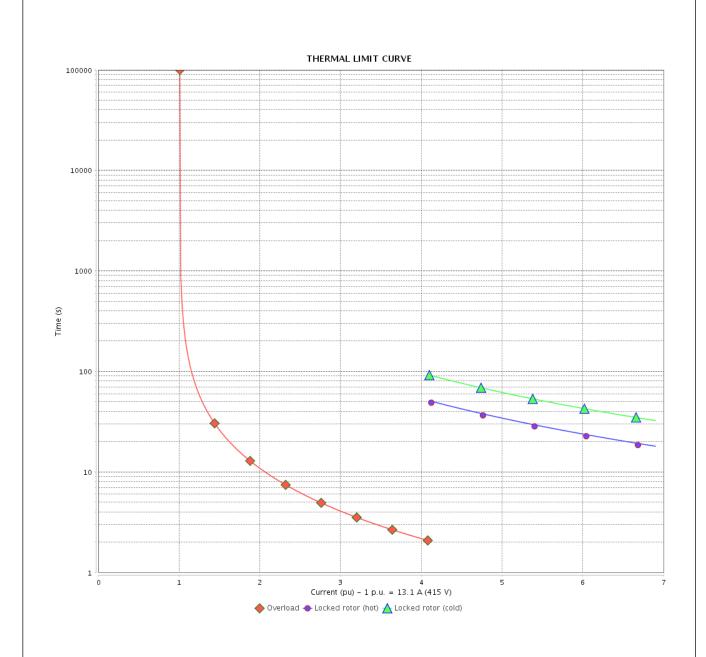


Customer	:				
Product line	: NEMA Premium Et Phase	ficiency Three-	Product code :	12709736	
	Tildse		Catalog # :	01036ST3QI	E215TC-W22
Performance	: 415 V 50 Hz 2P IE2				
Rated current	: 13.1 A		of inertia (J)	: 0.6362 sq.ft.l	b
LRC	: 6.9 : 18.1 ft.lb	Duty cyc Insulatio		: Cont.(S1) : F	
Rated torque Locked rotor torq		Service		: 1.00	
Breakdown torqu	e : 270 %		ature rise	: 105 K	
Rated speed	: 2900 rpm	Design		: B	
Heating constant					
Cooling constant Rev.	Changes Summa	rv	Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



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#### Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three- Product of

Phase

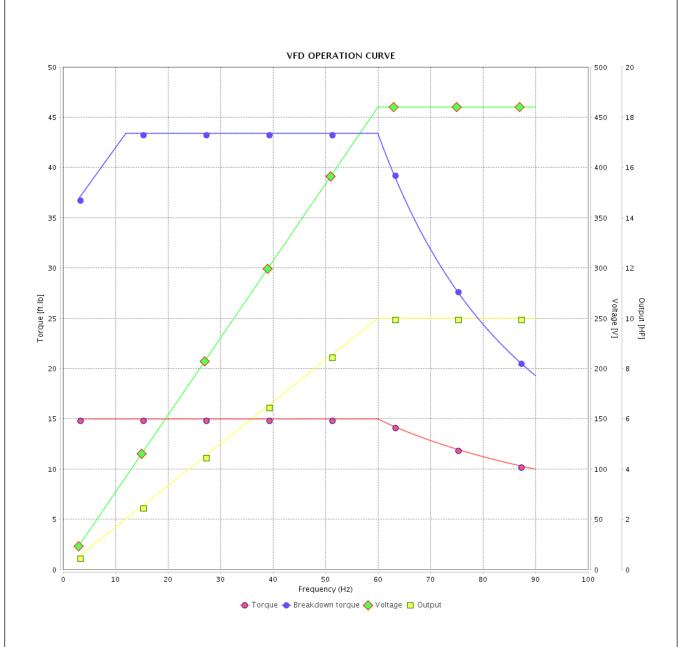
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Performance		: 460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 11.6 A : 7.2 : 15.0 ft.lb : 220 % : 290 % : 3510 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ector	: 0.6362 sq.ft.l : Cont.(S1) : F : 1.25 : 80 K : B	lb
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#### Three Phase Induction Motor - Squirrel Cage

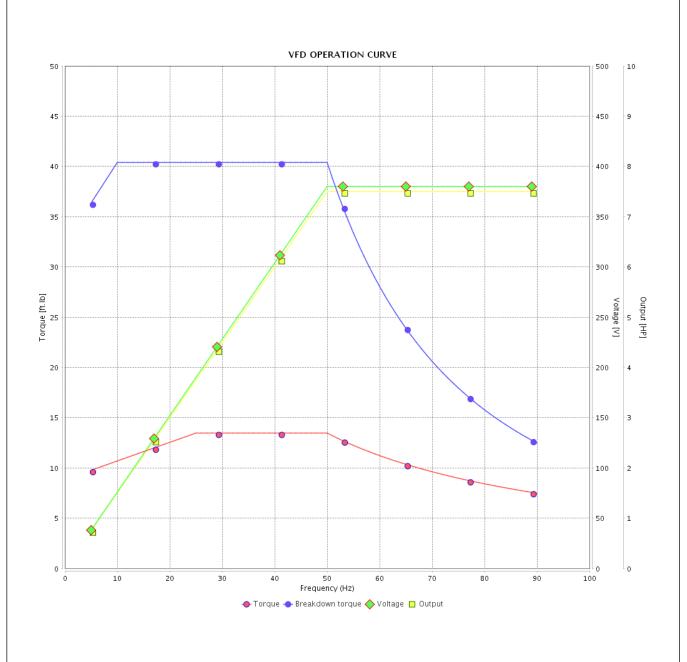


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12709736

Phase

Catalog #: 01036ST3QIE215TC-W22



Performance	: 3	80 V 50 Hz 2P IE3				
Rated current	: 10.4 A Moment of inertia (J)		f inertia (J)	: 0.6362 sq.ft.lb		
LRC	: 7	'.4	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 1	3.5 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	40 %	Service fa	ctor	: 1.25	
Breakdown torque	: 3	800 %	Temperati	ıre rise	: 80 K	
Rated speed	: 2	.925 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

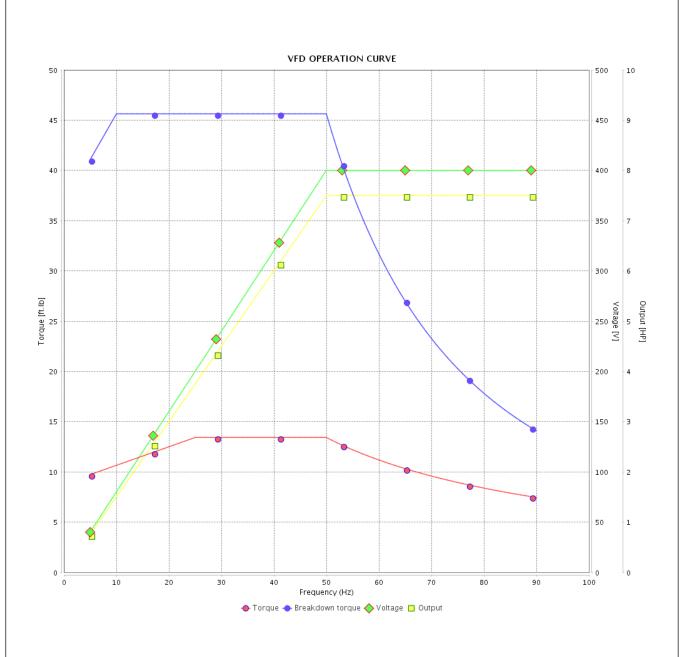
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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12709736



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 Insulation class Service factor Temperature rise Design		: Cont.(S1) : F : 1.25 : 80 K : B	
Rated torque	: 13.4 ft.lb				
Locked rotor torque	: 270 %				
Breakdown torque	: 340 %				
Rated speed	: 2935 rpm				
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#### Three Phase Induction Motor - Squirrel Cage

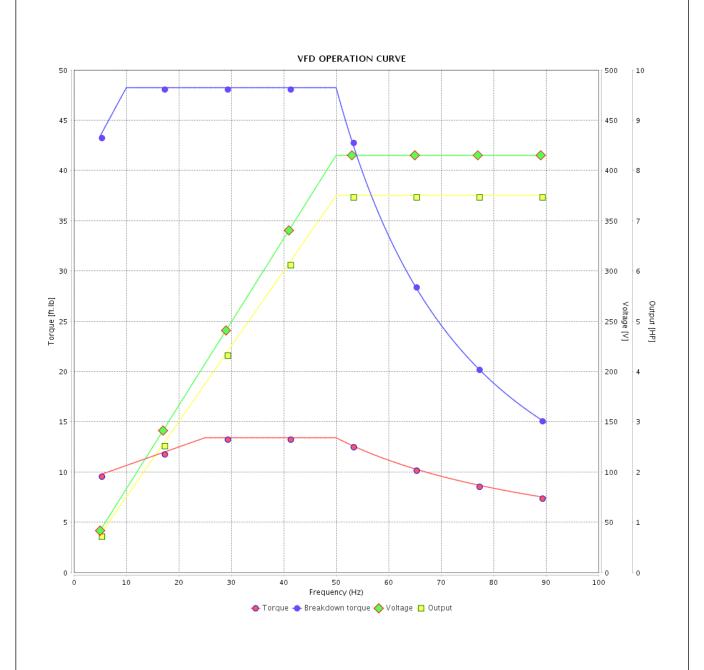


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12709736

Phase

Catalog #: 01036ST3QIE215TC-W22



Performance	: 4	: 415 V 50 Hz 2P IE3					
Rated current	ted current : 9.91 A		Moment o	Moment of inertia (J)		: 0.6362 sq.ft.lb	
LRC	: 9	9.1	Duty cycle	Duty cycle Insulation class Service factor Temperature rise		: Cont.(S1) : F : 1.25	
Rated torque	: 1	13.4 ft.lb	Insulation				
Locked rotor torq	ue : 2	290 %	Service fa				
Breakdown torqu	e :3	360 %	Temperati				
Rated speed		2940 rpm	rpm Design		: B		
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#### Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three- F

Phase

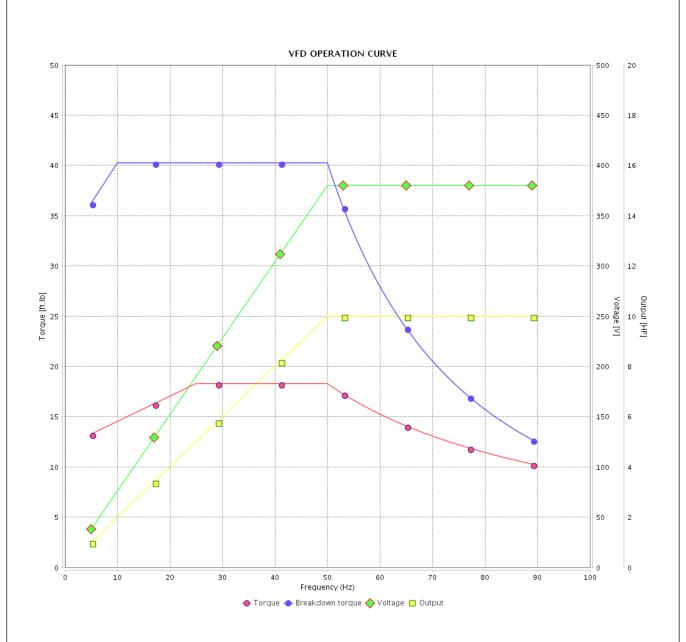
Product code: 12709736

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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 : F Rated torque 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

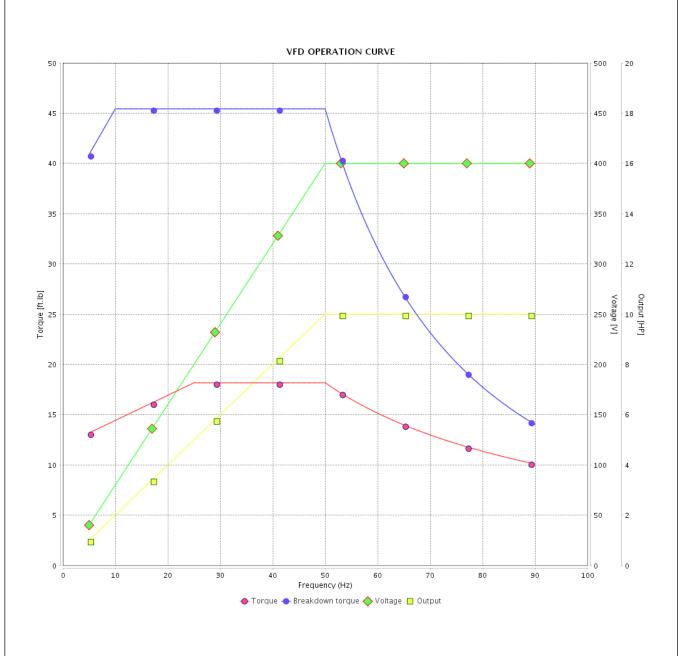


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12709736

Phase

Catalog #: 01036ST3QIE215TC-W22



Performance	mance : 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	:	18.2 ft.lb	Insulation class		: F	
Locked rotor torque	e ::	200 %	Service factor		: 1.00	
		250 %			: 105 K : B	
		2890 rpm				
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Product line : NEMA Premium Efficiency Three-

Phase

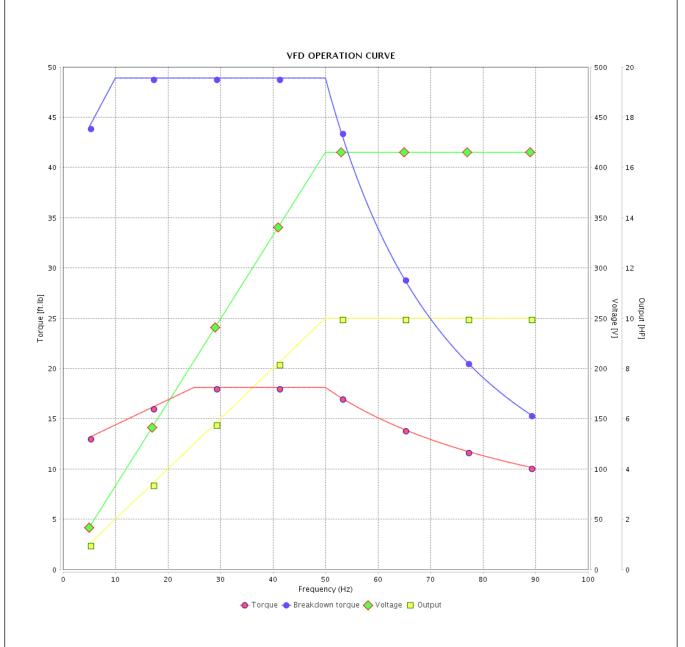
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Performance	: 4	15 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 1 jue : 2	3.1 A 5.9 8.1 ft.lb 20 % 70 % 900 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.6362 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Rev.	Changes Summary		Performed	Checked	Date	
Performed by						

