### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14437424

Phase

Catalog #: 00309XT3E215T

Frame : 213/5T 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> : 209 lb

Protection degre					
Design		: B			
Output [HP]		3	3	3	3
Poles		8	8	8	8
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		8.84/4.42	5.33	5.20	5.08
L. R. Amperes [A]		62.8/31.4	30.9	32.2	33.5
LRC [A]		7.1x(Code K)	5.8x(Code H)	6.2x(Code J)	6.6x(Code K)
No load current [A	.]	5.60/2.80	2.80	3.00	3.20
Rated speed [RPI	И]	870			715
Slip [%]		3.33	6.00 5.33		4.67
Rated torque [ft.lb	]	18.1	22.3	22.2	22.0
Locked rotor torqu	ıe [%]	210	180		
Breakdown torque	: [%]	270	270 200 229		260
Service factor		1.15	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		57s (cold) 32s (hot)	45s (cold) 25s (hot)	45s (cold) 25s (hot)	45s (cold) 25s (hot)
Noise level <sup>2</sup>		52.0 dB(A)	48.0 dB(A)	48.0 dB(A)	48.0 dB(A)
	25%	83.7	83.0	82.1	83.4
Efficiency (%)	50%	84.0	82.5	82.5	82.5
Efficiency (%)	75%	85.5	82.5	82.5	84.0
	100%	85.5	81.5	82.5	82.5
	25%	0.30	0.35	0.31	0.28
Power Factor	50%	0.54	0.61	0.54	0.51
Fower Facior	75%	0.65	0.71	0.66	0.64
	100%	0.73	0.77	0.74	0.73

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

Bearing type : 6308 2RS 6207 2RS Max. traction : 219 lb Sealing : Oil Seal Lip Seal Max. compression : 427 lb

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

Notes

USABLE @208V 9.82A SF 1.15 SFA 11.3A

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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# DATA SHEET

### 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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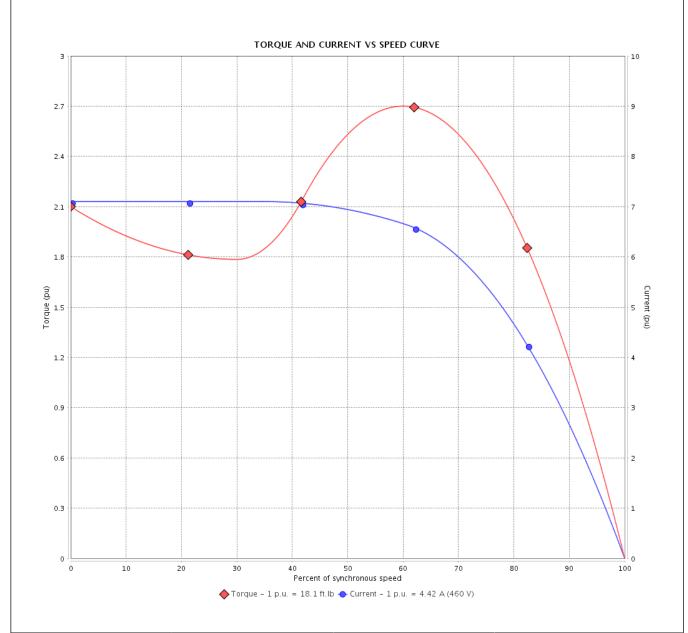
#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14437424

Catalog # : 00309XT3E215T



Performance	: 230/460 V 60 Hz 8P			
Rated current	: 8.84/4.42 A	Moment of inertia (J)	: 1.79 sq.ft.lb	
LRC	: 7.1	Duty cycle	: Cont.(S1)	
Rated torque	: 18.1 ft.lb	Insulation class	: F	
Locked rotor torque	: 210 %	Service factor	: 1.15	
Breakdown torque	: 270 %	Temperature rise	: 80 K	
Rated speed	: 870 rpm	Design	: B	

Locked rotor time : 57s (cold) 32s (hot)

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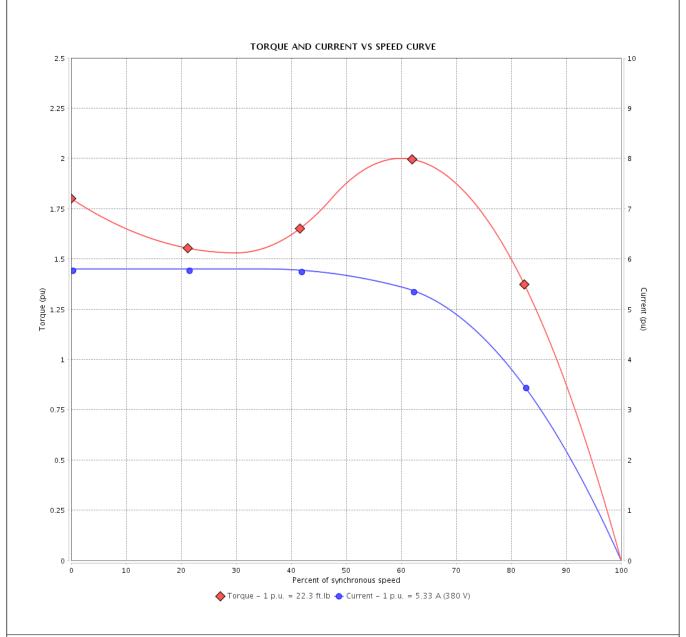
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14437424

Catalog #: 00309XT3E215T



Performance : 380 V 50 Hz 8P IE2 Rated current : 5.33 A Moment of inertia (J) : 1.79 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 22.3 ft.lb Service factor Locked rotor torque : 180 % : 1.00 Breakdown torque : 200 % Temperature rise : 80 K Rated speed : 705 rpm Design : B

Locked rotor time : 45s (cold) 25s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 14437424 Catalog #: 00309XT3E215T TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 (pd) 1.25 Current g 0.5 0.25 Percent of synchronous speed ◆ Torque – 1 p.u. = 22.2 ft.lb ◆ Current – 1 p.u. = 5.20 A (400 V) Performance : 400 V 50 Hz 8P IE3 Rated current : 5.20 A Moment of inertia (J) : 1.79 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) : 22.2 ft.lb Insulation class : F Rated torque : 210 % Locked rotor torque Service factor : 1.00 : 80 K Breakdown torque : 229 % Temperature rise : B Rated speed : 710 rpm Design Locked rotor time : 45s (cold) 25s (hot)

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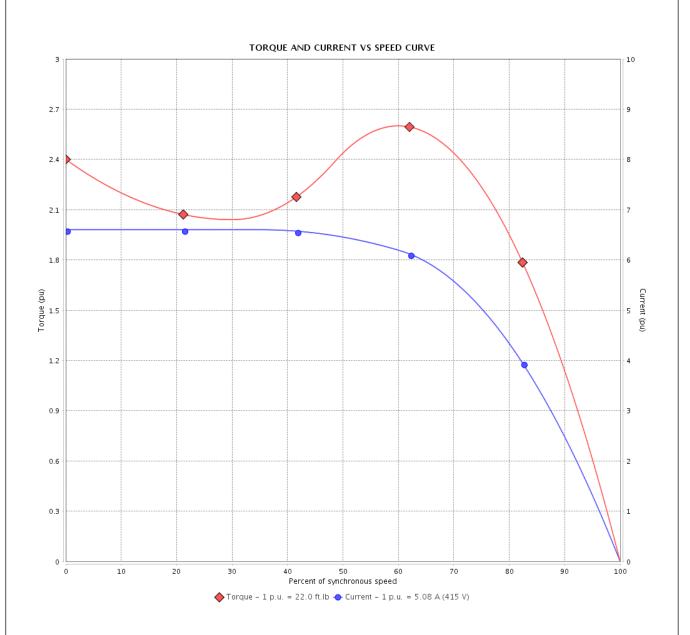


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 00309XT3E215T

14437424



Performance : 415 V 50 Hz 8P IE3 Rated current : 5.08 A Moment of inertia (J) : 1.79 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) : 22.0 ft.lb Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 715 rpm Design : B

Locked rotor time : 45s (cold) 25s (hot)

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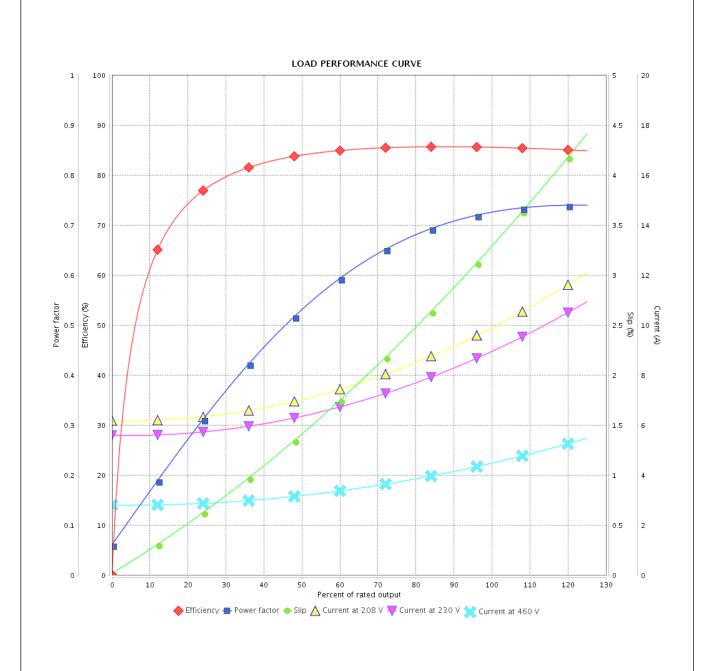


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 00309XT3E215T

14437424



Performance	: 2	230/460 V 60 Hz 8P				
Rated current	: 8	.84/4.42 A	Moment o	f inertia (J)	: 1.79 sq.ft.lb	
LRC	: 7	.1	Duty cycle	<del>)</del>	: Cont.(S1)	
Rated torque	: 1	8.1 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 2	10 %	Service fa	ctor	: 1.15	
Breakdown torqu	ue : 2	70 %	Temperature rise		: 80 K	
Rated speed	: 8	70 rpm Design		: B		
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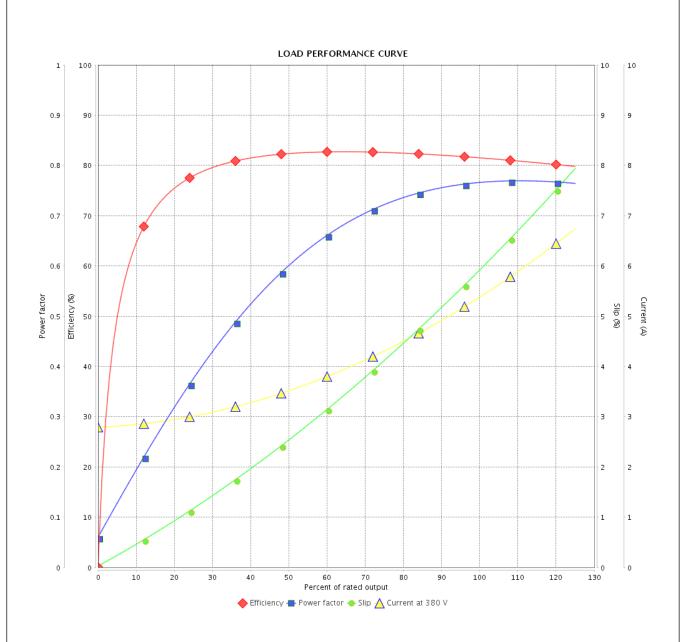
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 14437424

Catalog #: 00309XT3E215T



Performance	: 380 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5.33 A : 5.8 : 22.3 ft.lb : 180 % : 200 % : 705 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 1.79 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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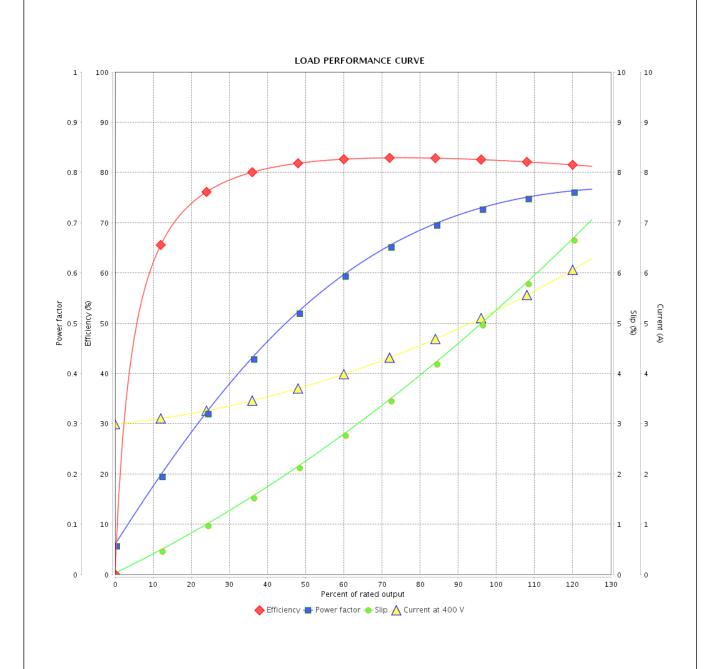
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14437424

Catalog #: 00309XT3E215T



Performance	: 4	00 V 50 Hz 8P IE3				
Rated current : 5		.20 A	Moment of	Moment of inertia (J)		
LRC	: 6.2 Duty cycle		: Cont.(S1)			
Rated torque	: 2	2.2 ft.lb	Insulation class		: F	
Locked rotor tord	otor torque : 210 % Service factor		: 1.00			
Breakdown torqu	ue : 2	29 %	7 Temperature rise		: 80 K	
Rated speed	: 7	: 710 rpm Des			: B	
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

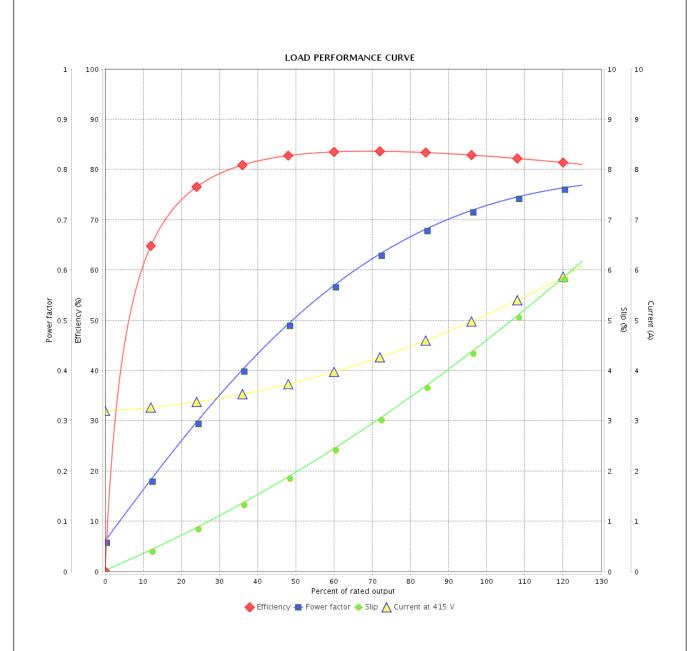
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Performance	: 4	415 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 2 : 2 : 4 : 4 : 4 : 4 : 4 : 4 : 4 : 4 : 4 : 4	5.08 A 6.6 22.0 ft.lb 240 % 260 % 715 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 1.79 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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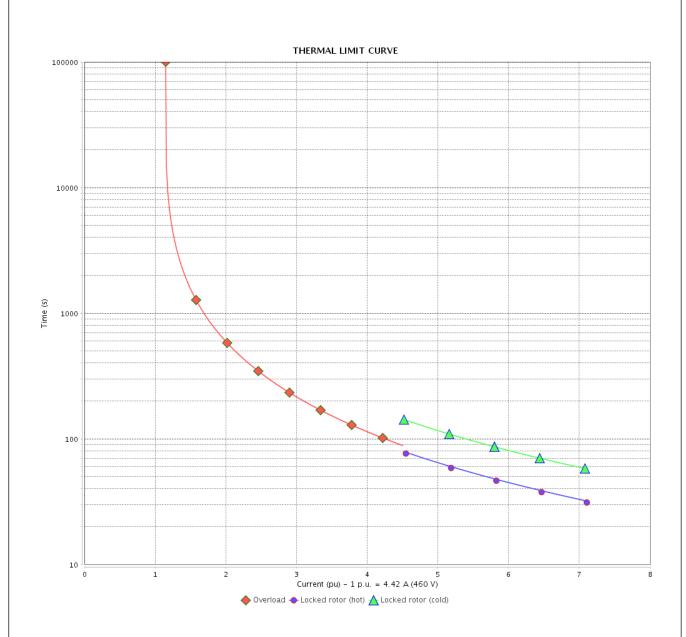


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Product line		NEMA Premium Efficiency Phase		Product code :	14437424	
				Catalog # :	00309XT3E2	15T
Performance		30/460 V 60 Hz 8P	Moment	of inactio ( I)	: 1.70 og ft lb	
Rated current LRC	: 7	3.84/4.42 A ′.1	Duty cycle	of inertia (J) e	: 1.79 sq.ft.lb : Cont.(S1)	
Rated torque		8.1 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown tord	que : 2	210 % 270 %	Service fa Temperat		: 1.15 : 80 K	
Rated speed		370 rpm	Design	uic lise	: B	
Heating constan	t					
Cooling constan						
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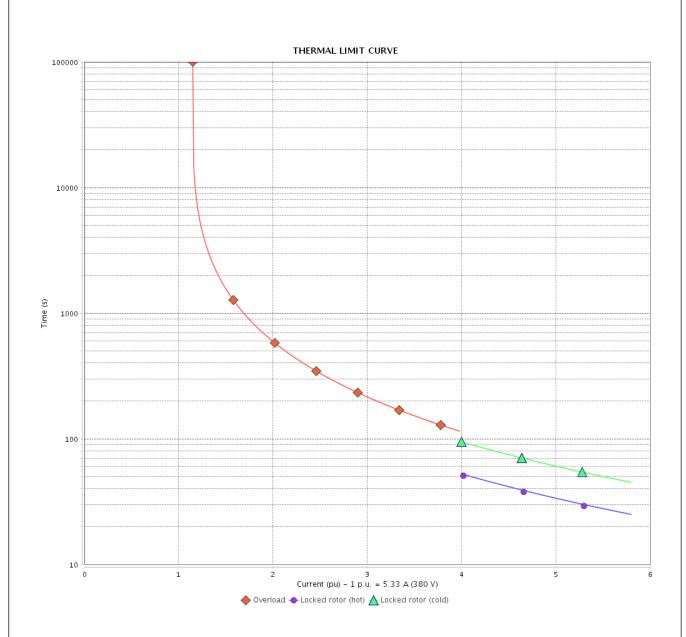


Customer	:					
Product line	:1	NEMA Premium Efficiency	Three-	Product code :	14437424	
		hase		Catalog # :	00309XT3E2	215T
Performance Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed Heating constan	: 5. : 5. : 2: que : 1: le : 20 : 70	80 V 50 Hz 8P IE2 .33 A .8 2.3 ft.lb 80 % 00 % 05 rpm	Moment of Duty cycle Insulation Service fa Temperati Design	class actor	: 1.79 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Cooling constant	t					
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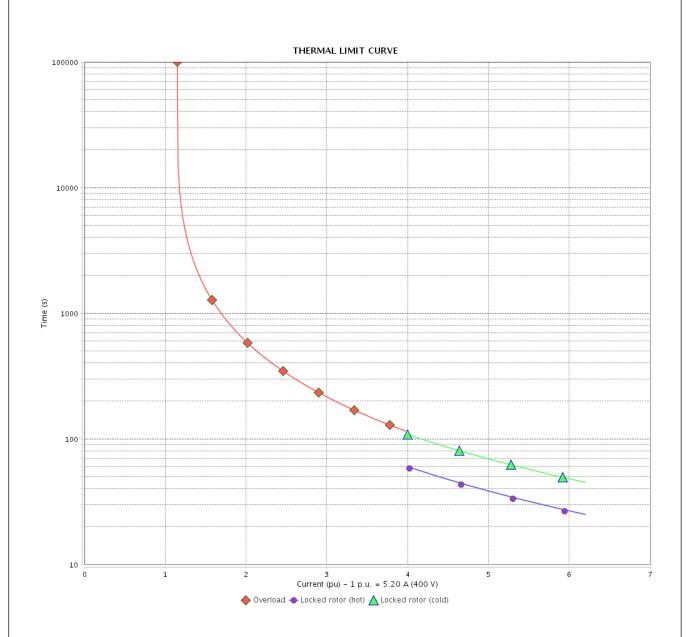


Customer	:					
Product line		NEMA Premium Efficiency	Three	Product code :	14437424	
Product line		Phase				
				Catalog # :	00309XT3E2	15T
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Performance Rated current		.00 V 50 Hz 8P IE3	Momont	of inactio ( I)	: 1.70 og ft lb	
LRC	: 6		Duty cycle	of inertia (J) e	: 1.79 sq.ft.lb : Cont.(S1)	
Rated torque		2.2 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown tord	que : 2 .e : 2	10 % 29 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		10 rpm	Design	410 1100	: B	
Heating constan	t					
Cooling constan						
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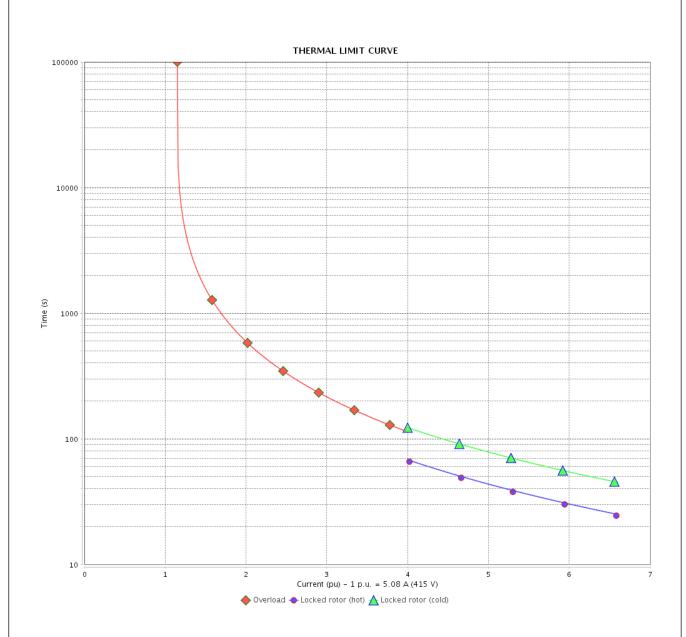


Customer	:					
Product line	:	NEMA Premium Efficiency	Three-	Product code :	14437424	
		hase		Catalog # :	00309XT3E2	15T
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed	: 5 : 6 : 2 que : 2 ue : 2 : 7	15 V 50 Hz 8P IE3 .08 A .6 2.0 ft.lb 40 % 60 % 15 rpm	Moment of Duty cycle Insulation Service for Temperat Design	class actor	: 1.79 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 constar	: 5 : 6 : 2 que : 2 ue : 2 : 7	.08 A .6 2.0 ft.lb 40 % 60 % 15 rpm	Duty cycle Insulation Service fa Temperat	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	: 5 : 6 : 2 que : 2 ue : 2 : 7	.08 A .6 2.0 ft.lb 40 % 60 %	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 constan Cooling constan Rev.	: 5 : 6 : 2 que : 2 ue : 2 : 7	.08 A .6 2.0 ft.lb 40 % 60 % 15 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	: 5 : 6 : 2 que : 2 ue : 2 : 7	.08 A .6 2.0 ft.lb 40 % 60 % 15 rpm	Duty cycle Insulation Service fa Temperat	e class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date
Rated current .RC Rated torque .ocked rotor tor Breakdown torq Rated speed Heating constan Cooling constan Rev.	: 5 : 6 : 2 que : 2 ue : 2 : 7	.08 A .6 2.0 ft.lb 40 % 60 % 15 rpm	Duty cycle Insulation Service fa Temperat	e class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date

### Three Phase Induction Motor - Squirrel Cage



Customer :



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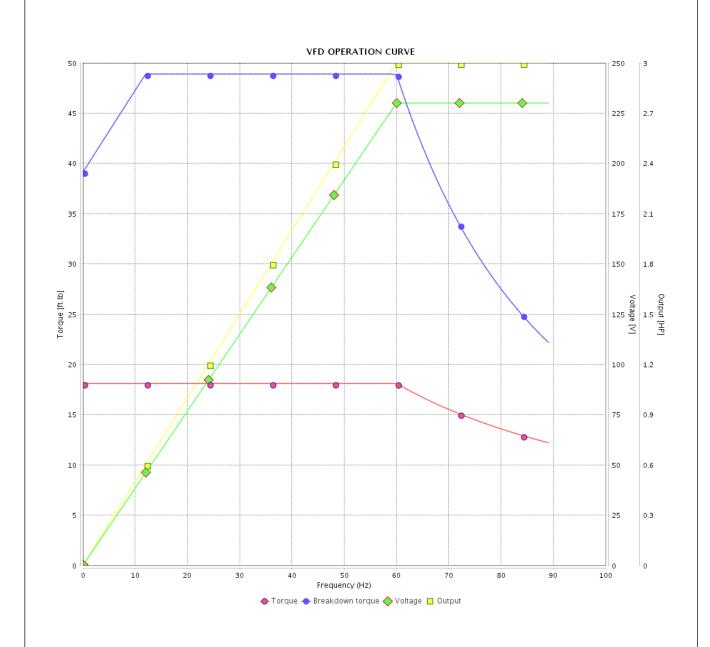
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 14437424





Performance	: 230/460 V 60 Hz 8P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 8.84/4.42 A : 7.1 : 18.1 ft.lb : 210 % : 270 % : 870 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 1.79 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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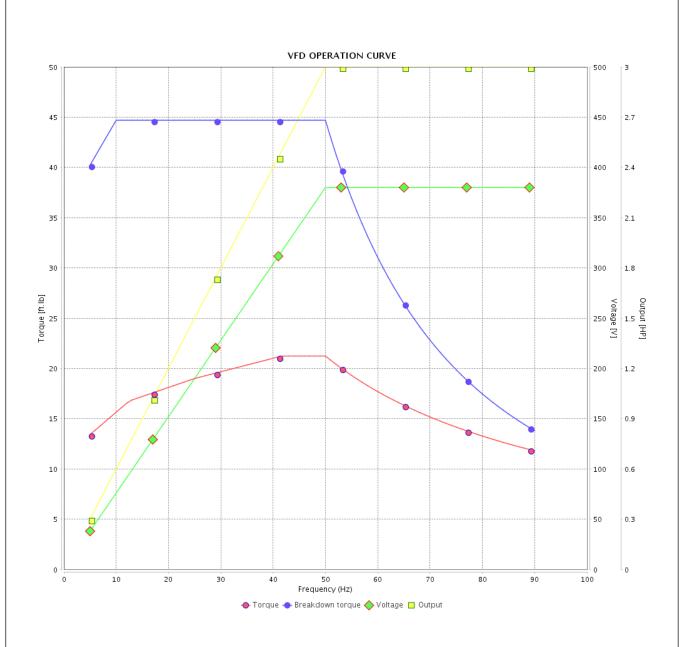
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 14437424

Catalog #: 00309XT3E215T



Performance : 380 V 50 Hz 8P IE2 : 5.33 A Moment of inertia (J) : 1.79 sq.ft.lb Rated current **LRC** : Cont.(S1) : 5.8 Duty cycle : 22.3 ft.lb Insulation class : F Rated torque Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 200 % Temperature rise : 80 K Rated speed : 705 rpm Design : B

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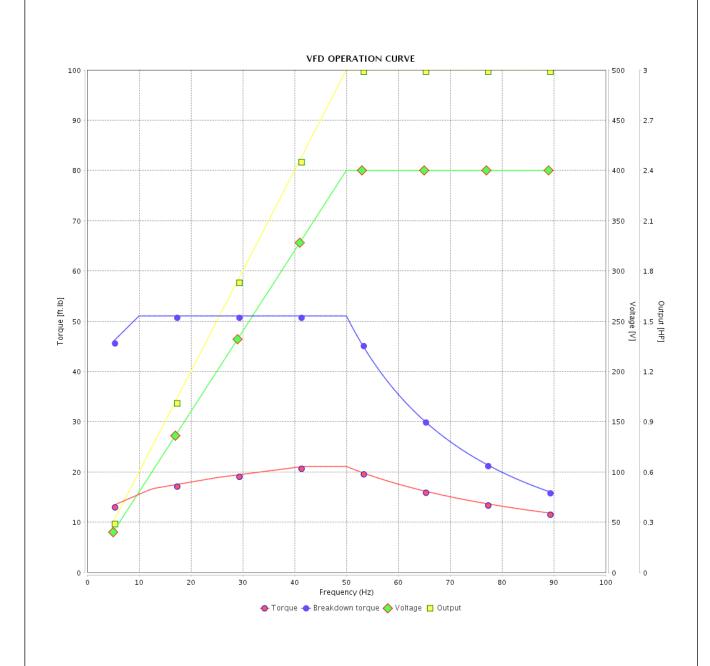
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14437424

Catalog #: 00309XT3E215T



Performance	: 40	: 400 V 50 Hz 8P IE3							
Rated current	: 5.	: 5.20 A Mome		f inertia (J)	: 1.79 sq.ft.lb				
LRC	: 6.	: 6.2		Duty cycle		: Cont.(S1)			
Rated torque	: 22	2.2 ft.lb	Insulation	class	: F				
Locked rotor torq	ue : 2	10 %	Service fa	Service factor					
Breakdown torqu	e : 22	29 %	Temperati	Temperature rise Design					
Rated speed	: 7	10 rpm	Design						
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#### Three Phase Induction Motor - Squirrel Cage



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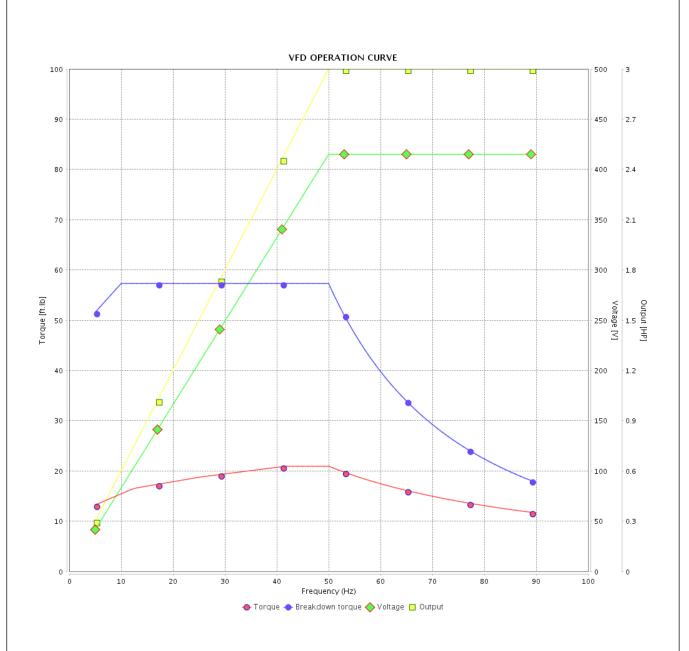
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Product line : NEMA Premium Efficiency Three- Pro

Phase

Product code: 14437424

Catalog #: 00309XT3E215T



Performance	: 4	15 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 22 jue : 24 ie : 26	: 5.08 A       Moment of Duty cycle         : 6.6       Duty cycle         : 22.0 ft.lb       Insulation         : 240 %       Service fa         : 260 %       Temperat         : 715 rpm       Design		class ctor	: 1.79 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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