DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14284316

Catalog #: 00736XT3E213TC

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

Insulation class Mounting : F-1

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

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

: 1000 m.a.s.l. Approx. weight³ : 213 lb Altitude

: IP55 Protection degree Moment of inertia (J) : 0.4696 sq.ft.lb

Design · B

Design		: B			
Output [HP]		7.5	7.5	7.5	7.5
Poles		2	2	2	2
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		17.1/8.57	10.3	9.89	9.61
L. R. Amperes [A]		120/60.0	63.9	67.3	71.1
LRC [A]		7.0x(Code H)	6.2x(Code G)	6.8x(Code G)	7.4x(Code H)
No load current [A]		5.60/2.80	2.70	2.85	2.90
Rated speed [RPN	/ 1]	3525	2900	2910	2920
Slip [%]		2.08	3.33	3.00	2.67
Rated torque [ft.lb]		11.2	13.6	13.5	13.5
Locked rotor torqu		240	190	210	290
Breakdown torque	[%]	330	240	270	310
Service factor		1.15	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		41s (cold) 23s (hot)	46s (cold) 26s (hot)	46s (cold) 26s (hot)	46s (cold) 26s (hot)
Noise level ²		72.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)
	25%	84.3	84.9	85.6	85.3
Efficiency (%)	50%	85.5	86.5	86.5	86.5
Linciency (70)	75%	88.5	87.5	88.5	88.5
	100%	89.5	89.0	89.2	89.5
	25%	0.53	0.61	0.57	0.55
Power Factor	50%	0.78	0.84	0.81	0.79
1 OWCI I actor	75%	0.87	0.89	0.88	0.86
	100%	0.90	0.91	0.90	0.89

Drive end Non drive end Foundation loads

Bearing type 6308 2RS 6207 2RS Max. traction : 129 lb Sealing Oil Seal Lip Seal Max. compression : 342 lb

Lubrication interval Lubricant amount

Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 19.8A SF 1.15 SFA 22.8A

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

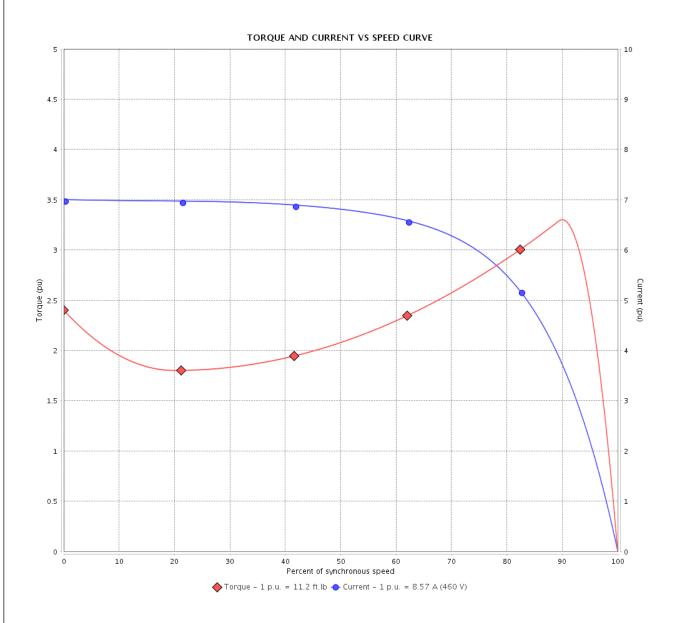
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Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 14284316

> Catalog #: 00736XT3E213TC



Performance : 230/460 V 60 Hz 2P Rated current : 17.1/8.57 A Moment of inertia (J) : 0.4696 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) Rated torque : 11.2 ft.lb Insulation class : F : 240 % Locked rotor torque Service factor : 1.15 Breakdown torque : 330 % Temperature rise : 80 K : B Rated speed : 3525 rpm Design Locked rotor time : 41s (cold) 23s (hot)

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Three Phase Induction Motor - Squirrel Cage



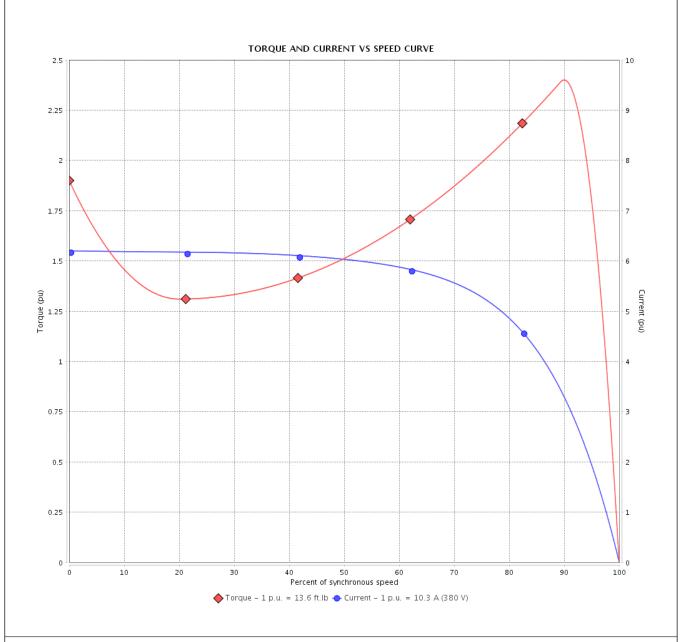
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 14284316

Catalog #: 00736XT3E213TC



Performance : 380 V 50 Hz 2P IE2 Rated current : 10.3 A Moment of inertia (J) : 0.4696 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 13.6 ft.lb Service factor Locked rotor torque : 190 % : 1.00 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 2900 rpm Design : B

Locked rotor time : 46s (cold) 26s (hot)

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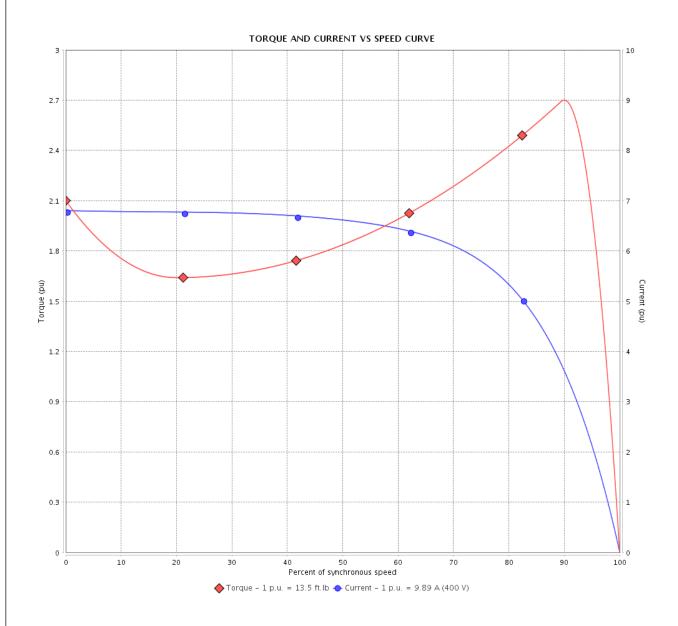
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14284316

Catalog #: 00736XT3E213TC



Performance	: 400 V 50 Hz 2P IE3			
Rated current	: 9.89 A	Moment of inertia (J)	: 0.4696 sq.ft.lb	
LRC	: 6.8	Duty cycle	: Cont.(S1)	
Rated torque	: 13.5 ft.lb	Insulation class	: F	
Locked rotor torque	: 210 %	Service factor	: 1.00	
Breakdown torque	: 270 %	Temperature rise	: 80 K	
Rated speed	: 2910 rpm	Design	: B	

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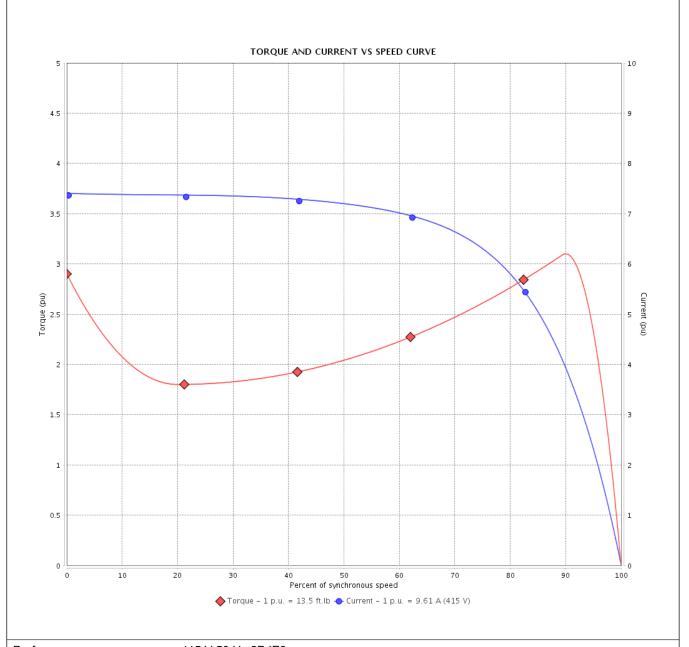
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14284316

Catalog #: 00736XT3E213TC



Performance : 415 V 50 Hz 2P IE3 Rated current : 9.61 A Moment of inertia (J) : 0.4696 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : F : 13.5 ft.lb Insulation class Rated torque Service factor : 1.00

Locked rotor torque: 290 %Service factor: 1.00Breakdown torque: 310 %Temperature rise: 80 KRated speed: 2920 rpmDesign: B

Locked rotor time : 46s (cold) 26s (hot)

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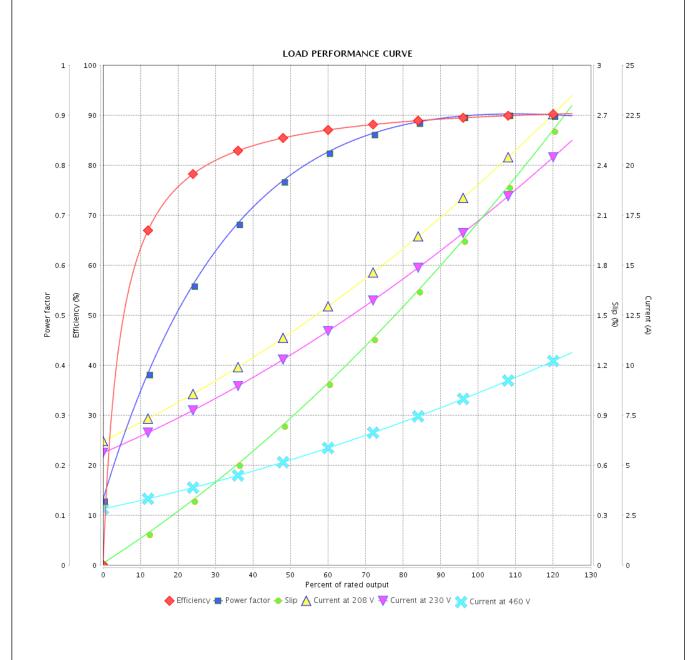


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14284316

Phase

Catalog #: 00736XT3E213TC



Performance	: 2	230/460 V 60 Hz 2P				
Rated current	: 1	7.1/8.57 A	Moment o	f inertia (J)	: 0.4696 sq.ft.lb	
LRC	: 7	' .0	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	1.2 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	240 %	Service fa	ctor	: 1.15	
Breakdown torque	: 3	330 %	Temperature rise		: 80 K	
Rated speed	: 3	3525 rpm	Design		: B	
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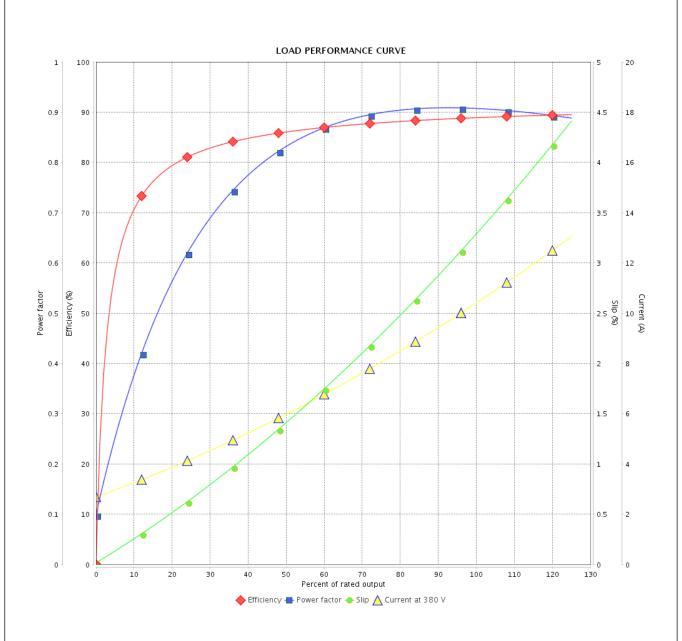
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 14284316

Catalog #: 00736XT3E213TC



Performance	: 380 V 50 Hz 2P IE2				
Rated current	: 10.3 A	Moment of	f inertia (J)	: 0.4696 sq.ft.	.lb
LRC	: 6.2	Duty cycle)	: Cont.(S1)	
Rated torque	: 13.6 ft.lb	Insulation	class	: F	
Locked rotor torque	: 190 %	Service fa	ctor	: 1.00	
Breakdown torque	: 240 %	Temperature rise		: 80 K	
Rated speed	: 2900 rpm	Design		: B	
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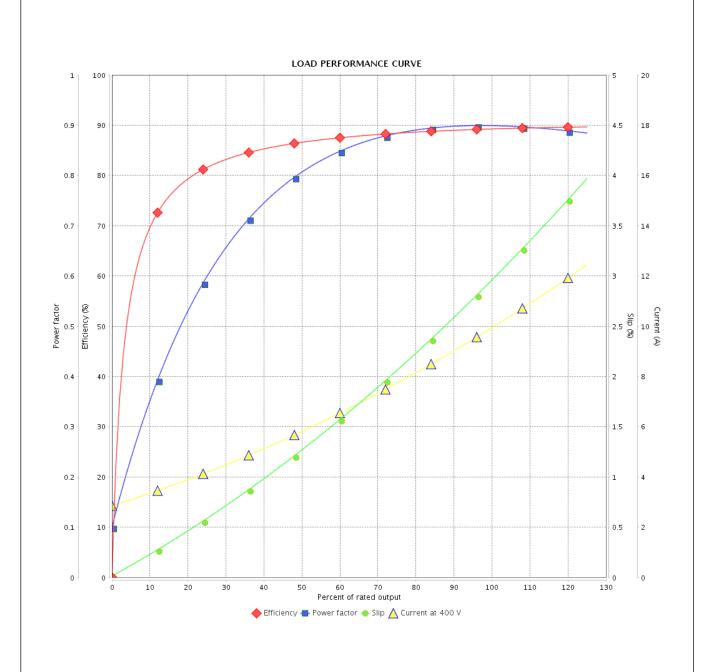
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 14284316

Catalog #: 00736XT3E213TC



Performance	: 4	100 V 50 Hz 2P IE3				
Rated current	: 9	: 9.89 A Moment of		of inertia (J) : 0.4696 s		.lb
LRC	: 6	3.8	Duty cycle	:	: Cont.(S1)	
Rated torque	: 1	3.5 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	210 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	270 %	Temperati	Temperature rise		
Rated speed	: 2	2910 rpm	Design		: B	
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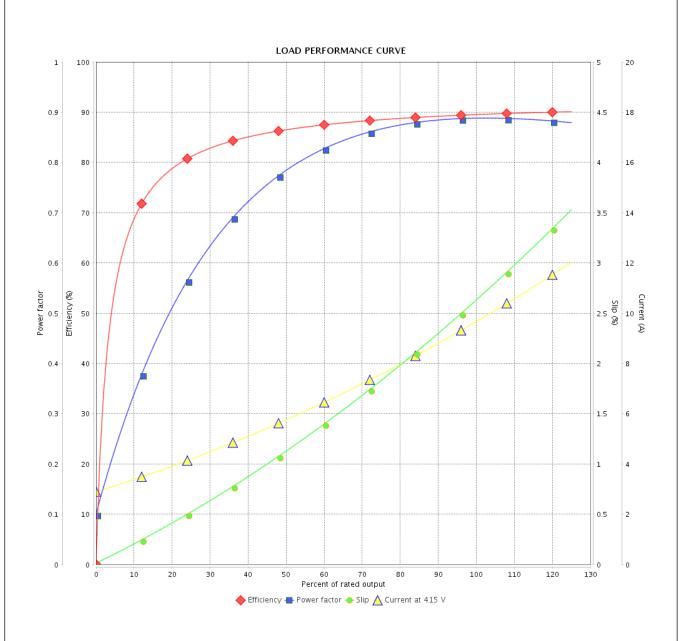
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14284316

Catalog #: 00736XT3E213TC



Performance	: 415 V 50 Hz 2P IE3				
Rated current	: 9.61 A	Moment of	inertia (J)	: 0.4696 sq.ft.lb	
LRC	: 7.4	Duty cycle		: Cont.(S1)	
Rated torque	: 13.5 ft.lb	Insulation	class	: F	
Locked rotor torque	: 290 %	Service fac	ctor	: 1.00	
Breakdown torque	: 310 %	Temperature rise		: 80 K	
Rated speed	: 2920 rpm	Design		: B	
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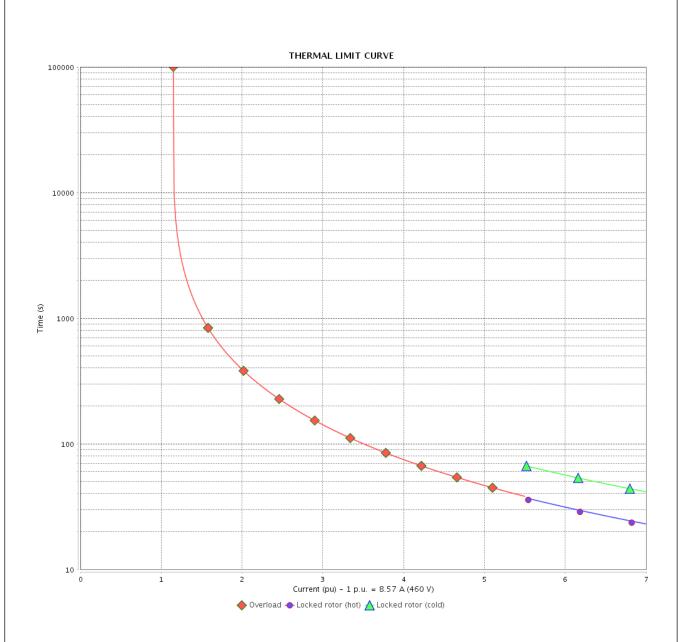


Customer	:					
Product line	: î Pl	NEMA Premium Efficiency ⁻ hase		Product code : Catalog # :	14284316 00736XT3E	213TC
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: 17 : 7. : 11 que : 2 ² ue : 33	30/460 V 60 Hz 2P 7.1/8.57 A .0 1.2 ft.lb 40 % 30 % 525 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ictor	: 0.4696 sq.ft. : Cont.(S1) : F : 1.15 : 80 K : B	lb
Heating constant	<u>t</u>					
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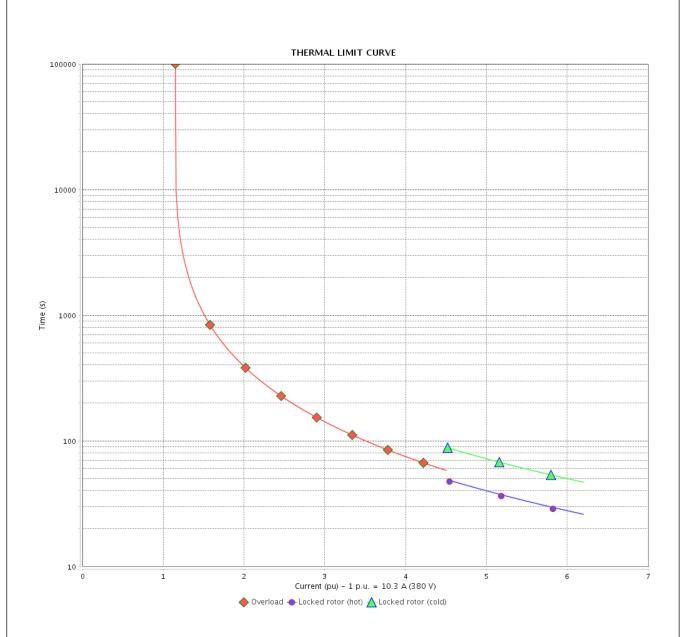


Product line		NEMA Premium Efficiency T	hree-	Product code :	14284316	
	•	Tidoo		Catalog # :	00736XT3E2	213TC
Rated current _RC Rated torque _ocked rotor tor Breakdown torq	: 1 : 6 : 1 que : 1 ue : 2	3.6 ft.lb 90 % 40 %	Moment of Duty cycle Insulation Service fa Temperate Design	class ictor	: 0.4696 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : B	lb
Performance Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar	: 1 : 6 : 1 que : 1 ue : 2 : 2	0.3 A .2 3.6 ft.lb 90 % 40 %	Duty cycle Insulation Service fa Temperate	e class actor	: Cont.(S1) : F : 1.00 : 80 K	lb
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed	: 1 : 6 : 1 que : 1 ue : 2 : 2	0.3 A .2 3.6 ft.lb 90 % 40 %	Duty cycle Insulation Service fa Temperate	e class actor	: Cont.(S1) : F : 1.00 : 80 K	lb
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed	: 1 : 6 : 1 que : 1 ue : 2 : 2	0.3 A .2 3.6 ft.lb 90 % 40 %	Duty cycle Insulation Service fa Temperate	e class actor	: Cont.(S1) : F : 1.00 : 80 K	lb Date
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar Cooling constar	: 1 : 6 : 1 que : 1 ue : 2 : 2	0.3 A 5.2 3.6 ft.lb 90 % 40 %	Duty cycle Insulation Service fa Temperate	e class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar Cooling constar	: 1 : 6 : 1 que : 1 ue : 2 : 2	0.3 A 5.2 3.6 ft.lb 90 % 40 %	Duty cycle Insulation Service fa Temperate	e class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar Cooling constar Rev.	: 1 : 6 : 1 que : 1 ue : 2 : 2	0.3 A 5.2 3.6 ft.lb 90 % 40 %	Duty cycle Insulation Service fa Temperate	e class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	

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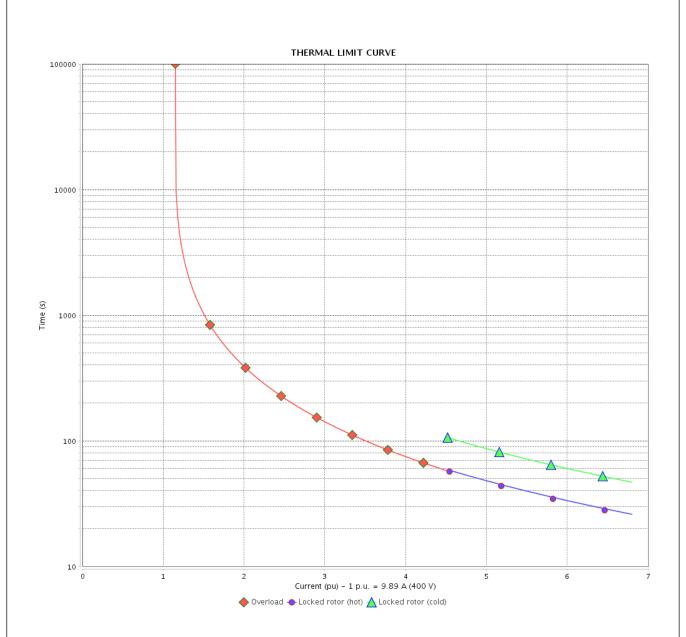


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Product line		NEMA Premium Efficiency	Throo	Product code :	14284316	
i roduct iirie		hase				
				Catalog # :	00736XT3E2	213TC
Performance		00 V 50 Hz 2P IE3	1			
Rated current LRC	: 9 : 6	.89 A 8	Moment of Duty cycle	of inertia (J)	: 0.4696 sq.ft. : Cont.(S1)	lb
Rated torque	: 1	3.5 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 2	10 %	Service fa		: 1.00	
Breakdown torqu Rated speed		70 % 910 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constan		•				
Cooling constan						
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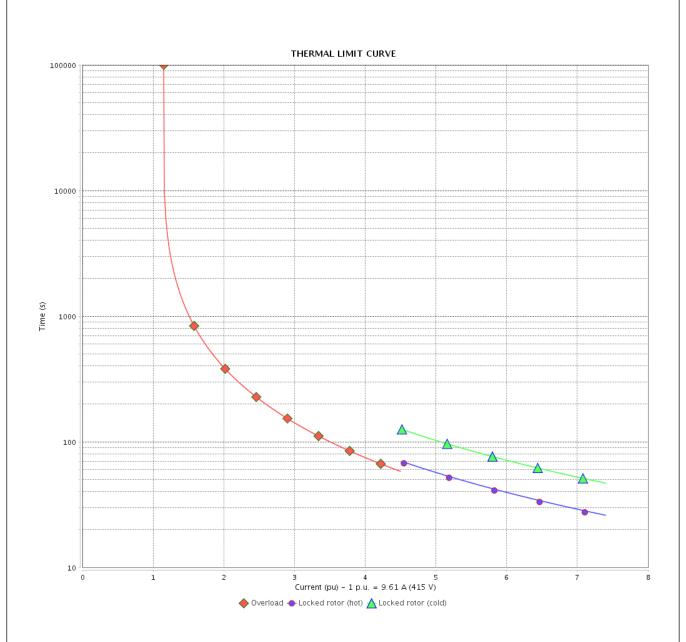


Customer	:					
Product line	: î Pl	NEMA Premium Efficiency [·] hase		Product code : Catalog # :	14284316 00736XT3E	213TC
Performance Rated current LRC Rated torque Locked rotor tord	: 9. : 7. : 13 que : 29	3.5 ft.lb 90 %	Duty cycle Insulation Service fa	class ictor	: 0.4696 sq.ft. : Cont.(S1) : F : 1.00	lb
Breakdown torqu Rated speed Heating constant	: 29	10 % 920 rpm	Temperati Design	ure rise	: 80 K : B	
Cooling constant						
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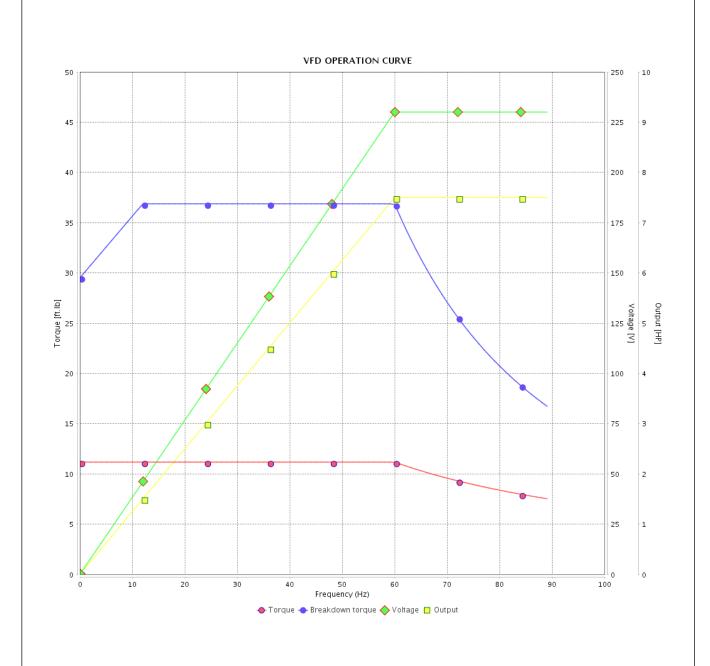


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14284316

Phase

Catalog #: 00736XT3E213TC



Performance	: 2	30/460 V 60 Hz 2P				
Rated current		: 17.1/8.57 A Moment of inertia (J)		` '	: 0.4696 sq.ft.lb	
LRC	: 7.	.0	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	1.2 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 24	40 %	Service fa	ctor	: 1.15	
Breakdown torque	: 33	30 %	Temperature rise		: 80 K	
Rated speed	: 3	525 rpm	Design		: B	
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Date

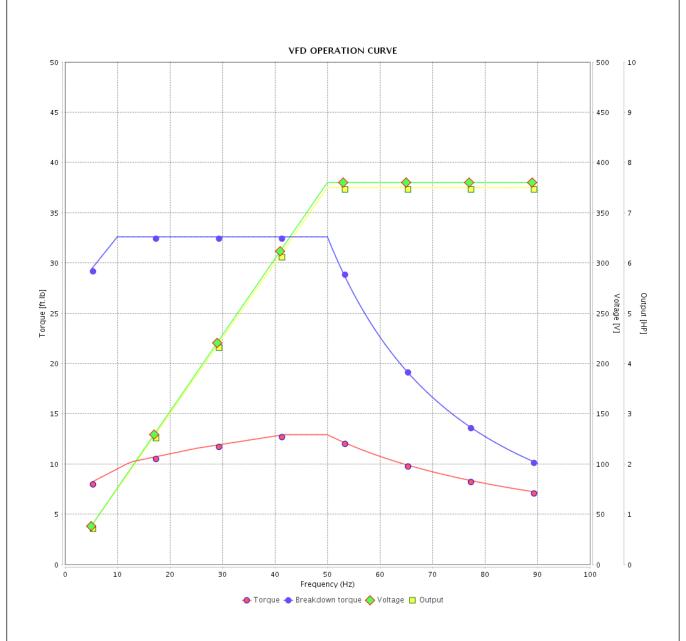
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Product line : NEMA Premium Efficiency Three- Prod

Phase

Product code: 14284316

Catalog #: 00736XT3E213TC



Performance : 380 V 50 Hz 2P IE2 : 10.3 A Rated current Moment of inertia (J) : 0.4696 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) : 13.6 ft.lb Insulation class : F Rated torque Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 2900 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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Three Phase Induction Motor - Squirrel Cage

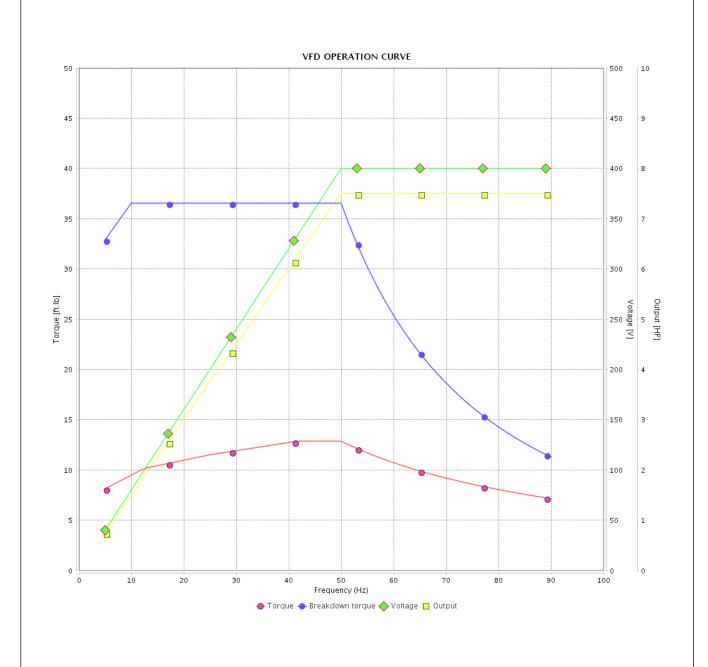


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14284316

Phase

Catalog #: 00736XT3E213TC



Performance	: 40	00 V 50 Hz 2P IE3				
Rated current	: 9	: 9.89 A		Moment of inertia (J)		.lb
LRC	: 6	.8	Duty cycle	;	: Cont.(S1)	
Rated torque	: 13	3.5 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	10 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	70 %	Temperati	Temperature rise		
Rated speed	: 29	910 rpm	Design		: B	
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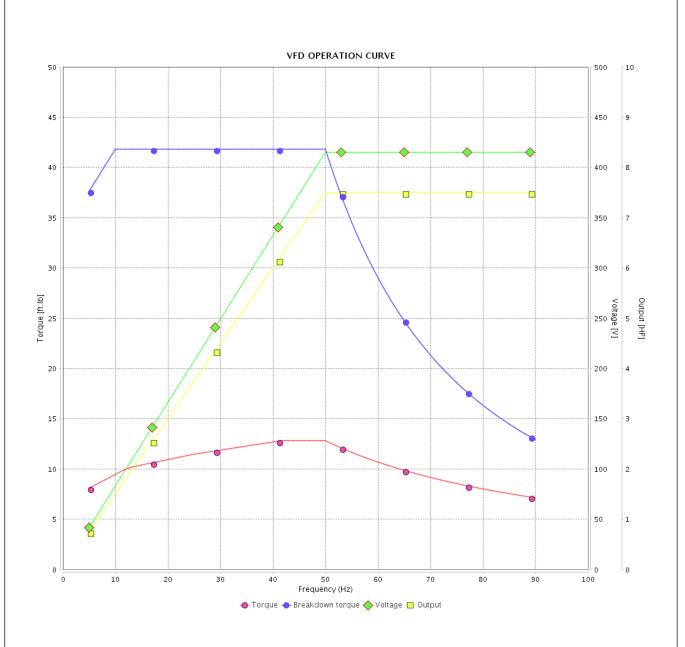
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14284316

Catalog #: 00736XT3E213TC



Performance : 415 V 50 Hz 2P IE3 Rated current : 9.61 A Moment of inertia (J) : 0.4696 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) Insulation class : 13.5 ft.lb : F Rated torque Locked rotor torque : 290 % Service factor : 1.00 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 2920 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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