DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14345288

Catalog #: 00718XT3ER213TC

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

Insulation class Mounting : W-6

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

: -20°C to +40°C Starting method Ambient temperature : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight³ : 211 lb Protection degree : IP55 Moment of inertia (J) : 1.38 sq.ft.lb

Design	C	: B	Worner to line	Montent of metua (5)				
Output [HP]		7.5	7.5	7.5	7.5			
Poles		4	4	4	4			
Frequency [Hz]		60	50	50	50			
Rated voltage [V]		230/460	380	400	415			
Rated current [A]		18.8/9.41	11.2	10.7	10.6			
L. R. Amperes [A]		126/63.0	61.6	68.5	72.1			
LRC [A]		6.7x(Code H)	5.5x(Code F)	6.4x(Code H)	6.8x(Code H)			
No load current [A]	8.00/4.00	4.10	4.40	4.60			
Rated speed [RPN	/ 1]	1765	1460	1460	1465			
Slip [%]	Slip [%]		2.67	2.67	2.33			
Rated torque [ft.lb]		22.3	27.0	27.0	26.9			
	Locked rotor torque [%]		170	180	210			
Breakdown torque	Breakdown torque [%]		200	280	270			
Service factor		1.15	1.00	1.00	1.00			
Temperature rise		80 K	80 K	80 K	80 K			
Locked rotor time		21s (cold) 12s (hot)						
Noise level ²		58.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)			
	25%	89.4	88.2	87.6	87.7			
Efficiency (%)	50%	90.2	88.5	88.5	88.5			
Efficiency (%) 75% 100%		91.0	89.5	89.5	89.5			
		91.7	89.5	90.2	90.2			
	25%		0.43	0.40	0.38			
Power Factor 50%		0.60	0.66	0.63	0.61			
I OWEI FACIOI	75%	0.73	0.77	0.75	0.73			
	100%	0.80	0.83	0.82	0.80			

Non drive end Foundation loads **Drive** end

6207 2RS Bearing type 6308 2RS Max. traction : 304 lb Sealing Oil Seal Lip Seal Max. compression : 515 lb

Lubricant amount Lubricant type Mobil Polyrex EM

Notes

Lubrication interval

USABLE @208V 20.8A SF 1.15 SFA 23.9A

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		

Thermal protection

		<u> </u>		
ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 14345288 Catalog #: 00718XT3ER213TC 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. = 22.3 ft.lb ◆ Current - 1 p.u. = 9.41 A (460 V) Performance : 230/460 V 60 Hz 4P Rated current : 18.8/9.41 A Moment of inertia (J) : 1.38 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 22.3 ft.lb Insulation class Rated torque : F : 240 % Locked rotor torque Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B Locked rotor time : 21s (cold) 12s (hot) Rev. Performed Checked Date **Changes Summary**

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Three Phase Induction Motor - Squirrel Cage



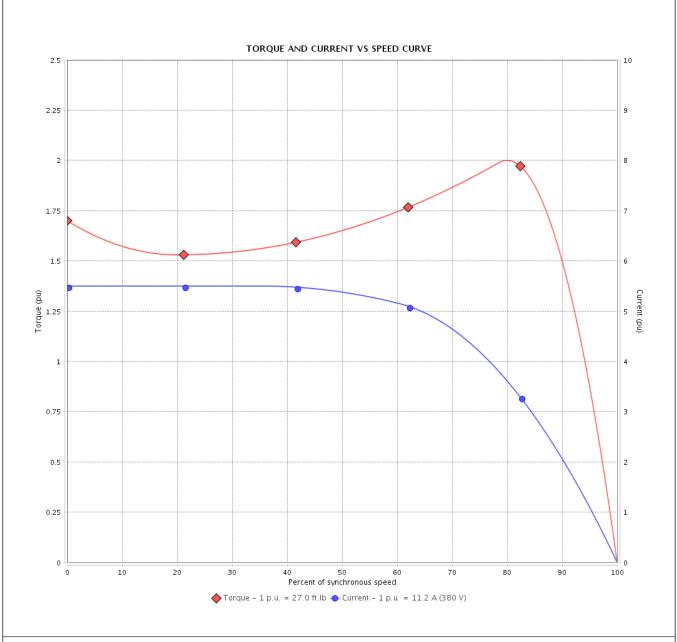
Customer :

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

Phase

Product code: 14345288

Catalog #: 00718XT3ER213TC



Performance : 380 V 50 Hz 4P IE2 Rated current : 11.2 A Moment of inertia (J) : 1.38 sq.ft.lb **LRC** : 5.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 27.0 ft.lb : F Service factor Locked rotor torque : 170 % : 1.00 Breakdown torque : 200 % Temperature rise : 80 K Rated speed : 1460 rpm Design : B

Locked rotor time : 21s (cold) 12s (hot)

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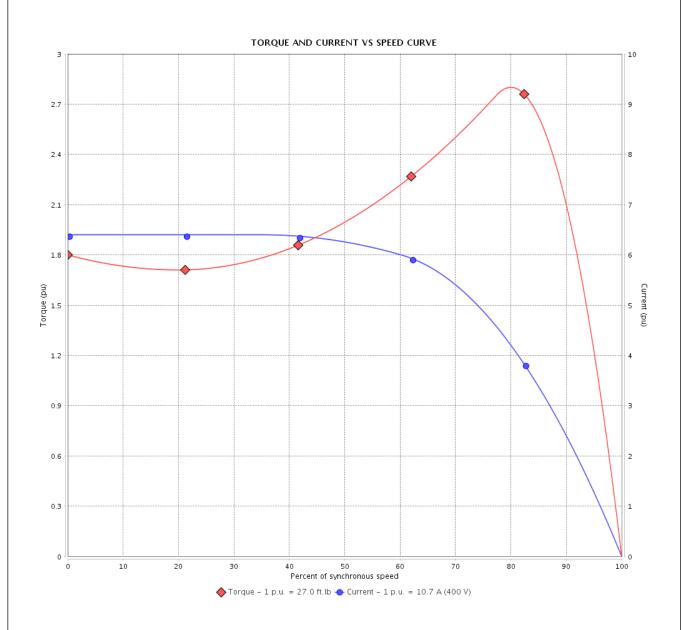
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14345288

Catalog #: 00718XT3ER213TC



Performance	: 400 V 50 Hz 4P IE3		
Rated current	: 10.7 A	Moment of inertia (J)	: 1.38 sq.ft.lb
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 27.0 ft.lb	Insulation class	:F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: B
Locked rotor time	: 21s (cold) 12s (hot)		

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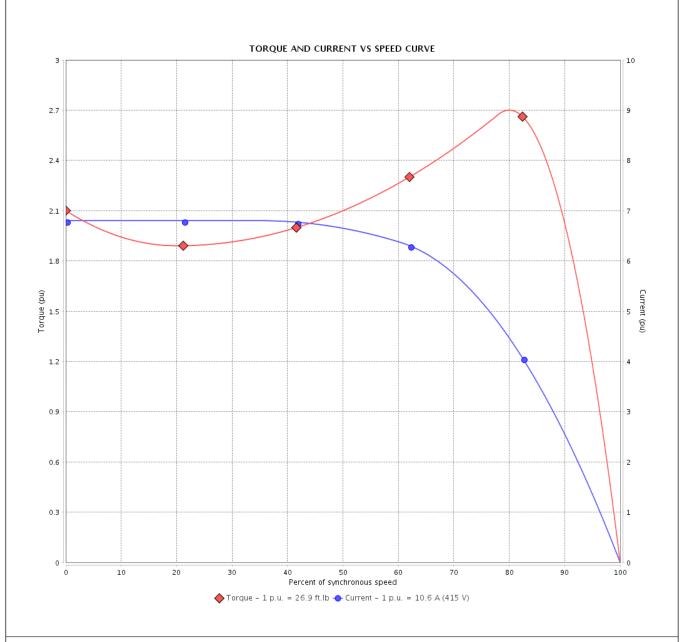
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14345288

Catalog #: 00718XT3ER213TC



 Performance
 : 415 V 50 Hz 4P IE3

 Rated current
 : 10.6 A
 Moment of inertia (J)
 : 1.38 sq.ft.lb

 LRC
 : 6.8
 Duty cycle
 : Cont.(S1)

 Rated torque
 : 26.9 ft.lb
 Insulation class
 : F

Locked rotor torque : 210 % Service factor : 1.00
Breakdown torque : 270 % Temperature rise : 80 K
Rated speed : 1465 rpm Design : B

Locked rotor time : 21s (cold) 12s (hot)

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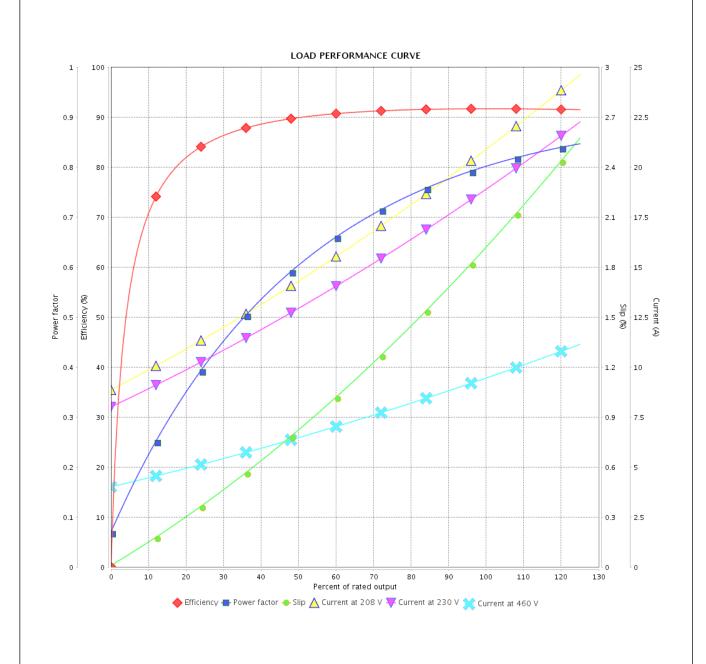
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14345288

00718XT3ER213TC Catalog #:



Performance	: 2	30/460 V 60 Hz 4P				
Rated current	: 1	8.8/9.41 A	Moment of	f inertia (J)	: 1.38 sq.ft.lb	
LRC	: 6	.7	Duty cycle	•	: Cont.(S1)	
Rated torque	: 2	2.3 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 2	40 %	Service fa	ctor	: 1.15	
Breakdown torqu	kdown torque : 280 % Temperature rise		ure rise	: 80 K		
Rated speed	: 1	65 rpm Design		: B		
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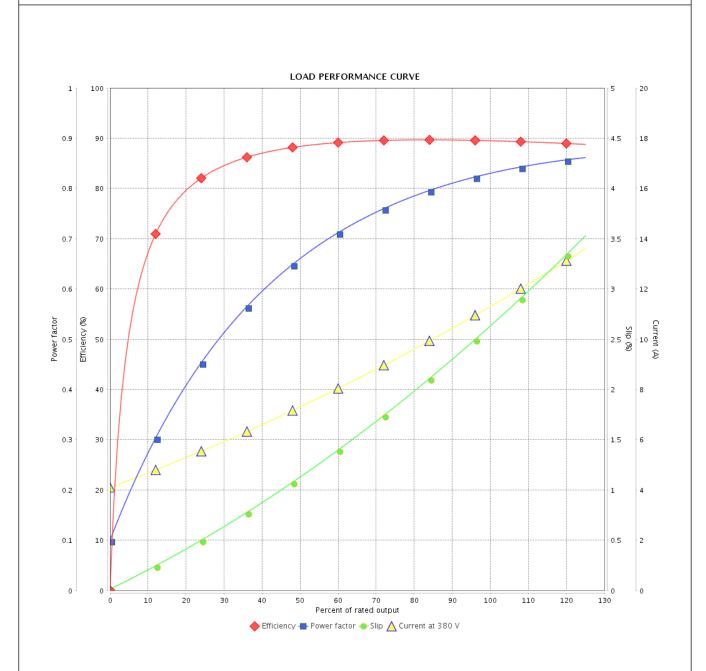
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00718XT3ER213TC

14345288



Performance : 380 V 50 Hz 4P IE2 : 11.2 A Moment of inertia (J) : 1.38 sq.ft.lb Rated current **LRC** : Cont.(S1) : 5.5 Duty cycle : 27.0 ft.lb Insulation class : F Rated torque Locked rotor torque : 170 % Service factor : 1.00 Breakdown torque : 200 % Temperature rise : 80 K Rated speed : 1460 rpm Design : B

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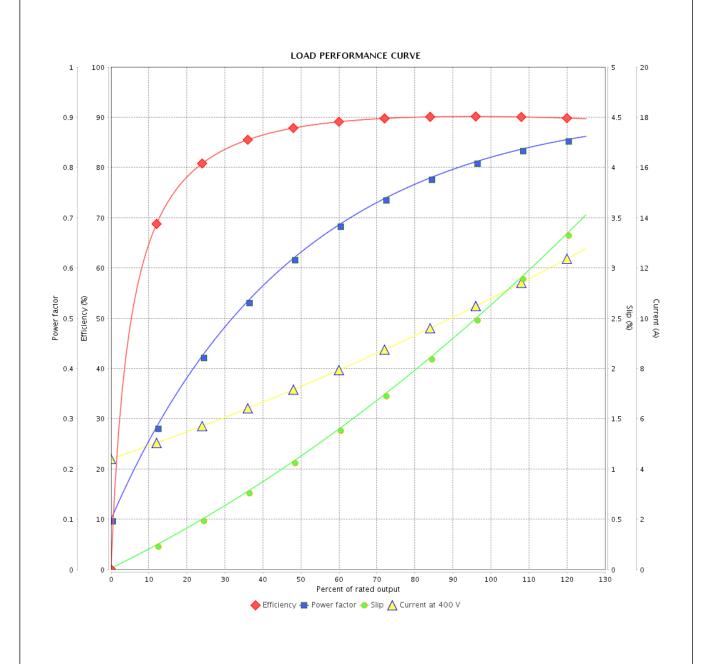


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 00718XT3ER213TC

14345288



Performance	: 40	00 V 50 Hz 4P IE3				
Rated current	: 10	0.7 A	Moment o	of inertia (J)	: 1.38 sq.ft.lb	
LRC	: 6.	.4	Duty cycle	e ` ´	: Cont.(S1)	
Rated torque	: 2	7.0 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 18	80 %	Service fa	actor	: 1.00	
Breakdown torque	e : 28	80 %	Temperature rise		: 80 K	
Rated speed	: 14	460 rpm	Design		: B	
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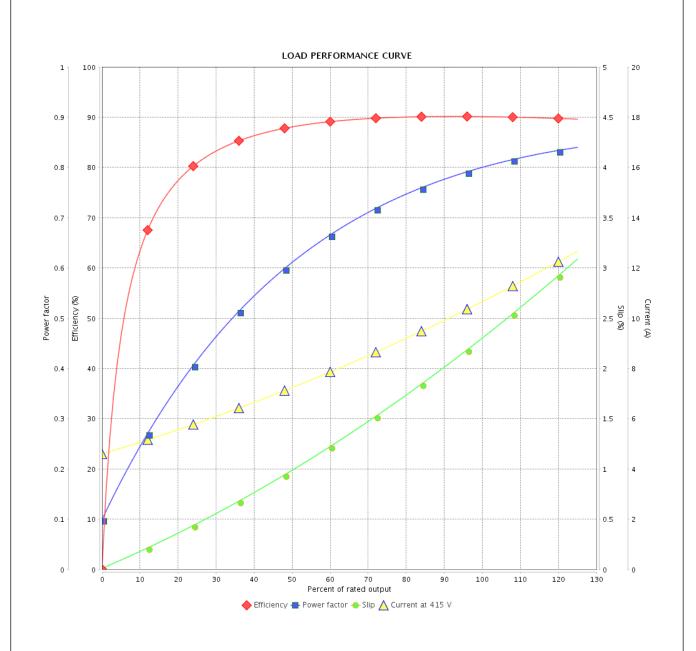


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14345288

Phase

Catalog #: 00718XT3ER213TC



Performance	: 415 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 10.6 A : 6.8 : 26.9 ft.lb : 210 % : 270 % : 1465 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 1.38 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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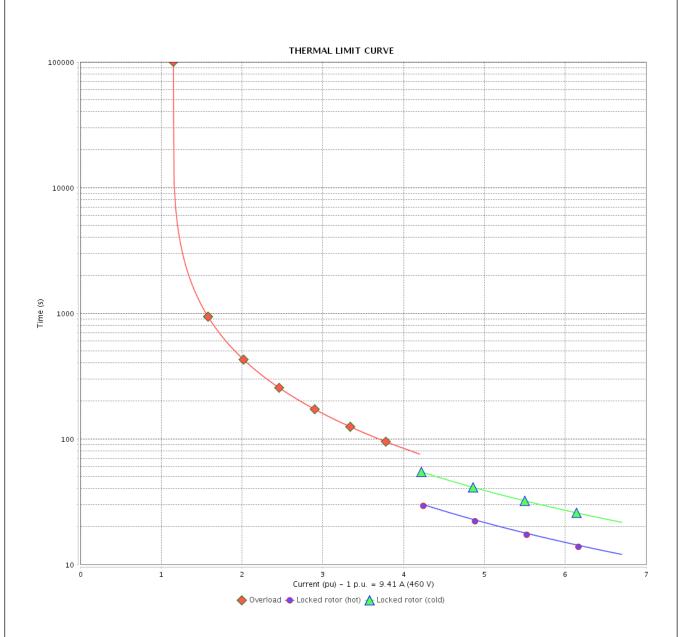


Customer	:					
Product line	:	NEMA Premium Efficiency T	hree-	Product code :	14345288	
	Р	Phase		Catalog # :	00718XT3EF	213TC
Performance	. 2	30/460 V 60 Hz 4P				
Rated current			Moment o	of inertia (J)	: 1.38 sq.ft.lb	
LRC	: 6	.7	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor tord			Insulation Service fa		: F : 1.15	
Breakdown torqu	ie : 2	80 %	Temperati		: 80 K	
Rated speed	:1		Design		: B	
Heating constan	t					
Cooling constant	t					
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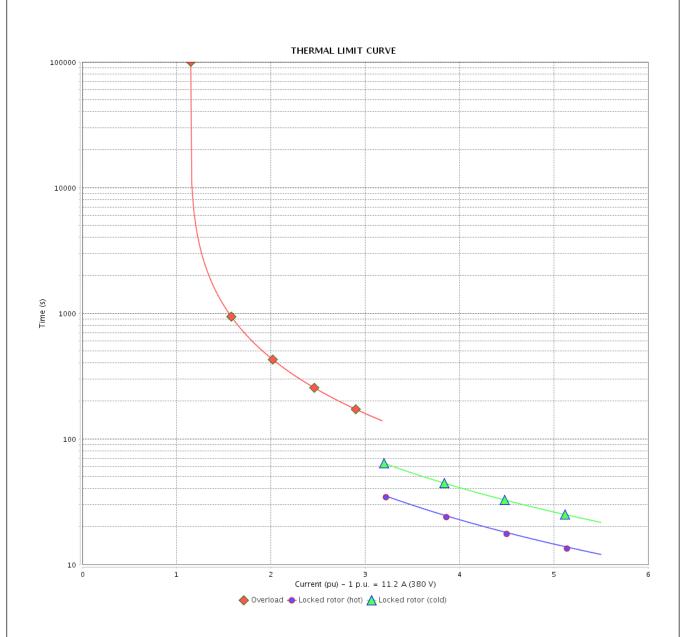


Customer	:					
Product line		NEMA Premium Efficiency [*] hase		Product code : Catalog # :	14345288 00718XT3EF	R213TC
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 11 : 5. : 27 gue : 17 ge : 20 : 14	30 V 50 Hz 4P IE2 I.2 A 5 7.0 ft.lb 70 % 00 % 460 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 1.38 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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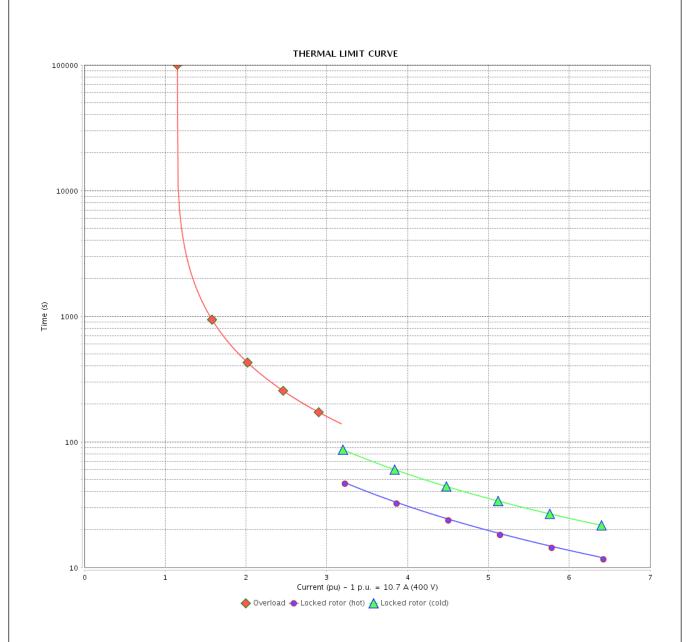


Customer	:					
Product line	: I P	NEMA Premium Efficiency hase		Product code : Catalog # :	14345288 00718XT3EI	R213TC
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: 10 : 6. : 27 que : 18 ue : 28	00 V 50 Hz 4P IE3 0.7 A 4 7.0 ft.lb 80 % 80 % 460 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ictor	: 1.38 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant						
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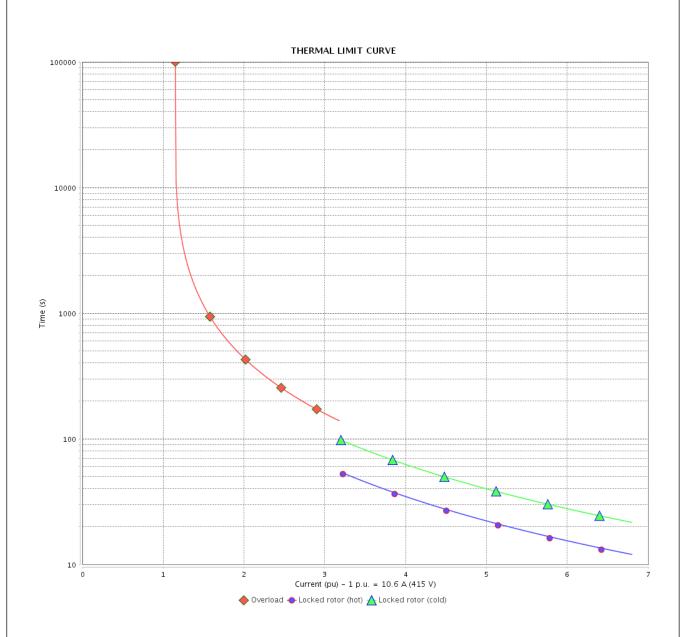


Customer	:					
Product line	: I P	NEMA Premium Efficiency hase		Product code : Catalog # :	14345288 00718XT3EF	R213TC
Performance	: 4	15 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: 10 : 6. : 20 que : 2'	0.6 A	Moment of Duty cycle Insulation Service fa Temperate Design	class ictor	: 1.38 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constan						
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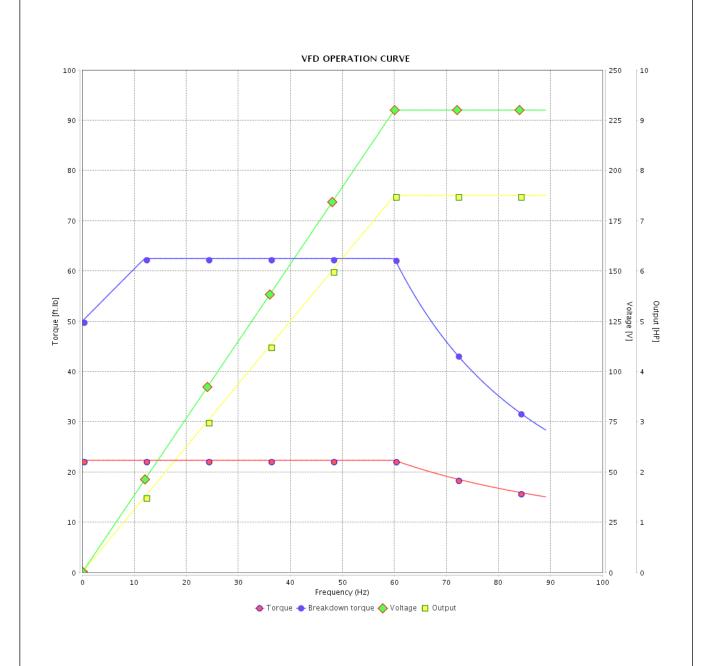


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14345288

Phase

Catalog #: 00718XT3ER213TC



Performance	: 230/460 V 60 Hz 4P				
Rated current	: 18.8/9.41 A	Moment of inertia (J)		: 1.38 sq.ft.lb	
LRC	: 6.7	Duty cycle		: Cont.(S1)	
Rated torque	: 22.3 ft.lb	Insulation class		: F	
Locked rotor torque			Service factor : 1.15		
Breakdown torque	: 280 %	Temperature rise		: 80 K	
Rated speed	: 1765 rpm	Design		: B	
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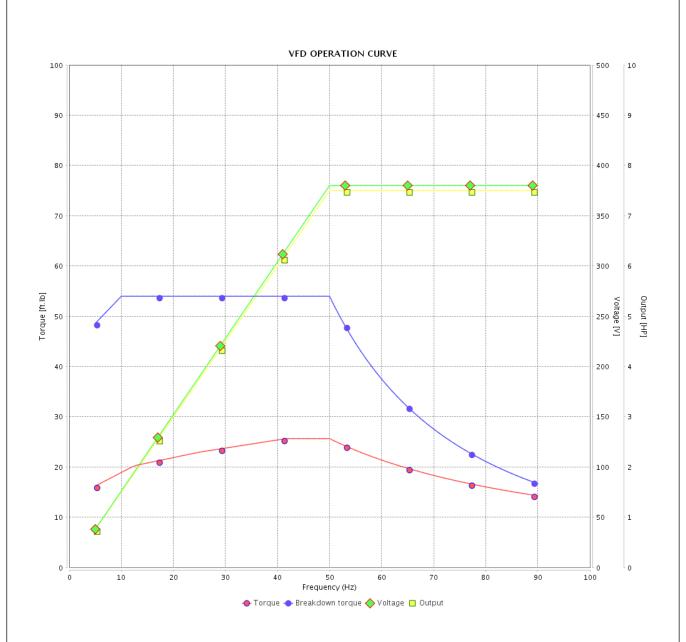
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14345288

Catalog #: 00718XT3ER213TC



Performance : 380 V 50 Hz 4P IE2 : 11.2 A Rated current Moment of inertia (J) : 1.38 sq.ft.lb **LRC** : 5.5 Duty cycle : Cont.(S1) : 27.0 ft.lb Insulation class Rated torque : F Locked rotor torque : 170 % Service factor : 1.00 Breakdown torque : 200 % Temperature rise : 80 K Rated speed : 1460 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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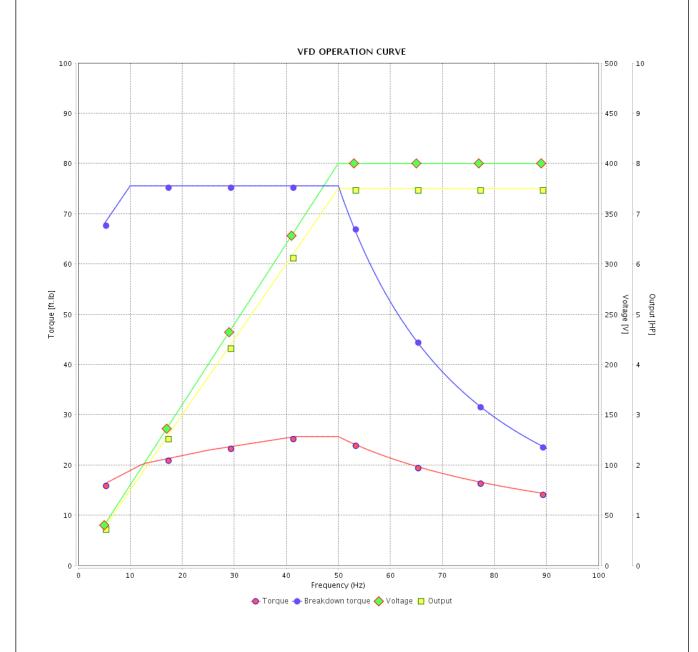
Customer

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 14345288

Catalog #: 00718XT3ER213TC



Performance : 400 V 50 Hz 4P IE3 : 10.7 A Rated current Moment of inertia (J) : 1.38 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 27.0 ft.lb Insulation class : F Rated torque Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1460 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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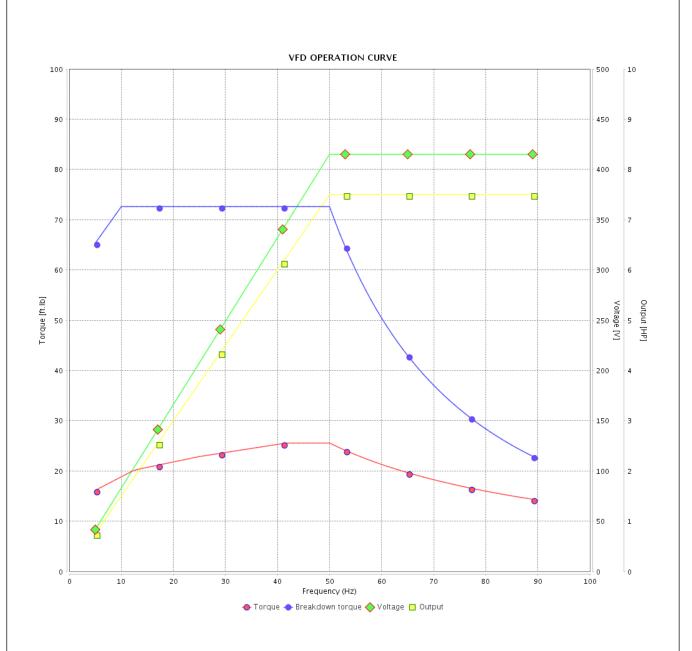
Customer :

Checked by

Product line : NEMA Premium Efficiency Three- Product code : 14345288

Phase

Catalog #: 00718XT3ER213TC



Performance : 415 V 50 Hz 4P IE3 : 10.6 A Rated current Moment of inertia (J) : 1.38 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.8 : 26.9 ft.lb Insulation class : F Rated torque Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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