### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12376315

Phase

Catalog #: 00209ST3QIE213TC-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. weight<sup>3</sup> : 175 lb

Protection degre	е	: IP55	Moment of ine	Moment of inertia (J) : 1.79 sq.ft.lb				
Design		: B			·			
Output [HP]		2	2	2	2			
Poles		8	8	8	8			
Frequency [Hz]		60	50	50	50			
Rated voltage [V]		460	380	400	415			
Rated current [A]		3.39	3.91	3.80	3.78			
L. R. Amperes [A]		25.7	29.7	28.9	28.7			
LRC [A]		7.6x(Code M)	7.6x(Code L)	7.6x(Code M)	7.6x(Code M)			
No load current [A	.]	2.30	2.30	2.42	2.54			
Rated speed [RPI	И]	875	715	720	720			
Slip [%]		2.78	4.67	4.00	4.00			
Rated torque [ft.lb	]	12.0	14.7	7 14.6 14.6				
Locked rotor torqu	ıe [%]	240 190 229		270				
Breakdown torque	: [%]	290	210	250	280			
Service factor		1.25	1.00	1.00	1.00			
Temperature rise		80 K	80 K	80 K	80 K			
Locked rotor time		70s (cold) 39s (hot)	70s (cold) 39s (hot)	70s (cold) 39s (hot)	70s (cold) 39s (hot)			
Noise level <sup>2</sup>		52.0 dB(A)	48.0 dB(A)	48.0 dB(A)	48.0 dB(A)			
	25%	81.0	81.2	81.2	81.2			
Efficiency (%)	50%	82.5	81.5	81.5	81.5			
Elliciency (70)	75%	84.0	82.0	82.5	82.5			
	100%	85.5	82.0	82.5	82.5			
	25%	0.24	0.29	0.27	0.25			
Power Factor	50%	0.45	0.52	0.49	0.46			
1 OWEI FACIOI	75%	0.55	0.62	0.59	0.56			
	100%	0.65	0.71	0.69	0.67			

<u>Drive end</u> <u>Non drive end</u> Foundation loads

Bearing type : 6308 C3 6207 C3 Max. traction : 142 lb Sealing : Inpro/Seal Inpro/Seal Max. compression : 318 lb

Lubrication interval:20000 h20000 hLubricant amount:11 g7 gLubricant type:Mobil Polyrex EM

- Woo

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.

Notes

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

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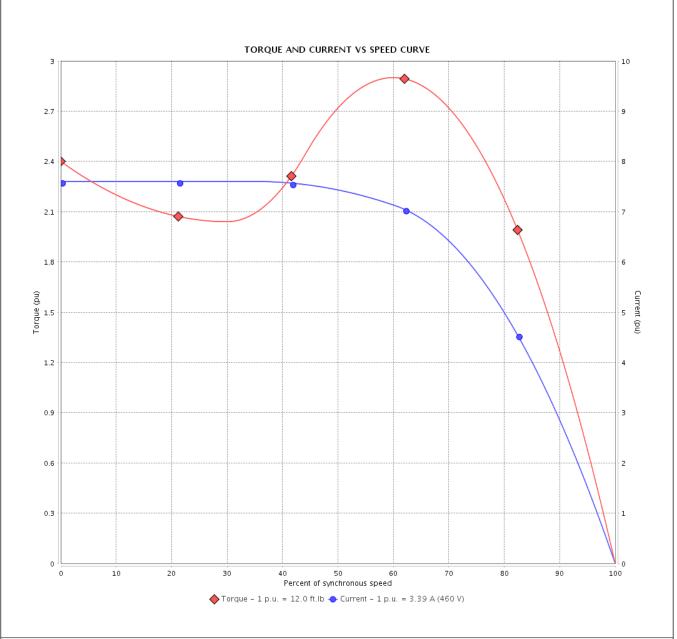


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12376315

Phase

Catalog #: 00209ST3QIE213TC-W22



Performance	: 460 V 60 Hz 8P		
Rated current LRC Rated torque Locked rotor torque	: 3.39 A : 7.6 : 12.0 ft.lb : 240 %	Moment of inertia (J) Duty cycle Insulation class Service factor	: 1.79 sq.ft.lb : Cont.(S1) : F : 1.25
Breakdown torque Rated speed	: 290 % : 875 rpm	Temperature rise Design	: 80 K : B
Looked roter time	· 70a (aald) 20a (bat)		

Locked rotor time : 70s (cold) 39s (hot)

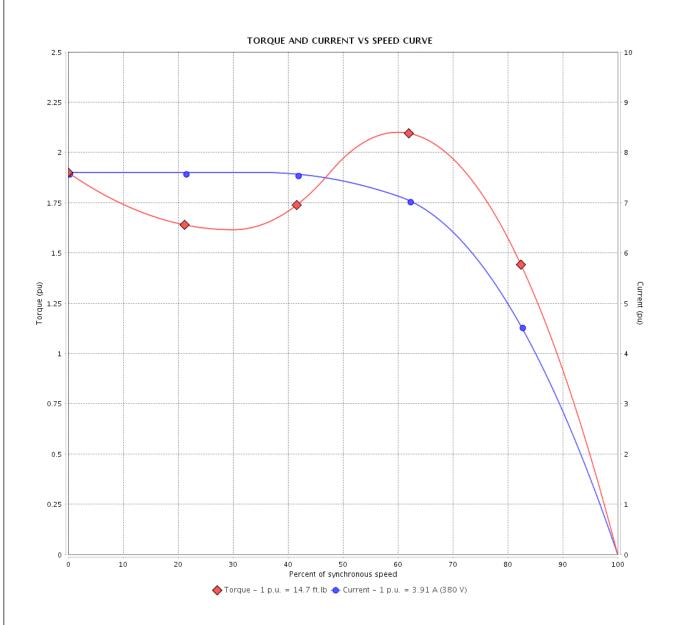
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#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12376315

> Catalog #: 00209ST3QIE213TC-W22



Performance	: 380 V 50 Hz 8P IE3			
Rated current	: 3.91 A	Moment of inertia (J)	: 1.79 sq.ft.lb	
LRC	: 7.6	Duty cycle	: Cont.(S1)	
Rated torque	: 14.7 ft.lb	Insulation class	:F	
Locked rotor torque	: 190 %	Service factor	: 1.00	
Breakdown torque	: 210 %	Temperature rise	: 80 K	
Rated speed	: 715 rpm	Design	: B	
Locked rotor time	: 70s (cold) 39s (hot)	L		

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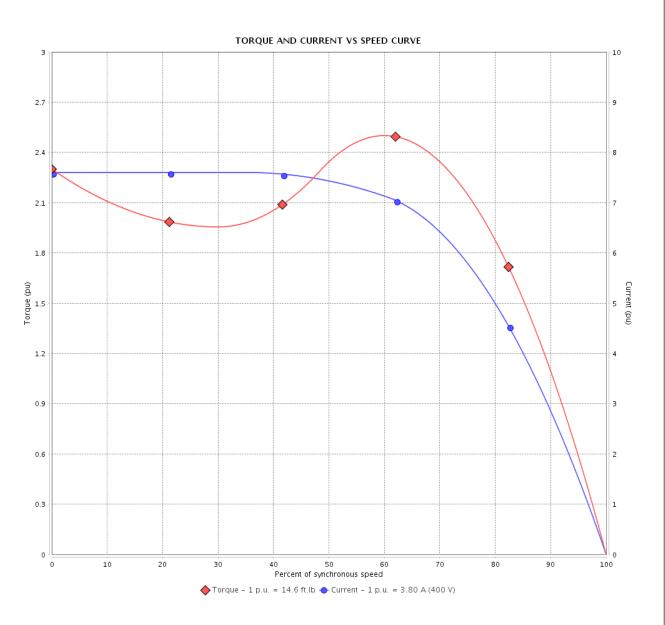


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12376315

Phase

Catalog #: 00209ST3QIE213TC-W22



Performance : 400 V 50 Hz 8P IE3 Rated current : 3.80 A Moment of inertia (J) : 1.79 sq.ft.lb **LRC** : 7.6 Duty cycle : Cont.(S1) : 14.6 ft.lb Insulation class Rated torque : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 720 rpm Design : B

Locked rotor time : 70s (cold) 39s (hot)

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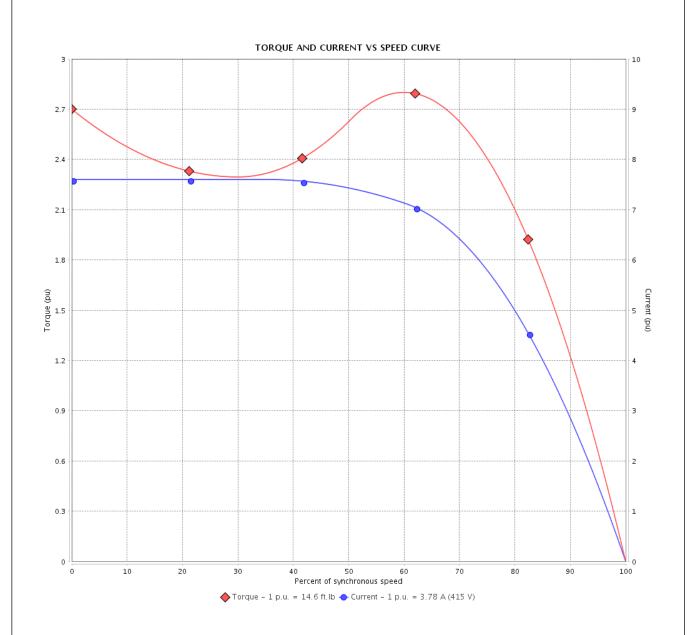
#### Three Phase Induction Motor - Squirrel Cage



 Customer
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 Product line
 : NEMA Premium Efficiency Three-Phase
 Product code : 12376315

 Catalog # : 00209ST3QIE213TC-W22



Performance : 415 V 50 Hz 8P IE3 Rated current : 3.78 A Moment of inertia (J) : 1.79 sq.ft.lb **LRC** : 7.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 14.6 ft.lb : F : 270 % Locked rotor torque Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 720 rpm Design : B Locked rotor time : 70s (cold) 39s (hot)

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Phase

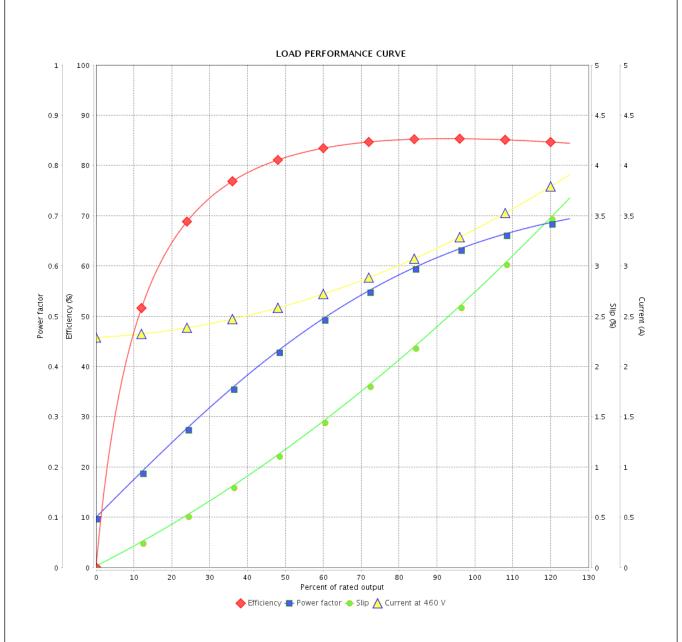
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Performance	: 4	60 V 60 Hz 8P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7 : 1 jue : 2 ie : 2	3.39 A .6 2.0 ft.lb .40 % .90 % .75 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 1.79 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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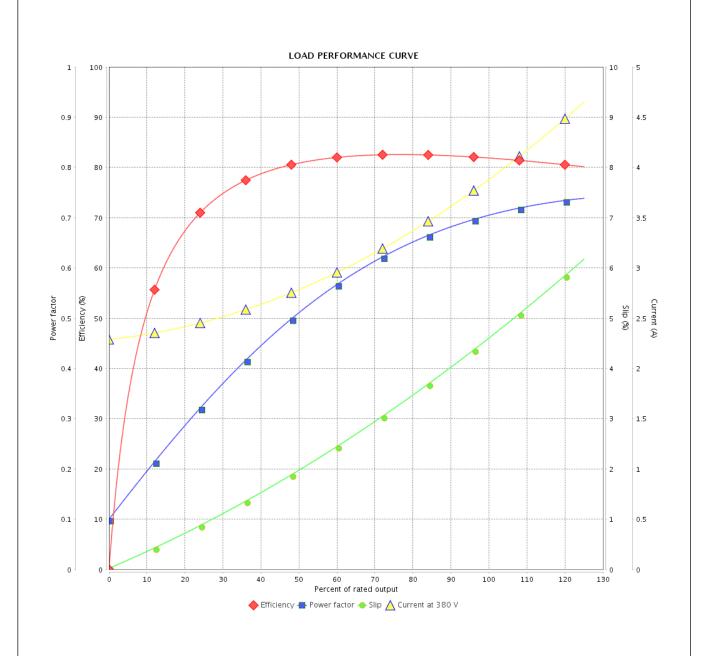
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	_					
Performance	: 380 V 50 Hz 8	P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 3.91 A : 7.6 : 14.7 ft.lb : 190 % : 210 % : 715 rpm		Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 1.79 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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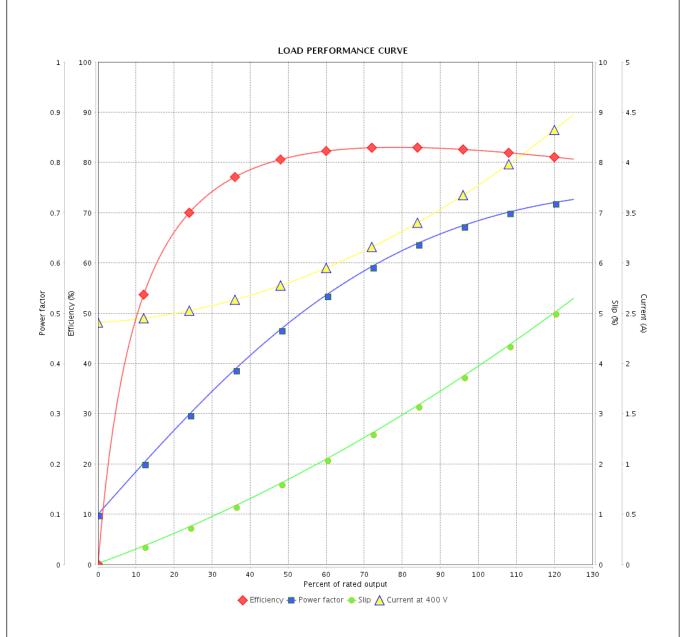
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						,	
Performance		: 400 V 50 Hz 8P	IE3				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	•	: 3.80 A : 7.6 : 14.6 ft.lb : 229 % : 250 % : 720 rpm	[ ] ]	Moment o Duty cycle nsulation Service fa Temperatu Design	class ctor	: 1.79 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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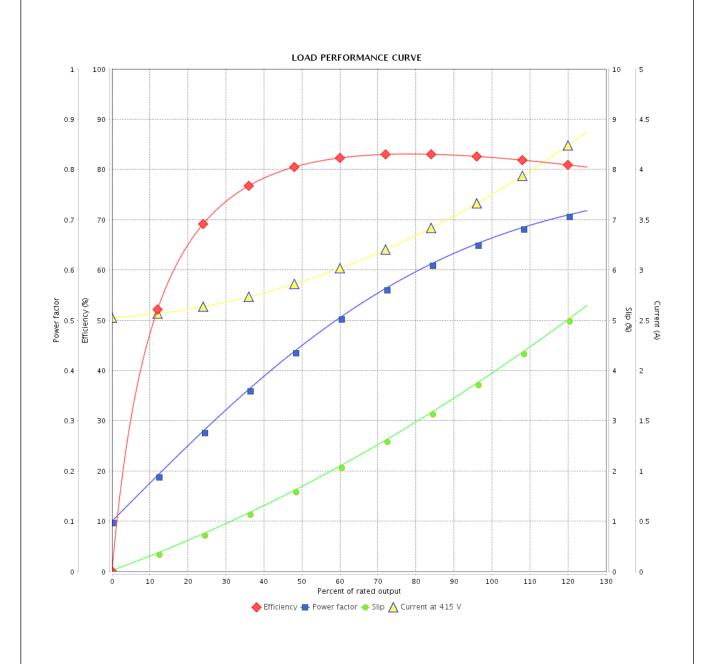


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Product line : NEMA Premium Efficiency Three- Product code : 12376315

Phase

Catalog #: 00209ST3QIE213TC-W22



Performance	: 4	15 V 50 Hz 8P IE3	5 V 50 Hz 8P IE3			
Rated current	: 3	.78 A	Moment o	f inertia (J)	: 1.79 sq.ft.lb	
LRC	: 7	.6	Duty cycle	<b>:</b>	: Cont.(S1)	
Rated torque	: 1	4.6 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2	70 %	Service fa	ctor	: 1.00	
Breakdown torque		80 %	Temperatu	Temperature rise		
Rated speed	: 7	20 rpm Design		: B		
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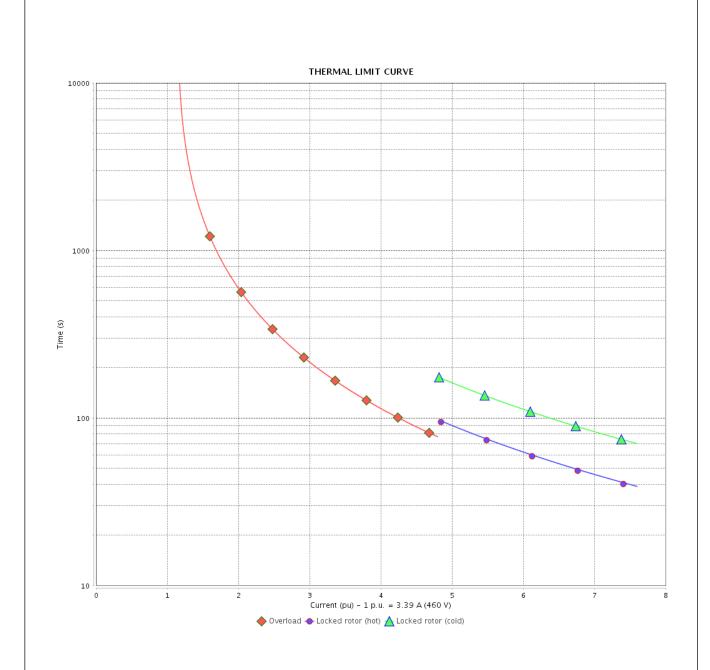


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Product line	: N	NEMA Premium Efficiency Thase	Γhree- I	Product code :	12376315	
	Pf	iase	(	Catalog # :	00209ST3QIE	213TC-W22
Performance	: 46	60 V 60 Hz 8P				
Rated current		39 A	Moment of	f inertia (J)	: 1.79 sq.ft.lb	
LRC Rated torque	: 7.0 : 12	6 2.0 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torqu	e : 24	10 %	Service fa	ctor	: 1.25	
Breakdown torque Rated speed		90 % 75 rpm	Temperatu Design	ire rise	: 80 K : B	
Heating constant			-			
Cooling constant						
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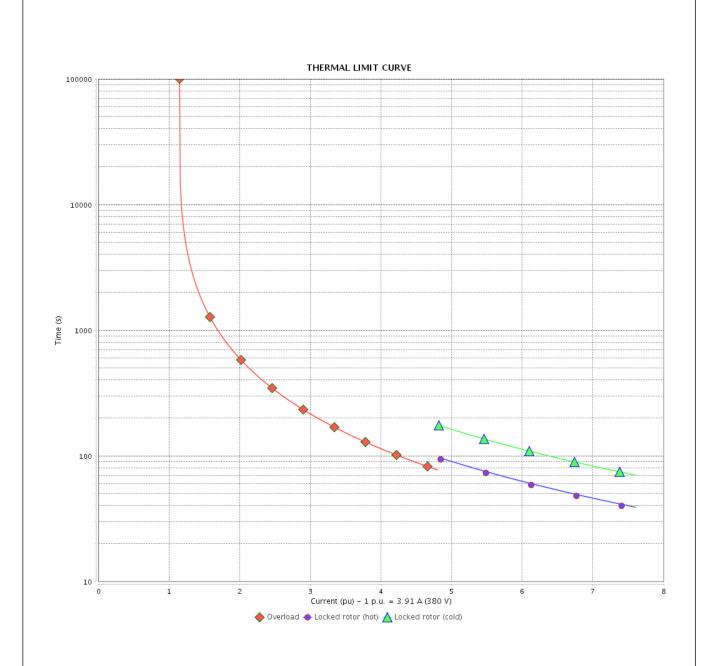


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Product line	: NEMA Premium Efficiency Phase		Product code :	12376315	5242TO W22
			Catalog # :	00209ST3QIE	=2131C-VV22
Performance	: 380 V 50 Hz 8P IE3		e	470 6"	
Rated current LRC	: 3.91 A : 7.6	Moment o	f inertia (J)	: 1.79 sq.ft.lb : Cont.(S1)	
Rated torque	: 14.7 ft.lb	Insulation	class	: F	
Locked rotor torque	: 190 %	Service fa		: 1.00	
Breakdown torque Rated speed	: 210 % : 715 rpm	Temperatu Design	are rise	: 80 K : B	
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Heating constant Cooling constant					
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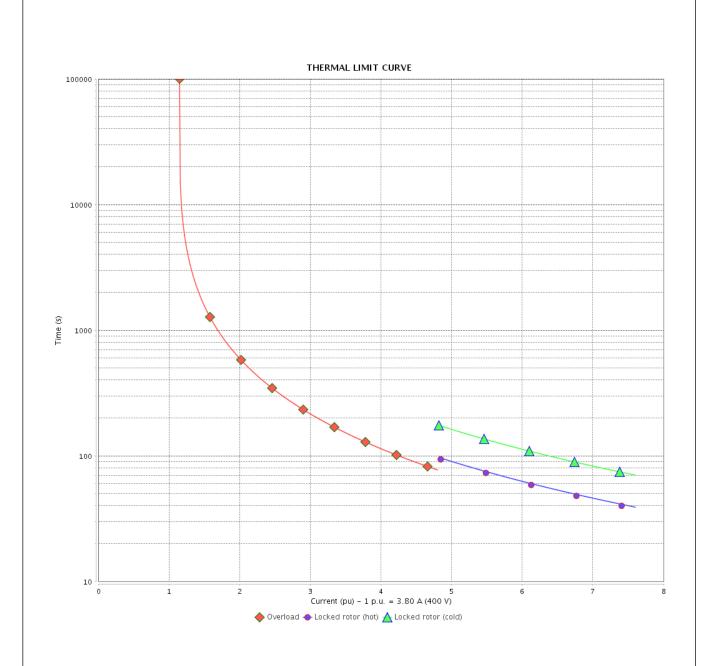


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Product line		: NEMA Premium Efficiency <sup>-</sup> Phase		Product code : Catalog # :	12376315 00209ST3QI	E213TC-W22
Performance Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	iue ::	400 V 50 Hz 8P IE3 3.80 A 7.6 14.6 ft.lb 229 % 250 % 720 rpm	Moment or Duty cycle Insulation Service fa Temperatu Design	class ctor	: 1.79 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant Rev.	t	Changes Summary	Design	Performed	Checked	Date
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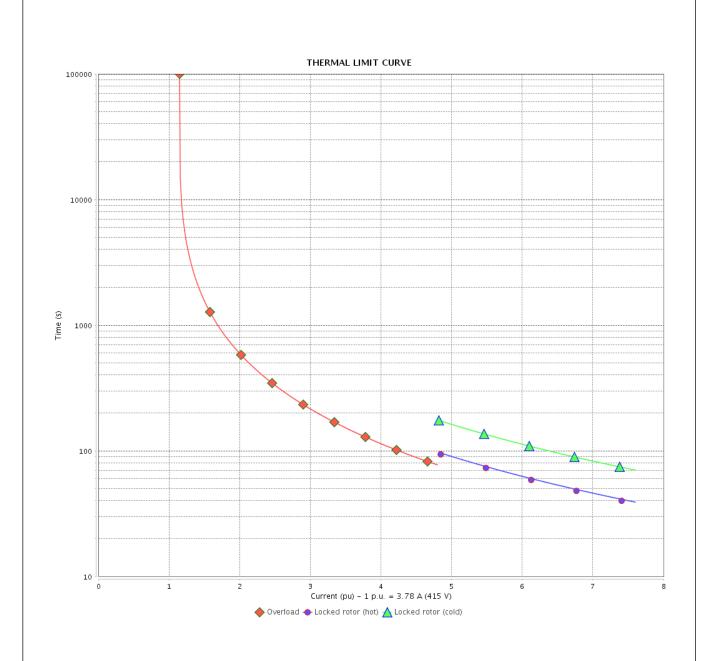


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Product line		NEMA Premium Efficiency hase		Product code :	12376315 00209ST3QIE	213TC-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3. : 7. : 14 ue : 27 e : 28	15 V 50 Hz 8P IE3 78 A 6 4.6 ft.lb 70 % 30 % 20 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 1.79 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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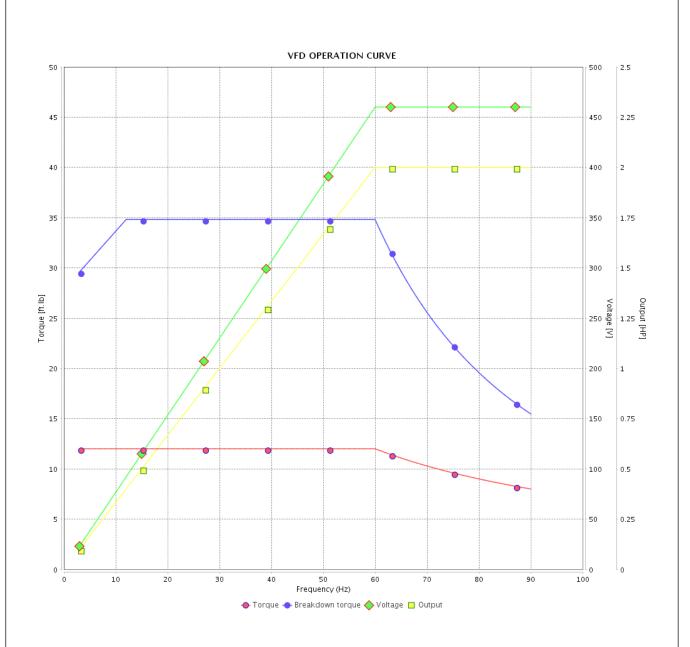
Customer :

Product line : NEMA Premium Efficiency Three- Pr

Phase

Product code: 12376315

Catalog #: 00209ST3QIE213TC-W22



Performance : 460 V 60 Hz 8P Rated current : 3.39 A Moment of inertia (J) : 1.79 sq.ft.lb **LRC** : 7.6 Duty cycle : Cont.(S1) : 12.0 ft.lb Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 875 rpm Design : B Changes Summary Rev. Performed Checked Date

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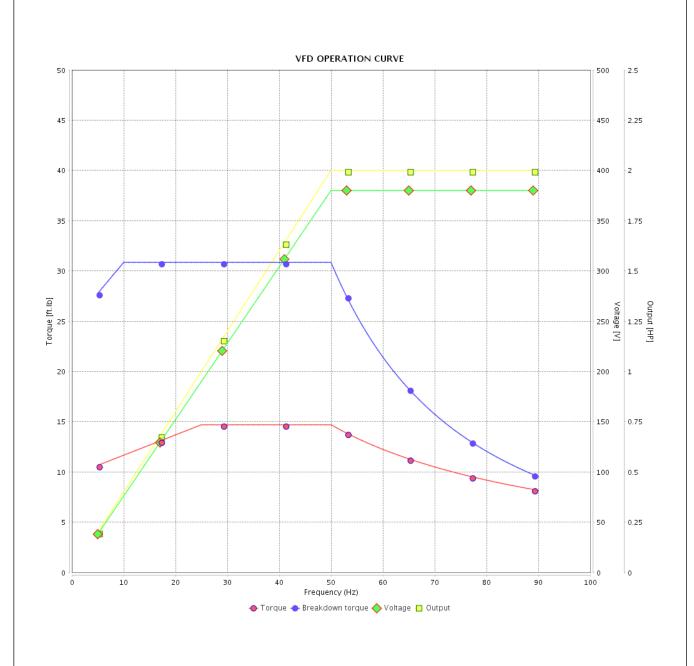


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12376315

Phase

Catalog #: 00209ST3QIE213TC-W22



Performance	: 3	80 V 50 Hz 8P IE3				
Rated current	: 3	.91 A	Moment of	of inertia (J)	: 1.79 sq.ft.lb	
LRC	: 7	.6	Duty cycle	9	: Cont.(S1)	
Rated torque	: 1	4.7 ft.lb	Insulation	class	: F	
Locked rotor torq	μe : 1	90 %	Service fa	ector	: 1.00	
Breakdown torque		10 %	Temperati	ure rise	: 80 K	
Rated speed	: 7	15 rpm	Design		: B	
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Product line : NEMA Premium Efficiency Three- Product

Phase

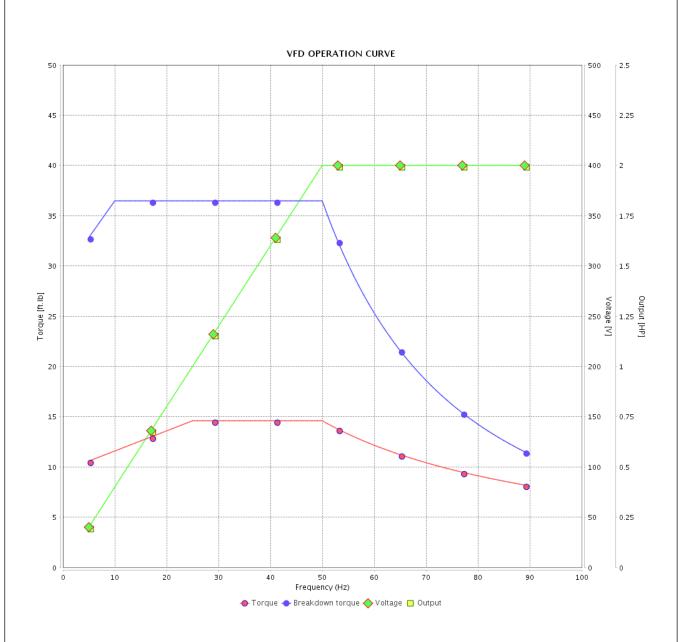
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Performance	: 40	00 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7. : 14  ue : 22  se : 25	80 A 6 4.6 ft.lb 29 % 50 % 20 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 1.79 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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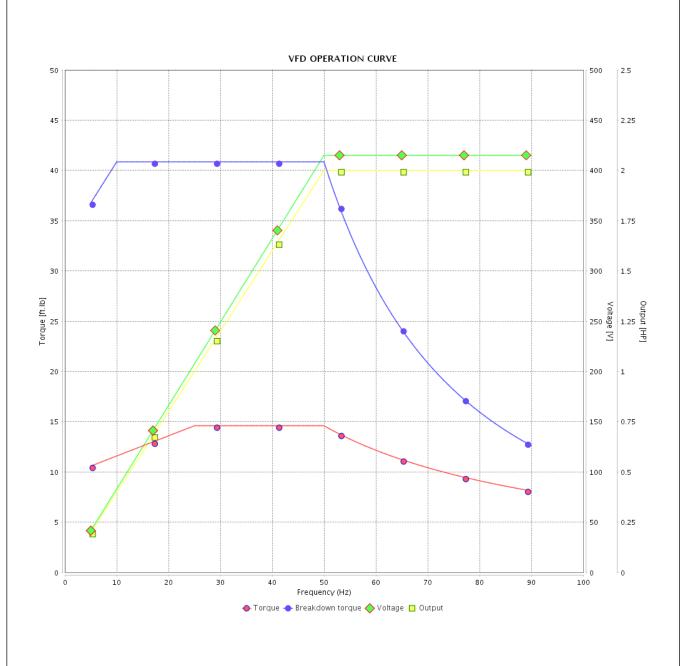


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12376315

Phase

Catalog #: 00209ST3QIE213TC-W22



Performance	:	415 V 50 Hz 8P IE3				
Rated current		3.78 A	Moment o	f inertia (J)	: 1.79 sq.ft.lb	
LRC	:	7.6	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque		14.6 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	270 %	Service fa	ctor	: 1.00	
Breakdown torque		280 %	Temperati	Temperature rise		
Rated speed	:	720 rpm	Design		: B	
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