### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14504503

Phase

Catalog #: 05036XT3E326TS

Frame : 326TS 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> : 669 lb

Protection degree		: IP55 Moment of inertia (J) : 5.42 sq.ft.lt		sq.ft.lb	
Design		: B			
Output [HP]		50	40	40	40
Poles		2	2	2	2
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		111/55.5	55.1	52.6	51.0
L. R. Amperes [A]		799/400	369	389	403
LRC [A]		7.2x(Code H)	6.7x(Code G)	7.4x(Code H)	7.9x(Code J)
No load current [A]	]	29.5/14.8	14.5	15.7	16.6
Rated speed [RPN	<b>/</b> 1]	3560	2960	2965	2965
Slip [%]		1.11	1.33	1.17	1.17
Rated torque [ft.lb]		73.8	71.0	70.8	70.8
Locked rotor torque [%]		260	240	270	280
Breakdown torque [%]		260	250	280	300
Service factor		1.15	1.00	1.00 1.00	
Temperature rise		80 K	80 K	80 K 80 K	
Locked rotor time		59s (cold) 33s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)
Noise level <sup>2</sup>		81.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)
	25%				
Efficiency (%)	50%	92.4	92.4	92.4	92.4
Liliciency (70)	75%	93.6	93.0	93.6	93.6
	100%	94.1	93.0	93.6	94.1
	25%				
Power Factor	50%	0.82	0.82	0.79	0.77
1 OWELL ACIO	75%	0.88	0.88	0.86	0.85
	100%	0.89	0.89	0.88	0.87

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

Bearing type : 6312 C3 6212 C3 Max. traction : 481 lb Sealing : Oil Seal Lip Seal Max. compression : 1150 lb

12143 h

Lubricant amount : 21 g 13 g Lubricant type : Mobil Polyrex EM

9829 h

Notes

Lubrication interval

USABLE @208V 123A SF 1.00 SFA 123A

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



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#### Thermal protection

		•		
ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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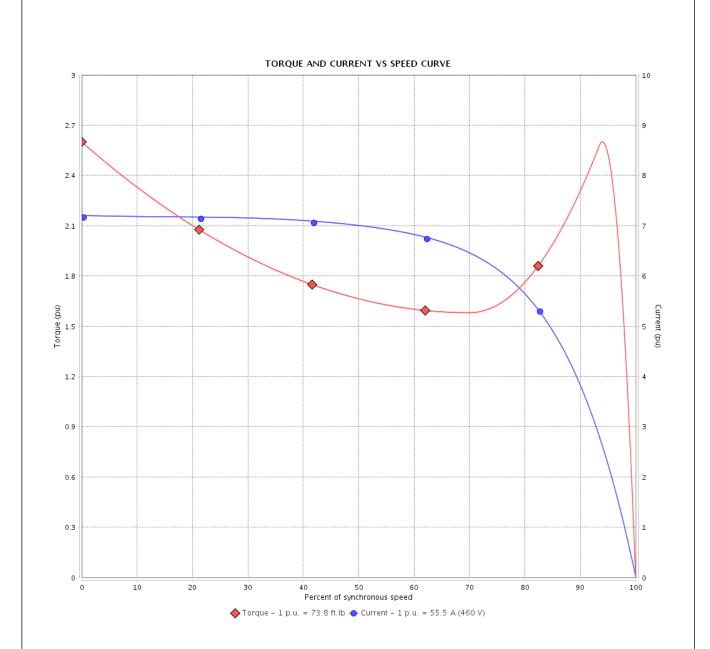
#### Three Phase Induction Motor - Squirrel Cage



05036XT3E326TS

Customer Product line : NEMA Premium Efficiency Three-Product code: 14504503

Catalog #:



Performance : 230/460 V 60 Hz 2P Rated current : 111/55.5 A Moment of inertia (J) : 5.42 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 73.8 ft.lb : F Locked rotor torque : 260 % Service factor : 1.15 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 3560 rpm Design : B Locked rotor time

: 59s (cold) 33s (hot)

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#### Three Phase Induction Motor - Squirrel Cage



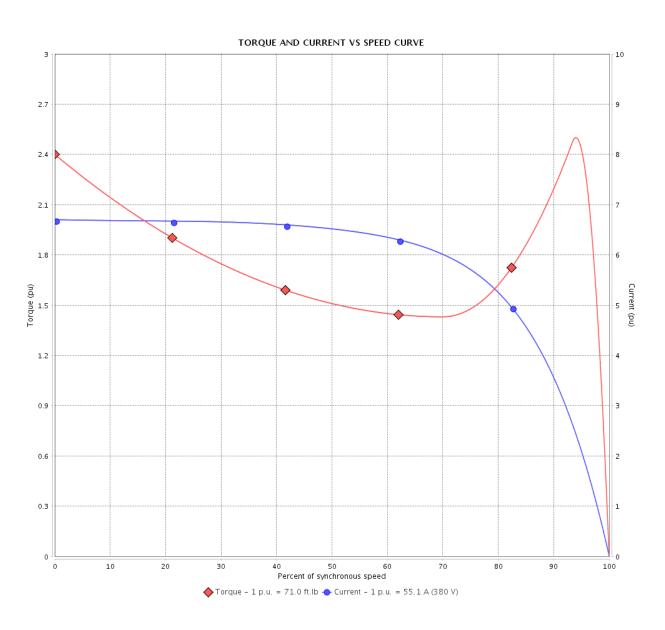
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14504503

Catalog #: 05036XT3E326TS



Performance : 380 V 50 Hz 2P IE2 Rated current : 55.1 A Moment of inertia (J) : 5.42 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) Insulation class Rated torque : 71.0 ft.lb : F Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 2960 rpm Design : B

Locked rotor time : 36s (cold) 20s (hot)

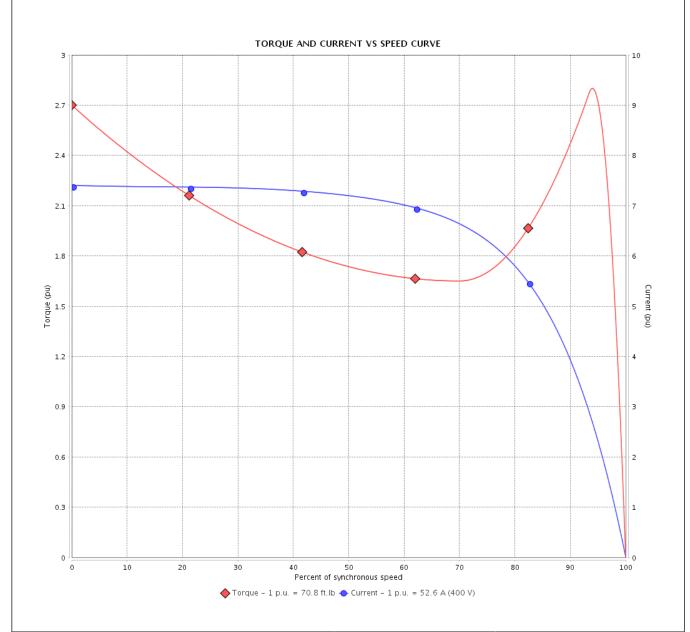
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Product code : 14504503
Phase Catalog # : 05036XT3E326TS



Performance : 400 V 50 Hz 2P IE3 Rated current : 52.6 A Moment of inertia (J) : 5.42 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 70.8 ft.lb Insulation class Rated torque : F Locked rotor torque : 270 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 2965 rpm Design : B Locked rotor time : 36s (cold) 20s (hot)

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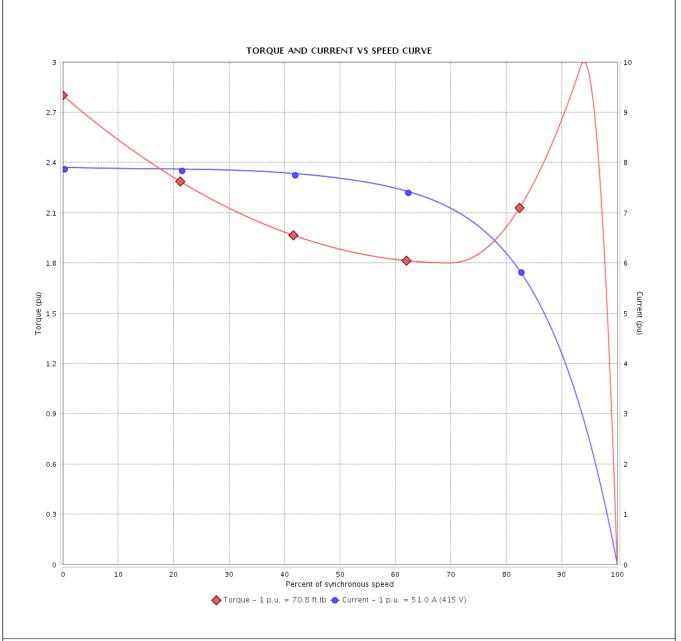
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14504503

Catalog #: 05036XT3E326TS



Performance : 415 V 50 Hz 2P IE3 Rated current : 51.0 A Moment of inertia (J) : 5.42 sq.ft.lb **LRC** : 7.9 Duty cycle : Cont.(S1) : 70.8 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 280 % : 1.00 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 2965 rpm Design : B

Locked rotor time : 36s (cold) 20s (hot)

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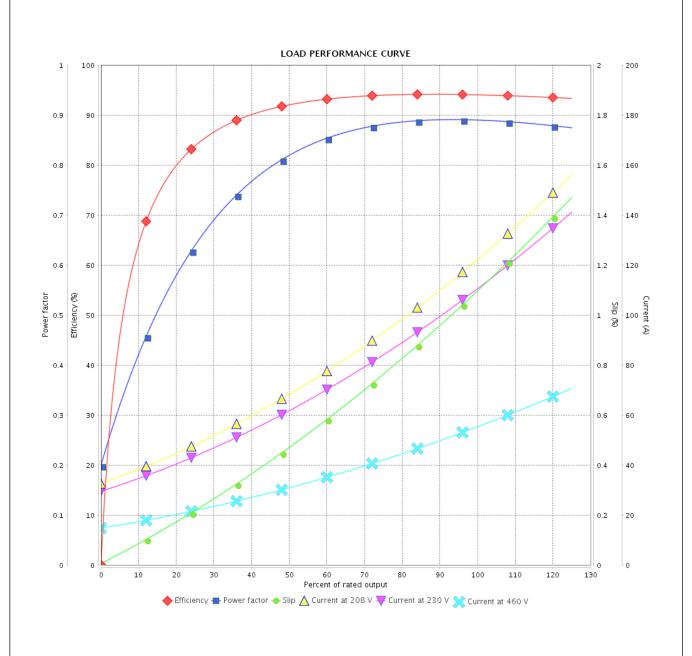


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14504503

Phase

Catalog #: 05036XT3E326TS



Performance	: 2	30/460 V 60 Hz 2P				
Rated current	: 1	11/55.5 A	Moment o	f inertia (J)	: 5.42 sq.ft.lb	
LRC	: 7	.2	Duty cycle	)	: Cont.(S1)	
Rated torque		3.8 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	60 %	Service fa	ctor	: 1.15	
Breakdown torque		60 %	Temperati	Temperature rise		
Rated speed	: 3	560 rpm	Design		: B	
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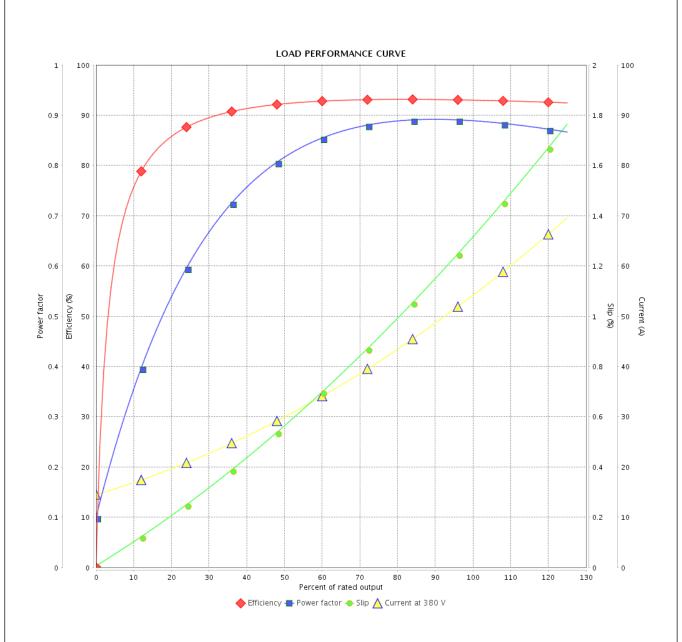
Customer :

Product line : NEMA Premium Efficiency Three- Produc

Phase

Product code: 14504503

Catalog #: 05036XT3E326TS



Performance	: 380 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 55.1 A : 6.7 : 71.0 ft.lb : 240 % : 250 % : 2960 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 5.42 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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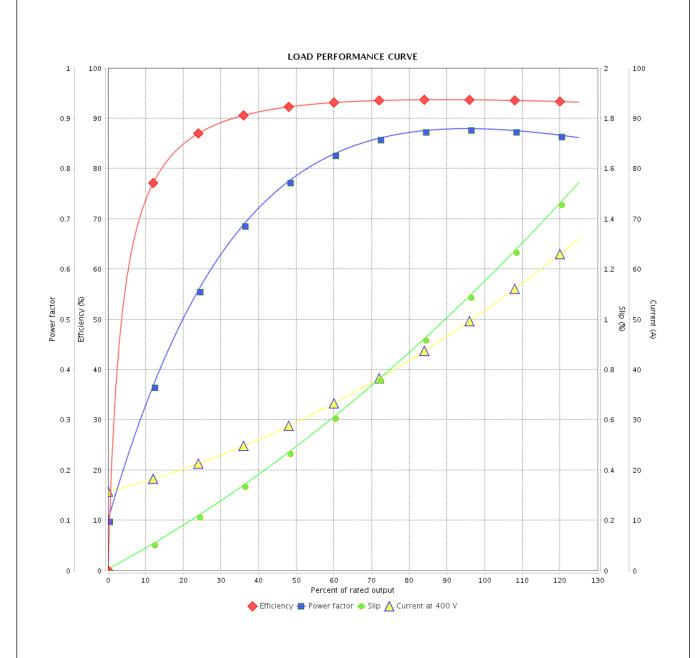
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Product line : NEMA Premium Efficiency Three- Product code : 14504503

Phase

Catalog #: 05036XT3E326TS



Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 52.6 A : 7.4 : 70.8 ft.lb : 270 % : 280 % : 2965 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 5.42 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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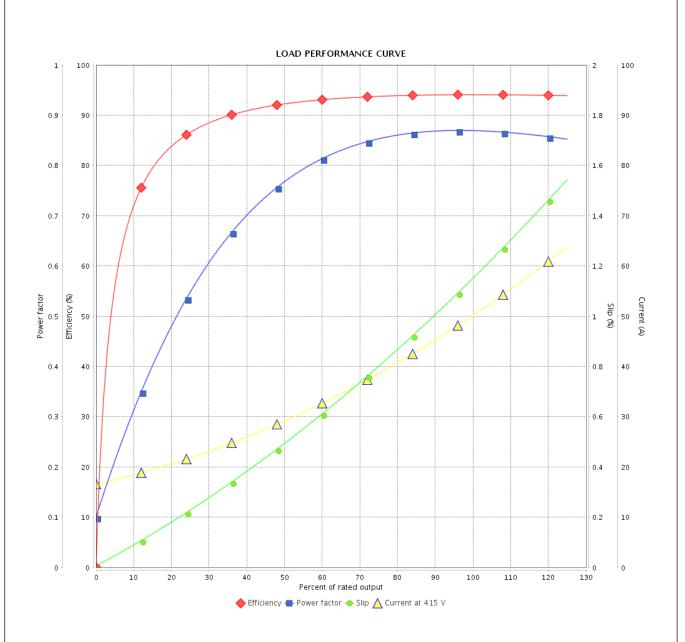
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14504503

Catalog #: 05036XT3E326TS



Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 51.0 A : 7.9 : 70.8 ft.lb : 280 % : 300 %	Duty cycle Insulation Service fa Temperate	class actor	: 5.42 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Rated speed  Rev.	: 2965 rpm  Changes Summary	Design	Performed	: B Checked	Date
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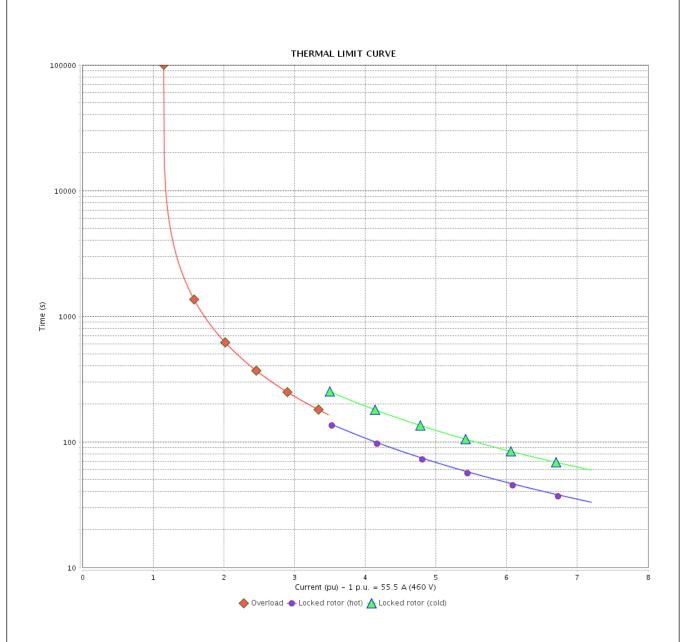


Customer	:					
Product line		NEMA Premium Efficiency in hase		Product code : Catalog # :	14504503 05036XT3E3	326TS
Performance Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	: 11 : 7. : 73 : 73 : 20 : 20	30/460 V 60 Hz 2P 11/55.5 A 2 3.8 ft.lb 60 % 60 % 560 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 5.42 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant						
Cooling constant	:					
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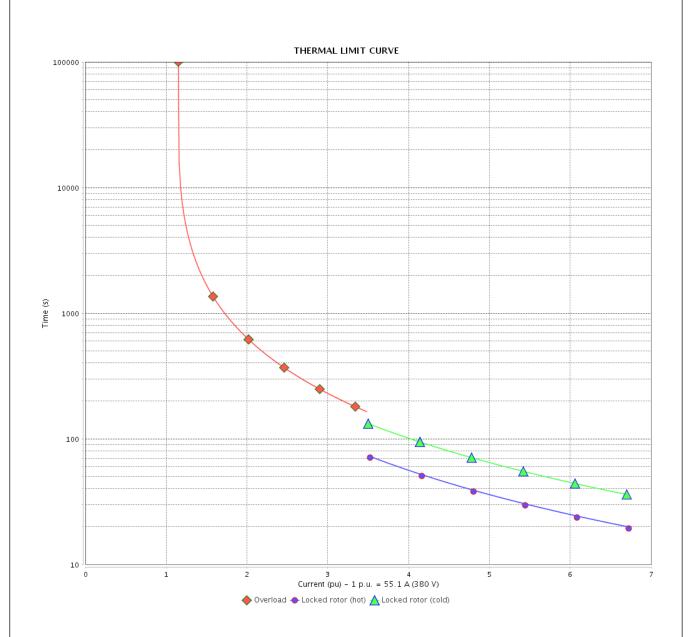


Product line	:	NEMA Premium Efficiency TI	hree-	Product code :	14504503	
	Р	hase		Catalog # :	05036XT3E3	2679
Rated current .RC Rated torque .ocked rotor tor Breakdown torq Rated speed	: 5 : 6 : 7 :que : 2 : 2 : 2	.7 1.0 ft.lb 40 % 50 %	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 5.42 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Performance Rated current RC Rated torque Locked rotor torg Breakdown torg Rated speed Heating constan	: 5 : 6 : 7 rque : 2: uue : 2 : 2	5.1 A	Duty cycle Insulation Service fa Temperati	e class ctor	: Cont.(S1) : F : 1.00 : 80 K	
Rated current .RC Rated torque .ocked rotor tor Breakdown torq Rated speed Heating constar Cooling constar	: 5 : 6 : 7 rque : 2: uue : 2 : 2	5.1 A	Duty cycle Insulation Service fa Temperati	class ctor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	Data
Rated current .RC Rated torque .ocked rotor tor Breakdown torq Rated speed	: 5 : 6 : 7 rque : 2: uue : 2 : 2	5.1 A	Duty cycle Insulation Service fa Temperati	e class ctor	: Cont.(S1) : F : 1.00 : 80 K	Date
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar Cooling constar Rev.	: 5 : 6 : 7 rque : 2: uue : 2 : 2	5.1 A	Duty cycle Insulation Service fa Temperati	class ctor 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 constar	: 5 : 6 : 7 rque : 2: uue : 2 : 2	5.1 A	Duty cycle Insulation Service fa Temperati	class ctor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date

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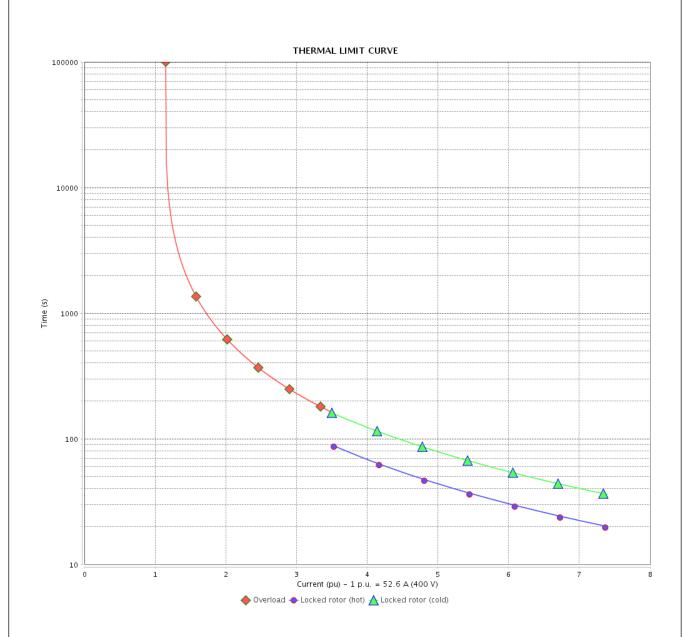


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Customer	:					
Product line	: i Pi	NEMA Premium Efficiency <sup>-</sup> hase	Three-	Product code :	14504503	
				Catalog # :	05036XT3E3	326TS
Performance	- 4/	00 V 50 Hz 2P IE3				
Rated current		2.6 A	Moment o	f inertia (J)	: 5.42 sq.ft.lb	
LRC	: 7.		Duty cycle	9	: Cont.(S1) : F	
Rated torque Locked rotor tord		0.8 ft.lb 70 %	Insulation Service fa		: F : 1.00	
Breakdown torqu		80 %	Temperati		: 80 K	
Rated speed		965 rpm	Design		: B	
Heating constan	t					
Cooling constant						
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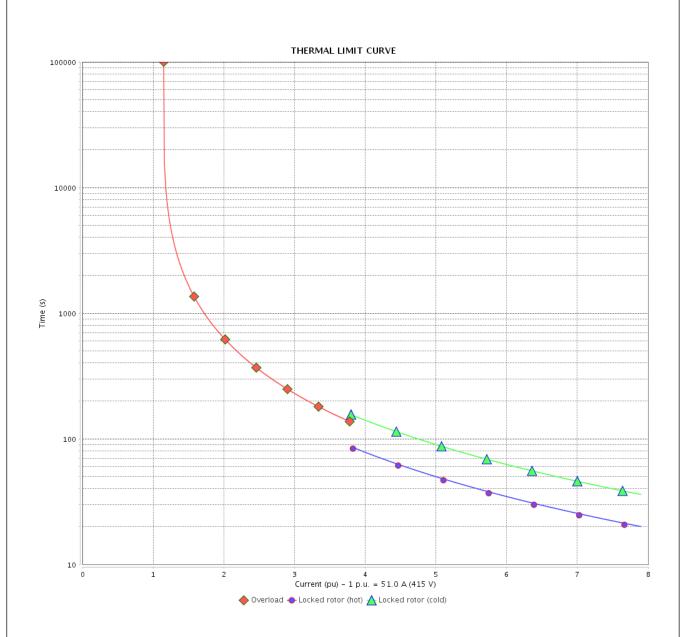


Product line	:	NEMA Premium Efficiency Tl	hree- F	Product code :	14504503	
	Р	hase		Catalog # :	05036XT3E3	26TS
Performance Rated current LRC Rated torque Locked rotor torque Rated speed	: 5 : 7 : 7 : 7 : 1 : 2 : 2	.9 0.8 ft.lb 80 % 00 %	Moment of Duty cycle Insulation Service fac Temperatu Design	class ctor	: 5.42 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 5 : 7 : 7 : 1 : 2 : 2	1.0 A .9 0.8 ft.lb 80 % 00 %	Duty cycle Insulation Service fac Temperatu	class	: Cont.(S1) : F : 1.00 : 80 K	
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5 : 7 : 7 : 1 : 2 : 2	1.0 A .9 0.8 ft.lb 80 % 00 % 965 rpm	Duty cycle Insulation Service fac Temperatu	class	: Cont.(S1) : F : 1.00 : 80 K	Date
Rated current LRC Rated torque Locked rotor torque Reakdown torque Rated speed Heating constan Cooling constan	: 5 : 7 : 7 : 1 : 2 : 2	1.0 A .9 0.8 ft.lb 80 % 00 %	Duty cycle Insulation Service fac Temperatu	class ctor re rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date
Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed Heating constant Cooling constant Rev.	: 5 : 7 : 7 : 1 : 2 : 2	1.0 A .9 0.8 ft.lb 80 % 00 % 965 rpm	Duty cycle Insulation Service fac Temperatu	class ctor re rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date
Rated current LRC Rated torque Locked rotor torque Reakdown torque Rated speed Heating constan Cooling constan	: 5 : 7 : 7 : 1 : 2 : 2	1.0 A .9 0.8 ft.lb 80 % 00 % 965 rpm	Duty cycle Insulation Service fac Temperatu	class ctor re rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date

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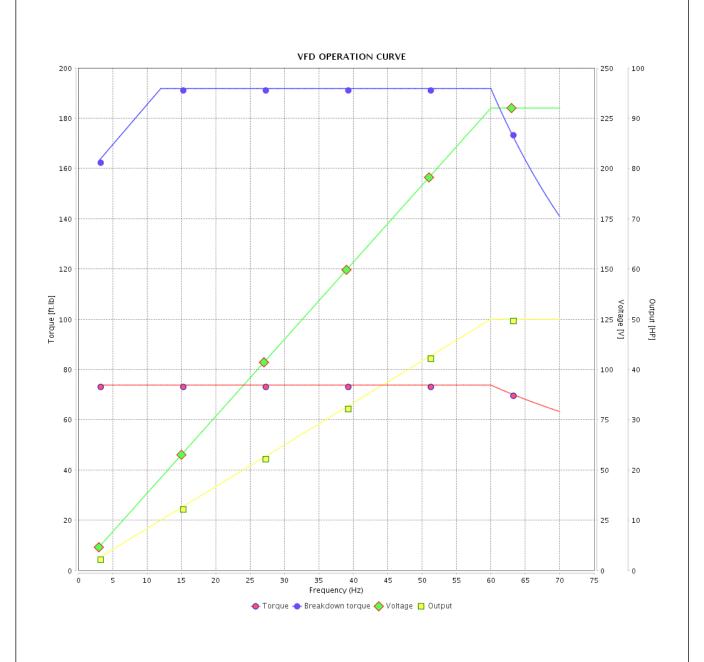


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14504503

Phase

Catalog #: 05036XT3E326TS



Performance	: 230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 111/55.5 A : 7.2 : 73.8 ft.lb : 260 % : 260 % : 3560 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 5.42 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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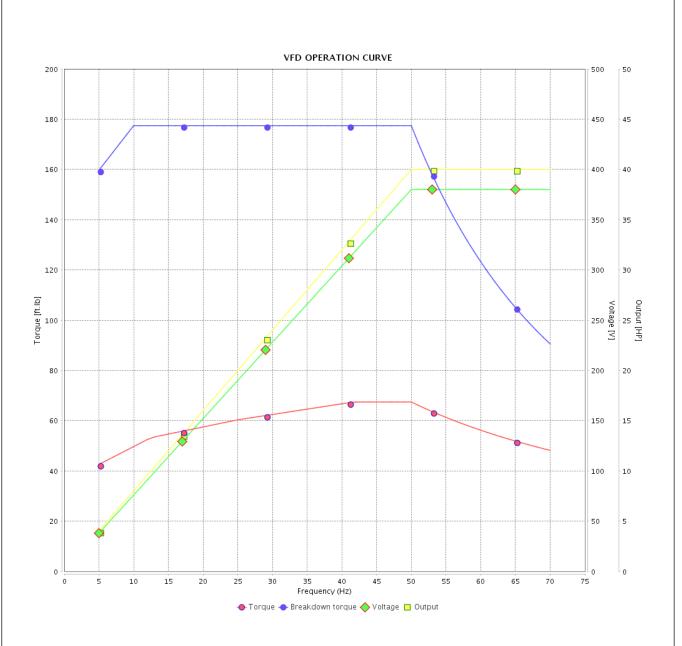
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14504503

Catalog #: 05036XT3E326TS



Performance : 380 V 50 Hz 2P IE2 Rated current : 55.1 A Moment of inertia (J) : 5.42 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 71.0 ft.lb Insulation class : F Rated torque Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 2960 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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### Three Phase Induction Motor - Squirrel Cage



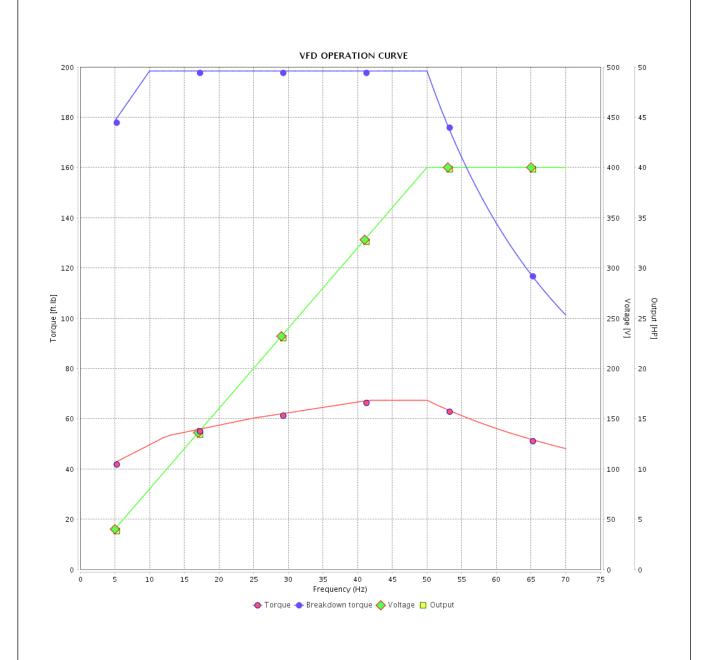
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

roduct code: 14504503

Catalog #: 05036XT3E326TS



Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 52.6 A : 7.4 : 70.8 ft.lb : 270 % : 280 % : 2965 rpm	Duty cycle : 0 Insulation class : F Service factor : 2 Temperature rise : 8		: 5.42 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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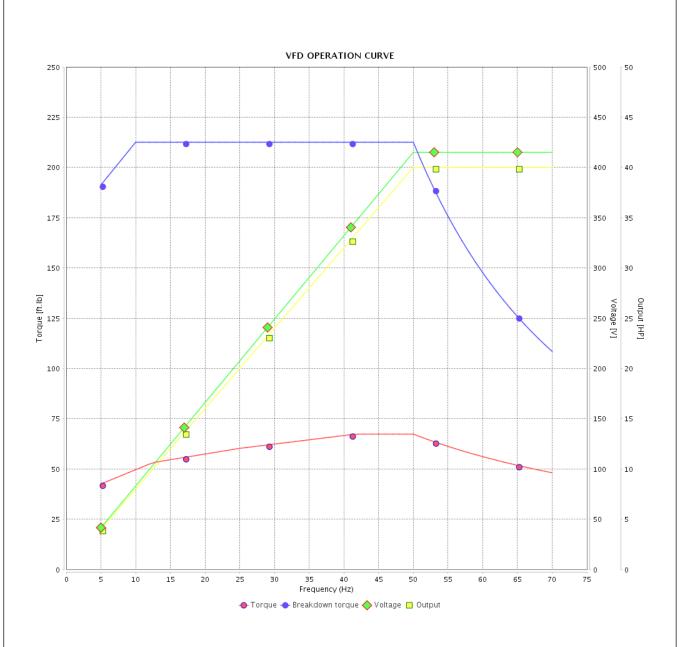
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14504503

Catalog #: 05036XT3E326TS



Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 51.0 A : 7.9 : 70.8 ft.lb : 280 % : 300 % : 2965 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 5.42 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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