### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12376409

Catalog #: 00312ST3QIE213T-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 Starting method Ambient temperature : Direct On Line

Altitude · 1000 m a s l · 168 lb Approx. weight3

Aititude				ox. weight 168 ib				
Protection degre	е	: IP55	Moment of inc	ertia (J) : 1.20	sq.ft.lb			
Design		: B						
Output [HP]		3	3	3 3				
Poles		6	6	6	6			
Frequency [Hz]		60	50	50	50			
Rated voltage [V]		460	380	400	415			
Rated current [A]		4.41	5.09	4.92	4.87			
L. R. Amperes [A]		30.9	29.5	31.5	33.1			
LRC [A]		7.0x(Code K)	5.8x(Code H)	6.4x(Code J)	6.8x(Code J)			
No load current [A	.]	2.75	2.72	2.91	3.05			
Rated speed [RPI	Л]	1175	965	970	970			
Slip [%]		2.08	3.50	3.00	3.00			
Rated torque [ft.lb	]	13.4	16.3	16.3 16.2				
Locked rotor torqu	ie [%]	200	170	200	220			
Breakdown torque	: [%]	280	210					
Service factor		1.25	1.00 1.00		1.00			
Temperature rise		80 K	80 K	80 K	80 K			
Locked rotor time		104s (cold) 58s (hot)	72s (cold) 40s (hot)	72s (cold) 40s (hot)	72s (cold) 40s (hot)			
Noise level <sup>2</sup>		55.0 dB(A)	53.0 dB(A)	53.0 dB(A)	53.0 dB(A)			
	25%							
Efficiency (%)	50%	86.5	87.5	86.5	86.5			
Efficiency (70)	75%	88.5	88.5	88.5	88.5			
	100%	89.5	87.5	88.5	88.5			
	25%							
Power Factor	50%	0.50	0.57	0.53	0.50			
I OWEI I ACIOI	75%	0.63	0.70	0.66	0.64			
	100%	0.70	0.75	0.73	0.71			

Drive end Non drive end Foundation loads

Bearing type 6308 C3 6207 C3 Max. traction : 163 lb Sealing Inpro/Seal Inpro/Seal Max. compression : 331 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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#### Three Phase Induction Motor - Squirrel Cage



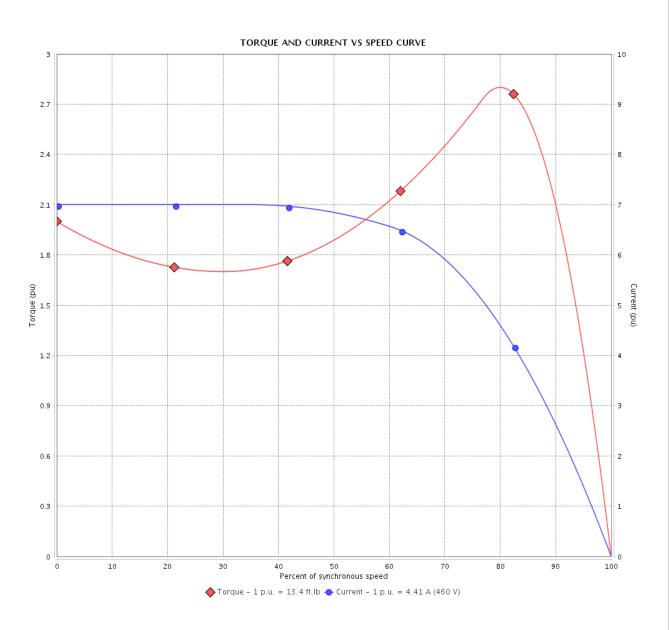
Customer :

Product line : NEMA Premium Efficiency Three- Prod

Phase

Product code: 12376409

Catalog #: 00312ST3QIE213T-W22



Performance : 460 V 60 Hz 6P Rated current : 4.41 A Moment of inertia (J) : 1.20 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 13.4 ft.lb : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1175 rpm Design : B

Locked rotor time : 104s (cold) 58s (hot)

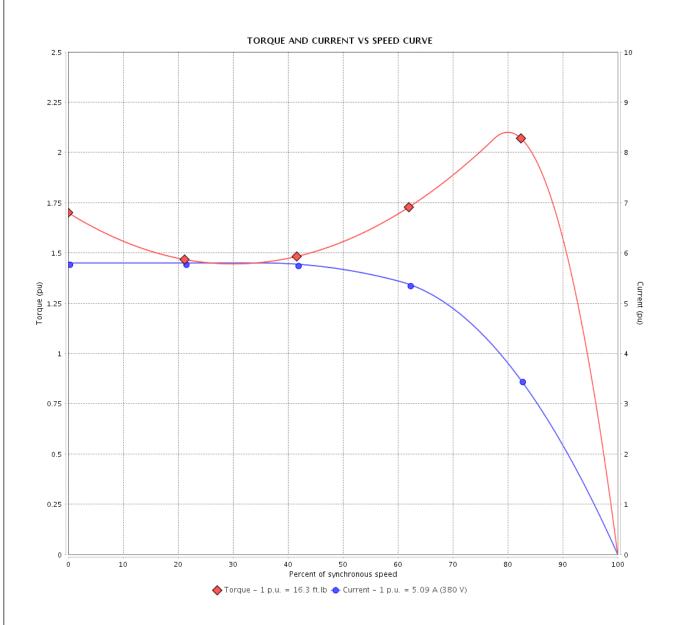
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### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12376409

> Catalog #: 00312ST3QIE213T-W22



Performance	: 380 V 50 Hz 6P IE4		
Rated current	: 5.09 A	Moment of inertia (J)	: 1.20 sq.ft.lb
LRC	: 5.8	Duty cycle	: Cont.(S1)
Rated torque	: 16.3 ft.lb	Insulation class	:F
Locked rotor torque	: 170 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 80 K
Rated speed	: 965 rpm	Design	: B
Locked rotor time	: 72s (cold) 40s (hot)		· · · · · · · · · · · · · · · · · · ·

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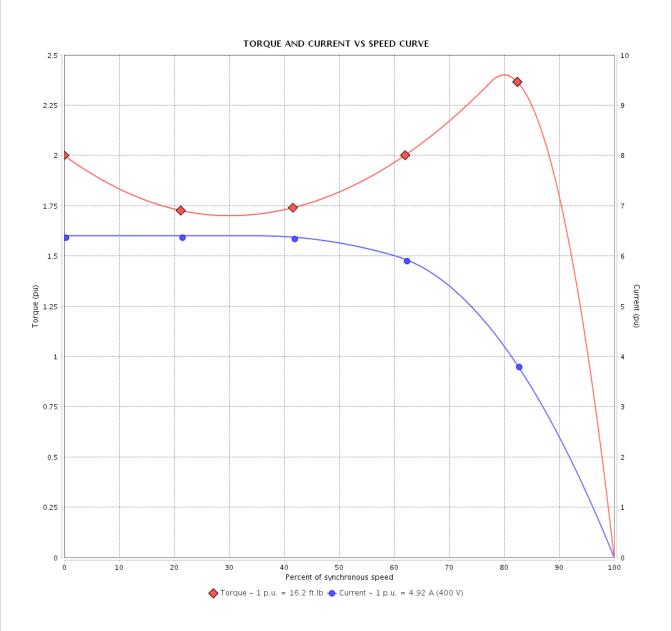
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 00312ST3QIE213T-W22

12376409





Performance : 400 V 50 Hz 6P IE4 Rated current : 4.92 A Moment of inertia (J) : 1.20 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 16.2 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 200 % : 1.00 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 970 rpm Design : B

Locked rotor time : 72s (cold) 40s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12376409 Catalog #: 00312ST3QIE213T-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. = 16.2 ft.lb ◆ Current - 1 p.u. = 4.87 A (415 V) Performance : 415 V 50 Hz 6P IE4 Rated current : 4.87 A Moment of inertia (J) : 1.20 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 16.2 ft.lb : F : 220 % Locked rotor torque Service factor : 1.00 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 970 rpm Design : B Locked rotor time : 72s (cold) 40s (hot) Rev. Performed Checked Date **Changes Summary** 

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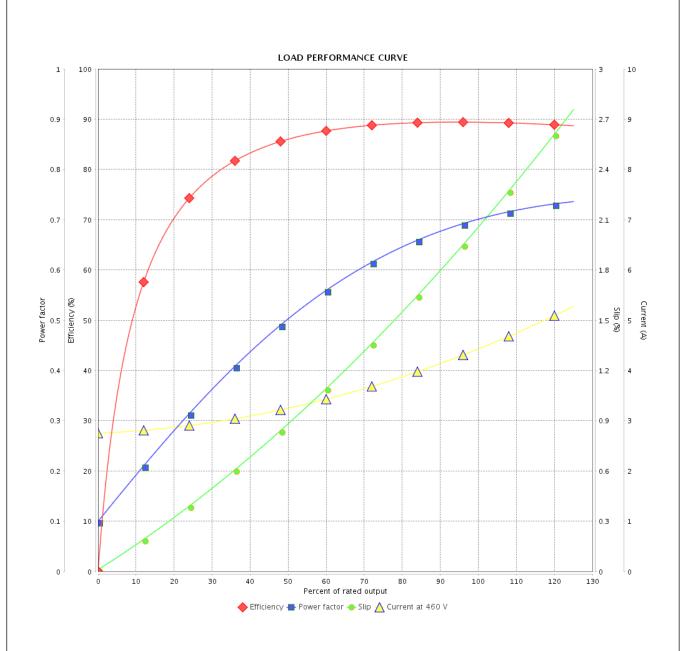
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Phase

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Performance : 460 V 60 Hz 6P Rated current : 4.41 A Moment of inertia (J) : 1.20 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) : 13.4 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1175 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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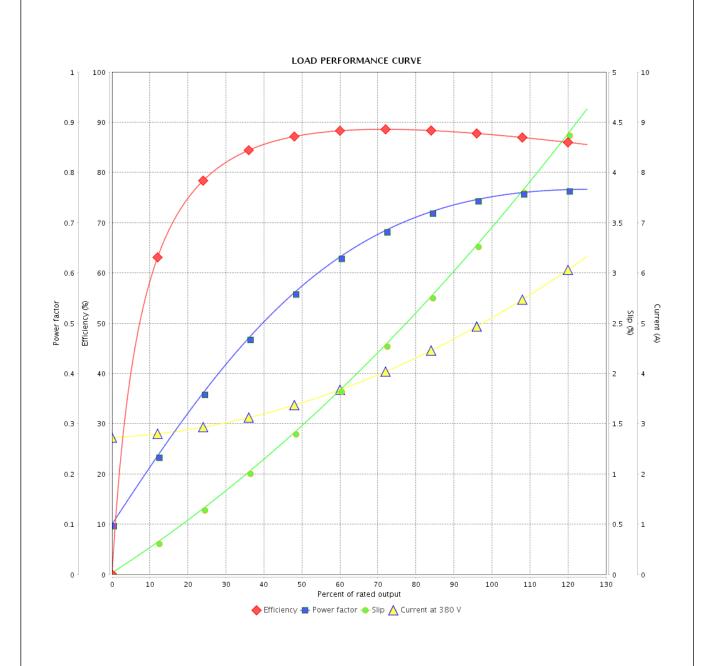


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Product line : NEMA Premium Efficiency Three- Product code : 12376409

Phase

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: 380 V 50 Hz 6P IE4				
: 5.09 A : 5.8 : 16.3 ft.lb : 170 % : 210 % : 965 rpm	Duty cycle Insulation Service fa	e class class	: 1.20 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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_	: 5.09 A : 5.8 : 16.3 ft.lb : 170 % : 210 % : 965 rpm	: 5.09 A	: 5.09 A  : 5.8  : 16.3 ft.lb  : 170 %  : 210 %  : 965 rpm   Moment of inertia (J)  Duty cycle  Insulation class  Service factor  Temperature rise  Design	: 5.09 A       Moment of inertia (J)       : 1.20 sq.ft.lb         : 5.8       Duty cycle       : Cont.(S1)         : 16.3 ft.lb       Insulation class       : F         : 170 %       Service factor       : 1.00         : 210 %       Temperature rise       : 80 K         : 965 rpm       Design       : B

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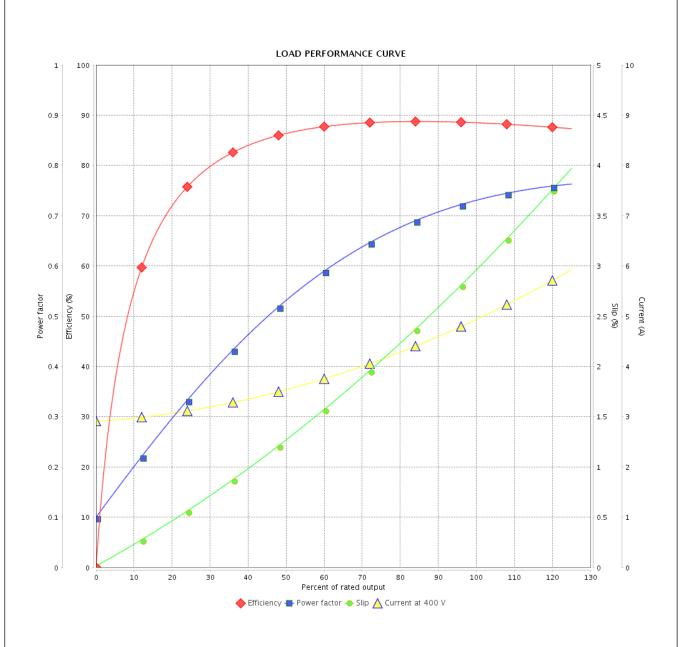
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Performance	: 400 V 50 Hz 6P IE4				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.92 A : 6.4 : 16.2 ft.lb : 200 % : 240 % : 970 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 1.20 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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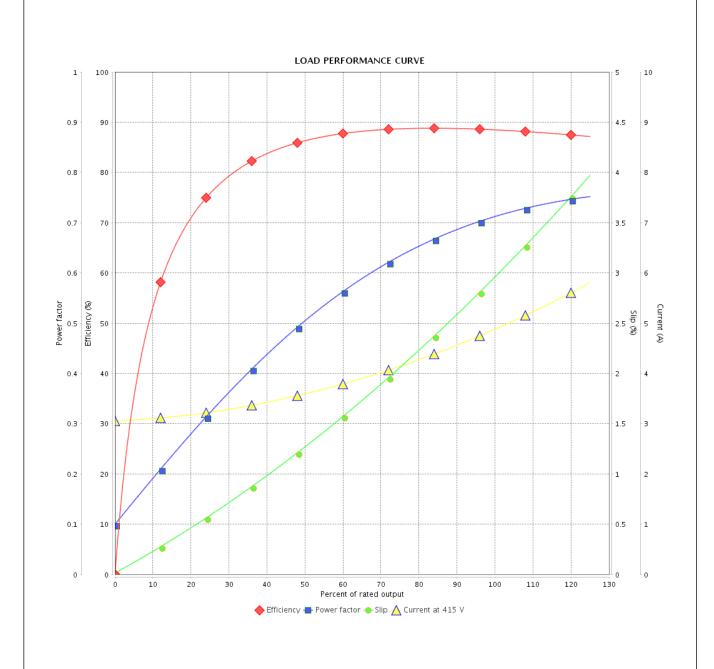
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 12376409

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Performance	: 4	415 V 50 Hz 6P IE4				
Rated current	: 4	.87 A	Moment of inertia (J)		: 1.20 sq.ft.lb	
LRC	: 6	.8	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 1	6.2 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2	20 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 2	70 %	Temperature rise		: 80 K	
Rated speed	: 9	0 rpm Design		: B		
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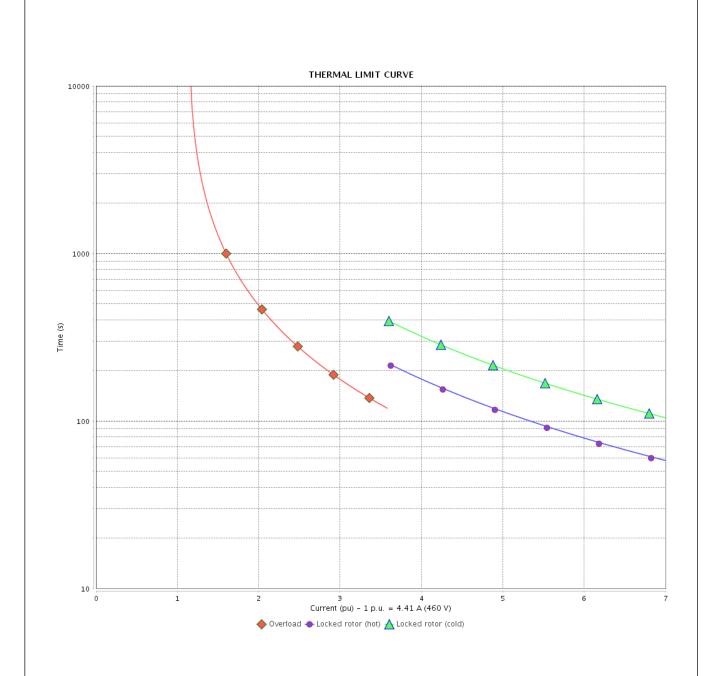


Customer	:				
Product line	: NEMA Premium Efficie Phase	ncy Three-	Product code :	12376409	
	Tildoc		Catalog # :	00312ST3QI	E213T-W22
Performance	: 460 V 60 Hz 6P		<u></u>		
Rated current LRC	: 4.41 A : 7.0	Moment of Duty cycle	of inertia (J) e	: 1.20 sq.ft.lb : Cont.(S1)	
Rated torque	: 13.4 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque	: 200 % : 280 %	Service fa Temperat		: 1.25 : 80 K	
Rated speed	: 1175 rpm	Design		: B	
Heating constant					
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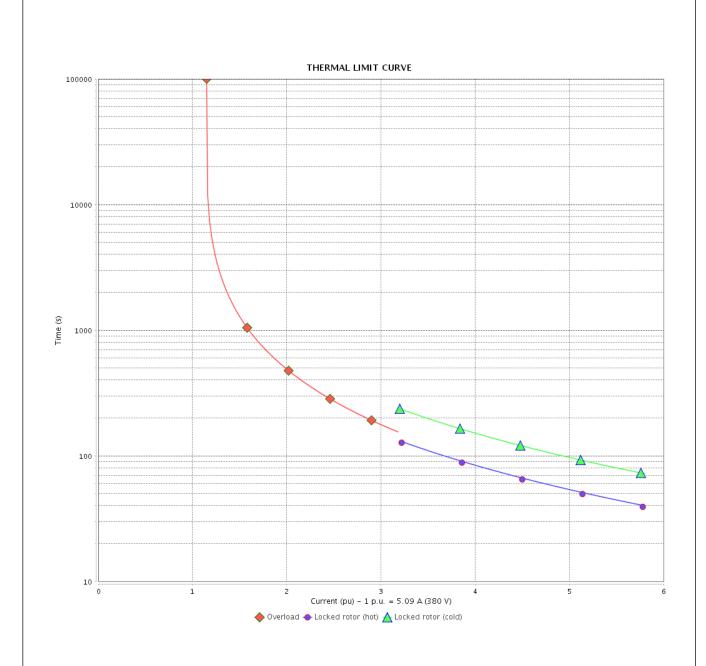


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12376409 00312ST3QIE	E213T-W22
Performance		: 380 V 50 Hz 6P IE4				
Rated current LRC		: 5.09 A : 5.8	Moment of Duty cycle	of inertia (J)	: 1.20 sq.ft.lb : Cont.(S1)	
Rated torque		: 16.3 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 170 % : 210 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 965 rpm	Design		: B	
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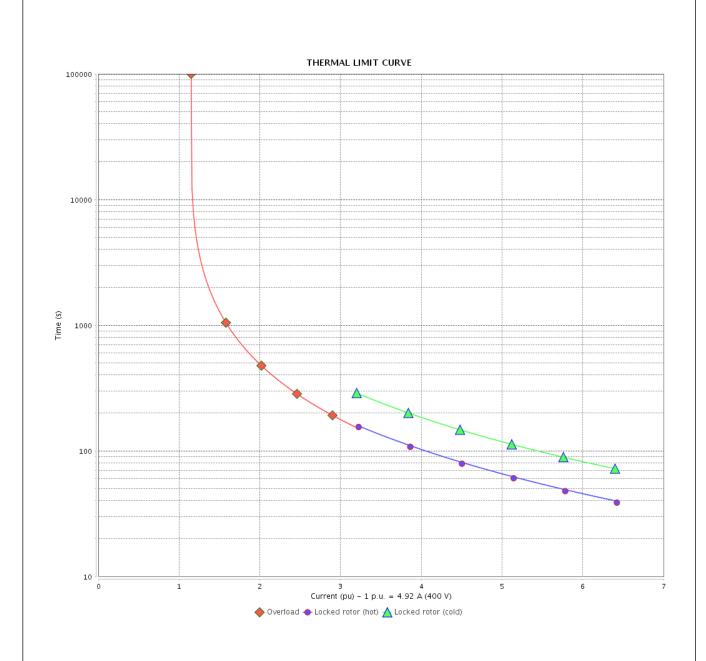


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12376409 00312ST3QIE	:213T-W22
Performance		: 400 V 50 Hz 6P IE4				
Rated current LRC		: 4.92 A : 6.4	Duty cycle		: 1.20 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 16.2 ft.lb : 200 %	Insulation Service fa	class	: F : 1.00	
Breakdown torqu	ue	: 240 %	Temperat		: 80 K	
Rated speed		: 970 rpm	Design		: B	
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Cooling constant	l .	Changes Summary		Performed	Checked	Date
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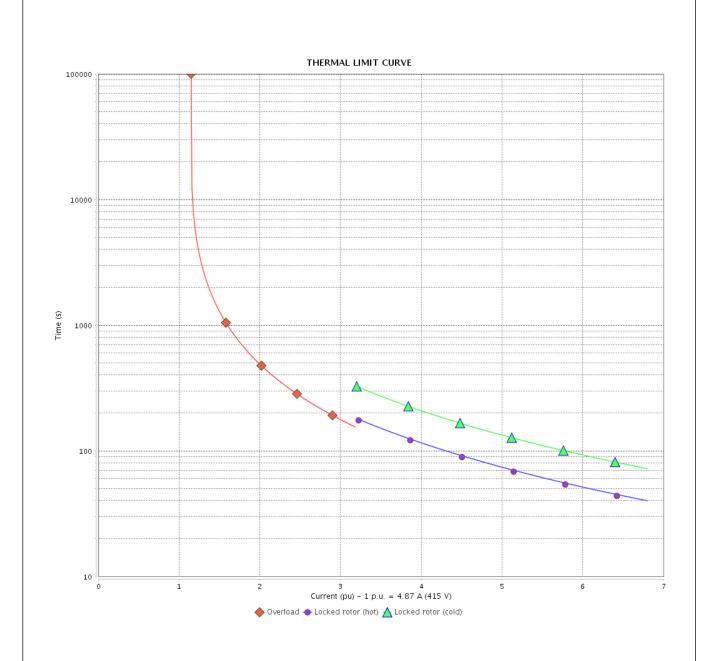


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12376409 00312ST3QIE	:213T-W22
Performance		: 415 V 50 Hz 6P IE4	N4	Construction (II)	4.00 6.11	
Rated current LRC		: 4.87 A : 6.8	Duty cycle		: 1.20 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 16.2 ft.lb : 220 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ie :	: 270 %	Temperat		: 80 K	
Rated speed		: 970 rpm	Design		: B	
Heating constant						
Cooling constant	<b>t</b>	Changes Cumman		Dorform	Charkad	Doto
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Phase

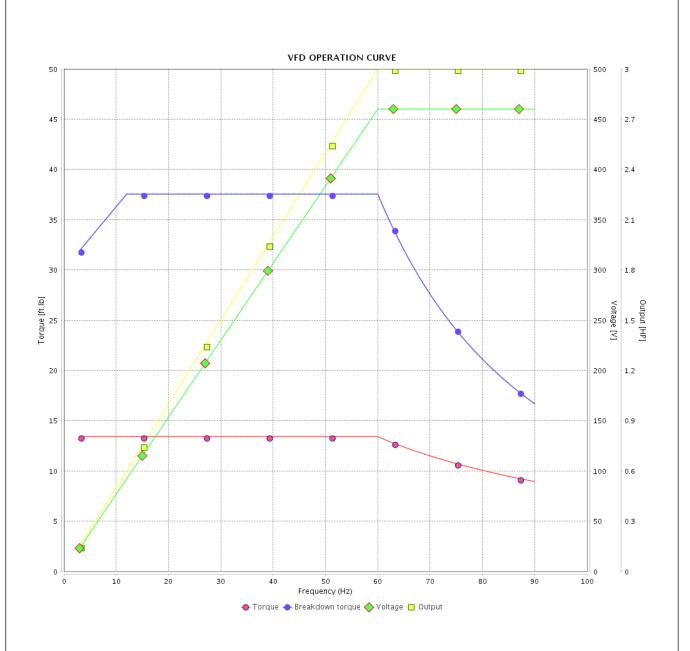
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Performance : 460 V 60 Hz 6P Rated current : 4.41 A Moment of inertia (J) : 1.20 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) : 13.4 ft.lb Insulation class : F Rated torque Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1175 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

### Three Phase Induction Motor - Squirrel Cage



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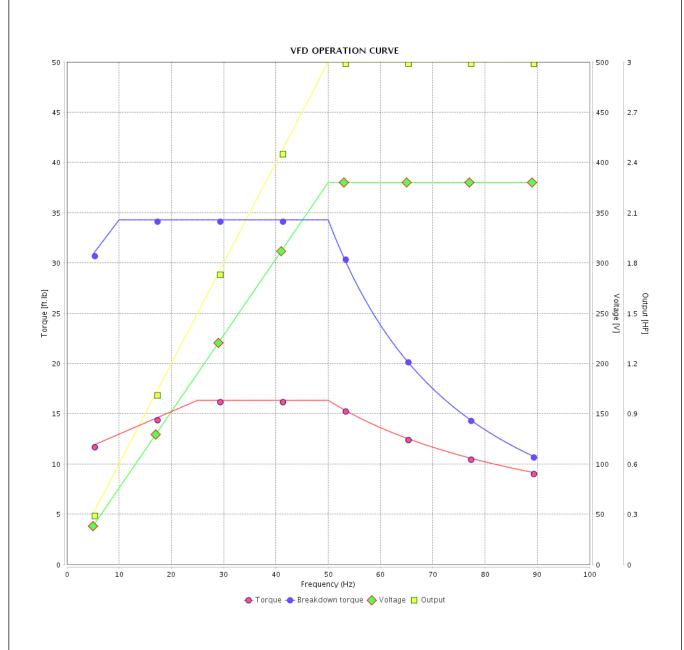
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Performance		: 380 V 50 Hz 6	SP IE4				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 5.09 A : 5.8 : 16.3 ft.lb : 170 % : 210 % : 965 rpm		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.20 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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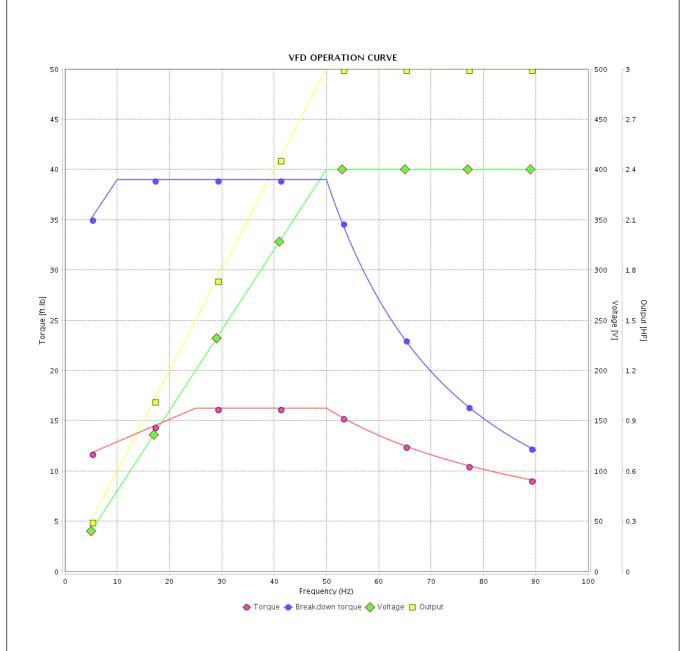
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12376409

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Performance : 400 V 50 Hz 6P IE4 Rated current : 4.92 A Moment of inertia (J) : 1.20 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 16.2 ft.lb Insulation class : F Rated torque Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 970 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

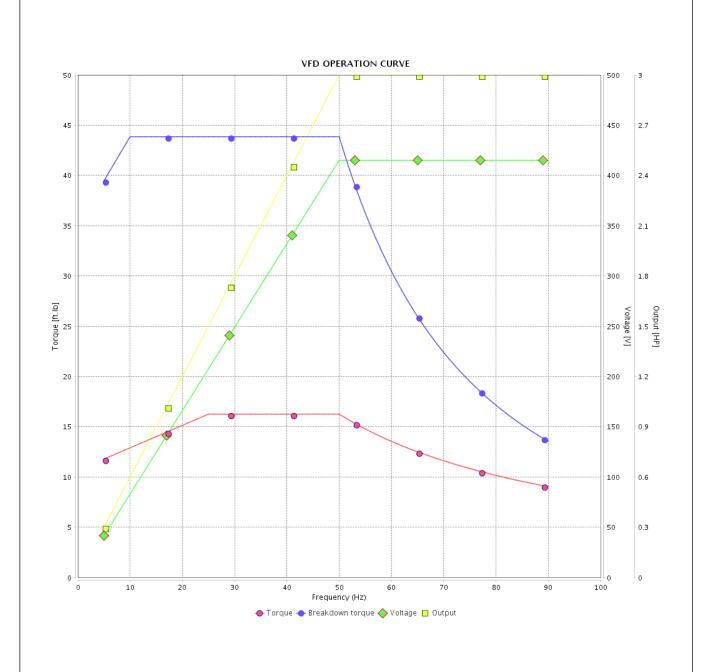
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12376409

Catalog #: 00312ST3QIE213T-W22



Performance	: 4	15 V 50 Hz 6P IE4	Ļ			
Rated current	: 4	1.87 A Moment of i		f inertia (J)	: 1.20 sq.ft.lb	
LRC	: 6	.8	Duty cycle	9	: Cont.(S1)	
Rated torque	: 1	6.2 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2	20 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 2º	70 %	Temperature rise		: 80 K	
Rated speed	: 9	70 rpm	Design		: B	
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