DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14407174

Phase

Catalog #: 05018XT3E326TC

Frame : 326TC 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 : 699 lb
Protection degree : IP55 Moment of inertia (J) : 9.16 sq.ft.lb

Protection degree	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 [RPM	1]	1775	1475	1480	1480			
Slip [%]		1.39	1.67	1.33	1.33			
	Rated torque [ft.lb]		142	142	142			
Locked rotor torqu	e [%]	260	240	260	280			
Breakdown torque	Breakdown torque [%]		260	290	310			
Service factor		1.15	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%	93.4	92.8	92.8	92.2			
Efficiency (%)	50%	93.6	93.0	93.0	92.4			
Liliciency (70)	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			
I OWEI 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 : 1339 lb Sealing : Oil Seal Lip Seal Max. compression : 2038 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.

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			1 / 22	

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer	
Customer	

Thermal protection

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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			2 / 22	

Three Phase Induction Motor - Squirrel Cage

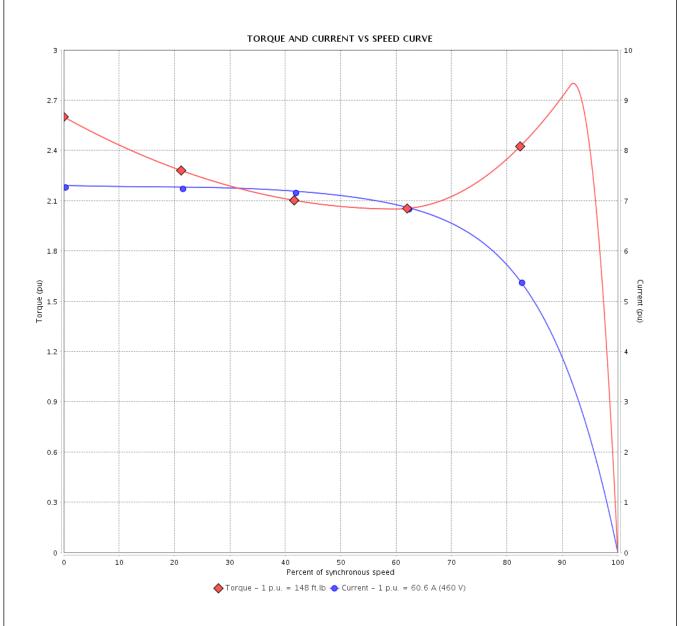


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14407174

Phase

Catalog #: 05018XT3E326TC



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 rotor time	: 36s (cold) 20s (bot)		

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

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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			3 / 22	

Three Phase Induction Motor - Squirrel Cage

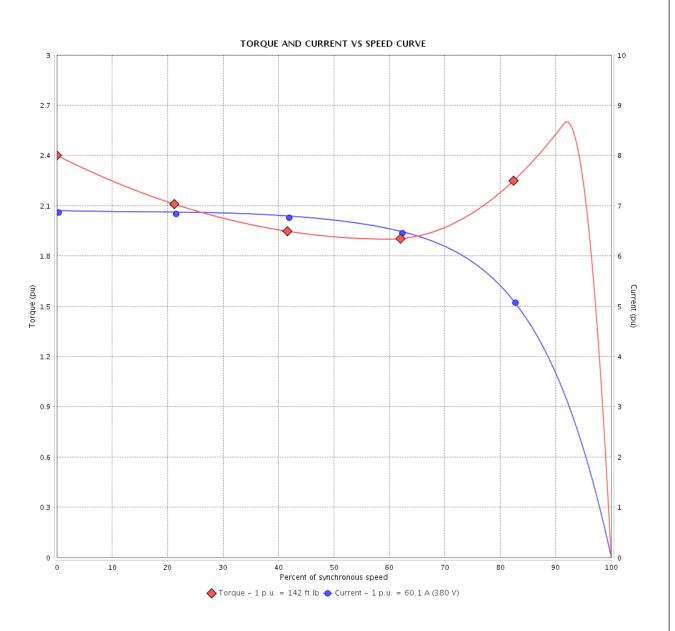


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14407174

Phase

Catalog #: 05018XT3E326TC



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)

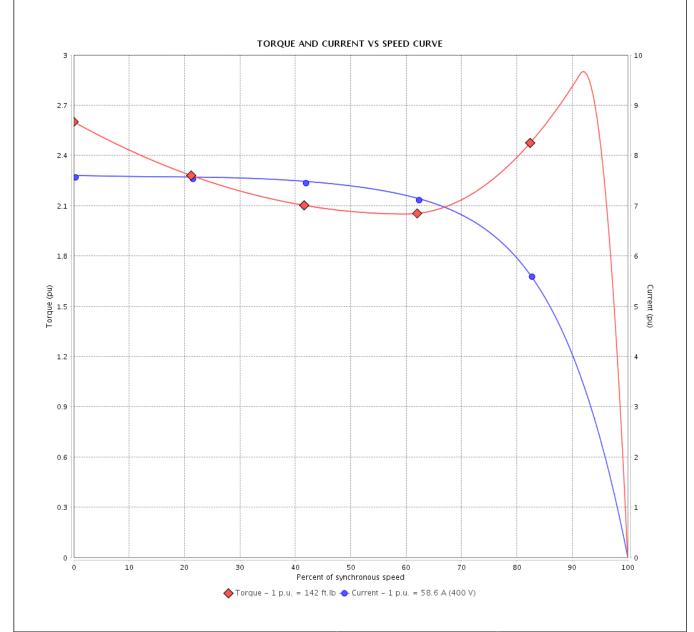
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			4 / 22	

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Product code : 14407174
Phase Catalog # : 05018XT3E326TC



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) Insulation class Rated torque : 142 ft.lb : F : 260 % Locked rotor torque Service factor : 1.00 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B Locked rotor time : 21s (cold) 12s (hot)

Three Phase Induction Motor - Squirrel Cage



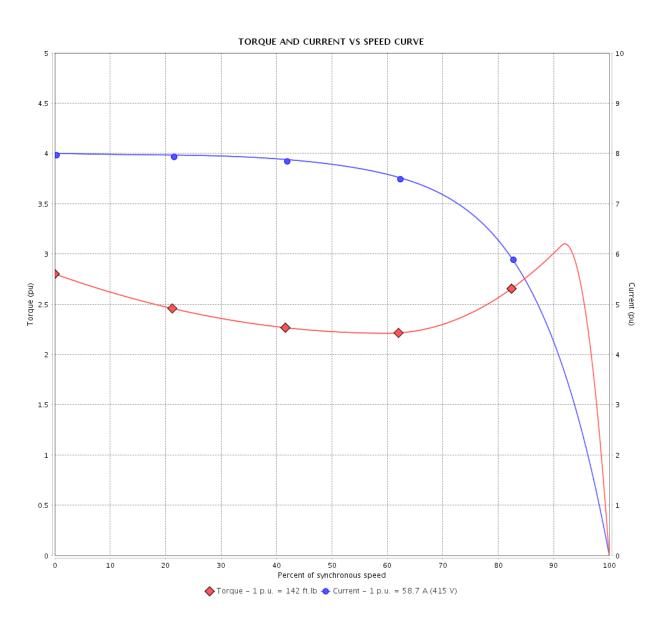
Customer :

Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 14407174

Catalog #: 05018XT3E326TC



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)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			6 / 22	

Three Phase Induction Motor - Squirrel Cage

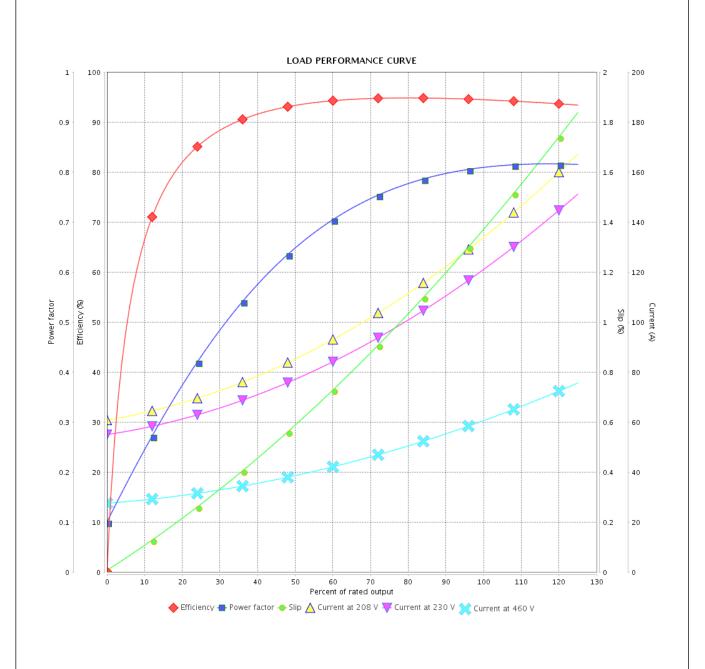


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14407174

Phase

Catalog #: 05018XT3E326TC



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	: 2	280 %	Temperature rise		: 80 K	
Rated speed	: 1	1775 rpm	Design		: B	
Rev.		Changes Summary	<u> </u>	Performed	Checked	Date
Performed by						
Checked by		7			Page	Revision
Date	12/04/2022				7 / 22	

Three Phase Induction Motor - Squirrel Cage



Customer :

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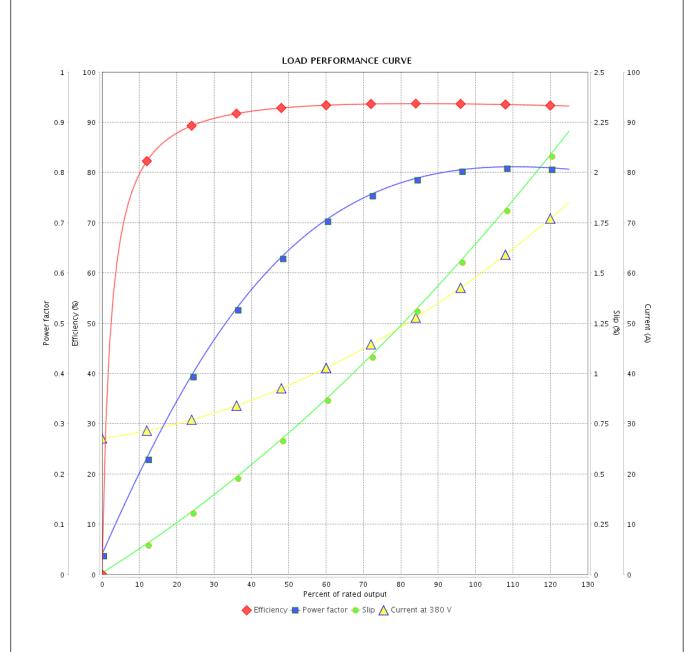
Date

12/04/2022

Product line : NEMA Premium Efficiency Three- Product code : 14407174

Phase

Catalog #: 05018XT3E326TC



Performance	: 3	80 V 50 Hz 4P IE3					
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 1 que : 2 ie : 2	0.1 A .9 42 ft.lb 40 % 60 % 475 rpm	Duty cycle Insulation Service fa	Duty cycle : Coolinsulation class : For Service factor : 1. Temperature rise : 80			
Rev.		Changes Summar	гу	Performed	Checked	Date	
Performed by							

Page

8 / 22

Revision

Three Phase Induction Motor - Squirrel Cage

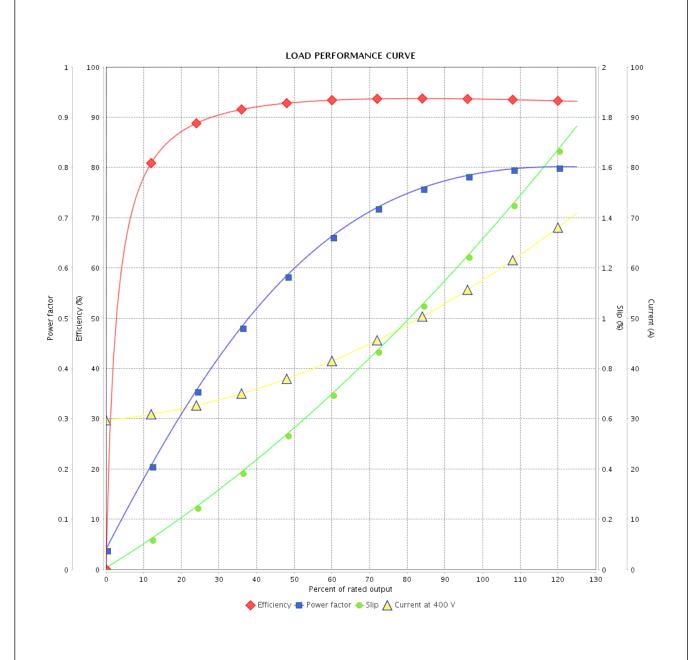


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14407174

Phase

Catalog #: 05018XT3E326TC



Performance	: 4	00 V 50 Hz 4P IE3				
Rated current	: 5	8.6 A	Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC	: 7	.6	Duty cycle)	: Cont.(S1)	
Rated torque	: 1	42 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	60 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	90 %	Temperati	Temperature rise		
Rated speed	: 1	480 rpm	Design		: B	
Rev.		Changes Summa	ry	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022	7			9 / 22	

Three Phase Induction Motor - Squirrel Cage

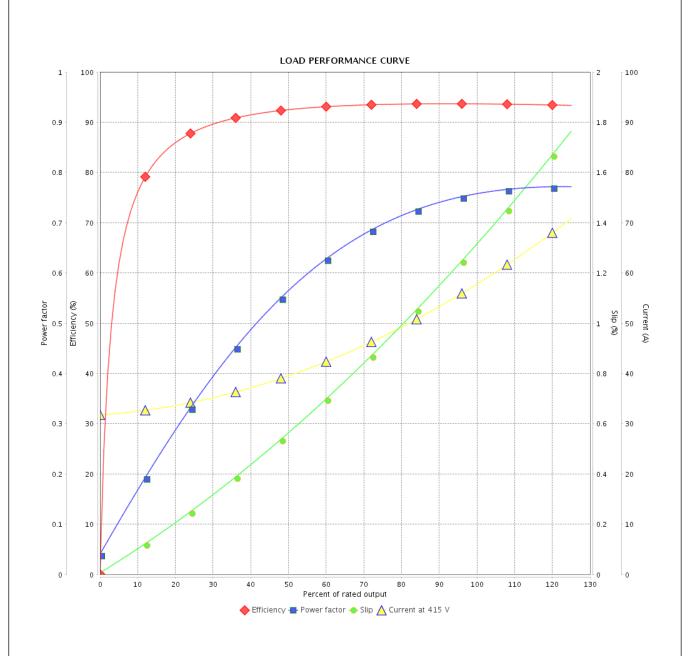


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14407174

Phase

Catalog #: 05018XT3E326TC



Performance	: 415 V 50 Hz 4P IE3			
Rated current : 58.7 A LRC : 8.0 Rated torque : 142 ft.lb Locked rotor torque : 280 % Breakdown torque : 310 %		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Rated speed Rev.	: 1480 rpm Changes Summary	Design Performed	: B Checked	Date
Performed by			011001100	
Checked by			Page	Revision

10 / 22

12/04/2022

Date

Three Phase Induction Motor - Squirrel Cage

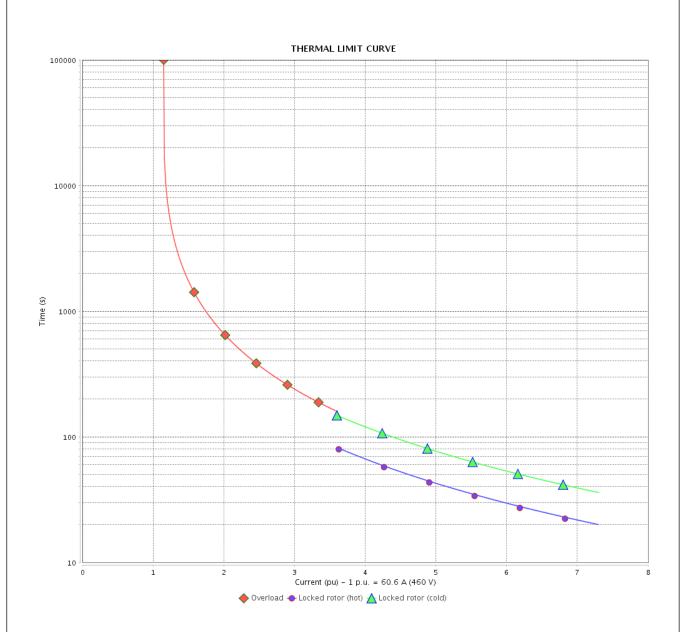


Customer	:					
Product line	: 1 P	NEMA Premium Efficiency in the second		Product code : Catalog # :	14407174 05018XT3E3	326TC
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 12 : 7. : 14 jue : 26 ie : 28	30/460 V 60 Hz 4P 21/60.6 A 3 48 ft.lb 60 % 80 % 775 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ictor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by		-			Page	Revision
Date	12/04/2022	_			11 / 22	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022	1		12 / 22	

Three Phase Induction Motor - Squirrel Cage

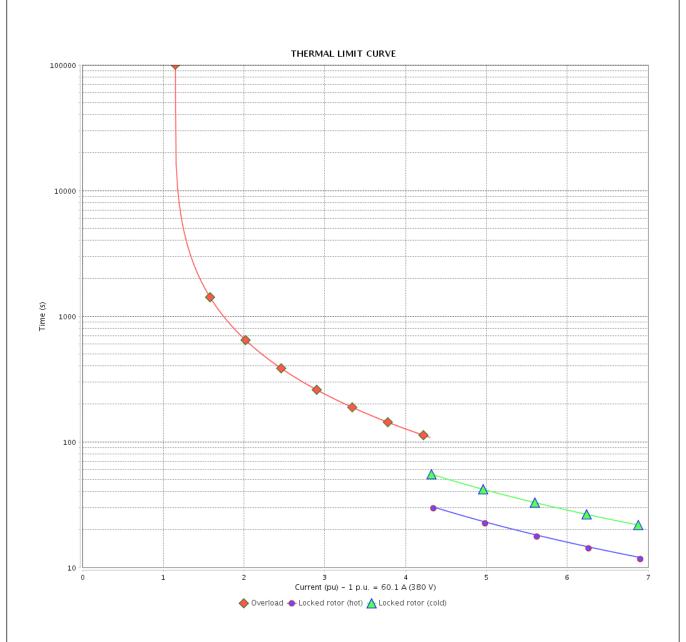


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			Catalog # :	05018X13E3	
Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 60.1 A : 6.9 : 142 ft.lb : 240 % : 260 % : 1475 rpm	Moment of Duty cycl Insulation Service for Temperat Design	n class actor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
Performed by				\neg	
Checked by Date 12/					

Three Phase Induction Motor - Squirrel Cage



Customer :



Rev.		Changes Summary	Performed	Checked	Date
Performed by			'		1
Checked by				Page	Revision
Date	12/04/2022			14 / 22	

Three Phase Induction Motor - Squirrel Cage

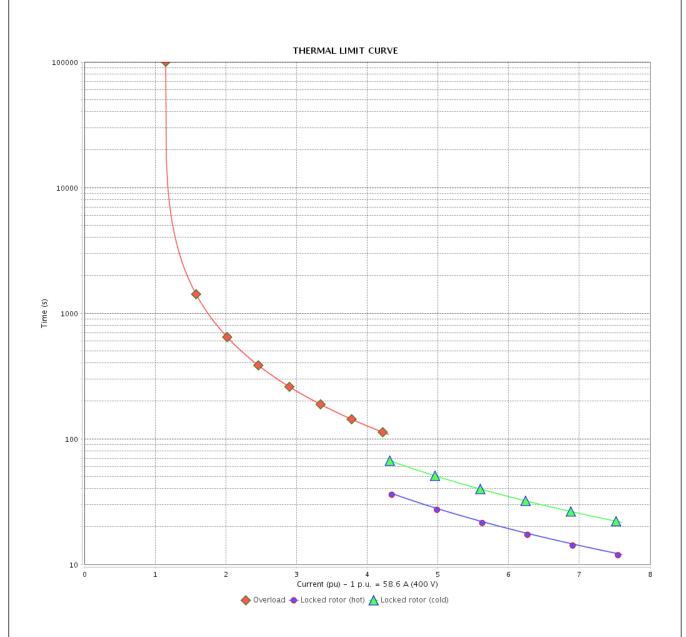


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Product line	:1	NEMA Premium Efficiency ⁻	Γhree-	Product code :	14407174	
	P	hase		Catalog # :	05018XT3E32	
				<u> </u>		
2. (20.1/50.11 4D.150				
Rated current _RC	: 58 : 7.		Duty cycle	of inertia (J)	: 9.16 sq.ft.lb : Cont.(S1)	
Rated current LRC Rated torque Locked rotor tord Breakdown torqu	: 56 : 7: : 14 que : 20 ie : 29	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 torq Breakdown torqu Rated speed	: 56 : 7: : 14 que : 20 : 14	8.6 A 6 42 ft.lb 60 %	Duty cycle Insulation Service fa	e class actor	: Cont.(S1) : F : 1.00	
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 56 : 7: : 14 que : 20 : 14	8.6 A 6 42 ft.lb 60 % 90 % 480 rpm	Duty cycle Insulation Service fa Temperate	e class actor	: Cont.(S1) : F : 1.00 : 80 K	Date
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed Heating constan Cooling constan	: 56 : 7: : 14 que : 20 : 14	8.6 A 6 42 ft.lb 60 % 90 %	Duty cycle Insulation Service fa Temperate	e class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed Heating constan Cooling constan Rev. Performed by	: 56 : 7: : 14 que : 20 : 14	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



Customer :



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			16 / 22	

Three Phase Induction Motor - Squirrel Cage

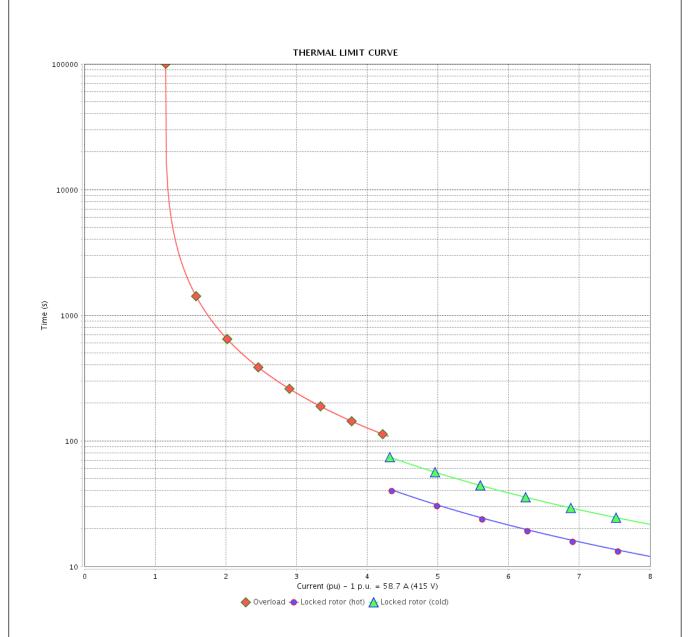


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	14407174	
1 Toddot iiilo	F	hase	111100			
				Catalog # :	05018XT3E3	326TC
Performance	· 1	15 V 50 Hz 4P IE3				
Rated current		8.7 A	Moment o	of inertia (J)	: 9.16 sq.ft.lb	
_RC	: 8	5.0	Duty cycle	е	: Cont.(S1)	
Rated torque		42 ft.lb 80 %	Insulation Service fa		: F : 1.00	
_ocked rotor tord Breakdown torqu		10 %	Temperat		: 80 K	
Rated speed		480 rpm	Design		: B	
Heating constan	<u> </u>					
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by				`		
Checked by					Page	Revision
Date	12/04/2022				17 / 22	

Three Phase Induction Motor - Squirrel Cage



Customer :



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			18 / 22	

Three Phase Induction Motor - Squirrel Cage

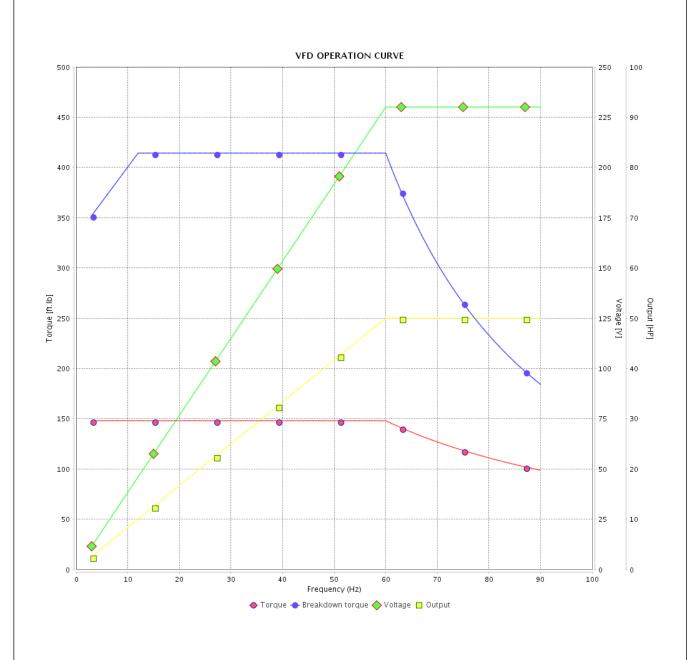


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14407174

Phase

Catalog #: 05018XT3E326TC



Performance	erformance : 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	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

19/22

12/04/2022

Date

Three Phase Induction Motor - Squirrel Cage



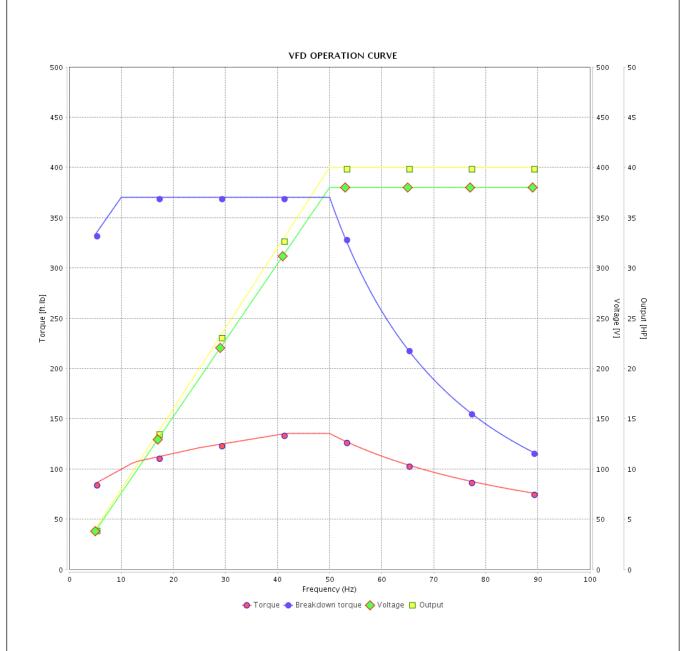
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14407174

Catalog #: 05018XT3E326TC



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 Temperate Design	class ctor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

20 / 22

12/04/2022

Date

Three Phase Induction Motor - Squirrel Cage



Customer

Checked by

Date

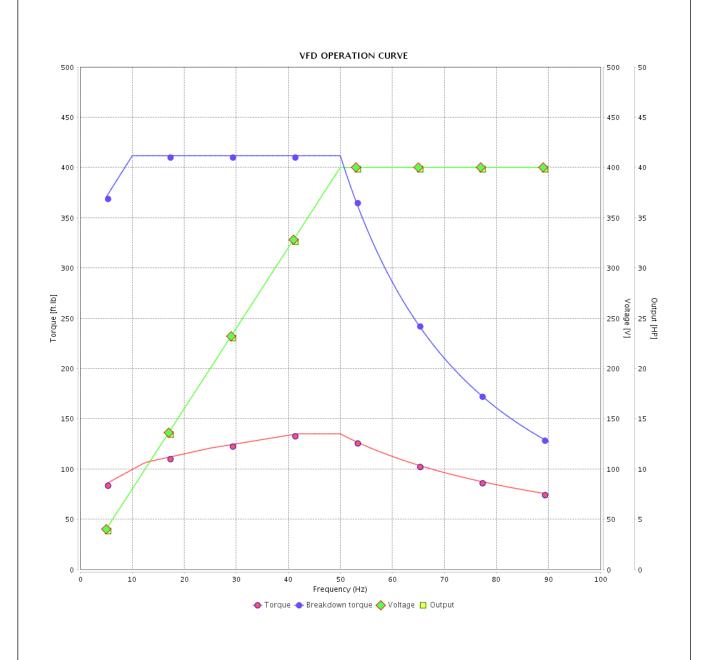
12/04/2022

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 14407174

Catalog #: 05018XT3E326TC



Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 58.6 A : 7.6 : 142 ft.lb : 260 % : 290 % : 1480 rpm	Moment of Duty cycle Insulation Service fa Temperation	class actor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					

Page

21 / 22

Revision

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

12/04/2022

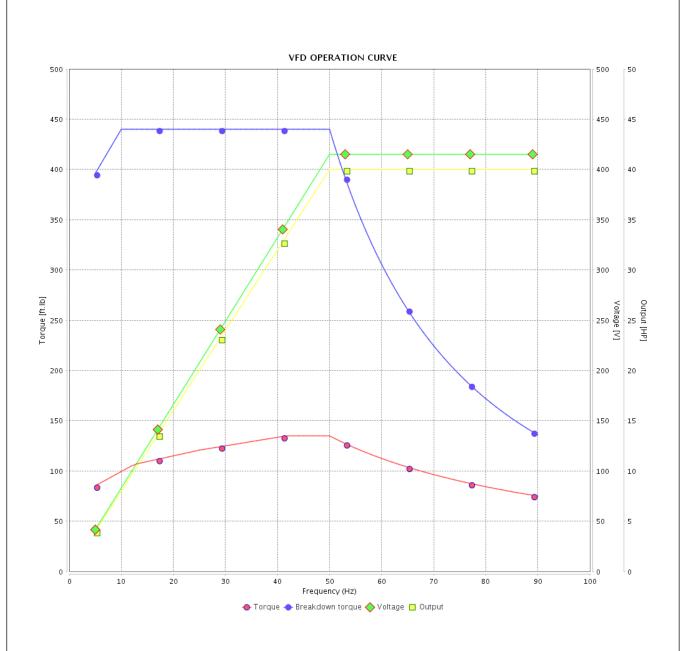
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 05018XT3E326TC

14407174

22 / 22



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

