### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11768123

Catalog #: 00512ST3QIE215TC-W22

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

Insulation class 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

: 1000 m.a.s.l. Approx. weight<sup>3</sup> : 187 lb Altitude

Protection degree		: IP55	Moment of ine	Moment of inertia (J) : 1.47 sq.ft.lb		
Design		: B				
Output [HP]	Output [HP]		5	5	5	
Poles		6	6	6	6	
Frequency [Hz]		60	50	50	50	
Rated voltage [V]		460	380	400	415	
Rated current [A]		6.83	8.10	7.82	7.55	
L. R. Amperes [A]		46.4	44.5	47.7	49.1	
LRC [A]		6.8x(Code J)	5.5x(Code G)	6.1x(Code H)	6.5x(Code H)	
No load current [A	]	3.45	3.41	3.68	3.90	
Rated speed [RPN	<b>/</b> []	1170	960	965	970	
Slip [%]		2.50	4.00	3.50	3.00	
Rated torque [ft.lb]		22.4	27.4	27.2	27.1	
Locked rotor torque [%]		170	140	160	190	
Breakdown torque	[%]	260	200	229	250	
Service factor		1.25	1.00	1.00	1.00	
Temperature rise		80 K	80 K	80 K	80 K	
Locked rotor time		102s (cold) 57s (hot)	54s (cold) 30s (hot)	54s (cold) 30s (hot)	54s (cold) 30s (hot)	
Noise level <sup>2</sup>		55.0 dB(A)	53.0 dB(A)	53.0 dB(A)	53.0 dB(A)	
	25%	88.2	89.8	89.1	87.2	
Efficiency (%)	50%	88.5	88.5	88.5	87.5	
Efficiency (70)	75%	89.5	88.5	88.5	88.5	
	100%	89.5	86.8	87.5	88.5	
	25%	0.34	0.40	0.37	0.34	
Power Factor	50%	0.58	0.65	0.61	0.58	
FUWEI FACIOI	75%	0.70	0.76	0.73	0.71	
	100%	0.76	0.80	0.78	0.77	

Drive end Non drive end Foundation loads

Bearing type 6308 C3 6207 C3 Max. traction : 288 lb Sealing Inpro/Seal Inpro/Seal Max. compression : 475 lb

20000 h Lubrication interval 20000 h Lubricant amount 7 g 11 g Mobil Polyrex EM

Lubricant type

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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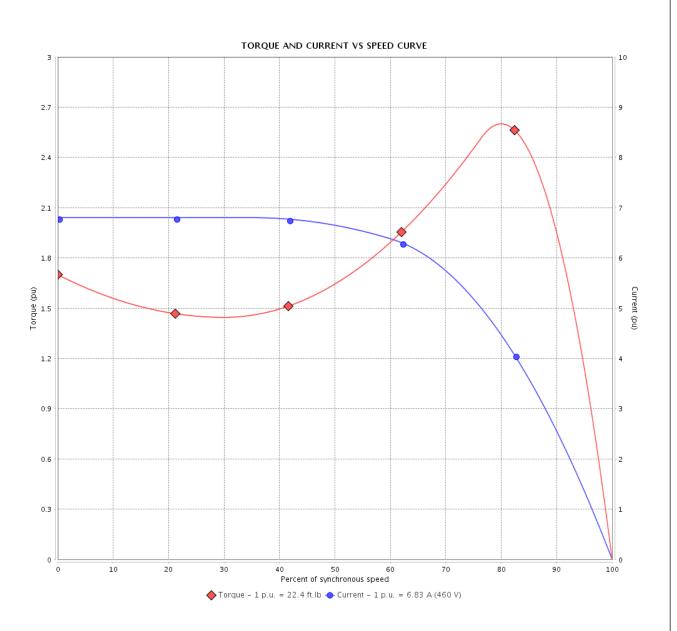
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00512ST3QIE215TC-W22

11768123



Performance : 460 V 60 Hz 6P Rated current : 6.83 A Moment of inertia (J) : 1.47 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) : 22.4 ft.lb Insulation class Rated torque : F Locked rotor torque : 170 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1170 rpm Design : B

Locked rotor time : 102s (cold) 57s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11768123 Catalog #: 00512ST3QIE215TC-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 (pd) 1.25 Current 0.5 0.25 Percent of synchronous speed ◆ Torque - 1 p.u. = 27.4 ft.lb ◆ Current - 1 p.u. = 8.10 A (380 V) Performance : 380 V 50 Hz 6P IE3 Rated current : 8.10 A Moment of inertia (J) : 1.47 sq.ft.lb **LRC** : 5.5 Duty cycle : Cont.(S1) : 27.4 ft.lb Insulation class Rated torque : F : 140 % Locked rotor torque Service factor : 1.00 Breakdown torque : 200 % Temperature rise : 80 K Rated speed : 960 rpm Design : B Locked rotor time : 54s (cold) 30s (hot)

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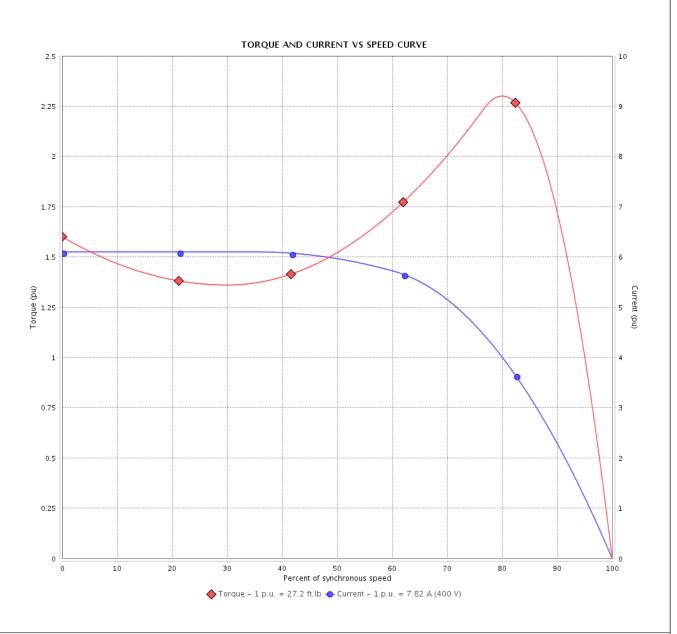


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11768123

Phase

Catalog #: 00512ST3QIE215TC-W22



Performance	: 400 V 50 Hz 6P IE3		
Rated current LRC Rated torque Locked rotor torque	: 7.82 A : 6.1 : 27.2 ft.lb : 160 %	Moment of inertia (J) Duty cycle Insulation class Service factor	: 1.47 sq.ft.lb : Cont.(S1) : F : 1.00
Breakdown torque Rated speed	: 229 % : 965 rpm	Temperature rise Design	: 80 K : B
Looked reter time	: E4a (aald) 20a (bat)		

Locked rotor time : 54s (cold) 30s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11768123 Catalog #: 00512ST3QIE215TC-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 27.1 ft.lb ◆ Current - 1 p.u. = 7.55 A (415 V)

Performance : 415 V 50 Hz 6P IE3 Rated current : 7.55 A Moment of inertia (J) : 1.47 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 27.1 ft.lb : F : 190 % : 1.00 Locked rotor torque Service factor : 80 K Breakdown torque : 250 % Temperature rise : B Rated speed : 970 rpm Design

Locked rotor time : 54s (cold) 30s (hot)

LOCKCO TOTOL UITK		43 (cold) 503 (flot)			
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Phase

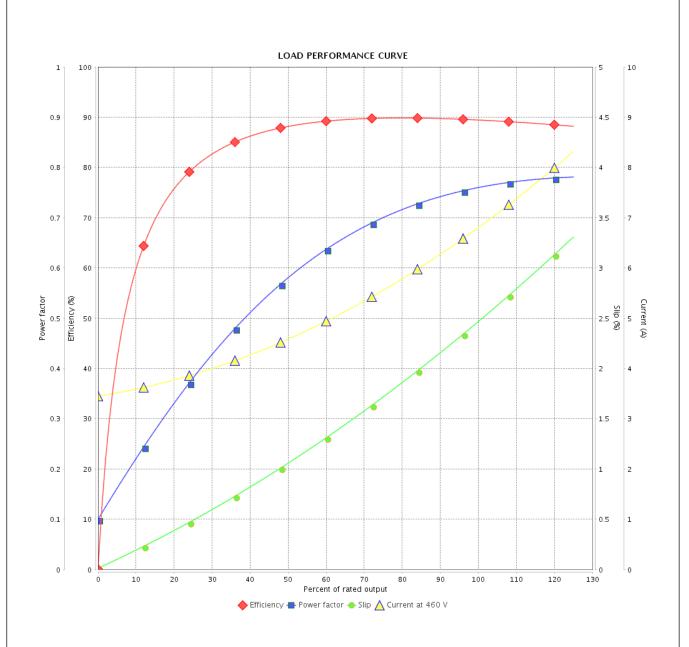
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Performance	: 460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 260 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: Cont.(\$1) class : F ctor : 1.25 ure rise : 80 K	
Rated speed	: 1170 rpm	Design		: B	
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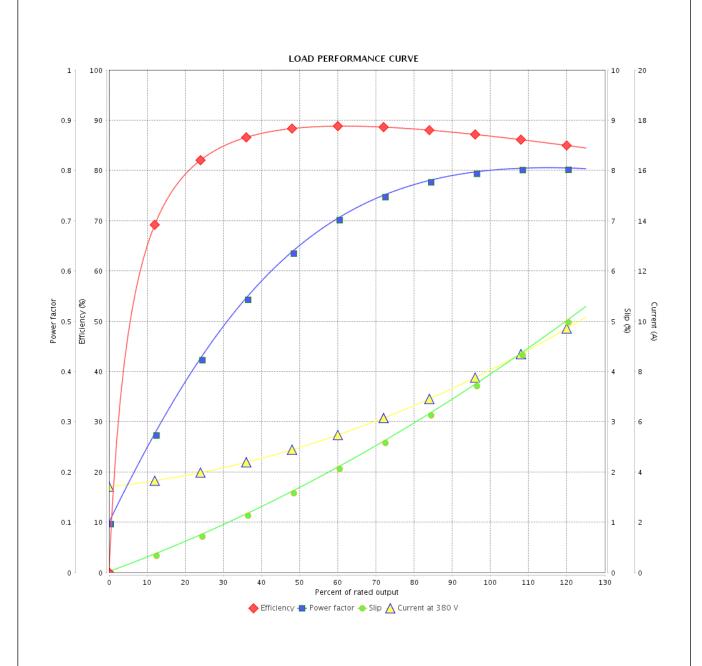
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11768123

00512ST3QIE215TC-W22 Catalog #:



Performance	: 3	380 V 50 Hz 6P IE3	3			
Rated current	: 8	3.10 A	Moment o	f inertia (J)	: 1.47 sq.ft.lb	
LRC	: 5	5.5	Duty cycle	<del>)</del>	: Cont.(S1)	
Rated torque	: 2	27.4 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 1	140 %	Service fa	ctor	: 1.00	
Breakdown torqu	ue : 2	200 %	Temperature rise		: 80 K	
Rated speed	: 9	960 rpm	Design		: B	
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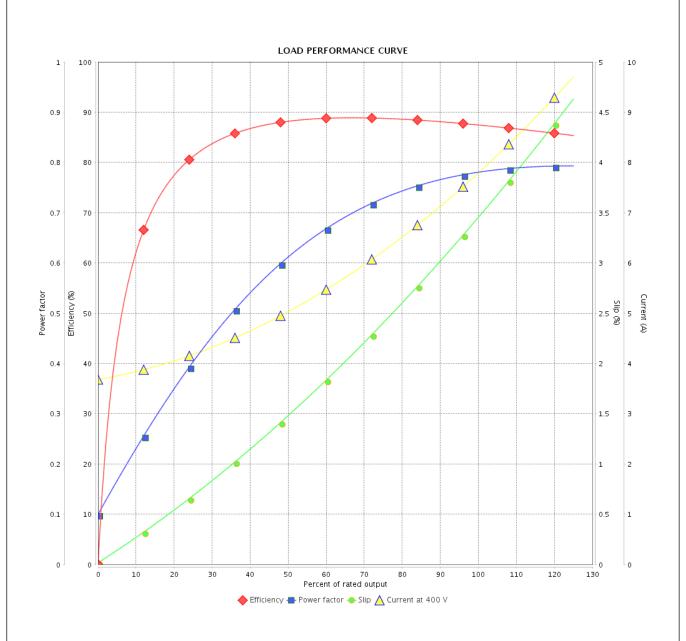
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Product line : NEMA Premium Efficiency Three-

Product code: 11768123

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Performance	: 400 V 50 Hz 6P IE3				
Rated current	: 7.82 A	Moment o	f inertia (J)	: 1.47 sq.ft.lb	
LRC	: 6.1	Duty cycle	<del>)</del>	: Cont.(S1)	
Rated torque	: 27.2 ft.lb	Insulation	class	: F	
Locked rotor torque	: 160 %	Service factor Temperature rise		: 1.00	
Breakdown torque	: 229 %			: 80 K	
Rated speed	: 965 rpm	Design		: B	
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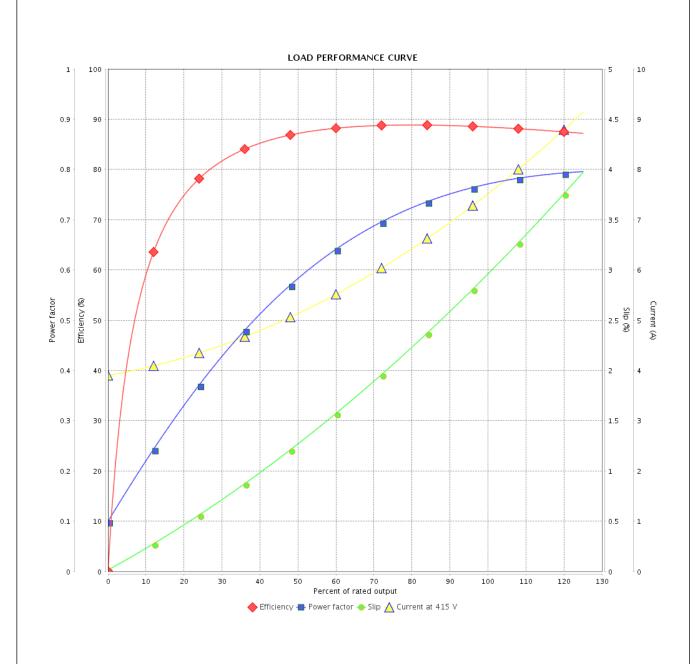
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Product line : NEMA Premium Efficiency Three- Product code : 11768123

Phase

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Performance	: 415 V 50 Hz 6P IE3					
Rated current	: 7.55 A	Moment of inert	ia (J)	: 1.47 sq.ft.lb		
LRC	: 6.5	Duty cycle		: Cont.(S1)		
Rated torque	: 27.1 ft.lb	Insulation class		:F		
Locked rotor torque	: 190 %	Service factor Temperature rise		: 1.00		
Breakdown torque	: 250 %			: 80 K		
Rated speed	: 970 rpm	Design		: B		
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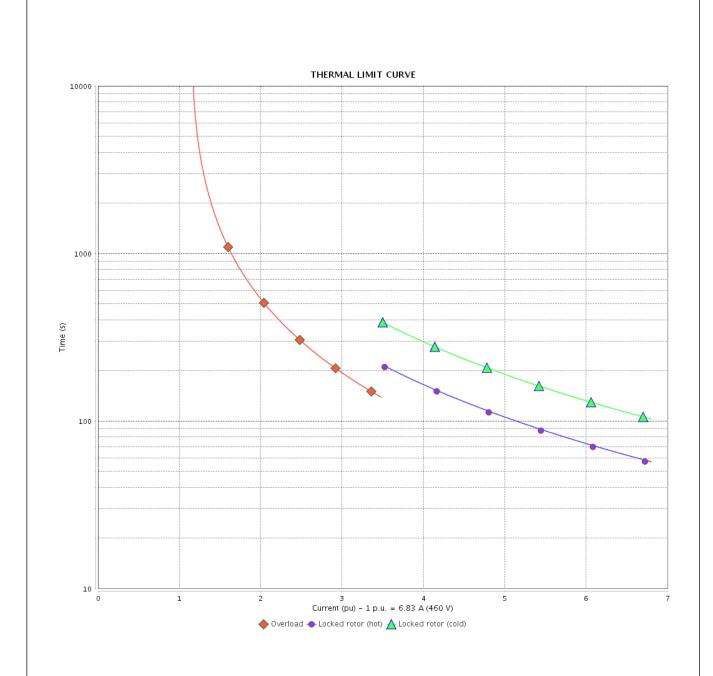


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Product line	: NEMA Premium Efficiency Phase		Product code :	11768123	
			Catalog # :	00512ST3QIE	-2151C-W22
Darfarmanaa	· 460 \/ 60 H= 6D				
Performance Rated current	: 460 V 60 Hz 6P : 6.83 A	Moment of	inertia ( I)	: 1.47 sq.ft.lb	
LRC	: 6.8	Duty cycle		: Cont.(S1)	
Rated torque	: 22.4 ft.lb	Insulation		: F	
Locked rotor torque Breakdown torque	: 170 % : 260 %	Service fac Temperatu		: 1.25 : 80 K	
Rated speed	: 1170 rpm	Design	. 5 1100	: B	
Heating constant					
Cooling constant					
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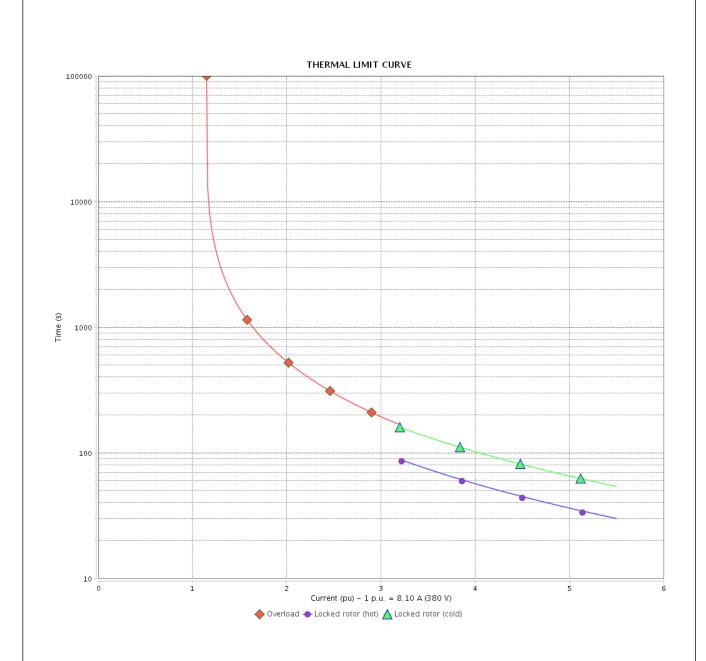


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Product line	: 1	NEMA Premium Efficiency hase	Three-	Product code :	11768123	
		nase		Catalog # :	00512ST3QII	E215TC-W22
Performance		80 V 50 Hz 6P IE3				
Rated current LRC	: 8. : 5.	10 A 5	Moment o	f inertia (J)	: 1.47 sq.ft.lb : Cont.(S1)	
Rated torque	: 27	7.4 ft.lb	Insulation	class	: F	
Locked rotor torqu Breakdown torque		40 % 00 %	Service fa Temperatu		: 1.00 : 80 K	
Rated speed		60 rpm	Design	110 113 <del>0</del>	: B	
Heating constant						
Cooling constant						
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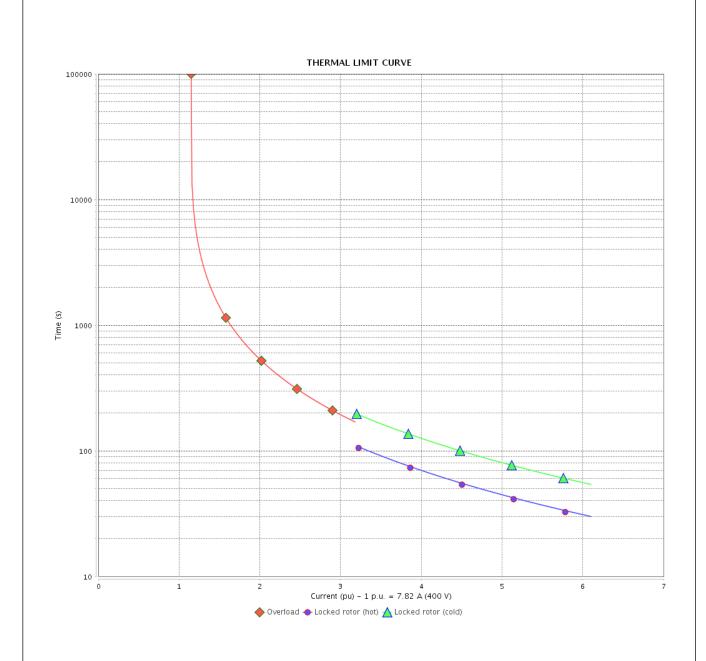


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Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	11768123	
		. Hado		Catalog # :	00512ST3QIE	215TC-W22
Performance		: 400 V 50 Hz 6P IE3				
Rated current		: 7.82 A	Moment o	of inertia (J)	: 1.47 sq.ft.lb	
LRC Rated torque		: 6.1 : 27.2 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que	: 160 %	Service fa		: 1.00	
Breakdown torqu	ie :	: 229 %	Temperati	ure rise	: 80 K	
Rated speed		: 965 rpm	Design		: B	
Heating constant						
Cooling constant Rev.	t	Changes Summary		Performed	Checked	Date
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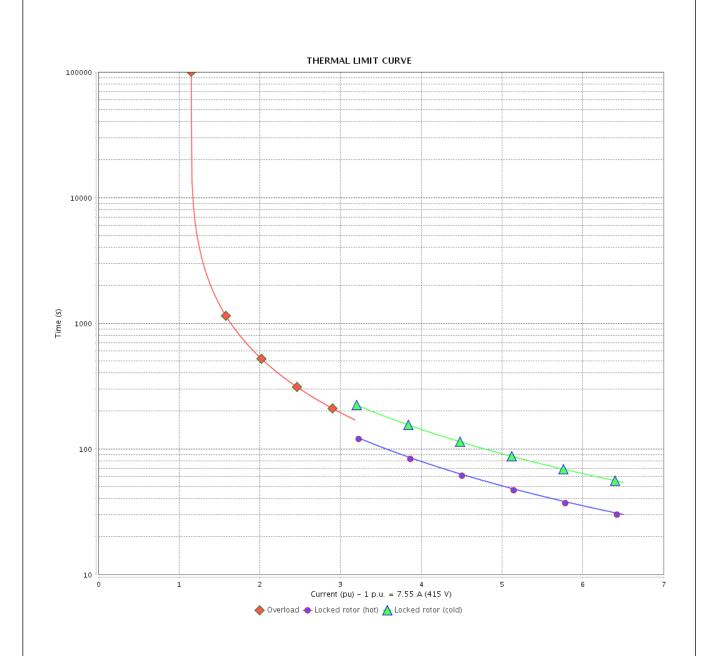


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Product line		NEMA Premium Efficiency l hase		Product code :	11768123	
			(	Catalog # :	00512ST3QIE	E215TC-W22
Performance	: 4	15 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6. : 27 ue : 19 e : 29	55 A 5 7.1 ft.lb 90 % 50 % 70 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor	: 1.47 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
		· F····				
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

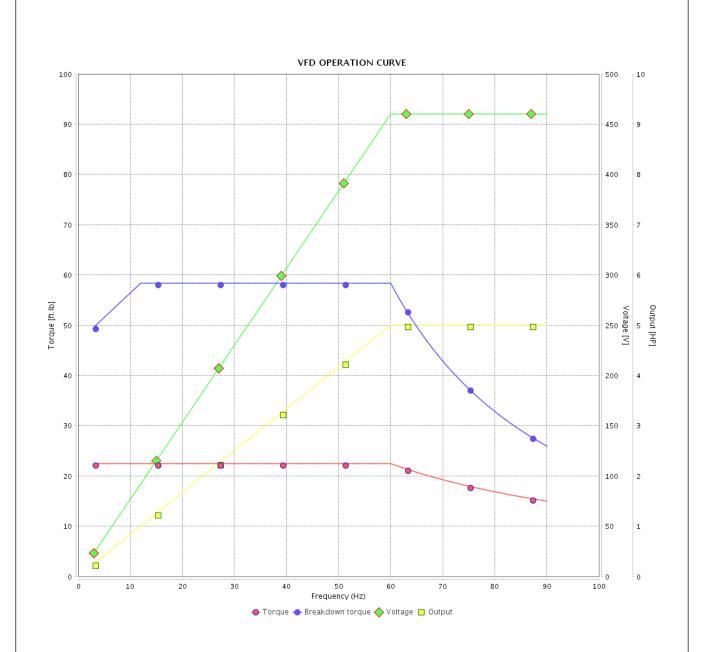
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Performance : 460 V 60 Hz 6P Rated current : 6.83 A Moment of inertia (J) : 1.47 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.8 : 22.4 ft.lb Insulation class : F Rated torque Locked rotor torque : 170 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1170 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

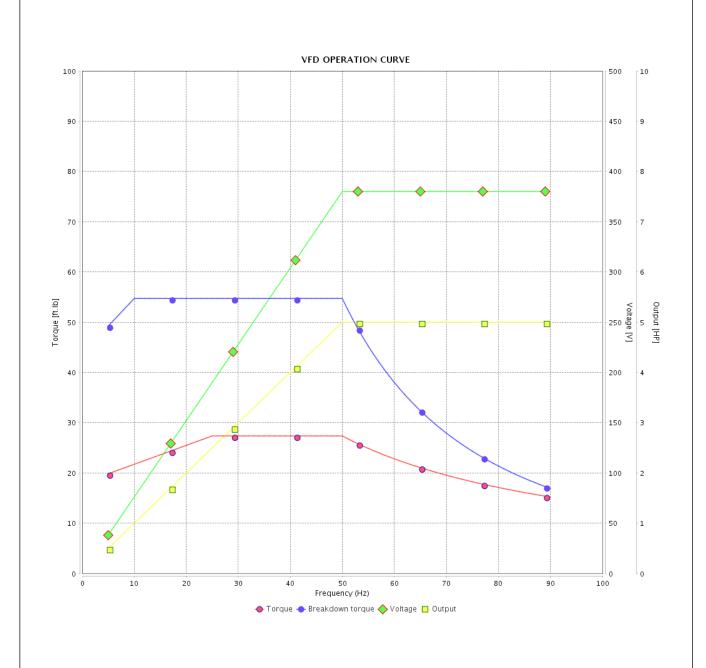
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11768123

00512ST3QIE215TC-W22 Catalog #:



Performance	: 38	80 V 50 Hz 6P IE3	}			
Rated current	: 8.	: 8.10 A Moment of inertia (J)		: 1.47 sq.ft.lb		
LRC	: 5.	.5	Duty cycle	Duty cycle		
Rated torque	: 2	7.4 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 14	40 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 20	00 %	Temperati	Temperature rise		
Rated speed : 960 rpm Design			: B			
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Product line : NEMA Premium Efficiency Three- Product code : 11768123

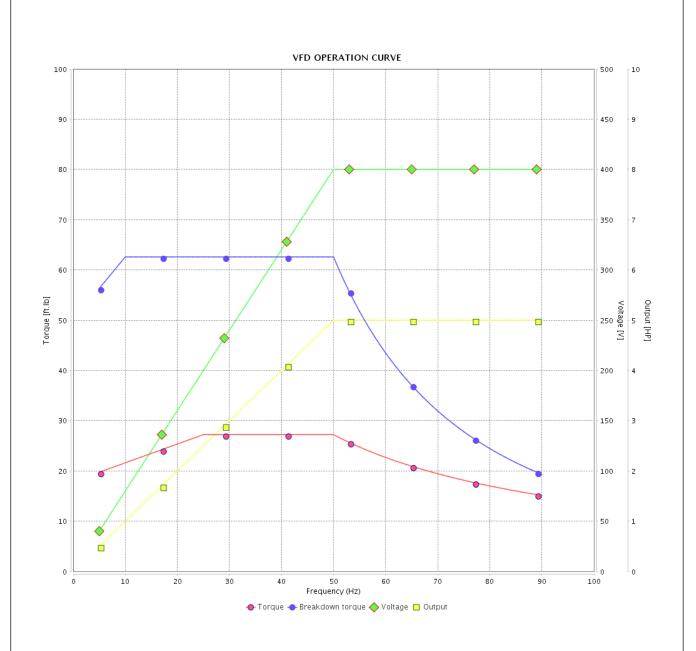
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Performance	: 40	00 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		.82 A .1 7.2 ft.lb 60 % 29 % 65 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.47 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



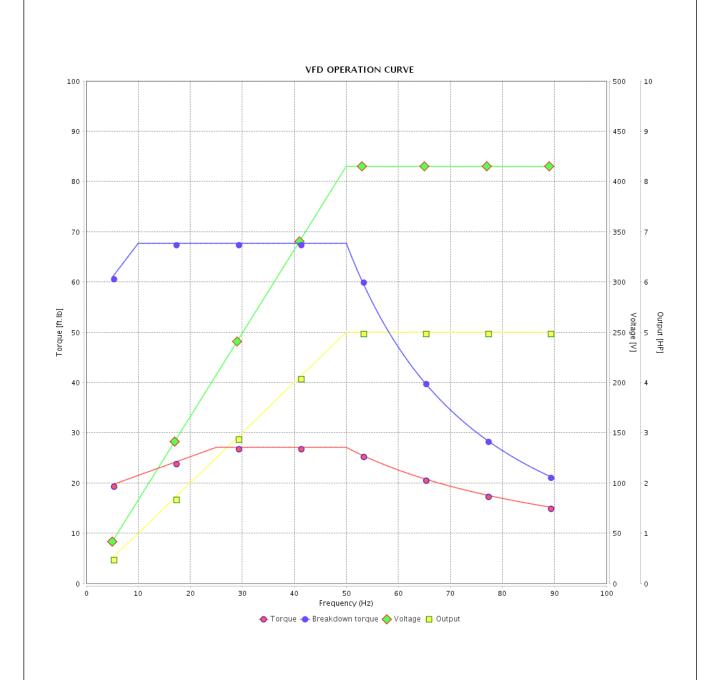
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00512ST3QIE215TC-W22

11768123



Performance	: 4	15 V 50 Hz 6P IE3				
Rated current	d current : 7.55 A Moment of inertia		f inertia (J)	ertia (J) : 1.47 sq.ft.lb		
LRC	: 6	.5	Duty cycle	;	: Cont.(S1)	
Rated torque	: 2	7.1 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 1	90 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	50 %	Temperati	Temperature rise		
Rated speed	: 9	70 rpm	Design		: B	
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