### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12378983

00736ST3QIE213TC-W22 Catalog #:

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

Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 155 lb

Protection degree	Э	: IP55		Momer	nt of inertia (J	) : 0	.4665 sq.ft.lb	
Design		: B						
Output [HP]		7.5	5	5	5	7.5	7.5	7.5
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]		8.76	7.24	7.03	6.92	10.6	10.2	9.82
L. R. Amperes [A]		63.1	59.4	64.0	67.1	60.4	65.3	67.8
LRC [A]		7.2x(Code H)	8.2x(Code J)	9.1x(Code L)	9.7x(Code	5.7x(Code F)	6.4x(Code	6.9x(Code H)
					M)		G)	
No load current [A]		2.70	2.84	3.05	3.22	2.70	2.90	3.30
Rated speed [RPM	1]	3520	2940	2950	2952	2895	2905	2915
Slip [%]		2.22	2.00	1.67	1.60	3.50	3.17	2.83
Rated torque [ft.lb]		11.2	8.93	8.90	8.90	13.6	13.6	13.5
Locked rotor torqu	e [%]	210	260	290	320	170	190	210
Breakdown torque	[%]	300	380	420	450	229	260	280
Service factor		1.25	1.25	1.25	1.25	1.25	1.25	1.25
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		39s (cold)	54s (cold)	54s (cold)	54s (cold)	36s (cold)	36s (cold)	36s (cold)
		22s (hot)	30s (hot)	30s (hot)	30s (hot)	20s (hot)	20s (hot)	20s (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%	87.2	86.4	86.1	85.8	89.1	88.1	87.2
Efficiency (%)	50%	87.5	86.7	86.4	86.1	88.5	87.5	87.5
Efficiency (%)	75%	89.5	88.2	88.3	88.5	88.5	88.5	88.5
	100%	89.5	88.2	88.3	88.5	87.5	87.5	88.5
	25%	0.52	0.47	0.43	0.41	0.57	0.54	0.50
Dower Footer	50%	0.75	0.74	0.70	0.67	0.80	0.77	0.74
Power Factor	75%	0.84	0.83	0.81	0.78	0.87	0.86	0.84
	100%	0.88	0.88	0.86	0.84	0.90	0.89	0.88

Drive end Non drive end Foundation loads 6308 C3 6207 C3

Bearing type Max. traction : 136 lb Sealing Inpro/Seal Inpro/Seal Max. compression : 291 lb 20000 h 20000 h Lubrication interval

Lubricant amount 11 g 7 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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#### Three Phase Induction Motor - Squirrel Cage

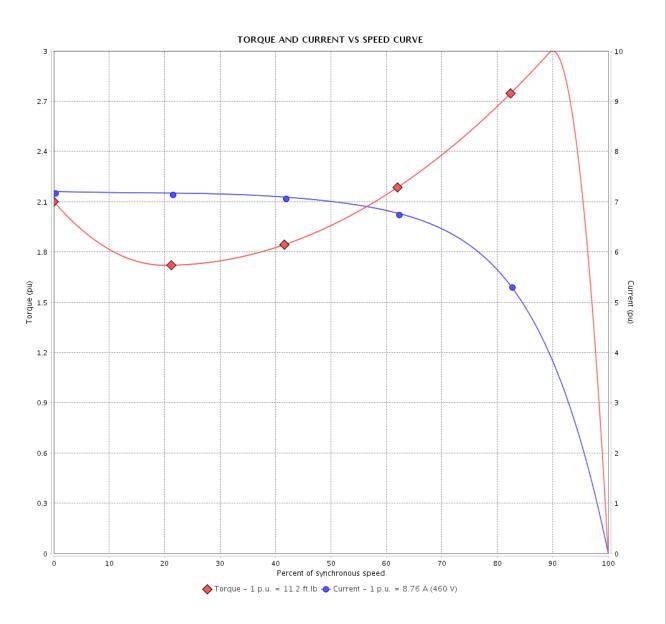


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12378983

Phase

Catalog #: 00736ST3QIE213TC-W22



Performance : 460 V 60 Hz 2P Rated current : 8.76 A Moment of inertia (J) : 0.4665 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 11.2 ft.lb Locked rotor torque : 210 % Service factor : 1.25 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 3520 rpm Design : B

Locked rotor time : 39s (cold) 22s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12378983 Catalog #: 00736ST3QIE213TC-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Current Torque (pu) 0.5 40 50 60 Percent of synchronous speed ◆ Torque - 1 p.u. = 8.93 ft.lb ◆ Current - 1 p.u. = 7.24 A (380 V) : 380 V 50 Hz 2P IE3 Performance Rated current : 7.24 A Moment of inertia (J) : 0.4665 sq.ft.lb **LRC** : 8.2 Duty cycle : Cont.(S1) Rated torque : 8.93 ft.lb Insulation class : F Locked rotor torque : 260 % Service factor : 1.25 : 80 K Breakdown torque : 380 % Temperature rise Rated speed : 2940 rpm : B Design

Locked rotor tim	e : 54	4s (cold) 30s (hot)			
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#### Three Phase Induction Motor - Squirrel Cage

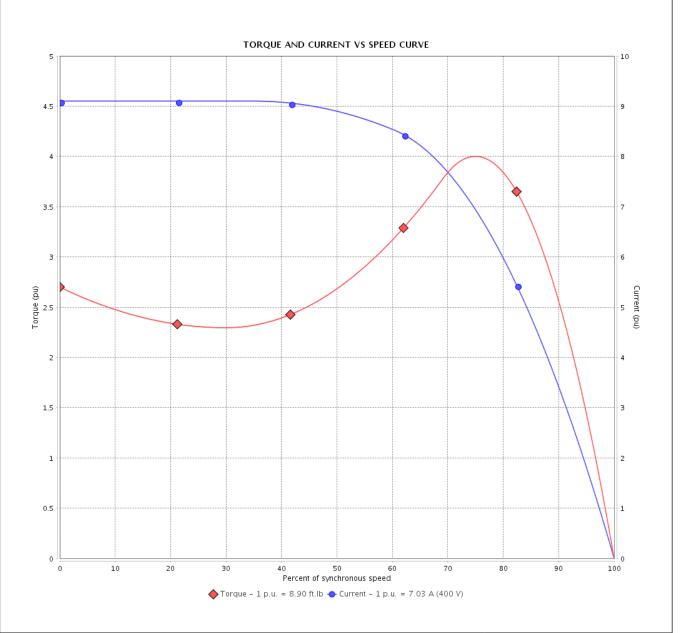


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12378983

Phase

Catalog #: 00736ST3QIE213TC-W22



Performance : 400 V 50 Hz 2P IE3 Rated current : 7.03 A Moment of inertia (J) : 0.4665 sq.ft.lb **LRC** : 9.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 8.90 ft.lb : F Locked rotor torque : 290 % Service factor : 1.25 Breakdown torque : 420 % Temperature rise : 80 K Rated speed : 2950 rpm Design : B

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: 12378983 Catalog #: 00736ST3QIE213TC-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5

Performance : 415 V 50 Hz 2P IE3 Rated current : 6.92 A Moment of inertia (J) : 0.4665 sq.ft.lb **LRC** : 9.7 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 8.90 ft.lb Locked rotor torque : 320 % Service factor : 1.25 Breakdown torque : 450 % Temperature rise : 80 K Rated speed : 2952 rpm Design : B

Percent of synchronous speed 🔷 Torque – 1 p.u. = 8.90 ft.lb 🔷 Current – 1 p.u. = 6.92 A (415 V)

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

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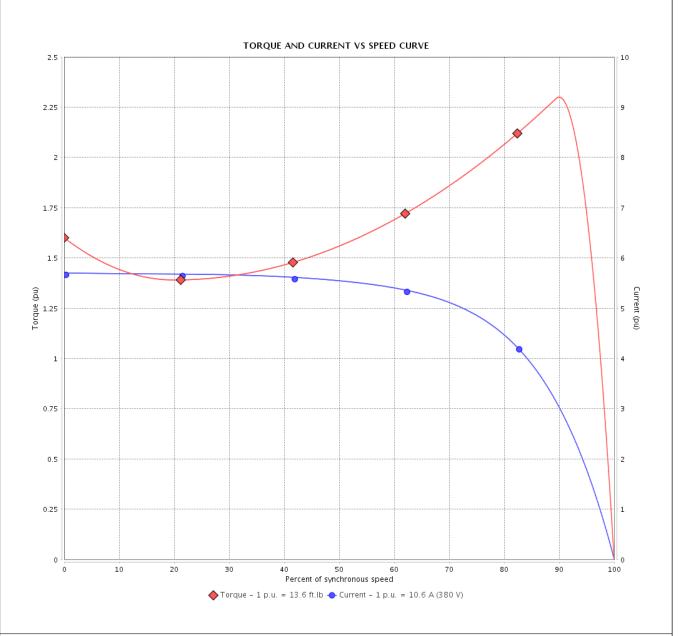


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12378983

Phase

Catalog #: 00736ST3QIE213TC-W22



Performance : 380 V 50 Hz 2P IE2 Rated current : 10.6 A Moment of inertia (J) : 0.4665 sq.ft.lb **LRC** : 5.7 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 13.6 ft.lb Service factor Locked rotor torque : 170 % : 1.25 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 2895 rpm Design : B

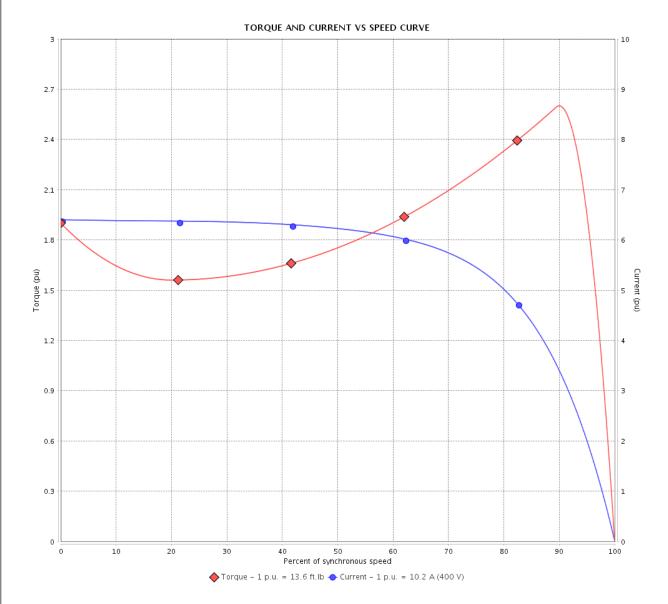
Locked rotor time : 36s (cold) 20s (hot)

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#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12378983 Catalog #: 00736ST3QIE213TC-W22



Performance : 400 V 50 Hz 2P IE2 Rated current : 10.2 A Moment of inertia (J) : 0.4665 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 13.6 ft.lb : 1.25 Locked rotor torque : 190 % Service factor Breakdown torque : 260 % Temperature rise : 80 K : B Rated speed : 2905 rpm Design Locked rotor time : 36s (cold) 20s (hot)

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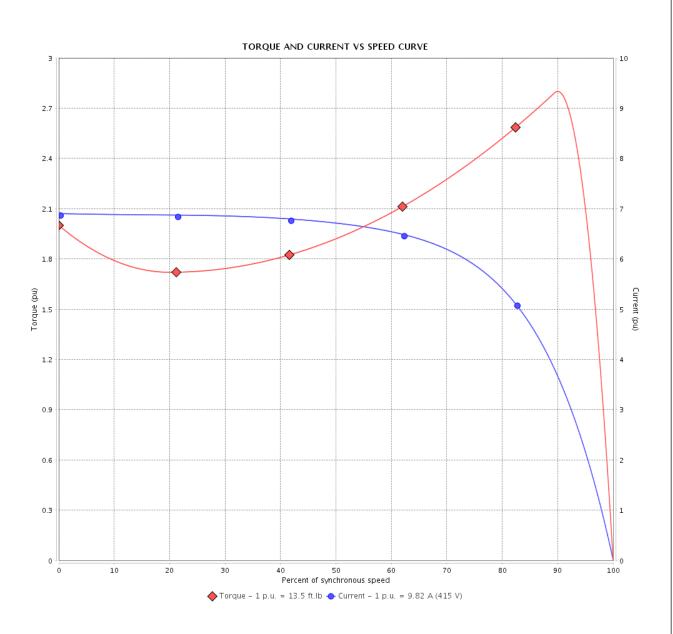
Customer :

Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

Product code: 12378983

Catalog #: 00736ST3QIE213TC-W22



Performance	: 415 V 50 Hz 2P IE2			
Rated current LRC	: 9.82 A : 6.9	Moment of inertia (J) Duty cycle	: 0.4665 sq.ft.lb : Cont.(S1)	
Rated torque	: 13.5 ft.lb	Insulation class	: F	
Locked rotor torque	: 210 %	Service factor	: 1.25	
Breakdown torque	: 280 %	Temperature rise	: 80 K	
Rated speed	: 2915 rpm	Design	: B	
Locked rotor time	· 36s (cold) 20s (hot)			

Locked rotor time : 36s (cold) 20s (hot)

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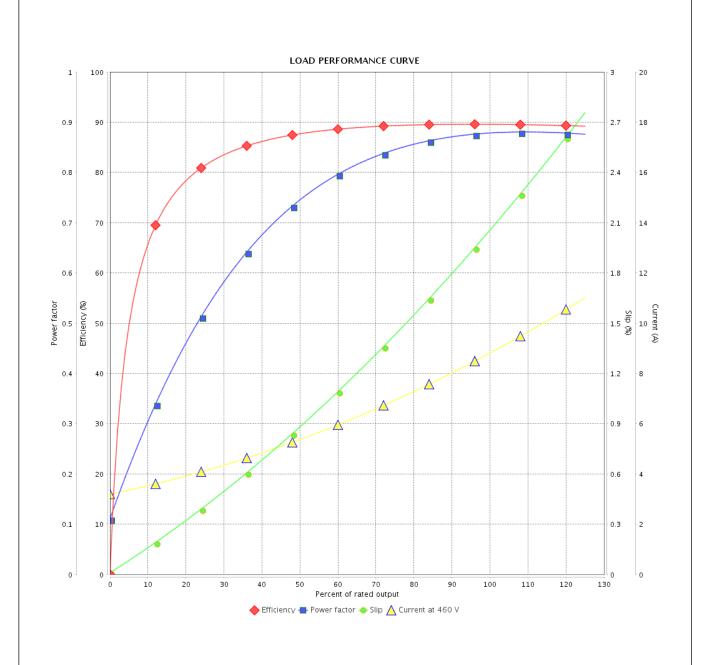


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12378983

Phase

Catalog #: 00736ST3QIE213TC-W22



Performance	. 1	60 V 60 Hz 2P			,	
renomiance	. 4	00 V 00 HZ ZF	1			
Rated current	: 8	.76 A	Moment o	f inertia (J)	: 0.4665 sq.ft.	lb
LRC	: 7	.2	Duty cycle	)	: Cont.(S1)	
Rated torque	: 1	1.2 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	10 %	Service fa	ctor	: 1.25	
Breakdown torque	: 3	00 %	Temperati	ıre rise	: 80 K	
Rated speed	: 3	520 rpm	Design		: B	
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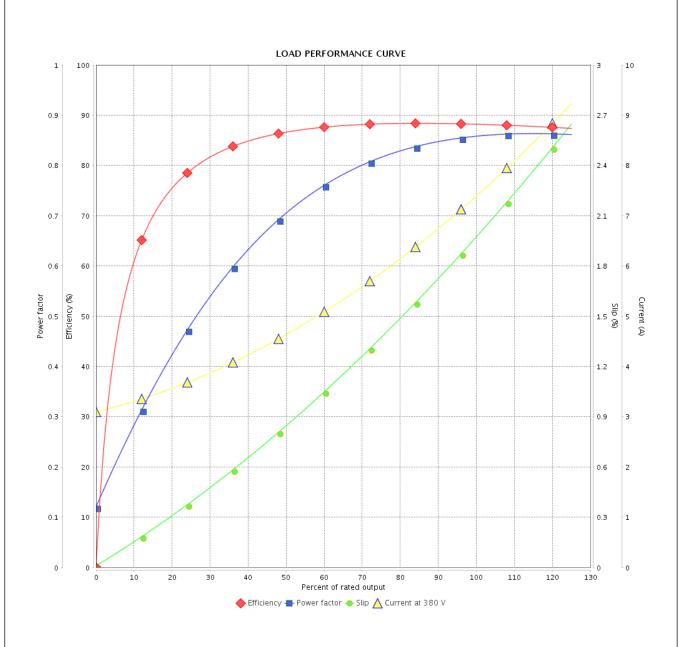
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12378983

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Performance	: 380 V 50 Hz 2P IE3				
Rated current	: 7.24 A	Moment of	inertia (J)	: 0.4665 sq.ft.	lb
LRC	: 8.2	Duty cycle		: Cont.(S1)	
Rated torque	: 8.93 ft.lb	Insulation of	class	: F	
Locked rotor torque	: 260 %	Service fac	tor	: 1.25	
Breakdown torque	: 380 %	Temperatui	re rise	: 80 K	
Rated speed	: 2940 rpm	Design		: B	
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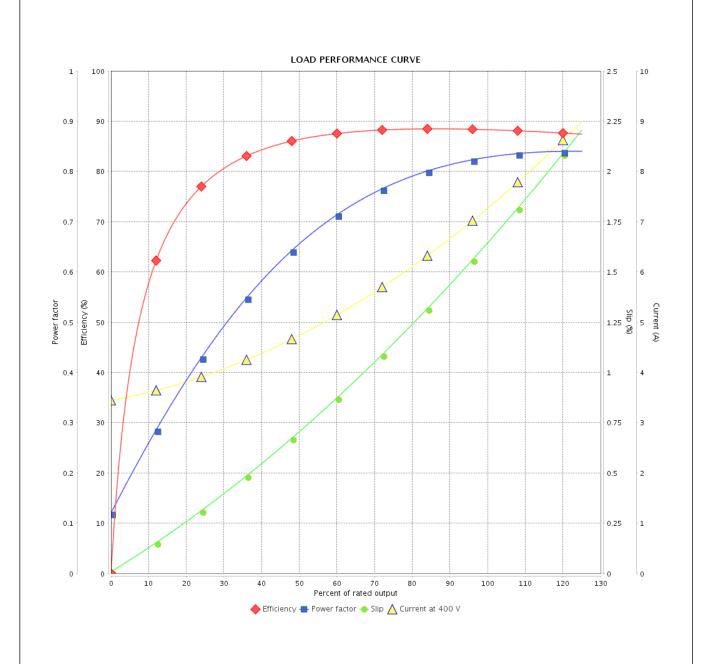
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Product line : NEMA Premium Efficiency Three- Product code : 12378983

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Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.03 A : 9.1 : 8.90 ft.lb : 290 % : 420 % : 2950 rpm	Moment of in Duty cycle Insulation of Service fact Temperature Design	lass	: 0.4665 sq.ft.l : Cont.(S1) : F : 1.25 : 80 K : B	lb
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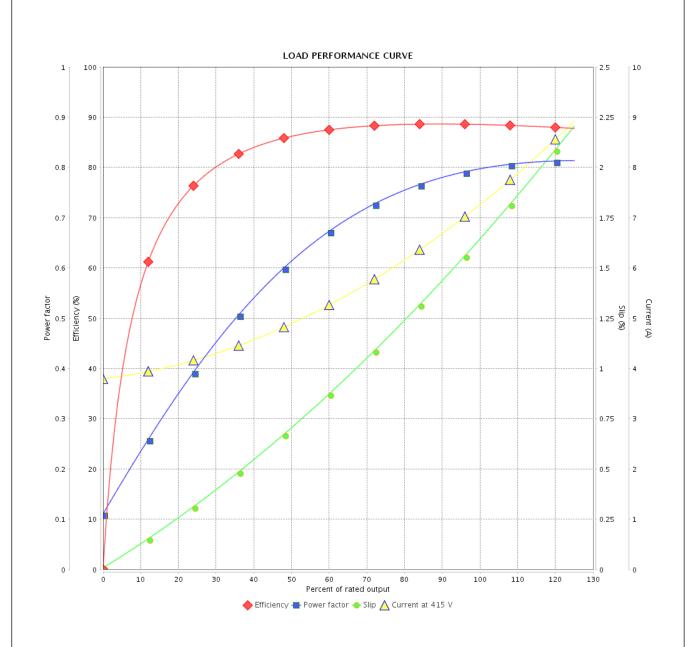
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Product line : NEMA Premium Efficiency Three-Product code: 12378983

Catalog #: 00736ST3QIE213TC-W22



Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.92 A : 9.7 : 8.90 ft.lb : 320 % : 450 % : 2952 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 0.4665 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
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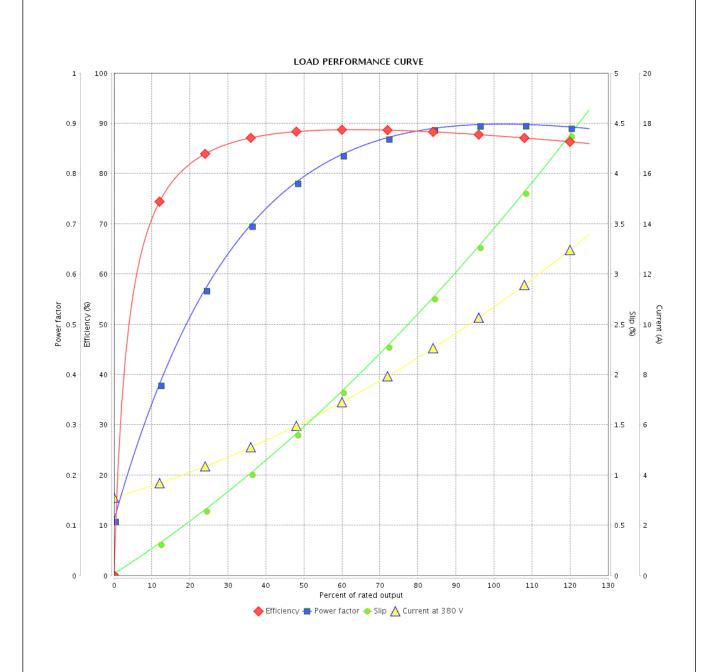


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12378983

Phase

Catalog #: 00736ST3QIE213TC-W22



Performance	: 3	80 V 50 Hz 2P IE2				
Rated current	ated current : 10.6 A		Moment of	Moment of inertia (J)		.lb
LRC	: 5	.7	Duty cycle	)	: Cont.(S1)	
Rated torque	: 1	3.6 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 1°	70 %	Service fa	ctor	: 1.25	
Breakdown torque	e : 2:	29 %	Temperat	Temperature rise		
Rated speed	: 2	895 rpm	Design		: B	
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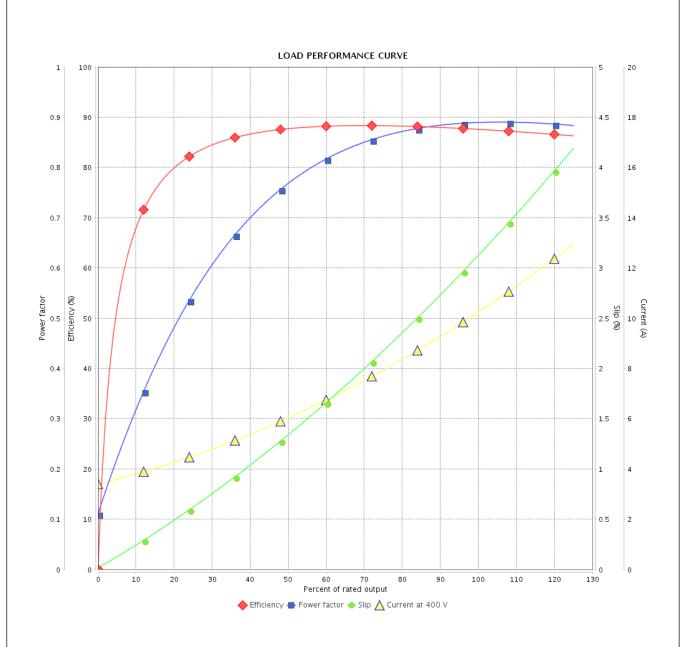
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Performance : 400 V 50 Hz 2P IE2 : 10.2 A Rated current Moment of inertia (J) : 0.4665 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 13.6 ft.lb Insulation class Rated torque : F Locked rotor torque : 190 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 2905 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

### Three Phase Induction Motor - Squirrel Cage

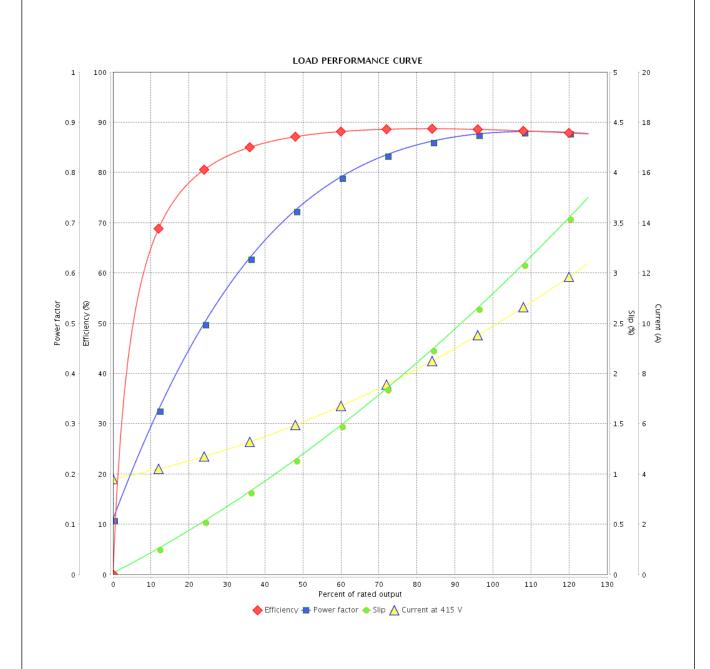


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Product line : NEMA Premium Efficiency Three- Product code : 12378983

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Catalog #: 00736ST3QIE213TC-W22



Performance	:	415 V 50 Hz 2P IE2				
Rated current	:	9.82 A	Moment o	f inertia (J)	: 0.4665 sq.ft.	lb
LRC	:	6.9	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	:	13.5 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	210 %	Service fa	ctor	: 1.25	
Breakdown torque	:	280 %	Temperati	ıre rise	: 80 K	
Rated speed	:	2915 rpm	Design		: B	
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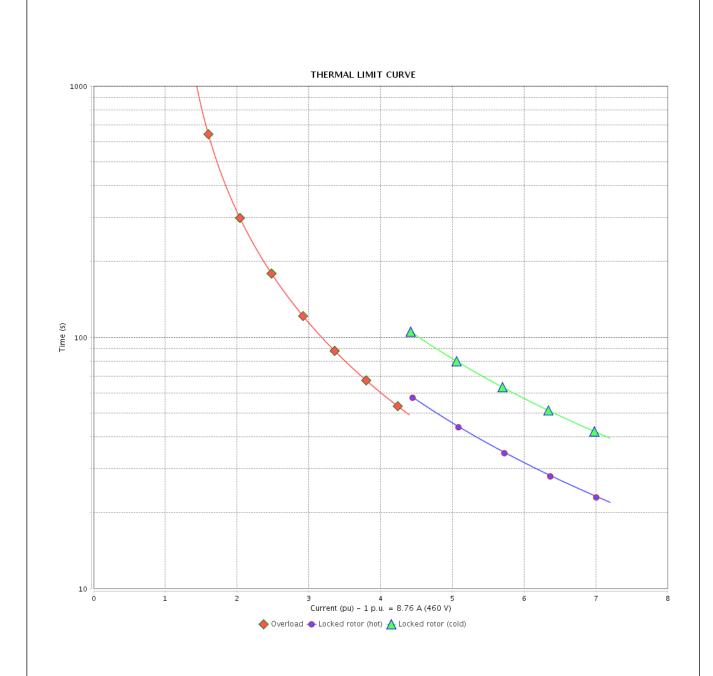


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12378983 00736ST3QII	E213TC-W22
Performance		: 460 V 60 Hz 2P				
Rated current LRC		: 8.76 A : 7.2	Duty cycle		: 0.4665 sq.ft.l : Cont.(S1)	b
Rated torque Locked rotor tord		: 11.2 ft.lb : 210 %	Insulation Service fa		: F : 1.25	
Breakdown torqu	ue	: 300 %	Temperat		: 80 K	
Rated speed		: 3520 rpm	Design		: B	
Heating constant						
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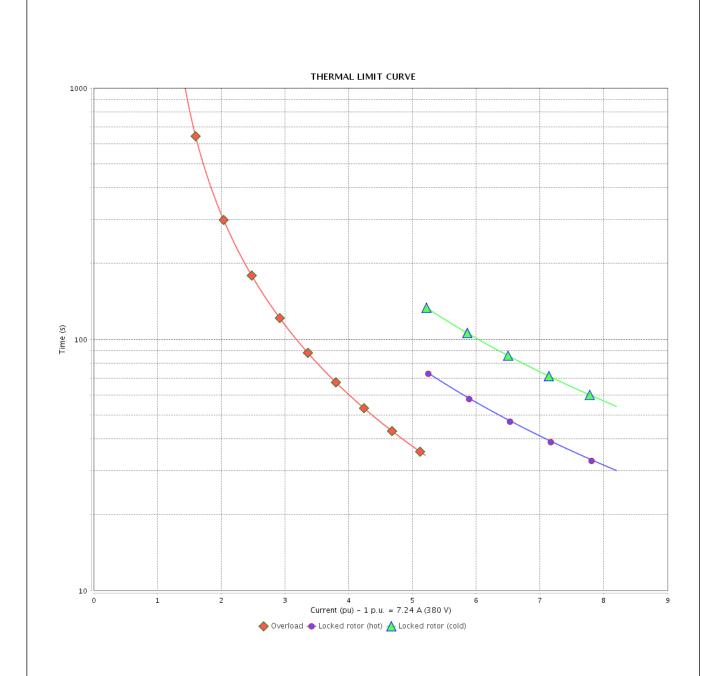


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Product line		NEMA Premium Efficiency hase	/ Three-	Product code :	12378983	
		nase		Catalog # :	00736ST3QI	E213TC-W22
Performance		80 V 50 Hz 2P IE3				
Rated current LRC	: 7. : 8.	24 A	Moment o	of inertia (J)	: 0.4665 sq.ft.l	b
Rated torque	: 8.	93 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torque		60 % 80 %	Service fa Temperati		: 1.25 : 80 K	
Breakdown torque Rated speed		940 rpm	Design	uic lisc	: B	
Heating constant						
Cooling constant						
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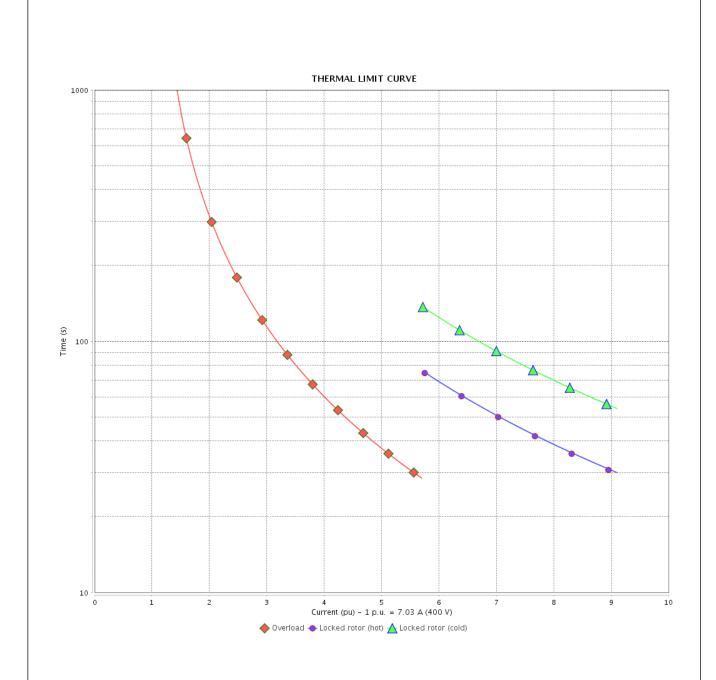


Customer		:				
Product line		: NEMA Premium Efficiency <sup>-</sup> Phase		Product code :	12378983 00736ST3QI	E213TC-W22
Performance Rated current LRC Rated torque Locked rotor toro Breakdown torque Rated speed	ine ::	400 V 50 Hz 2P IE3 7.03 A 9.1 8.90 ft.lb 290 % 420 % 2950 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.4665 sq.ft.l : Cont.(S1) : F : 1.25 : 80 K : B	b
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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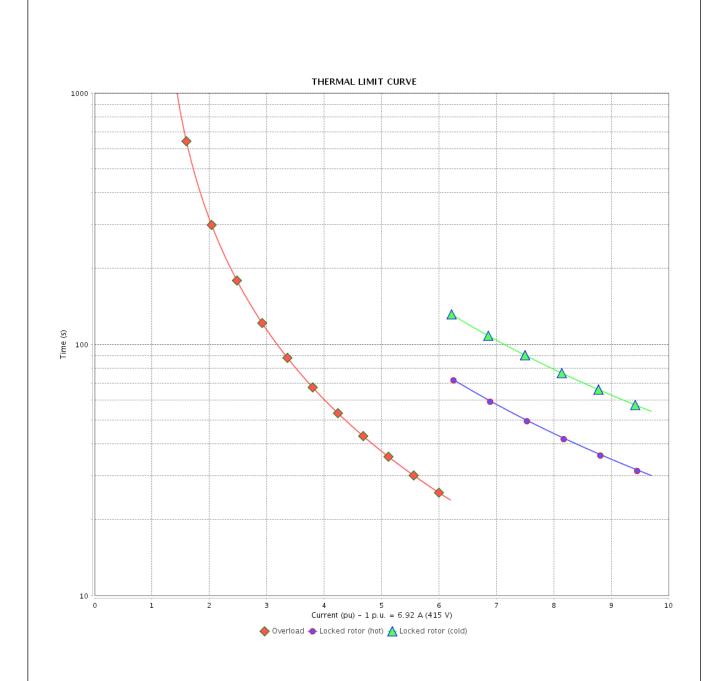


Customer	:			·	
Product line	: NEMA Premium Efficie Phase		Product code : Catalog # :	12378983 00736ST3QI	E213TC-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 415 V 50 Hz 2P IE3 : 6.92 A : 9.7 : 8.90 ft.lb : 320 % : 450 % : 2952 rpm	Moment of Duty cycle Insulation Service far Temperat Design	class actor	: 0.4665 sq.ft.l : Cont.(S1) : F : 1.25 : 80 K : B	b
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### Three Phase Induction Motor - Squirrel Cage

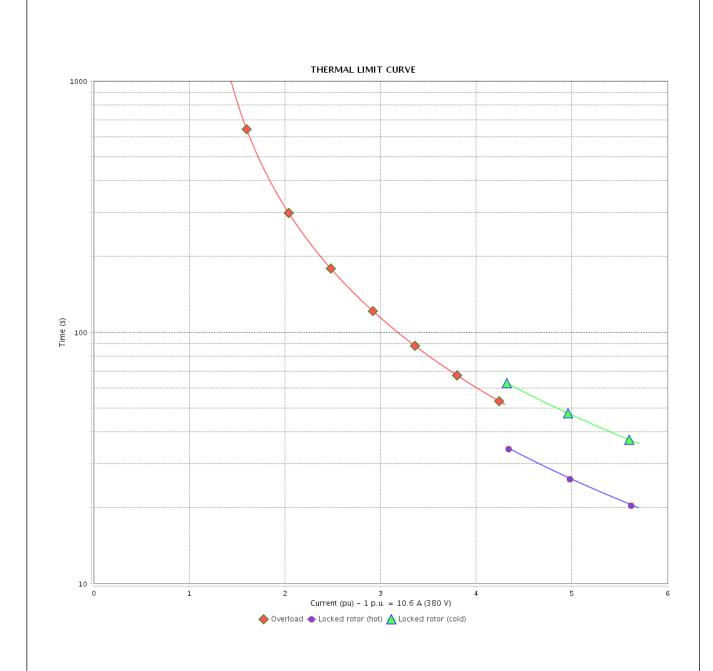


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12378983 00736ST3QII	E213TC-W22
Performance		: 380 V 50 Hz 2P IE2				
Rated current LRC Rated torque		: 10.6 A : 5.7 : 13.6 ft.lb	Duty cycle Insulation	class	: 0.4665 sq.ft.l : Cont.(S1) : F	b
Locked rotor tord Breakdown torqu Rated speed	ie :	: 170 % : 229 % : 2895 rpm	Service fa Temperat Design		: 1.25 : 80 K : B	
Heating constant		•	- J.:			
Cooling constant	t					
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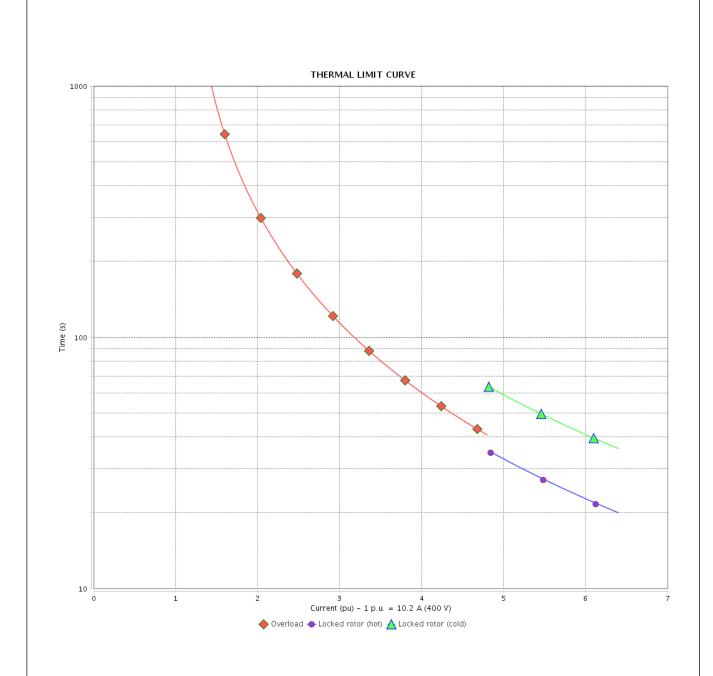


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12378983 00736ST3QII	E213TC-W22
Performance		: 400 V 50 Hz 2P IE2				
Rated current LRC		: 10.2 A : 6.4	Duty cycle		: 0.4665 sq.ft.ll : Cont.(S1)	b
Rated torque Locked rotor torc		: 13.6 ft.lb : 190 %	Insulation Service fa		: F : 1.25	
Breakdown torqu		: 260 %	Temperat		: 1.25 : 80 K	
Rated speed		: 2905 rpm	Design		: B	
Heating constant						
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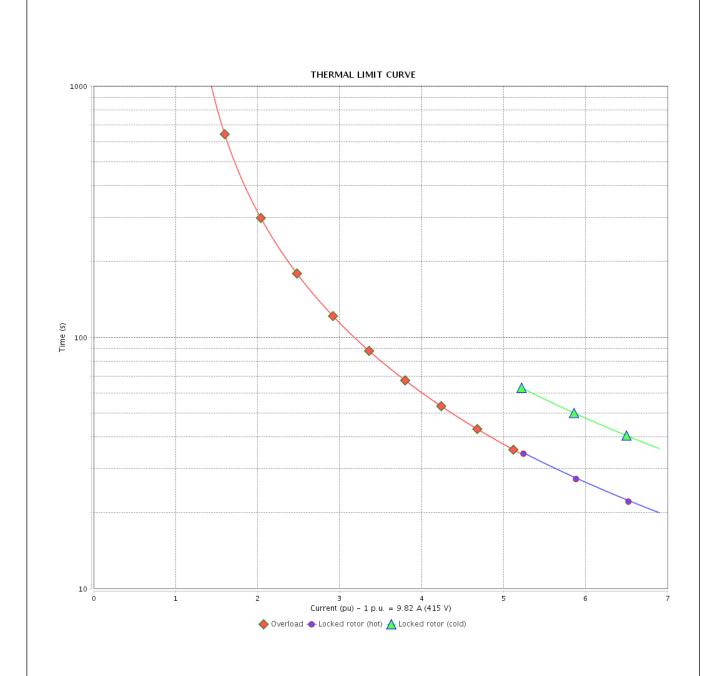


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	12378983 00736ST3QI	E213TC-W22
Performance	: 415 V 50 Hz 2P IE2				
Rated current LRC	: 9.82 A : 6.9	Duty cycle	f inertia (J)	: 0.4665 sq.ft.l : Cont.(S1)	b
Rated torque Locked rotor torque	: 13.5 ft.lb : 210 %	Insulation Service fa		: F : 1.25	
Breakdown torque Rated speed	: 280 % : 2915 rpm	Temperatu Design		: 80 K : B	
Heating constant					
Cooling constant  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-

Phase

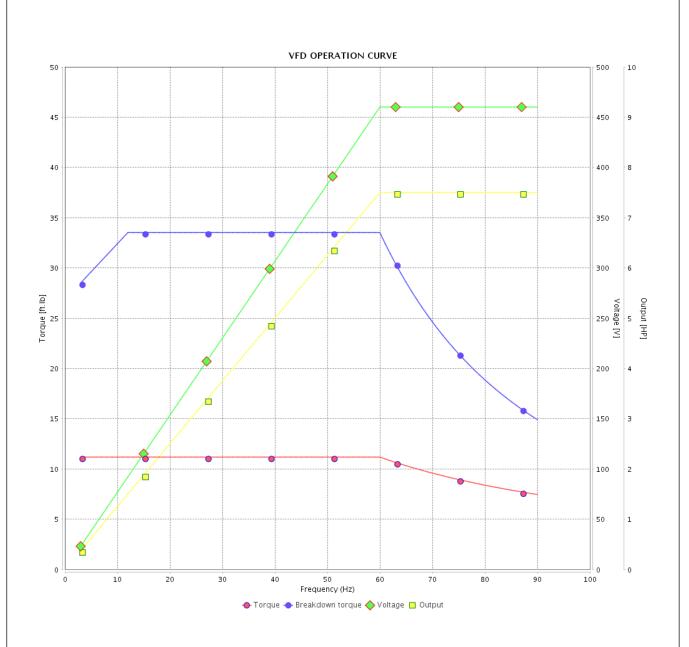
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Performance : 460 V 60 Hz 2P							
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 8.76 A : 7.2 : 11.2 ft.lb : 210 % : 300 % : 3520 rpm	Duty cyc Insulation Service f	Moment of inertia (J) : 0.4665 sq.ft.lb  Duty cycle : Cont.(S1)  Insulation class : F  Service factor : 1.25  Temperature rise : 80 K  Design : B			
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### Three Phase Induction Motor - Squirrel Cage

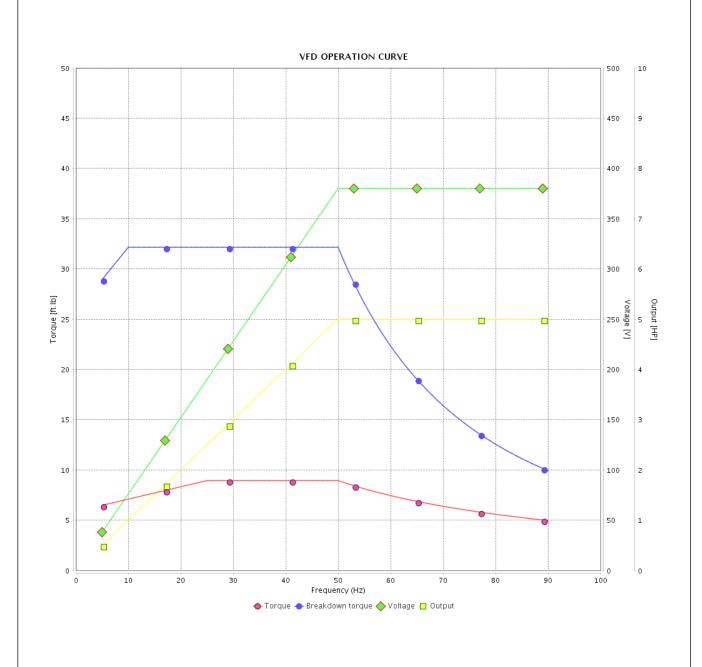


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Product line : NEMA Premium Efficiency Three- Product code : 12378983

Phase

Catalog #: 00736ST3QIE213TC-W22



Performance	: 380 V 50 Hz 2P IE3						
Rated current	ated current : 7.24 A		Moment o	nent of inertia (J) : 0.46		4665 sq.ft.lb	
LRC	: 8	.2	Duty cycle	;	: Cont.(S1)		
Rated torque	: 8	.93 ft.lb	Insulation	Insulation class			
Locked rotor torqu	ue : 2	60 %	Service fa	ctor	: 1.25		
Breakdown torque		80 %	Temperati	Temperature rise : 80 K			
Rated speed	: 2	940 rpm	Design		: B		
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Product line : NEMA Premium Efficiency Three- Produ

Phase

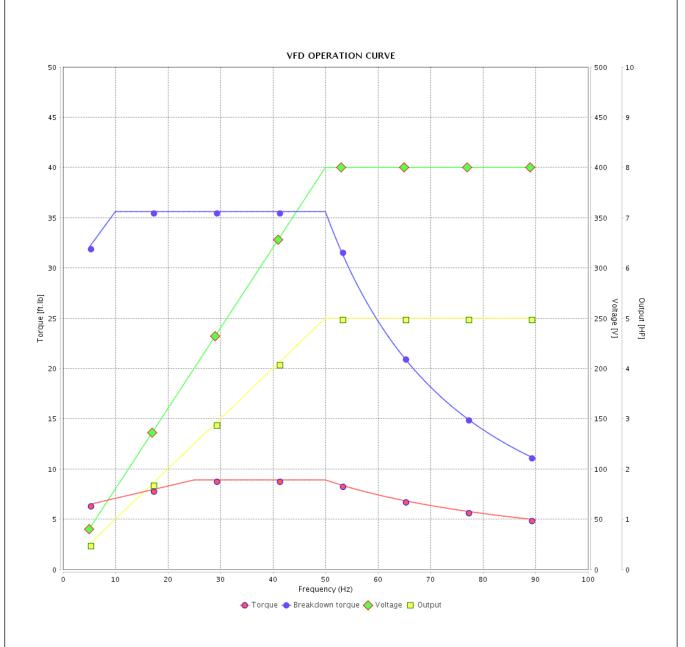
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Performance : 400 V 50 Hz 2P IE3			2P IE3				
LRC : Rated torque : Locked rotor torque : Breakdown torque :		: 7.03 A : 9.1 : 8.90 ft.lb : 290 % : 420 % : 2950 rpm		Moment of inertia (J) : 0.4665 sq.ft.lb  Duty cycle : Cont.(S1)  Insulation class : F  Service factor : 1.25  Temperature rise : 80 K  Design : B			lb
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### Three Phase Induction Motor - Squirrel Cage

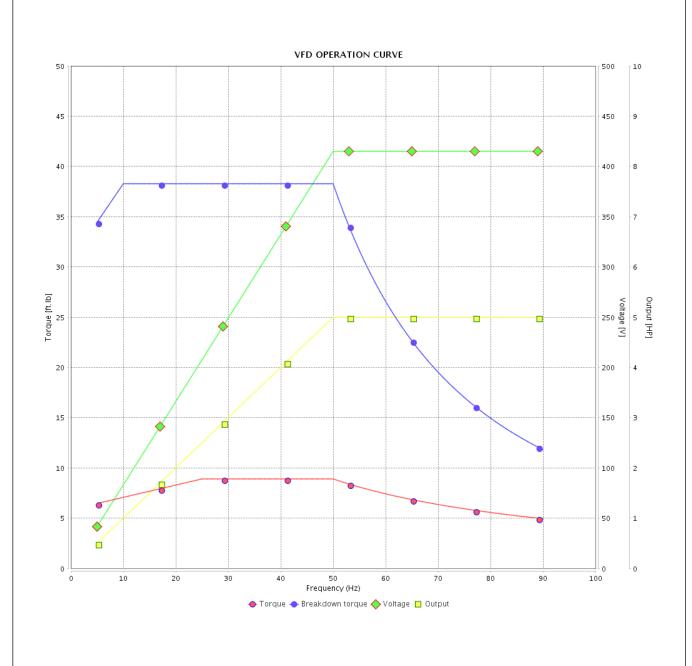


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Product line : NEMA Premium Efficiency Three- Product code : 12378983

Phase

Catalog #: 00736ST3QIE213TC-W22



Performance : 415 V 50 Hz 2P IE3						
Rated current : 6.92 A		6.92 A	Moment o	Moment of inertia (J) : 0.4665 sq		.lb
LRC	: 9	9.7	Duty cycle	Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.25 Temperature rise : 80 K Design : B  Performed Checked Date		
Rated torque Locked rotor torque		8.90 ft.lb	Insulation	Insulation class : F Service factor : 1.25 Temperature rise : 80 K Design : B		
		320 %	Service fa	Insulation class : F Service factor : 1.25 Temperature rise : 80 K Design : B  Performed Checked Date  Page Revision		
Breakdown torque	e : 4	450 %	Temperat	Temperature rise : 80 K		
Rated speed	::	2952 rpm	Design		: B	
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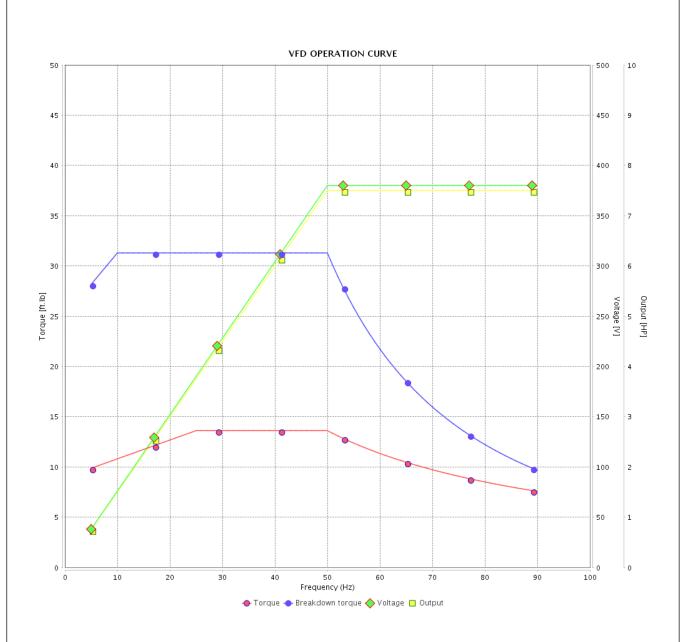
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Performance : 380 V 50 Hz 2P IE2 : 10.6 A Rated current Moment of inertia (J) : 0.4665 sq.ft.lb **LRC** : 5.7 Duty cycle : Cont.(S1) : 13.6 ft.lb Insulation class : F Rated torque Locked rotor torque : 170 % Service factor : 1.25 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 2895 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

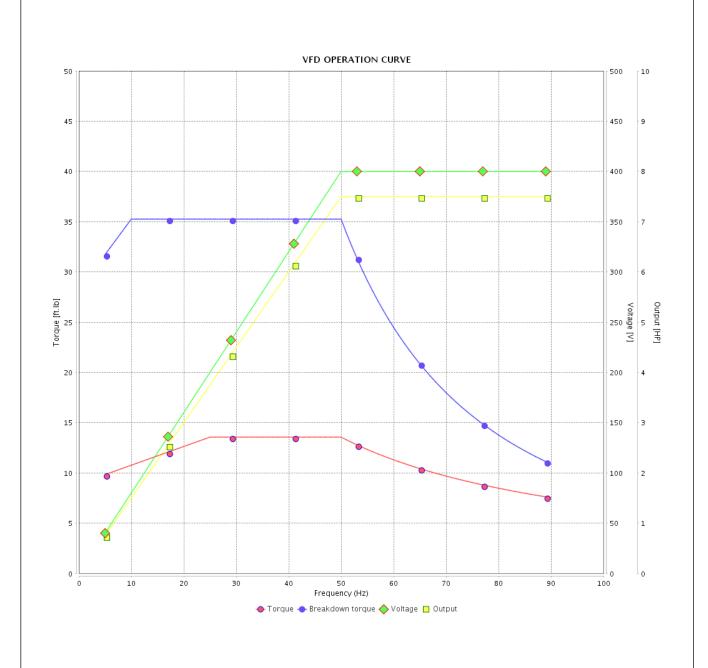
### Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three-Product code: 12378983

Catalog #: 00736ST3QIE213TC-W22



Performance	formance : 400 V 50 Hz 2P IE2						
Rated current	Rated current : 10.2 A		Moment o	of inertia (J)	: 0.4665 sq.ft.lb		
LRC	: 6.	.4	Duty cycle	•	: Cont.(S1)	,	
Rated torque		3.6 ft.lb	Insulation	class	: F		
Locked rotor torqu	ue : 19	90 %	Service fa	ictor	: 1.25	· · · <del>- ·</del>	
Breakdown torque	e : 20	60 %	Temperati	ure rise	: 80 K		
Rated speed	: 29	905 rpm	Design		: B		
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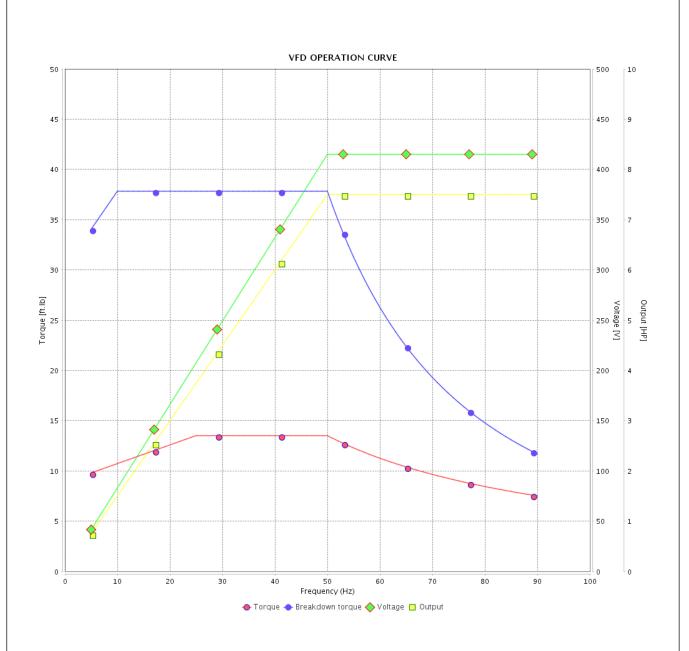
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Performance	:	415 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	iue :	9.82 A 6.9 13.5 ft.lb 210 % 280 % 2915 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.4665 sq.ft.I : Cont.(S1) : F : 1.25 : 80 K : B	b
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