DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14504365

Phase

Catalog #: 00209XT3E213T

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

Insulation class : F Mounting : F-1

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

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

Altitude : 1000 m.a.s.l. Approx. weight³ : 187 lb

Protection degree : IP55 Moment of inertia (J) : 1.31 sq.ft.lb

Protection degre	ree : IP55 Moment of inertia (J) : 1.31 sq.ft.lb			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]		230/460	380	400	415
Rated current [A]		6.90/3.45	3.94	3.80	3.78
L. R. Amperes [A]		48.3/24.2	26.4	26.6	26.5
LRC [A]		7.0x(Code L)	6.7x(Code K)	7.0x(Code L)	7.0x(Code L)
No load current [A]	4.20/2.10	2.10	2.40	2.55
Rated speed [RPN	/ []	875	710	720	720
Slip [%]		2.78	5.33	4.00	4.00
Rated torque [ft.lb]		12.0	14.8	14.6	14.6
Locked rotor torque [%]		229	210	240	270
Breakdown torque	Breakdown torque [%]		220	250	280
Service factor		1.15	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		63s (cold) 35s (hot)			
Noise level ²		52.0 dB(A)	48.0 dB(A)	48.0 dB(A)	48.0 dB(A)
	25%	78.4	80.6	81.2	81.2
	50%	80.0	81.0	81.5	81.5
	75%	82.5	81.5	82.5	82.5
	100%	84.0	81.5	82.5	82.5
	25%	0.26	0.30	0.27	0.25
Power Factor	50%	0.45	0.52	0.49	0.46
	75%	0.57	0.61	0.59	0.57
	100%	0.65	0.71	0.69	0.67

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

Bearing type : 6308 2RS 6207 2RS Max. traction : 137 lb Sealing : Oil Seal Lip Seal Max. compression : 323 lb

Lubrication interval : - - Lubricant amount : - Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 7.63A SF 1.15 SFA 8.77A

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

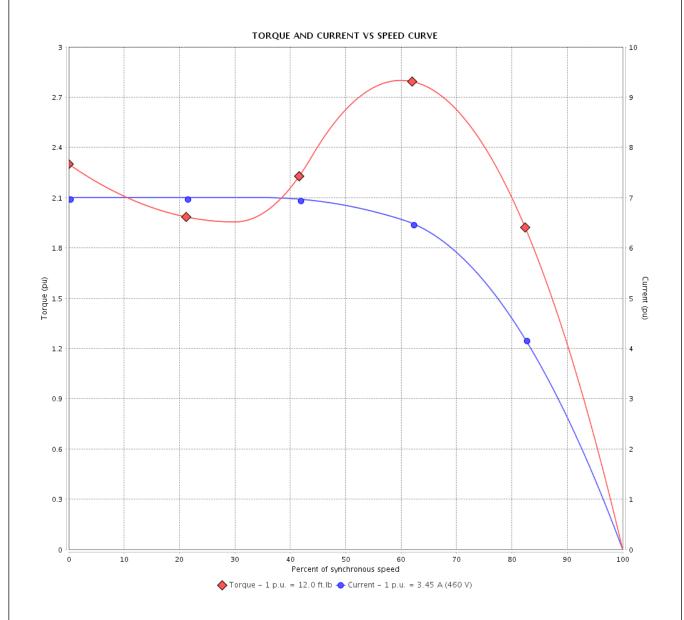
		<u> </u>		
ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 14504365 Catalog #: 00209XT3E213T



Performance : 230/460 V 60 Hz 8P Rated current : 6.90/3.45 A Moment of inertia (J) : 1.31 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) : 12.0 ft.lb Insulation class Rated torque : F Locked rotor torque : 229 % Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 875 rpm Design : B Locked rotor time : 63s (cold) 35s (hot)

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Three Phase Induction Motor - Squirrel Cage

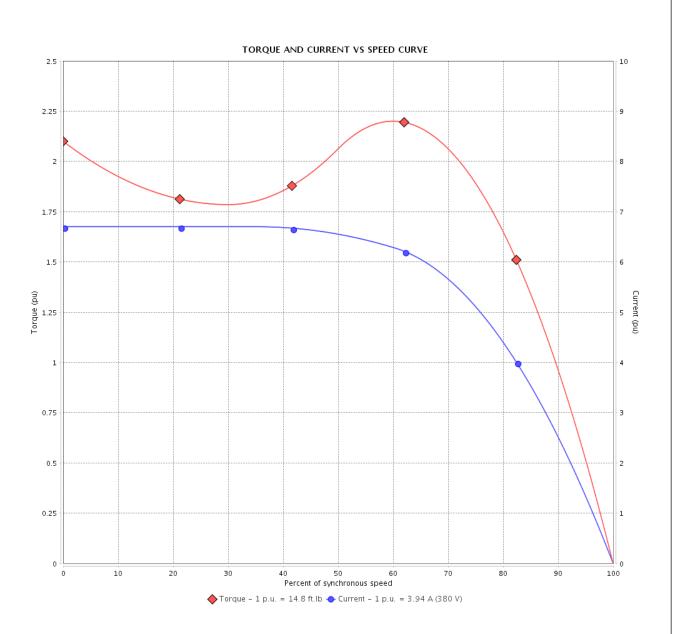


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14504365

Phase

Catalog #: 00209XT3E213T



Performance	: 380 V 50 Hz 8P IE3		
Rated current	: 3.94 A	Moment of inertia (J)	: 1.31 sq.ft.lb
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 14.8 ft.lb	Insulation class	:F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 710 rpm	Design	: B

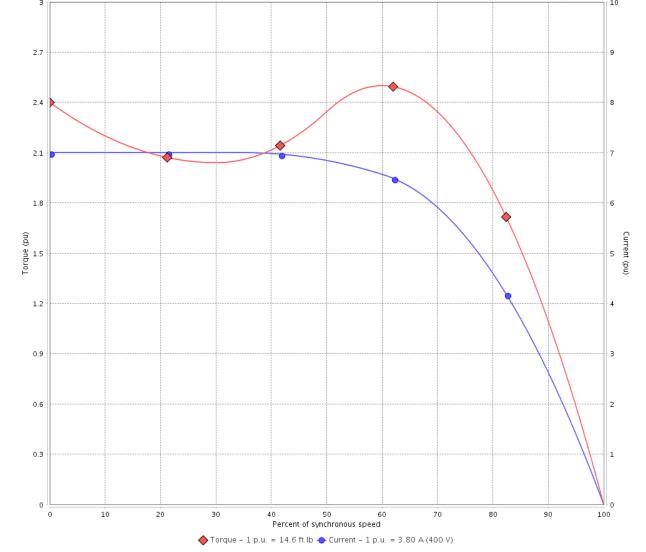
Locked rotor time : 63s (cold) 35s (hot)

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Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 14504365 Catalog #: 00209XT3E213T TORQUE AND CURRENT VS SPEED CURVE 2.7



Performance : 400 V 50 Hz 8P IE3 Rated current : 3.80 A Moment of inertia (J) : 1.31 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 14.6 ft.lb : F Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 720 rpm Design : B

Locked rotor time : 63s (cold) 35s (hot)

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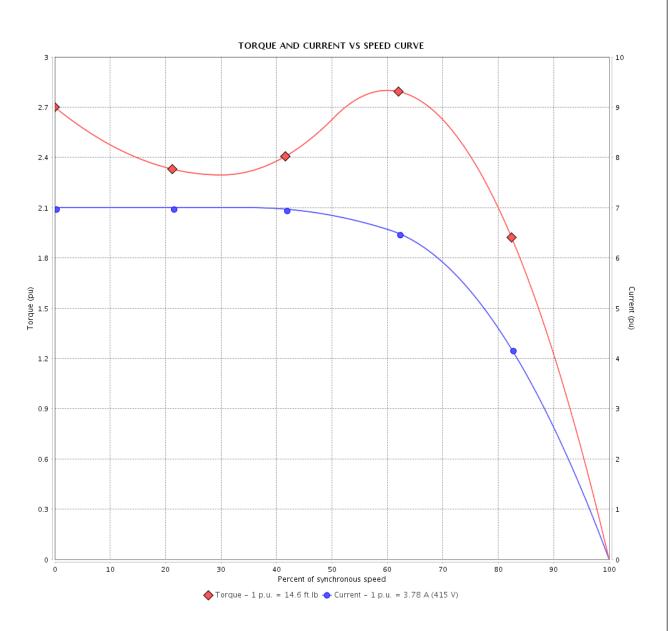


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14504365

Phase

Catalog #: 00209XT3E213T



Performance	: 415 V 50 Hz 8P IE3			
Rated current	: 3.78 A	Moment of inertia (J)	: 1.31 sq.ft.lb	
LRC	: 7.0	Duty cycle	: Cont.(S1)	
Rated torque	: 14.6 ft.lb	Insulation class	: F	
Locked rotor torque	: 270 %	Service factor	: 1.00	
Breakdown torque	: 280 %	Temperature rise	: 80 K	
Rated speed	: 720 rpm	Design	: B	
Locked rotor time	: 63s (cold) 35s (hot)	1		

Locked rotor time : 63s (cold) 35s (hot)

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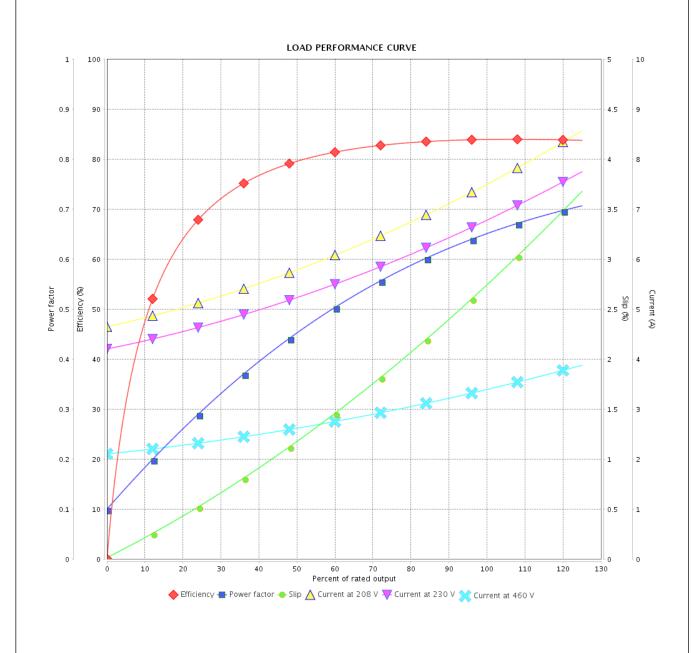


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14504365

Phase

Catalog #: 00209XT3E213T



Performance	: 230/460 V 60 Hz 8P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.90/3.45 A : 7.0 : 12.0 ft.lb : 229 % : 280 % : 875 rpm	Moment of in Duty cycle Insulation cla Service facto Temperature Design	iss r	: 1.31 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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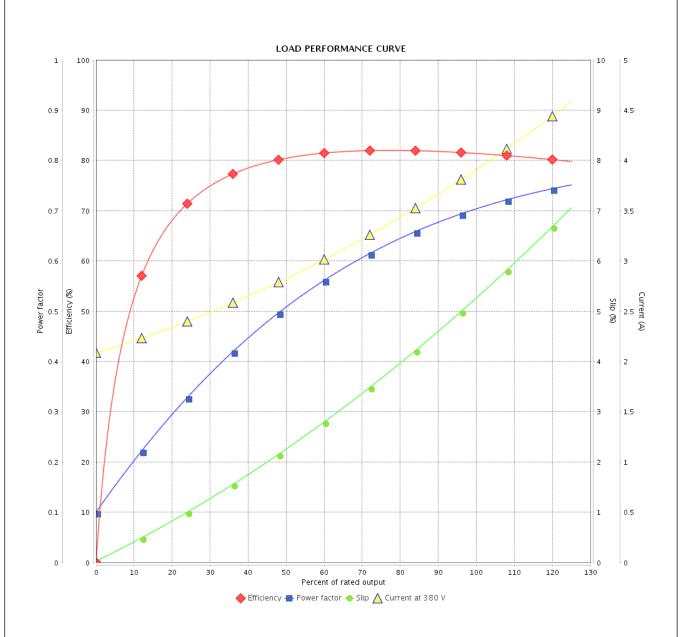
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 14504365

Catalog #: 00209XT3E213T



Performance		: 380 V 50 Hz	z 8P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 3.94 A : 6.7 : 14.8 ft.lb : 210 % : 220 % : 710 rpm		Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 1.31 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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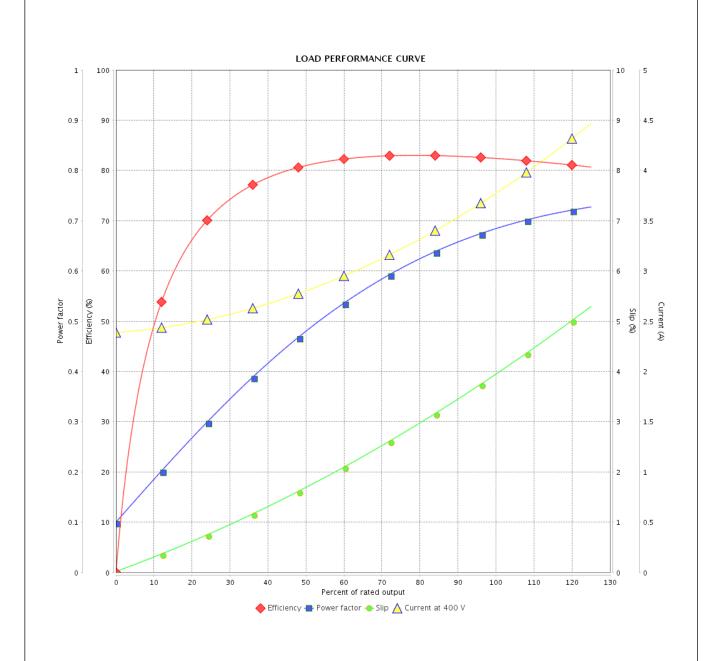


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14504365

Phase

Catalog #: 00209XT3E213T



Performance	erformance : 400 V 50 Hz 8P IE3						
Rated current	::	3.80 A	Moment o	Moment of inertia (J)			
LRC	: 7	7.0	Duty cycle	Duty cycle		: Cont.(S1)	
lated torque : 14.6 ft.lb Insulation class		class	:F `´				
Locked rotor torque : 2		240 %	Service fa	Service factor		: 1.00	
Breakdown torque	: 2	250 %	Temperature rise		: 80 K		
Rated speed	: 7	720 rpm	Design		: B		
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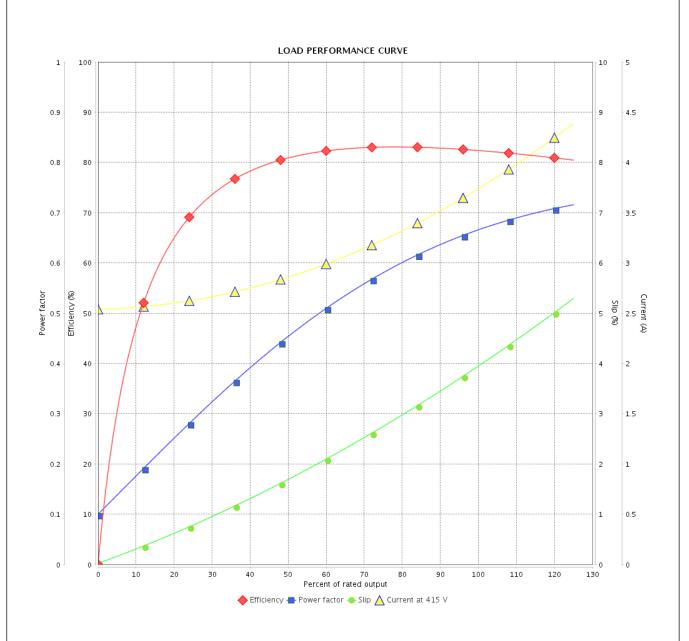
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14504365

Catalog #: 00209XT3E213T



Performance : 415 V 50 Hz 8P IE3					
Rated current	: 3.78 A	Moment of inertia (J)		: 1.31 sq.ft.lb	
LRC : 7.0		Duty cycle		: Cont.(S1)	
Rated torque	: 14.6 ft.lb	Insulation class		:F	
Locked rotor torque	: 270 %	Service factor		: 1.00	
Breakdown torque	: 280 %	Temperature rise		: 80 K	
Rated speed	: 720 rpm	Design		: B	
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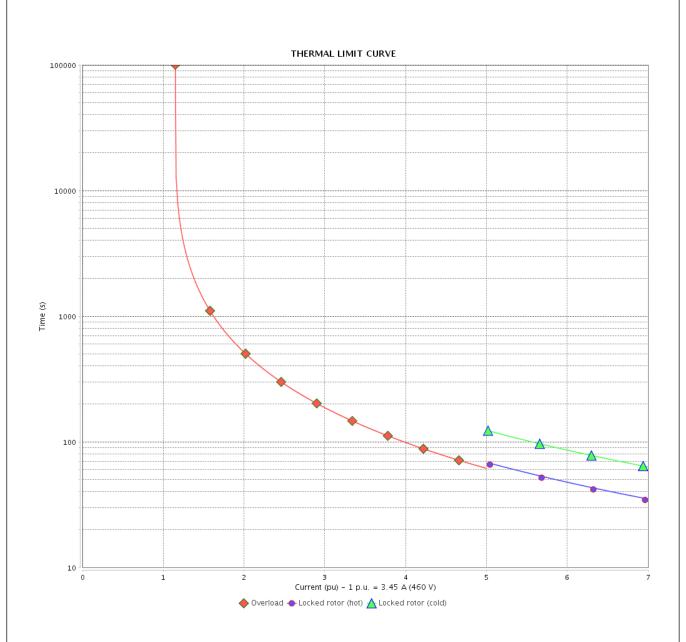


Product line		NEMA Premium Efficiency Thase		Product code : Catalog # :	14504365 00209XT3E2	213T
						213T
				Catalog # .	00209713E2	
formance ed current	: 6	30/460 V 60 Hz 8P .90/3.45 A	Moment o	of inertia (J)	: 1.31 sq.ft.lb	
RC Rated torque ocked rotor torque reakdown torque Rated speed	: 7 : 1: ue : 2: e : 2: : 8:		Duty cycle Insulation Service fa Temperat Design	e ı class actor	: Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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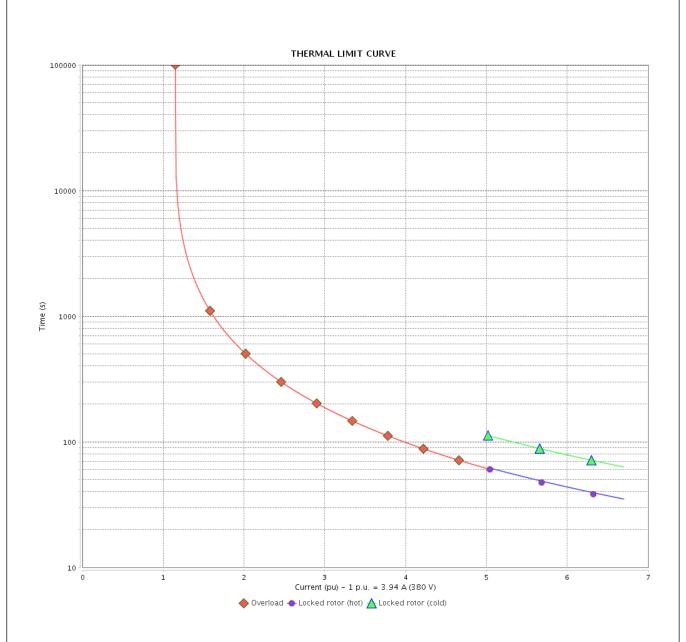


Customer	:					
Product line	:	NEMA Premium Efficiency	Three-	Product code :	14504365	
	F	Phase		Catalog # :	00209XT3E2	13T
Performance Rated current LRC		880 V 50 Hz 8P IE3 8.94 A	Moment of	of inertia (J)	: 1.31 sq.ft.lb : Cont.(S1)	
Locked rotor tor Breakdown torq Rated speed	que : 2 ue : 2 : 7	4.8 ft.lb 210 % 220 % 710 rpm	Insulation Service fa Temperat Design	ı class actor	: F : 1.00 : 80 K : B	
Rated torque Locked rotor tor Breakdown torq Rated speed Heating constan Cooling constan	: 1 que : 2 ue : 2 : 7	4.8 ft.lb 210 % 220 %	Insulation Service fa Temperat	ı class actor	: F : 1.00 : 80 K	
Locked rotor tor Breakdown torq Rated speed Heating constan	: 1 que : 2 ue : 2 : 7	4.8 ft.lb 210 % 220 %	Insulation Service fa Temperat	ı class actor	: F : 1.00 : 80 K	Date
Locked rotor ton Breakdown torq Rated speed Heating constan Cooling constan	: 1 que : 2 ue : 2 : 7	4.8 ft.lb 210 % 220 % 710 rpm	Insulation Service fa Temperat	i class actor ure rise	: F : 1.00 : 80 K : B	Date
Locked rotor ton Breakdown torq Rated speed Heating constan Cooling constan	: 1 que : 2 ue : 2 : 7	4.8 ft.lb 210 % 220 % 710 rpm	Insulation Service fa Temperat	i class actor ure rise	: F : 1.00 : 80 K : B	Date
Locked rotor ton Breakdown torq Rated speed Heating constan Cooling constan Rev.	: 1 que : 2 ue : 2 : 7	4.8 ft.lb 210 % 220 % 710 rpm	Insulation Service fa Temperat	i class actor ure rise	: F : 1.00 : 80 K : B	Date Revision

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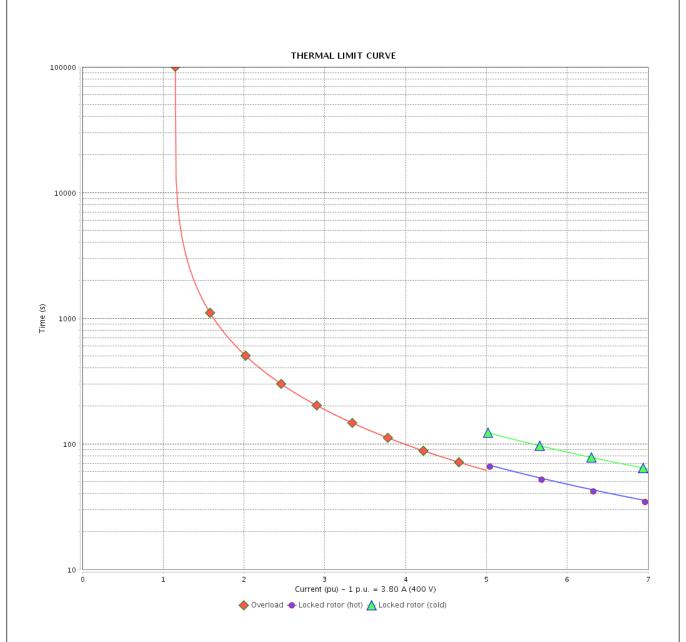


Customer	:					
Product line	:1	NEMA Premium Efficiency	Three-	Product code :	14504365	
	Р	hase				110T
				Catalog # :	00209XT3E2	-13T
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed Heating constant	: 3. : 7. : 14. que : 24. : 7.	00 V 50 Hz 8P IE3 .80 A .0 4.6 ft.lb 40 % 50 % 20 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 1.31 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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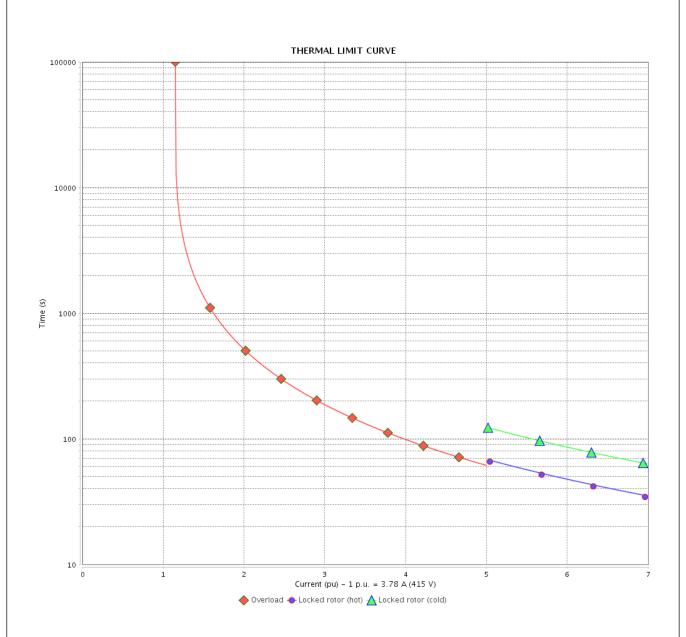


Customer	:					
Product line	:	NEMA Premium Efficiency	Three-	Product code :	14504365	
	F	Phase		Catalog # :	00209XT3E2 ²	13T
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed	: 3 : 7 : 1 que : 2 ue : 2 : 7	115 V 50 Hz 8P IE3 3.78 A 7.0 4.6 ft.lb 270 % 280 % 220 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class actor	: 1.31 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Performance Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar Cooling constan	: 3 : 7 : 1 que : 2 ue : 2 : 7	3.78 A 7.0 4.6 ft.lb 270 % 280 %	Duty cycle Insulation Service fa Temperat	e ı class actor	: Cont.(S1) : F : 1.00 : 80 K	
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar	: 3 : 7 : 1 que : 2 ue : 2 : 7	3.78 A 7.0 4.6 ft.lb 270 % 280 %	Duty cycle Insulation Service fa Temperat	e ı class actor	: Cont.(S1) : F : 1.00 : 80 K	Date
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar Cooling constan	: 3 : 7 : 1 que : 2 ue : 2 : 7	3.78 A 7.0 4.6 ft.lb 270 % 280 % 720 rpm	Duty cycle Insulation Service fa Temperat	e class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar Cooling constan	: 3 : 7 : 1 que : 2 ue : 2 : 7	3.78 A 7.0 4.6 ft.lb 270 % 280 % 720 rpm	Duty cycle Insulation Service fa Temperat	e class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constan Cooling constan Rev.	: 3 : 7 : 1 que : 2 ue : 2 : 7	3.78 A 7.0 4.6 ft.lb 270 % 280 % 720 rpm	Duty cycle Insulation Service fa Temperat	e class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date

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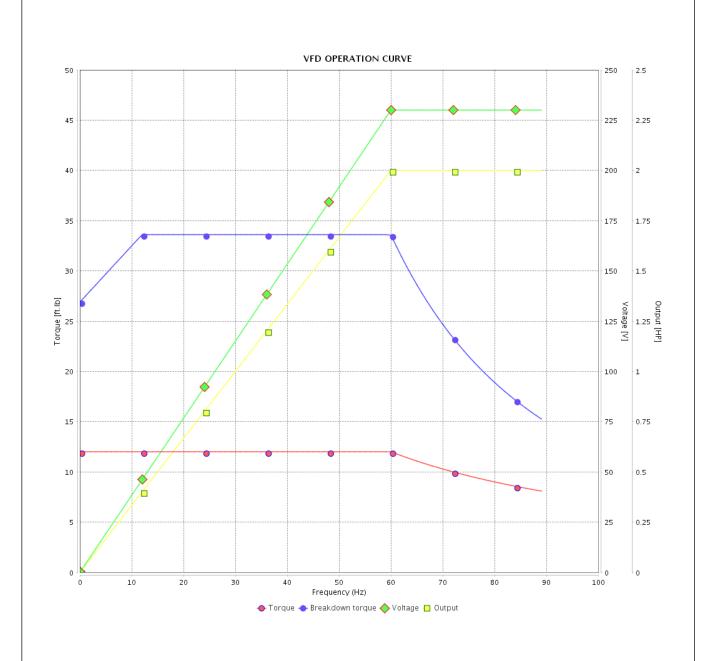
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 14504365

Catalog #: 00209XT3E213T



Performance	:	: 230/460 V 60 Hz 8P						
Rated current	:	: 7.0		Moment of inertia (J) Duty cycle				
LRC	:							
Rated torque	:			class	: F			
Locked rotor torque	e :	: 229 %	Service fa	ctor	: 1.15			
Breakdown torque	:	280 %	Temperati	Temperature rise				
Rated speed	:	: 875 rpm		Design				
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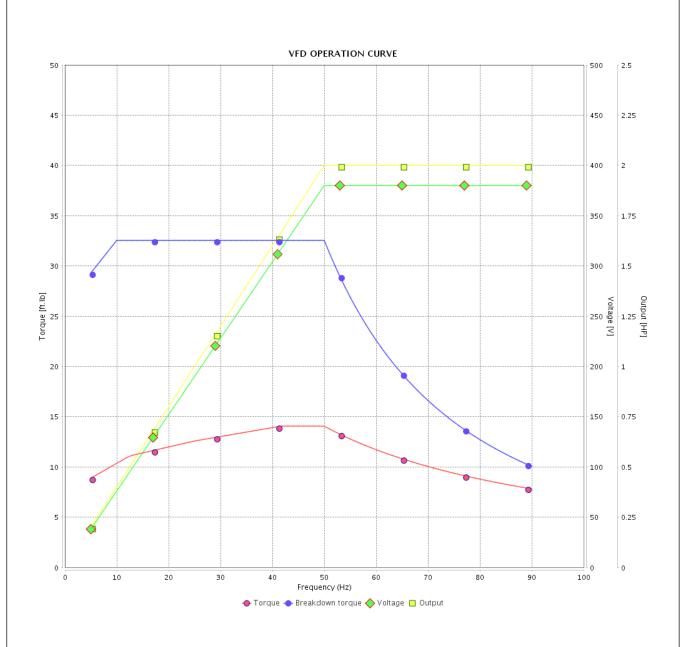
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14504365

Catalog #: 00209XT3E213T



Performance : 380 V 50 Hz 8P IE3 Rated current : 3.94 A Moment of inertia (J) : 1.31 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 14.8 ft.lb Insulation class Rated torque : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 710 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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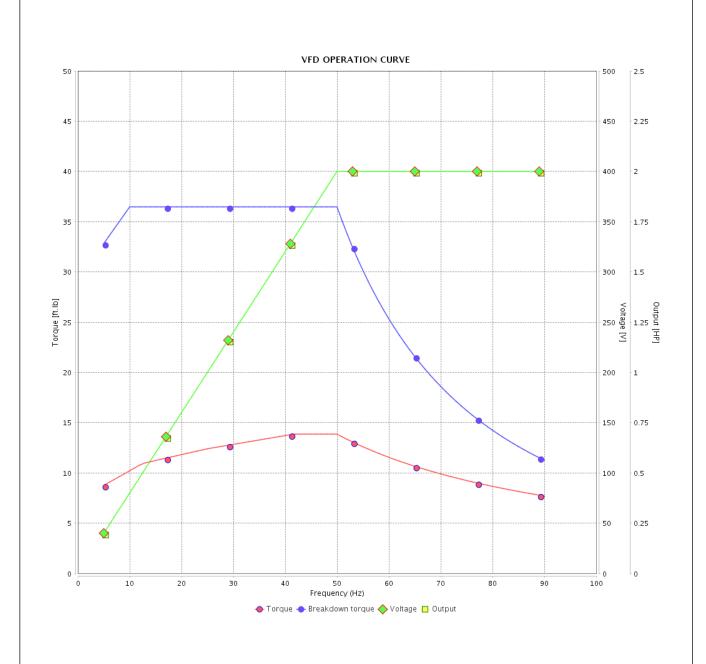
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Performance	: 400 V 50 Hz 8P IE3					
Rated current	: 3.80 A	Moment of inertia (J)		: 1.31 sq.ft.lb		
LRC	: 7.0	Duty cycle		: Cont.(S1)		
Rated torque	: 14.6 ft.lb		Insulation class		: F : 1.00	
Locked rotor torqu			Service factor			
Breakdown torque			Temperature rise			
Rated speed : 720 rpm		Design	Design		: B	
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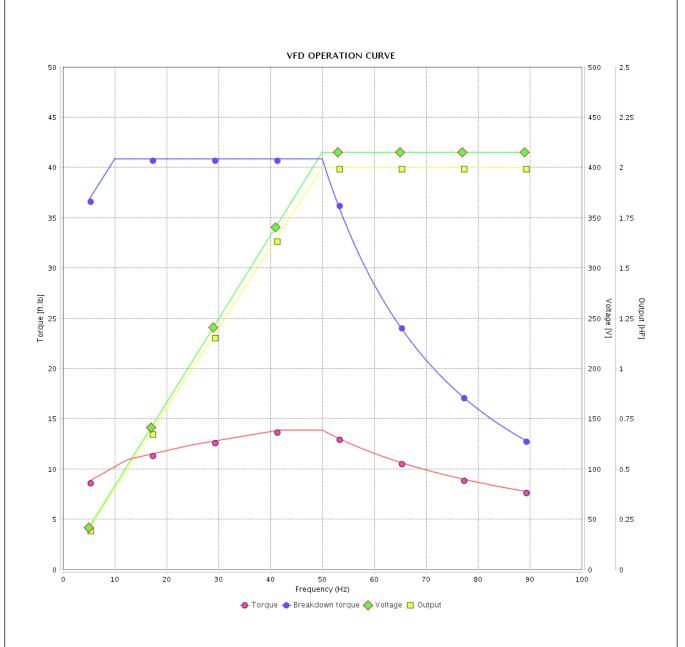
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14504365

Catalog #: 00209XT3E213T



Performance	: 4	15 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7 : 1 lue : 2 le : 2	5.78 A .0 4.6 ft.lb .70 % .80 % .20 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 1.31 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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