## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14408648

Phase

Catalog #: 05018XT3ER326TC

Frame : 326TC Cooling method : IC411 - TEFC

Insulation class : F Mounting : W-6

Duty cycle : Cont.(S1) Rotation : 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> : 696 lb

Protection degre	е	: IP55	Moment of ine	Moment of inertia (J) : 9.16 sq.ft.lb		
Design		: B				
Output [HP]		50	40	40	40	
Poles		4	4	4	4	
Frequency [Hz]		60	50	50	50	
Rated voltage [V]		230/460	380	400	415	
Rated current [A]		121/60.6	60.1	58.6	58.7	
L. R. Amperes [A]		885/443	415	445	470	
LRC [A]		7.3x(Code H)	6.9x(Code H)	7.6x(Code J)	8.0x(Code K)	
No load current [A	]	55.0/27.5	27.1	29.7	31.8	
Rated speed [RPN	<b>/</b> []	1775	1475	1480	1480	
Slip [%]		1.39	1.67	1.33	1.33	
Rated torque [ft.lb]	]	148	142	142	142	
Locked rotor torqu	e [%]	260	240	260	280	
Breakdown torque	[%]	280	260	290	310	
Service factor		1.15	1.00	1.00	1.00	
Temperature rise		80 K	80 K	80 K	80 K	
Locked rotor time		36s (cold) 20s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	
Noise level <sup>2</sup>		71.0 dB(A)	69.0 dB(A)	69.0 dB(A)	69.0 dB(A)	
	25%	93.4	92.8	92.8	92.2	
Efficiency (%)	50%	93.6	93.0	93.0	92.4	
Efficiency (%)	75%	94.5	93.6	93.6	93.6	
	100%	94.5	93.6	93.6	93.6	
	25%	0.40	0.39	0.35	0.33	
Power Factor	50%	0.65	0.65	0.60	0.57	
FOWEI FACIOI	75%	0.76	0.76	0.73	0.69	
	100%	0.81	0.81	0.79	0.76	

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

Bearing type : 6312 C3 6212 C3 Max. traction : 1341 lb Sealing : Oil Seal Lip Seal Max. compression : 2036 lb

12541 h

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

11307 h

Notes

Lubrication interval

USABLE @208V 134A SF 1.00 SFA 134A

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	
Customer	

#### 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



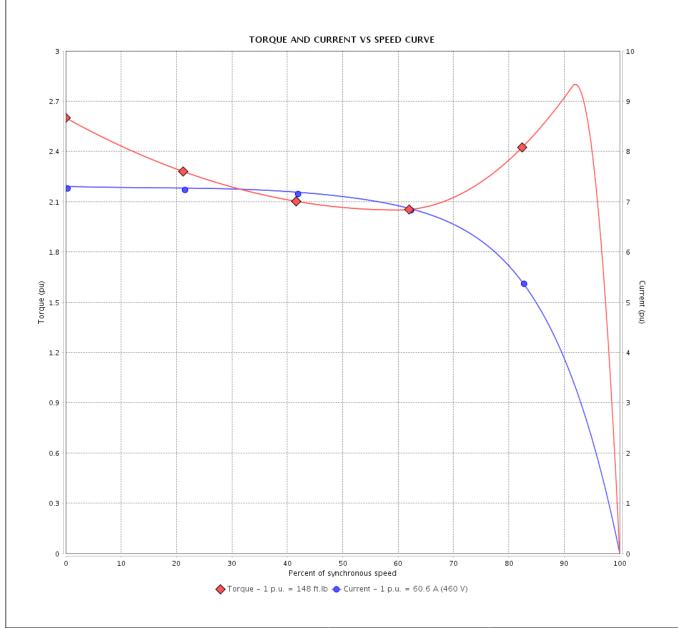
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14408648

Catalog #: 05018XT3ER326TC



Performance : 230/460 V 60 Hz 4P Rated current : 121/60.6 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 7.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 148 ft.lb : F Locked rotor torque : 260 % Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1775 rpm Design : B

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

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#### Three Phase Induction Motor - Squirrel Cage



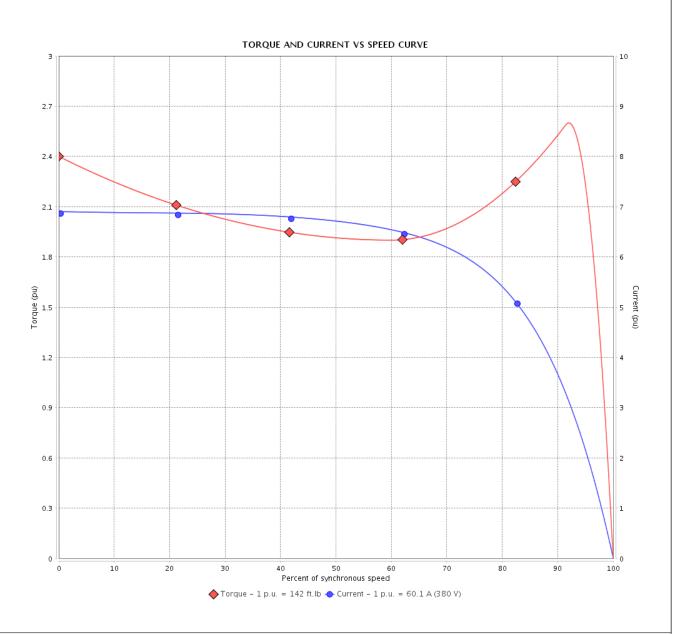
Customer :

Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 14408648

Catalog #: 05018XT3ER326TC



Performance : 380 V 50 Hz 4P IE3 Rated current : 60.1 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 142 ft.lb : F Service factor Locked rotor torque : 240 % : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1475 rpm Design : B

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

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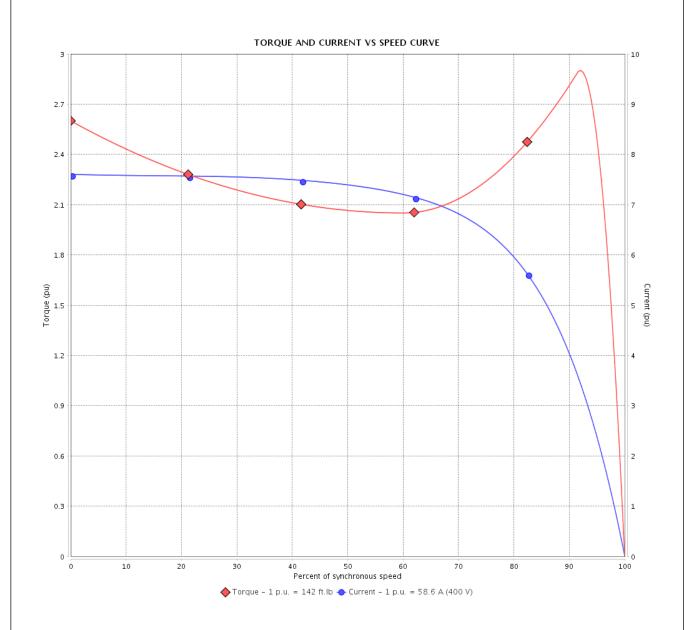
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14408648

Catalog #: 05018XT3ER326TC



Performance	: 400 V 50 Hz 4P IE3			
Rated current	: 58.6 A	Moment of inertia (J)	: 9.16 sq.ft.lb	
LRC	: 7.6	Duty cycle	: Cont.(S1)	
Rated torque	: 142 ft.lb	Insulation class	: <b>F</b>	
Locked rotor torque	: 260 %	Service factor	: 1.00	
Breakdown torque	: 290 %	Temperature rise	: 80 K	
Rated speed	: 1480 rpm	Design	: B	
Locked rotor time	: 21s (cold) 12s (hot)			

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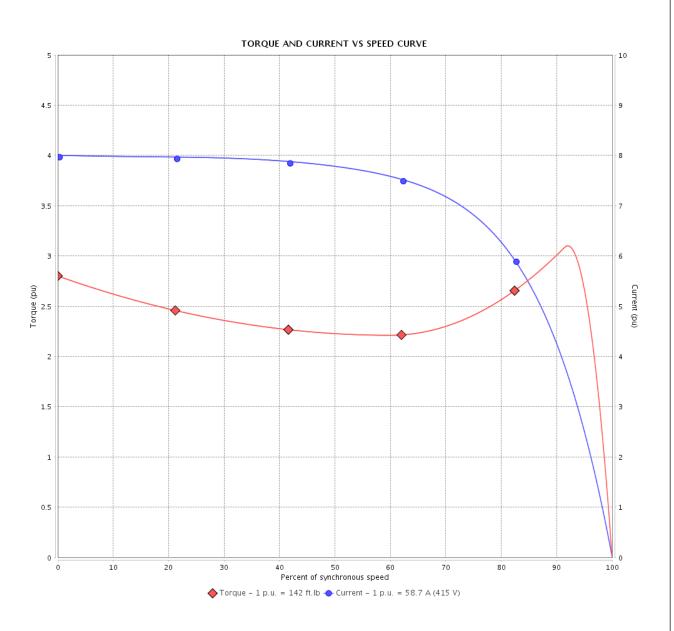
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14408648

Catalog #: 05018XT3ER326TC



Performance : 415 V 50 Hz 4P IE3 Rated current : 58.7 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 8.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 142 ft.lb : F Service factor Locked rotor torque : 280 % : 1.00 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B

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

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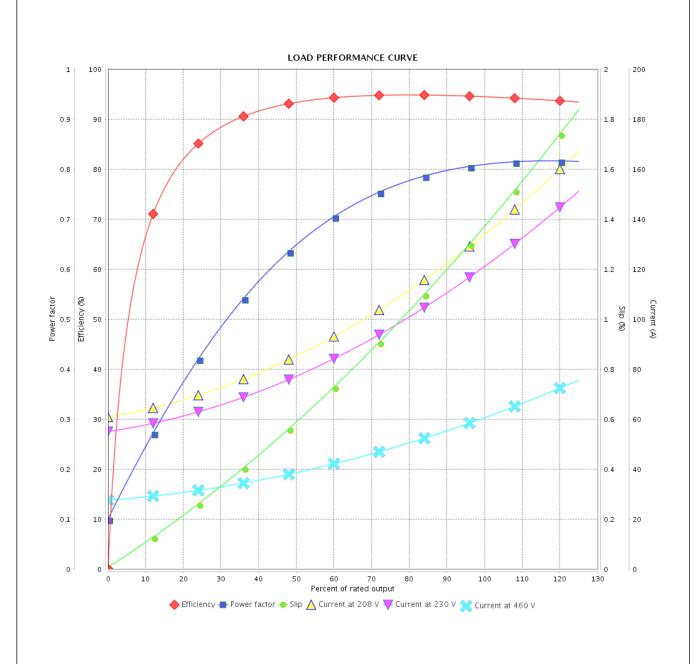


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14408648

Phase

Catalog #: 05018XT3ER326TC



Performance	: 2	230/460 V 60 Hz 4P				
Rated current	:	121/60.6 A	Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC	: 7	7.3	Duty cycle	;	: Cont.(S1)	
Rated torque	:	148 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2	260 %	Service fa	ctor	: 1.15	
Breakdown torque	e : 2	280 %	Temperati	ıre rise	: 80 K	
Rated speed	: '	1775 rpm	Design		: B	
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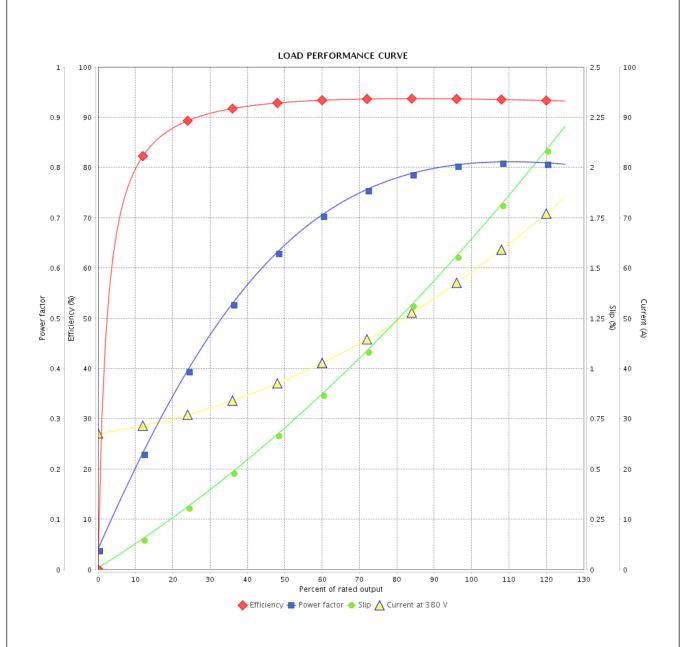
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Product line : NEMA Premium Efficiency Three- Prod

Phase

Product code: 14408648

Catalog #: 05018XT3ER326TC



Performance : 380 V 50 Hz 4P IE3 Rated current : 60.1 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.9 Insulation class Rated torque : 142 ft.lb : F Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1475 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

### Three Phase Induction Motor - Squirrel Cage

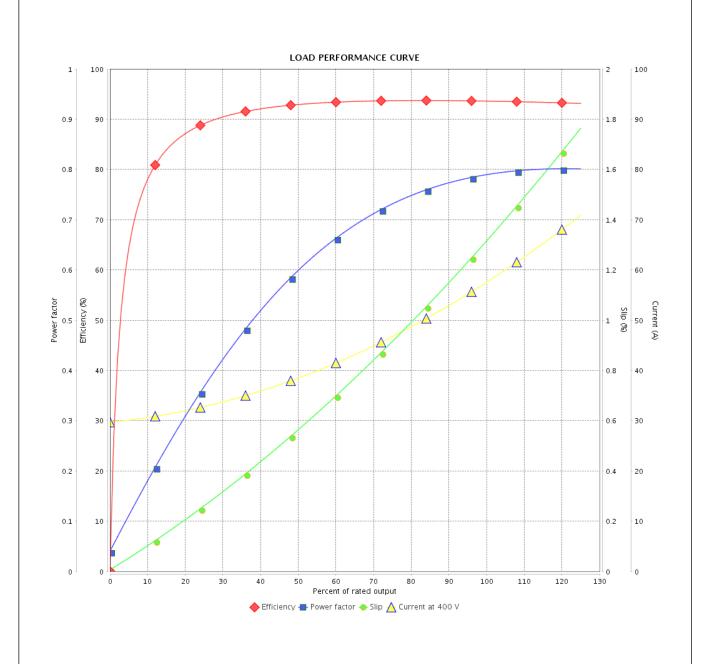


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14408648

Phase

Catalog #: 05018XT3ER326TC



Performance	: 4	100 V 50 Hz 4P IE3				
Rated current	: 5	58.6 A	Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC	: 7	7.6	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	142 ft.lb	Insulation	class	: F	
Locked rotor torque	e :2	260 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	290 %	Temperatu	ıre rise	: 80 K	
Rated speed	: 1	1480 rpm	Design		: B	
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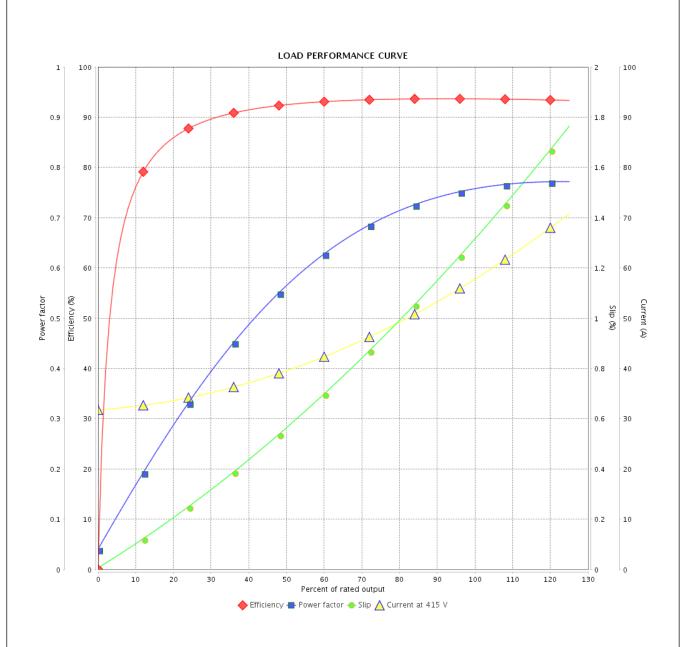
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Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

Product code: 14408648

Catalog #: 05018XT3ER326TC



Performance : 415 V 50 Hz 4P IE3 Rated current : 58.7 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 8.0 Insulation class Rated torque : 142 ft.lb : F Locked rotor torque : 280 % Service factor : 1.00 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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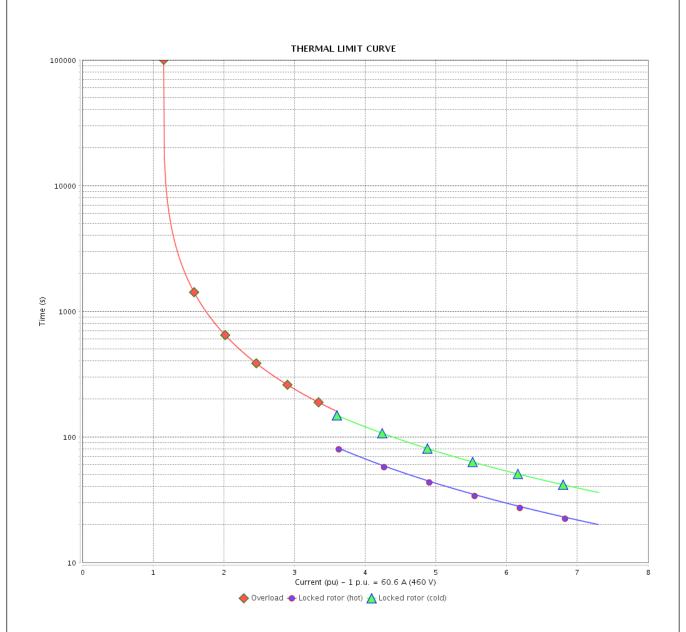


Customer	:					
Product line		NEMA Premium Efficiency	Throo	Product code :	14408648	
Froduct line	F	Phase				
				Catalog # :	05018XT3EF	R326TC
Performance		230/460 V 60 Hz 4P	<b>N</b> 4	. <b></b>	0.40 6.11	
Rated current LRC		/21/60.6 A /.3	Duty cycle	of inertia (J) e	: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque	: 1	48 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown tord	que : 2	260 % 280 %	Service fa Temperat		: 1.15 : 80 K	
Rated speed		1775 rpm	Design	ure rise	: B	
Heating constan	t					
Cooling constant						
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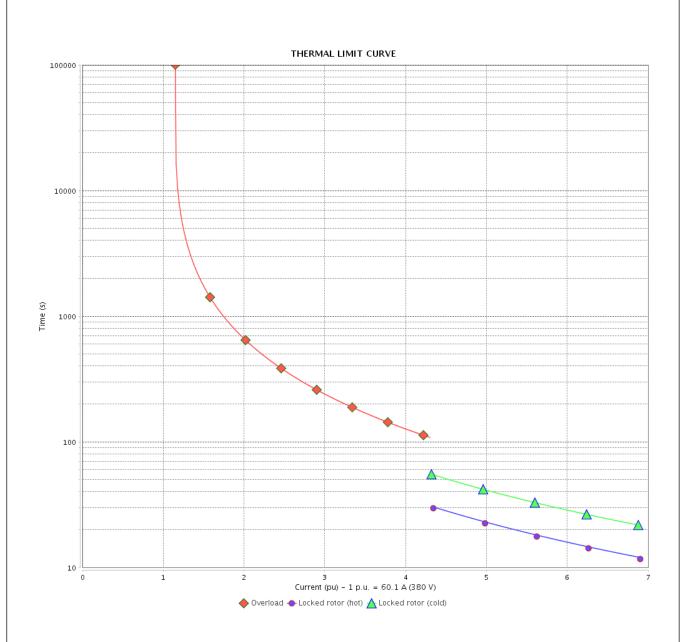


Product line		NEMA Premium Efficiency T hase	hree-	Product code :	14408648	
	·	nacc		Catalog #:	05018XT3EF	R326TC
Rated current LRC Rated torque Locked rotor tor Breakdown torg	: 6 : 6 : 1 rque : 2 jue : 2	.9 42 ft.lb 40 % 60 %	Moment of Duty cycle Insulation Service fa	class actor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Performance Rated current LRC Rated torque Locked rotor tor Breakdown torg Rated speed	: 6 : 6 : 1 rque : 2 jue : 2 : 1	0.1 A .9 42 ft.lb 40 % 60 %	Duty cycle Insulation Service fa	e class actor	: Cont.(S1) : F : 1.00	
Rated current LRC Rated torque Locked rotor tor Breakdown torg Rated speed Heating constar	: 6 : 6 : 1 rque : 2 !ue : 2 : 1	0.1 A .9 42 ft.lb 40 % 60 %	Duty cycle Insulation Service fa Temperate	e class actor	: Cont.(S1) : F : 1.00 : 80 K	
Rated current LRC Rated torque Locked rotor tor Breakdown torg Rated speed Heating constar Cooling constar	: 6 : 6 : 1 rque : 2 !ue : 2 : 1	0.1 A .9 42 ft.lb 40 % 60 % 475 rpm	Duty cycle Insulation Service fa Temperate	e class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	Doto
Rated current LRC Rated torque Locked rotor tor Breakdown torg Rated speed Heating constar	: 6 : 6 : 1 rque : 2 !ue : 2 : 1	0.1 A .9 42 ft.lb 40 % 60 %	Duty cycle Insulation Service fa Temperate	e class actor	: Cont.(S1) : F : 1.00 : 80 K	Date
Rated current LRC Rated torque Locked rotor tor Breakdown torg Rated speed Heating constar Cooling constar Rev.	: 6 : 6 : 1 rque : 2 !ue : 2 : 1	0.1 A .9 42 ft.lb 40 % 60 % 475 rpm	Duty cycle Insulation Service fa Temperate	e class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date
Rated current LRC Rated torque Locked rotor tor Breakdown torg Rated speed Heating constar Cooling constar	: 6 : 6 : 1 rque : 2 !ue : 2 : 1	0.1 A .9 42 ft.lb 40 % 60 % 475 rpm	Duty cycle Insulation Service fa Temperate	e class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date

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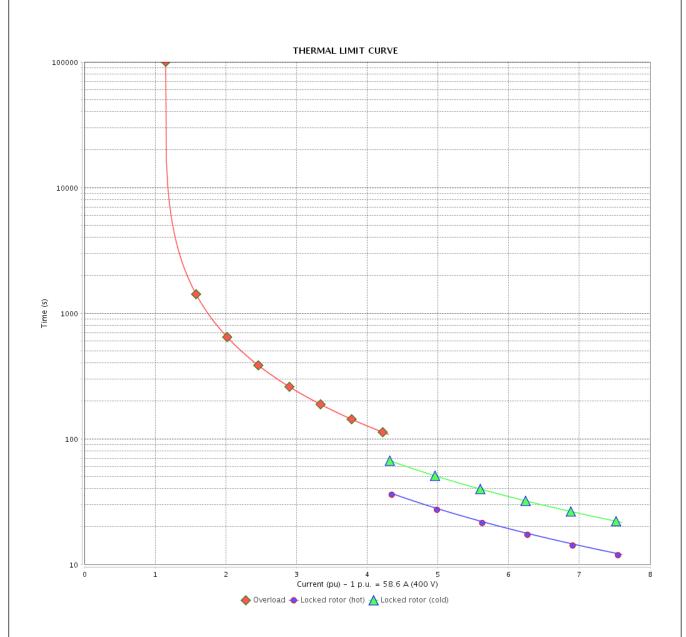


Product line		NEMA Premium Efficiency T	hree-	Product code :	14408648	
	·			Catalog # :	05018XT3EF	R326TC
Dorforman		00 V 50 H- 4D IF2				
Performance Rated current LRC Rated torque Locked rotor tor	: 5 : 7 : 1 rque : 2	.6 42 ft.lb 60 %	Duty cycle Insulation Service fa	class actor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00	
Rated current LRC Rated torque	: 5 : 7 : 1 rque : 2 jue : 2	8.6 A .6 42 ft.lb 60 % 90 %	Duty cycle Insulation	e class actor	: Cont.(S1) : F	
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar	: 5 : 7 : 1 rque : 2 ; 2 ; 1	8.6 A .6 42 ft.lb 60 % 90 %	Duty cycle Insulation Service fa Temperate	e class actor	: Cont.(S1) : F : 1.00 : 80 K	
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar Cooling constar	: 5 : 7 : 1 rque : 2 ; 2 ; 1	8.6 A .6 42 ft.lb 60 % 90 % 480 rpm	Duty cycle Insulation Service fa Temperate	e class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	Dett
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed	: 5 : 7 : 1 rque : 2 ; 2 ; 1	8.6 A .6 42 ft.lb 60 % 90 %	Duty cycle Insulation Service fa Temperate	e 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 constar Rev.	: 5 : 7 : 1 rque : 2 ; 2 ; 1	8.6 A .6 42 ft.lb 60 % 90 % 480 rpm	Duty cycle Insulation Service fa Temperate	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 constar	: 5 : 7 : 1 rque : 2 ; 2 ; 1	8.6 A .6 42 ft.lb 60 % 90 % 480 rpm	Duty cycle Insulation Service fa Temperate	e class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date

### Three Phase Induction Motor - Squirrel Cage



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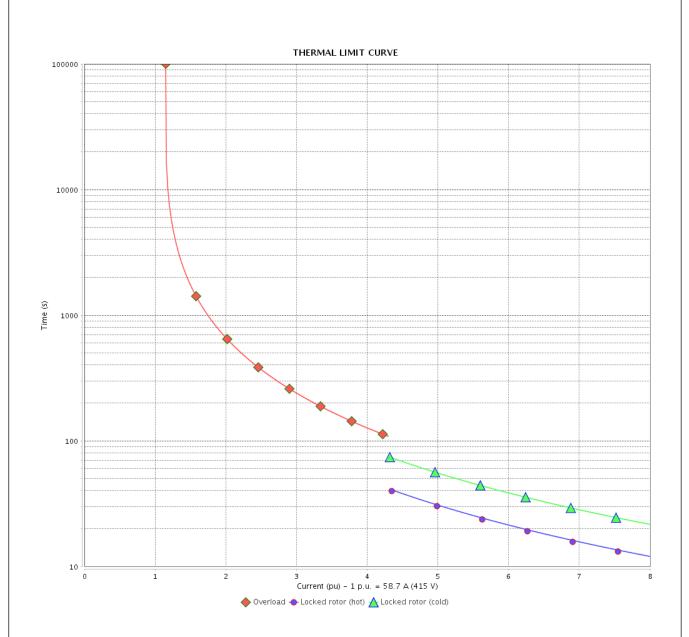


Customer	:					
Product line		NEMA Premium Efficiency hase	Three-	Product code :	14408648	
				Catalog # :	05018XT3EF	R326TC
Performance Rated current LRC Rated torque	: 56 : 8 : 14	42 ft.lb	Duty cycle Insulation	class	: 9.16 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord Breakdown torqu Rated speed	ie : 3	80 % 10 % 480 rpm	Service fa Temperat Design		: 1.00 : 80 K : B	
Heating constan						
Cooling constant	t	Oh 2		D- ( )	Ob. 1	<b>.</b>
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## Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage

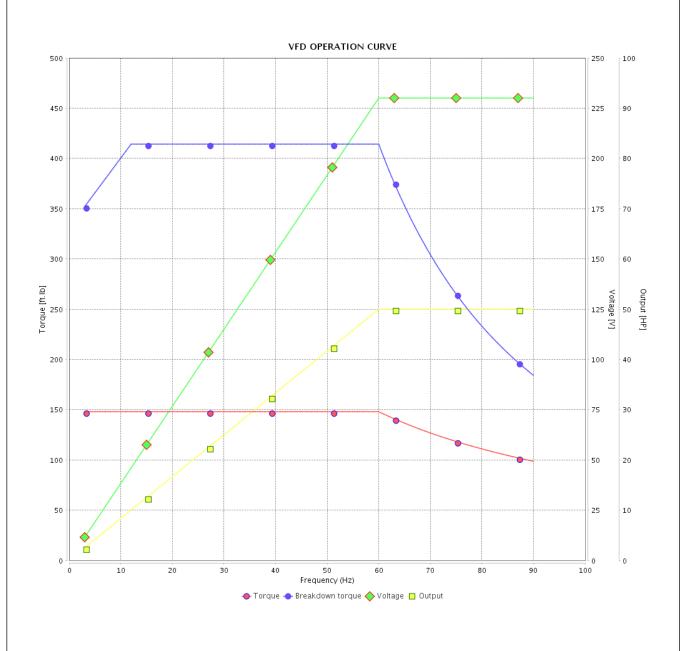


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14408648

Phase

Catalog #: 05018XT3ER326TC



Performance	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 121/60.6 A : 7.3 : 148 ft.lb : 260 % : 280 % : 1775 rpm	Moment of Duty cycle Insulation c Service fact Temperatur Design	lass	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

Date

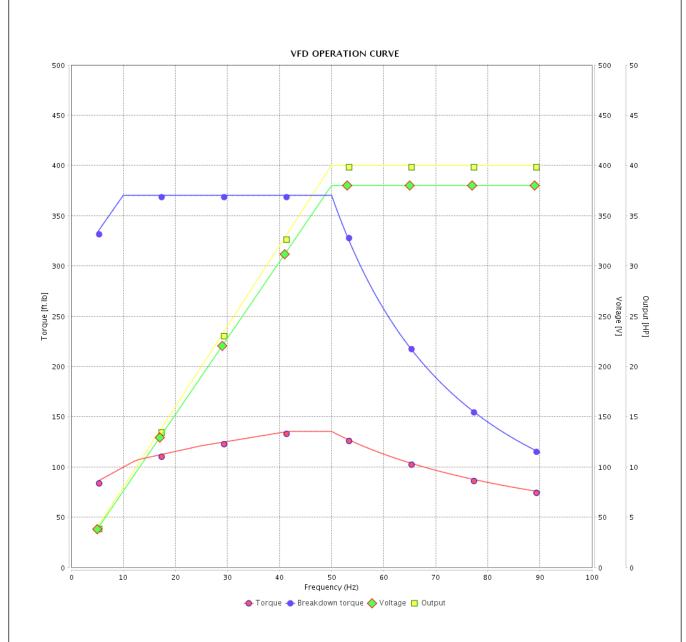
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Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 14408648

Catalog #: 05018XT3ER326TC



Performance : 380 V 50 Hz 4P IE3 Rated current : 60.1 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** Duty cycle : 6.9 : Cont.(S1) Insulation class : 142 ft.lb : F Rated torque Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1475 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by Page Checked by Revision

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### Three Phase Induction Motor - Squirrel Cage



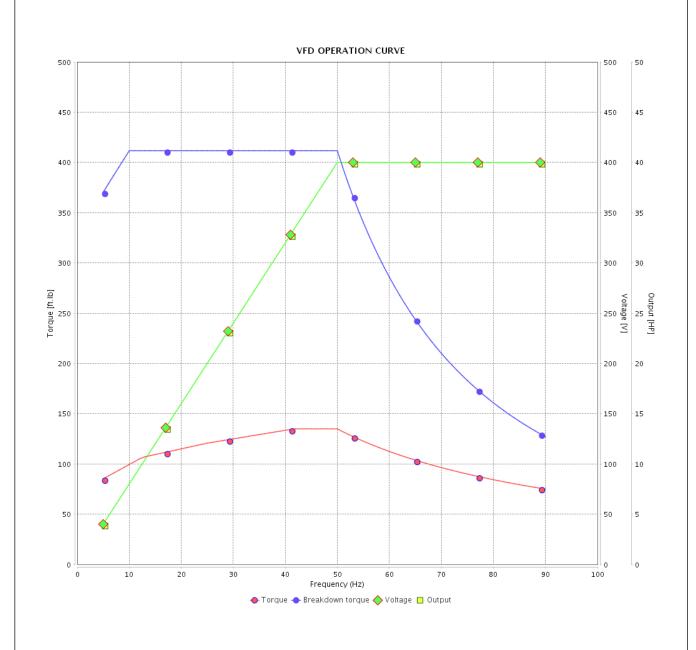
Customer

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 14408648

Catalog #: 05018XT3ER326TC



Performance		: 400 V 50 Hz 4P IE	Ξ3			
Rated current LRC		: 58.6 A : 7.6	1	of inertia (J)	: 9.16 sq.ft.lb	
Rated torque		: 142 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord Breakdown torgu	•	: 260 % : 290 %	Service fa		: 1.00 : 80 K	
Rated speed	ie	: 1480 rpm	Design	ure rise	: B	
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### Three Phase Induction Motor - Squirrel Cage



Customer :

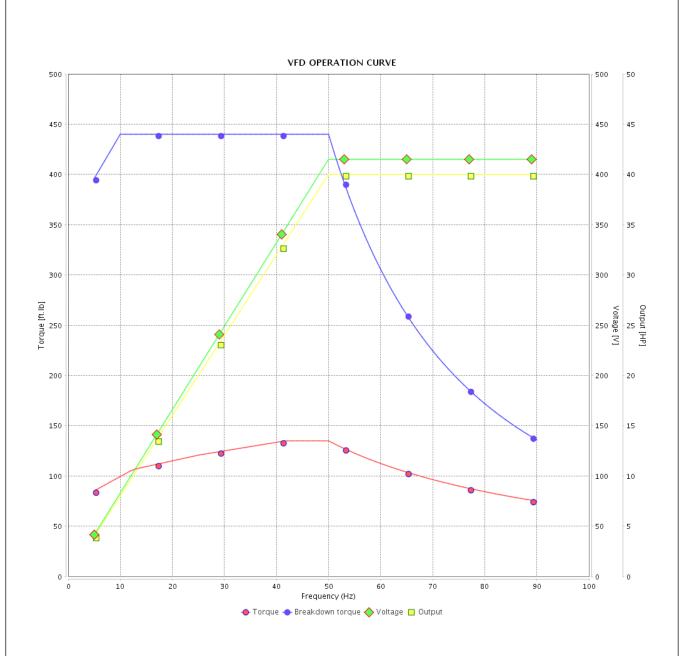
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 05018XT3ER326TC

14408648

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Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 58.7 A : 8.0 : 142 ft.lb : 280 % : 310 % : 1480 rpm	Moment of Duty cycle Insulation Service fa Temperature Design	class ctor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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