DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14406913

Phase

Catalog #: 05018XT3E326T

Frame : 326T 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 : 693 lb

Protection degree : IP55 Moment of inertia (J) : 9.16 sq.ft lb

Protection degree		: IP55	Moment of inertia (J) : 9.16 sq.ft.lb		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 [RPM]		1775	1475	1480	1480
Slip [%]		1.39	1.67 1.33		1.33
Rated torque [ft.lb]		148	142	142	142
Locked rotor torqu	Locked rotor torque [%]		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 ²		71.0 dB(A)	69.0 dB(A)	69.0 dB(A)	69.0 dB(A)
	25%				
Efficiency (%)	50%	93.6	93.0	93.0	92.4
Linciency (70)	75%	94.5	93.6	93.6	93.6
	100%	94.5	93.6	93.6	93.6
	25%				
Power Factor	50%	0.65	0.65	0.60	0.57
I OWEI FACIOI	75%	0.76	0.76	0.73	0.69
	100%	0.81	0.81	0.79	0.76

Drive end Non drive end Foundation loads

Bearing type : 6312 C3 6212 C3 Max. traction : 1342 lb Sealing : Oil Seal Lip Seal Max. compression : 2035 lb

20000 h

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

20000 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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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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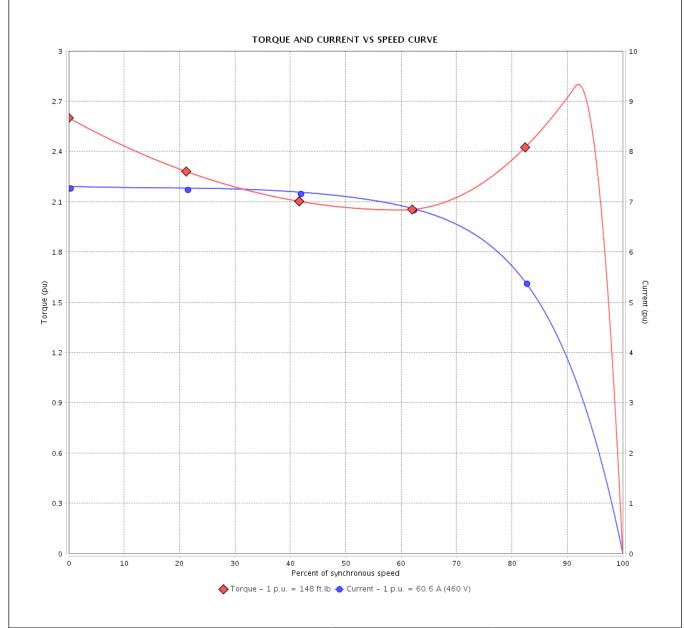


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14406913

Phase

Catalog #: 05018XT3E326T



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)	
Rated torque	: 148 ft.lb	Insulation class	: F	
Locked rotor torque	: 260 %	Service factor	: 1.15	
Breakdown torque	: 280 %	Temperature rise	: 80 K	
Rated speed	: 1775 rpm	Design	: B	
Locked roter time	: 36s (sold) 20s (bot)			

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

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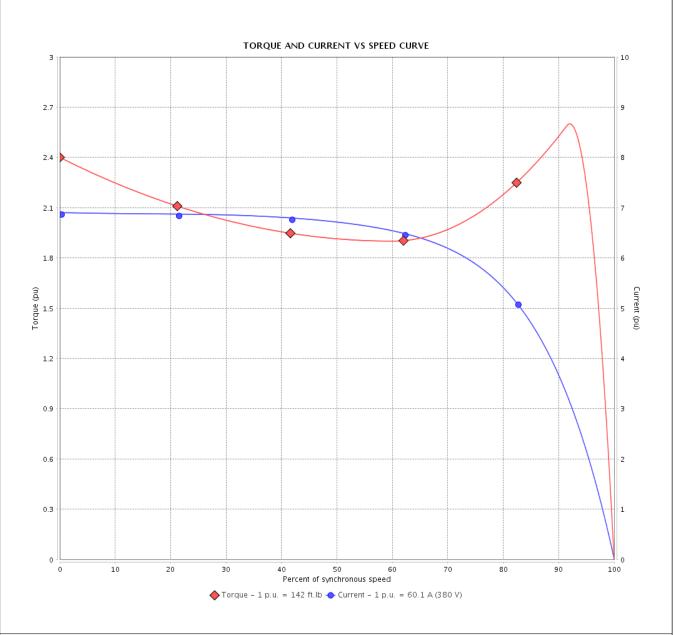
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14406913

Catalog #: 05018XT3E326T



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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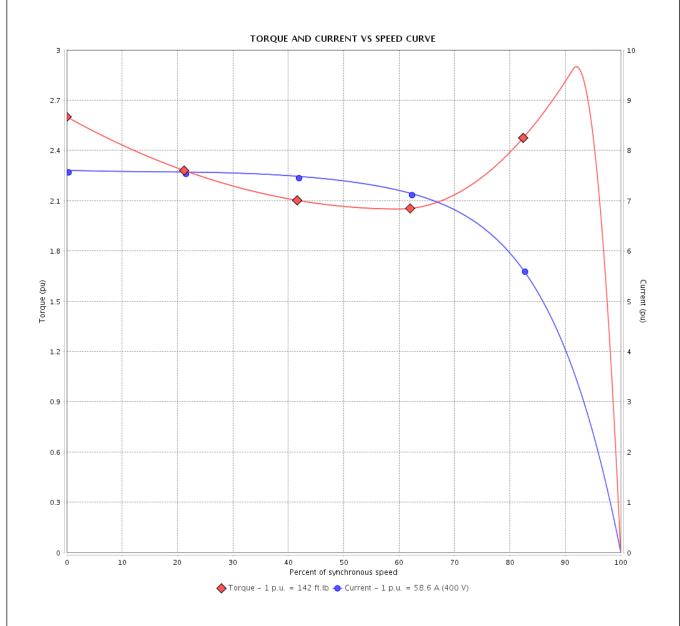


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14406913

Phase

Catalog #: 05018XT3E326T



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	: F	
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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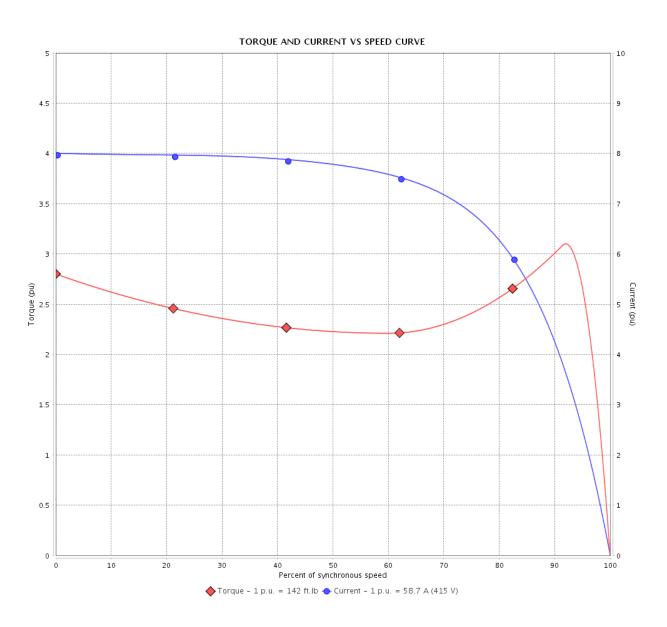
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14406913

Catalog #: 05018XT3E326T



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 Locked rotor torque : 280 % Service factor : 1.00 : 310 % Breakdown torque Temperature rise : 80 K Rated speed : 1480 rpm Design : B

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

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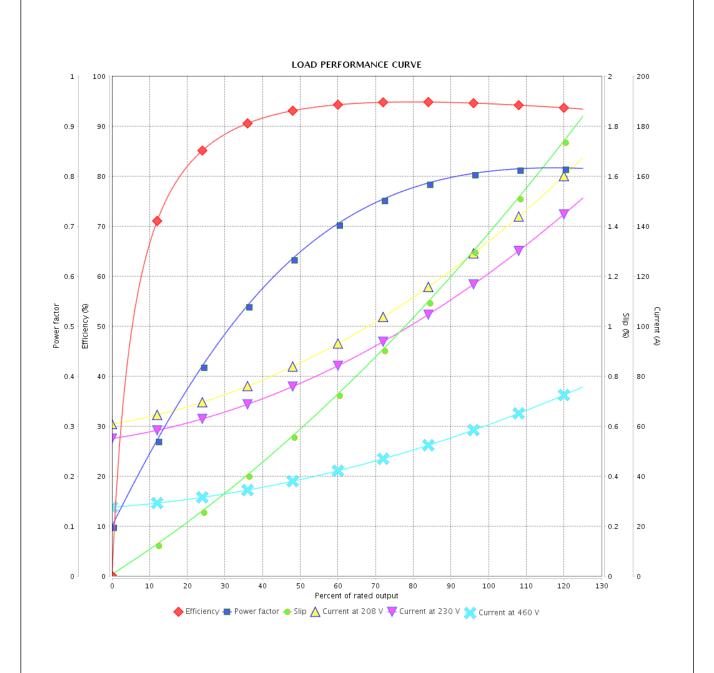


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14406913

Phase

Catalog #: 05018XT3E326T



Performance	: 2	230/460 V 60 Hz 4P				
Rated current	: 1	121/60.6 A	Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC	: 7	7.3	Duty cycle	}	: Cont.(S1)	
Rated torque	: 1	148 ft.lb	Insulation	class	:F	
Locked rotor torque	e : 2	260 %	Service fa	ctor	: 1.15	
Breakdown torque	eakdown torque : 280 % Temperature rise		ıre rise	: 80 K		
Rated speed	: 1	1775 rpm	Design		: B	
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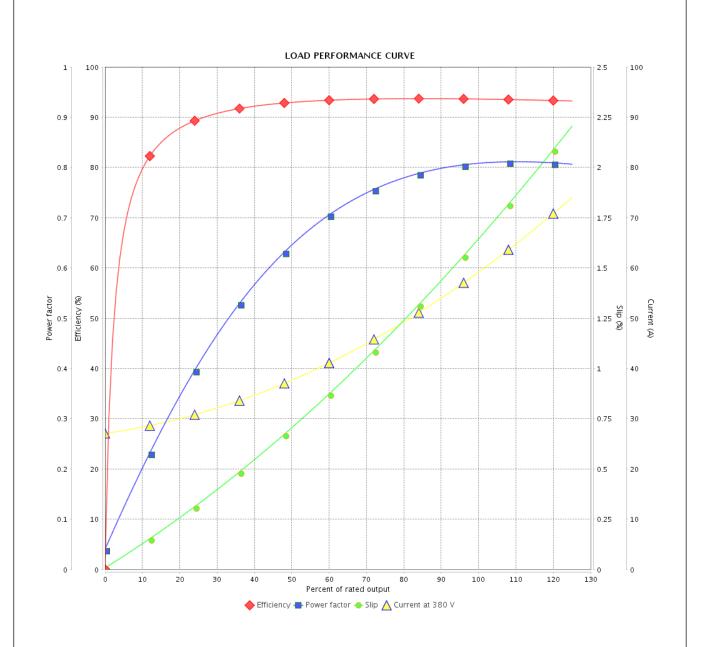
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Product line : NEMA Premium Efficiency Three- Product code : 14406913

Phase

Catalog #: 05018XT3E326T



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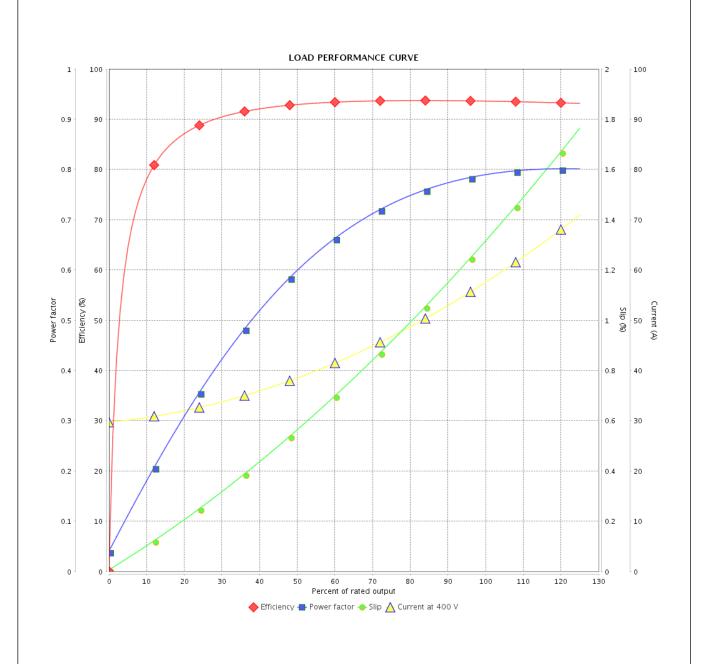


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Product line : NEMA Premium Efficiency Three- Product code : 14406913

Phase

Catalog #: 05018XT3E326T



Performance	: 40	00 V 50 Hz 4P IE3				
Rated current : 58.6 A LRC : 7.6		ı	of inertia (J)	: 9.16 sq.ft.lb : Cont.(S1)		
Rated torque	: 14	42 ft.lb	Duty cycle Insulation class		: F	
Locked rotor torg	1	60 % 90 %	Service fa Temperati		: 1.00 : 80 K	
Rated speed		90 % 480 rpm	Design	ure rise	: B	
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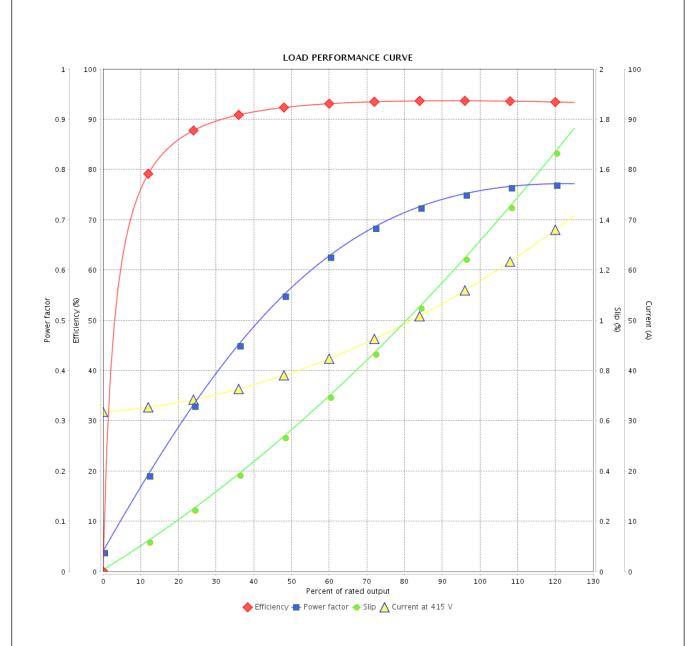
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Phase

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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 inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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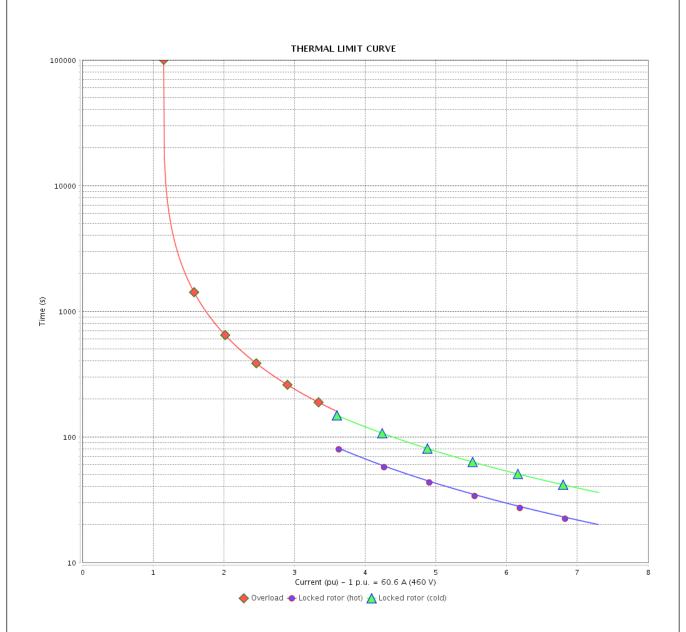


Product line		NEMA Premium Efficiency	Three-	Product code :	14406913	
	F	Phase		Catalog # :	05018XT3E32	26T
Rated current LRC Rated torque Locked rotor tor Breakdown torq	: 7 : 7 : 7 : 7 : 9 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1	230/460 V 60 Hz 4P 121/60.6 A 7.3 148 ft.lb 260 %	Duty cycle Insulation Service fa Temperat	ı class actor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K	
Performance Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed	que : 2 ue : 2	121/60.6 A 7.3 148 ft.lb 260 %	Duty cycle Insulation Service fa	e ı class actor	: Cont.(S1) : F : 1.15	
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed	que :2	121/60.6 A 7.3 148 ft.lb 260 % 280 %	Duty cycle Insulation Service fa Temperat	e ı class actor	: Cont.(S1) : F : 1.15 : 80 K	
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed	que :2	121/60.6 A 7.3 148 ft.lb 260 % 280 %	Duty cycle Insulation Service fa Temperat	e ı class actor	: Cont.(S1) : F : 1.15 : 80 K	Date
Rated current .RC Rated torque .ocked rotor tor Breakdown torq Rated speed Heating constar Cooling constar	que :2	121/60.6 A 7.3 148 ft.lb 260 % 280 % 1775 rpm	Duty cycle Insulation Service fa Temperat	e i class actor ure rise	: Cont.(S1) : F : 1.15 : 80 K : B	Date
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar Cooling constar	que :2	121/60.6 A 7.3 148 ft.lb 260 % 280 % 1775 rpm	Duty cycle Insulation Service fa Temperat	e i class actor ure rise	: Cont.(S1) : F : 1.15 : 80 K : B	Date
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar Cooling constar Rev.	que :2	121/60.6 A 7.3 148 ft.lb 260 % 280 % 1775 rpm	Duty cycle Insulation Service fa Temperat	e i class actor ure rise	: Cont.(S1) : F : 1.15 : 80 K : B	Date

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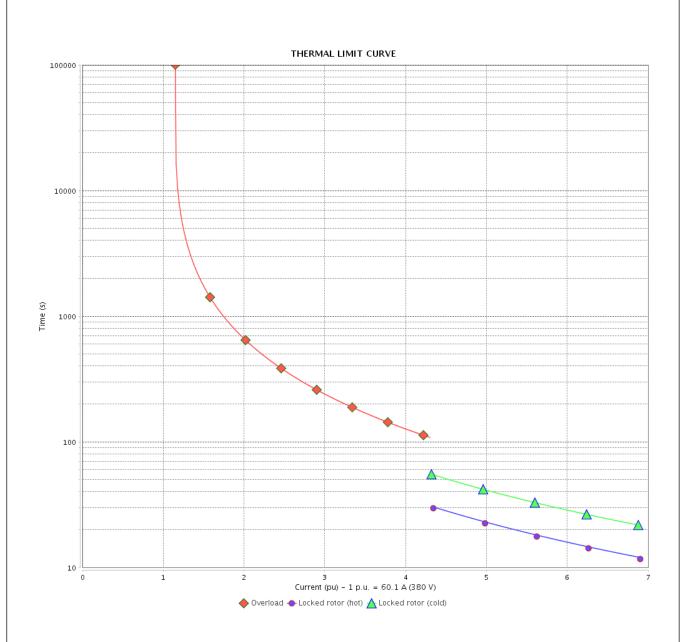


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Product line	: P	NEMA Premium Efficiency hase	Three-	Product code :	14406913	
	'	nasc		Catalog # :	05018XT3E3	26T
Performance		80 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu	: 6 : 1 que : 2 ue : 2	42 ft.lb 40 % 60 %	Duty cycle Insulation Service fa Temperat	class actor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Rated speed Heating constan	· · · · · · · · · · · · · · · · · · ·	475 rpm	Design		: B	
Cooling constan						
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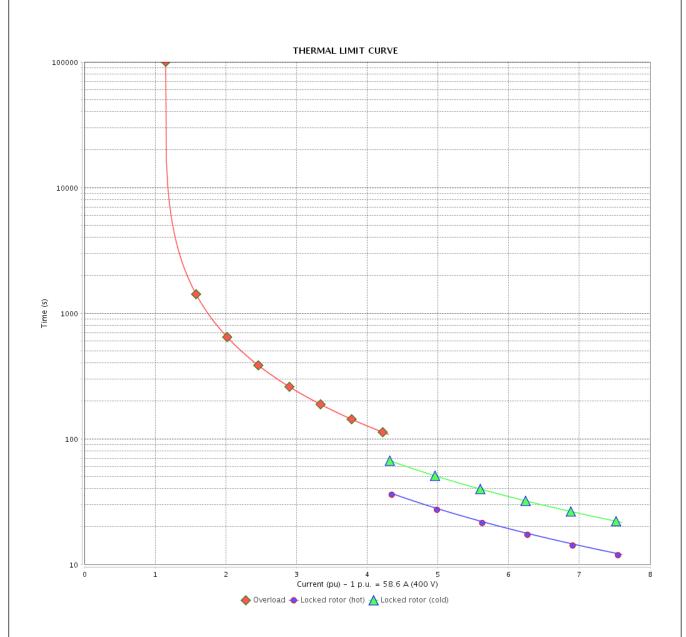


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Product line	:	NEMA Premium Efficiency	Three-	Product code :	14406913	
	٢	Tiase		Catalog # :	05018XT3E3	326T
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5 : 7 : 1 que : 2 ue : 2	00 V 50 Hz 4P IE3 8.6 A .6 42 ft.lb 60 % 90 % 480 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constan						
Cooling constant	t 	Changes Summani		Dorformad	Charled	Doto
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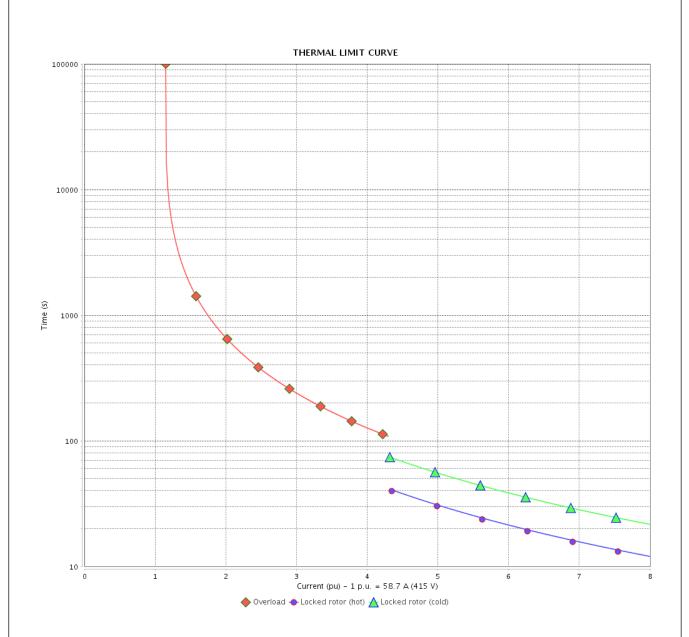


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Product line		NEMA Premium Efficiency	Three-	Product code :	14406913	
1 Toddot iiilo		hase				
				Catalog # :	05018XT3E3	26 I
. .		45.7.50.11 40.150				
Performance Rated current		15 V 50 Hz 4P IE3 8.7 A	Moment	of inartia (I)	: 0.16 og ft lb	
LRC	: 8		Duty cycle	of inertia (J) e	: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque		42 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown tord	que :2 .e :3	80 % 10 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		480 rpm	Design		: B	
Heating constan						
Cooling constan						
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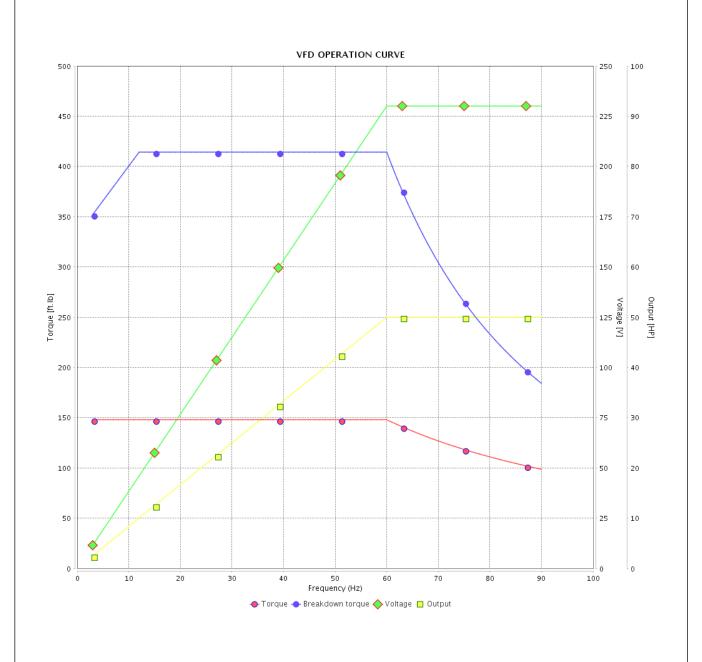


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14406913

Phase

Catalog #: 05018XT3E326T



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

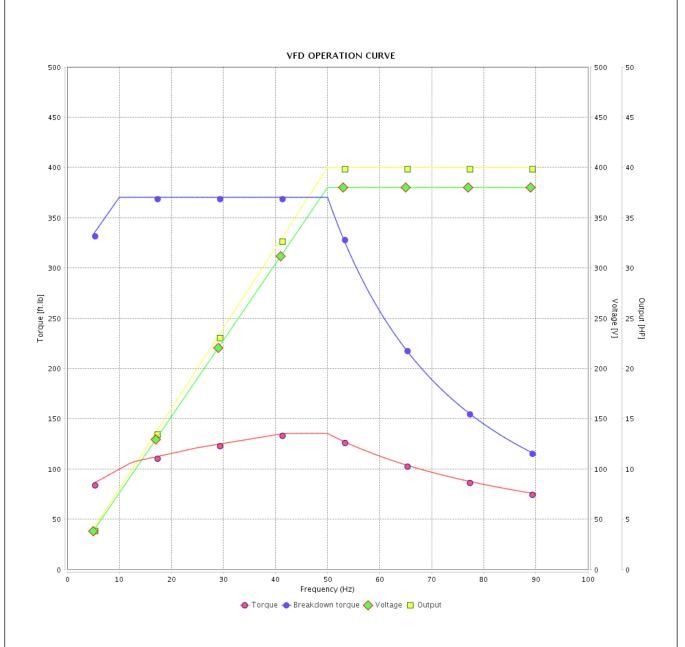
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14406913

Catalog #: 05018XT3E326T



Performance	: 3	380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 1 jue : 2 ie : 2	60.1 A 6.9 142 ft.lb 240 % 260 % 1475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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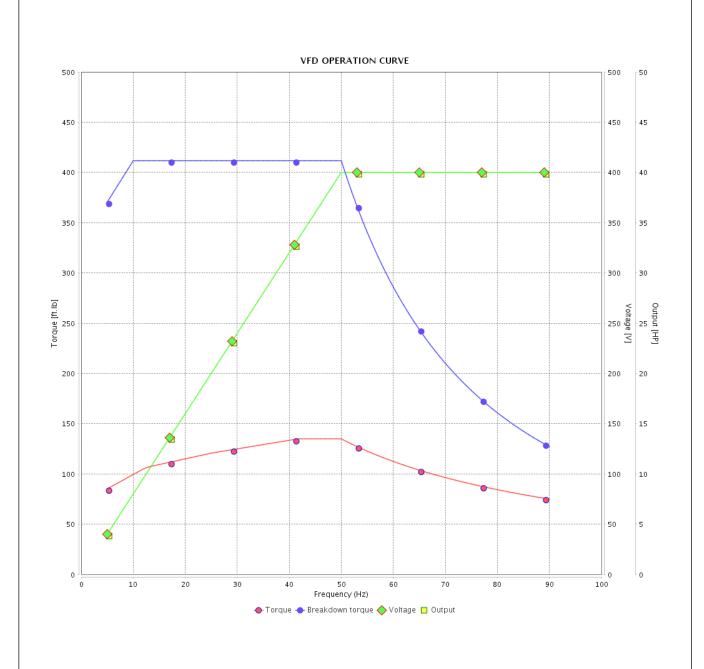
Customer

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Phase

Catalog # : 05018XT3E326T

14406913



Performance	:	: 400 V 50 Hz 4P IE3						
Rated current	:	58.6 A	Moment o	Moment of inertia (J)				
LRC	:	: 7.6 Duty of the control of the con)	: Cont.(S1)			
Rated torque	:			class	: F			
Locked rotor torque	e :	260 %	Service fa	Service factor				
Breakdown torque	:	290 %	Temperati	ure rise	: 80 K			
Rated speed	:	: 1480 rpm		Design				
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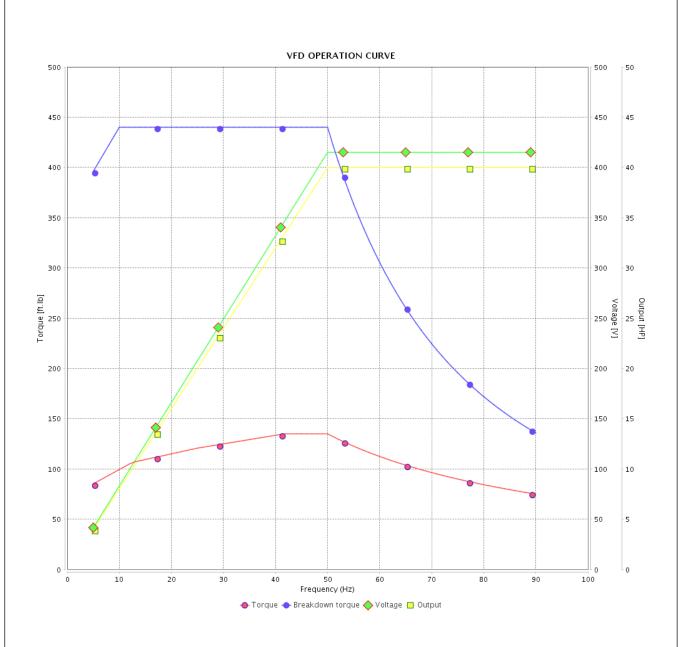
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14406913

Catalog #: 05018XT3E326T



Performance	: 4	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 inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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