DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11963107

Catalog #: 25018XT3G447T

Frame : 447T Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) : -20°C to +40°C

Ambient temperature Starting method : Direct On Line : 1000 m.a.s.l. Approx. weight³ : 2678 lb Altitude

Protection degree : IP55

Moment of inertia (J) : 89.6 sq.ft.lb Design : B Output [HP] 250 200 200 200 Poles 4 4 4 4 Frequency [Hz] 60 50 50 50 Rated voltage [V] 460 380 400 415 Rated current [A] 284 280 269 262 L. R. Amperes [A] 1960 2071 2175 1988 7.0x(Code H) 7.0x(Code H) 7.7x(Code J) 8.3x(Code J) LRC [A] No load current [A] 100 100 105 110 Rated speed [RPM] 1782 1482 1485 1486 Slip [%] 1.00 1.20 1.00 0.93 Rated torque [ft.lb] 736 708 707 706 Locked rotor torque [%] 250 229 260 290 Breakdown torque [%] 260 260 290 320 Service factor 1.15 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K Locked rotor time 54s (cold) 30s (hot) 32s (cold) 18s (hot) 32s (cold) 18s (hot) 32s (cold) 18s (hot) Noise level² 82.0 dB(A) 82.0 dB(A) 82.0 dB(A) 82.0 dB(A) 25% 95.3 94.5 95.3 95.3 50% 95.4 95.0 95.4 95.4 Efficiency (%) 75% 96.2 95.8 95.8 95.4 96.2 100% 95.8 95.8 95.8 25% 0.47 0.47 0.44 0.41

> Drive end Non drive end Foundation loads

0.72

0.81

0.85

Bearing type 6319 C3 6316 C3 Max. traction : 4690 lb Sealing Viton Viton Seal Max. compression : 7368 lb

Oil Seal

0.72

0.81

0.85

7038 h 8569 h Lubrication interval Lubricant amount 34 q 45 g Mobil Polyrex EM Lubricant type

50%

75%

100%

Notes

Power Factor

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.

0.69

0.79

0.84

0.66

0.77

0.83

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Thermal protection

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

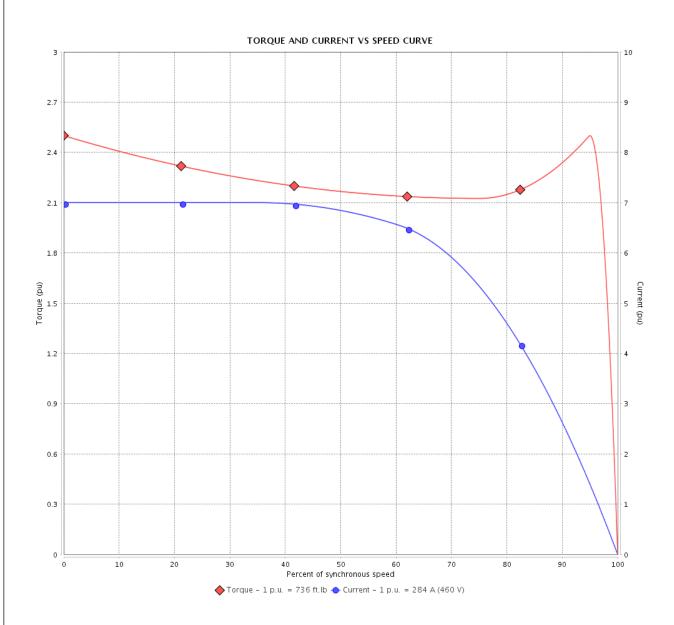
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Customer Product line : NEMA Premium Efficiency Three-Product code: 11963107

> Catalog #: 25018XT3G447T



Performance	: 460 V 60 Hz 4P			
Rated current	: 284 A	Moment of inertia (J)	: 89.6 sq.ft.lb	
LRC	: 7.0	Duty cycle	: Cont.(S1)	
Rated torque	: 736 ft.lb	Insulation class	: F	
Locked rotor torque	: 250 %	Service factor	: 1.15	
Breakdown torque	: 260 %	Temperature rise	: 80 K	
Rated speed	: 1782 rpm	Design	: B	
Locked rotor time	: 54s (cold) 30s (hot)	1		

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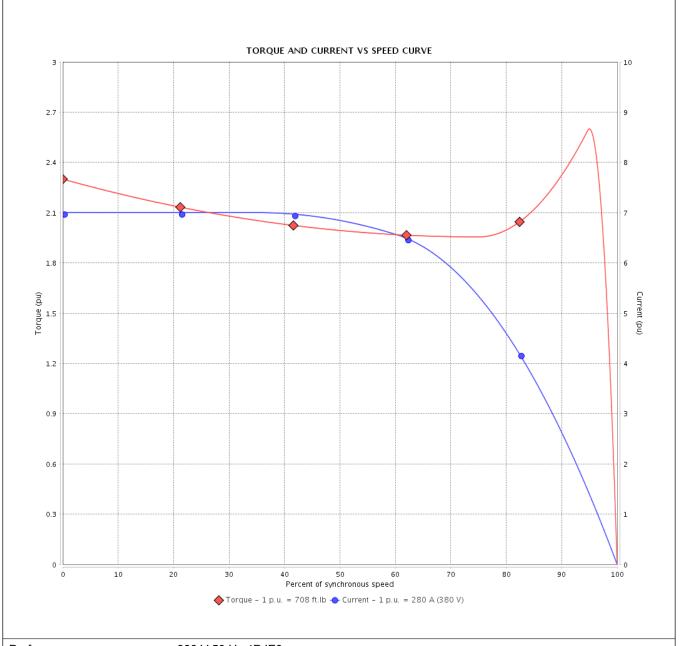


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 11963107

Catalog #: 25018XT3G447T



Performance : 380 V 50 Hz 4P IE3 Rated current : 280 A Moment of inertia (J) : 89.6 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) : 708 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 229 % : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed

: 1482 rpm Locked rotor time : 32s (cold) 18s (hot)

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Design

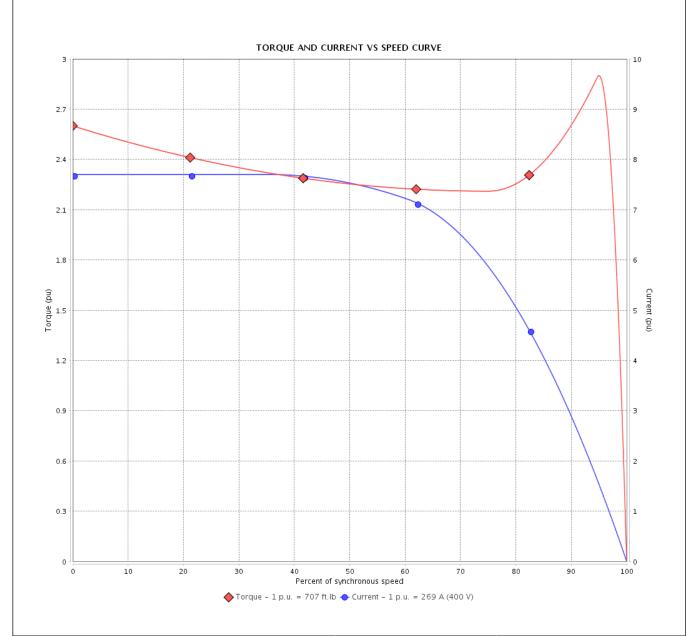
: B

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Product code : 11963107
Phase Catalog # : 25018XT3G447T



Performance : 400 V 50 Hz 4P IE3 Rated current : 269 A Moment of inertia (J) : 89.6 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) : 707 ft.lb Insulation class Rated torque : F Locked rotor torque : 260 % Service factor : 1.00 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1485 rpm Design : B Locked rotor time : 32s (cold) 18s (hot)

Three Phase Induction Motor - Squirrel Cage

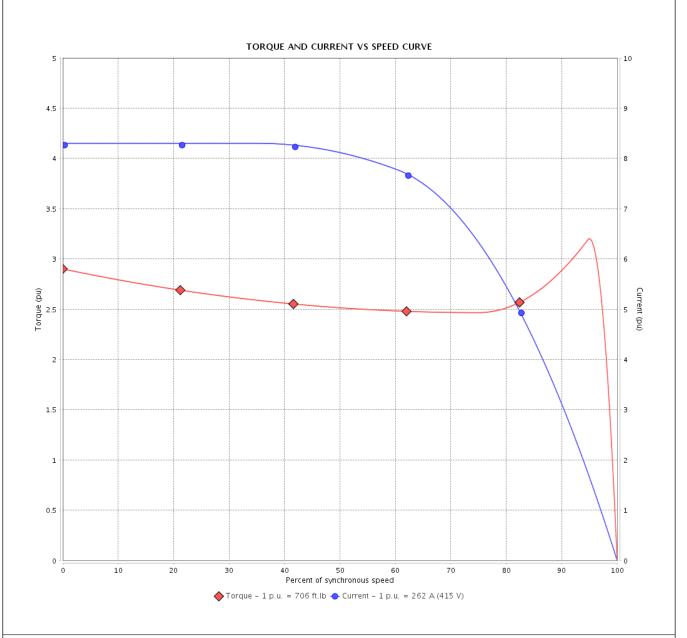


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11963107

Phase

Catalog #: 25018XT3G447T



Performance : 415 V 50 Hz 4P IE3 Rated current : 262 A Moment of inertia (J) : 89.6 sq.ft.lb **LRC** : 8.3 Duty cycle : Cont.(S1) : 706 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 290 % : 1.00 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 1486 rpm Design : B

Locked rotor time : 32s (cold) 18s (hot)

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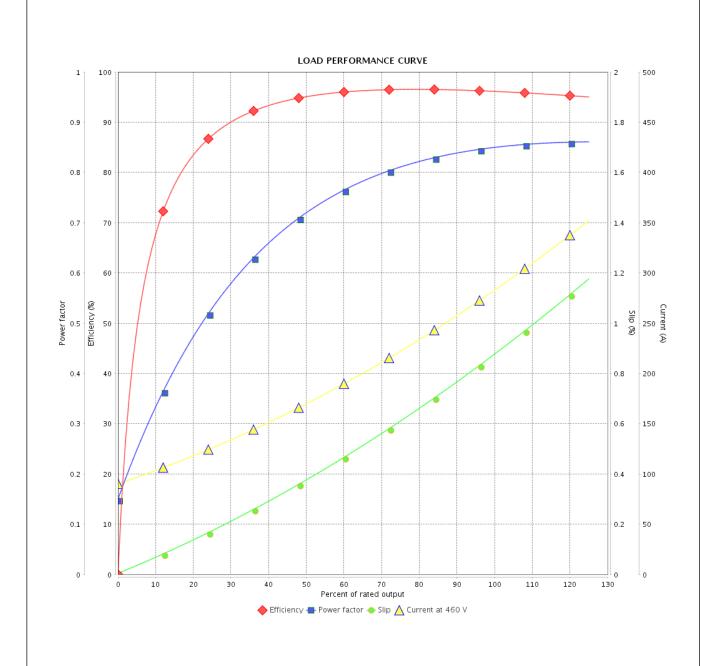
Customer

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11963107

Catalog # : 25018XT3G447T



Performance	: 4	160 V 60 Hz 4P				
Rated current	: 2	284 A	Moment o	f inertia (J)	: 89.6 sq.ft.lb	
LRC	: 7	7.0	Duty cycle	;	: Cont.(S1)	
Rated torque	: 7	736 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	250 %	Service fa	ctor	: 1.15	
Breakdown torque	: 2	260 %	Temperati	ıre rise	: 80 K	
Rated speed	: 1	1782 rpm	Design		: B	
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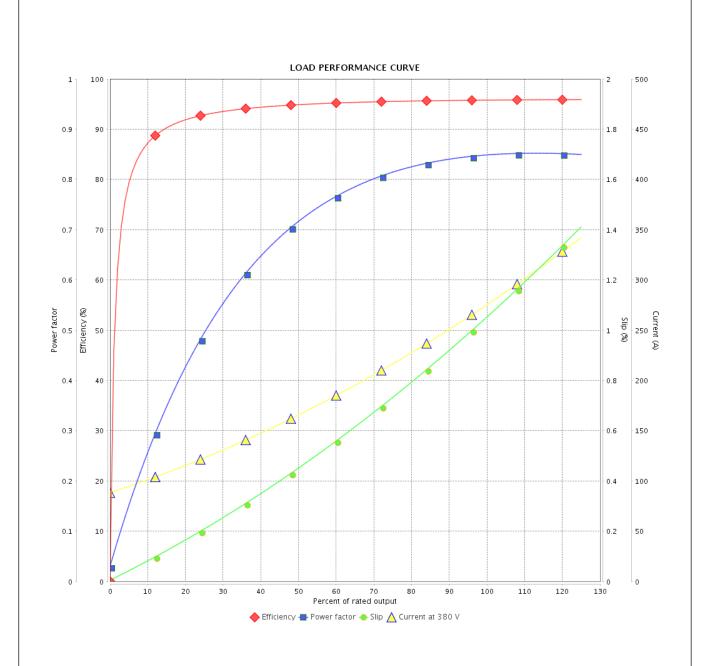
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Product line : NEMA Premium Efficiency Three- Product code : 11963107

Phase

Catalog #: 25018XT3G447T



Performance		: 380 V 50 Hz 4P	IE3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 280 A : 7.0 : 708 ft.lb : 229 % : 260 % : 1482 rpm	Moment of Duty cycl Insulation Service fa Temperat Design	class actor	: 89.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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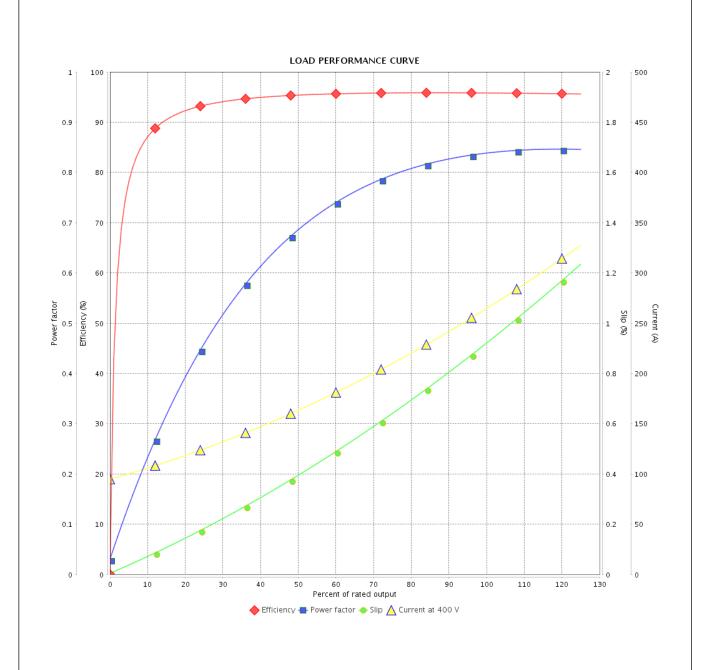


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11963107

Phase

Catalog #: 25018XT3G447T



Performance	:	400 V 50 Hz 4P IE3				
Rated current	:	269 A	Moment o	f inertia (J)	: 89.6 sq.ft.lb	
LRC	:	7.7	Duty cycle)	: Cont.(S1)	
Rated torque	:	707 ft.lb	Insulation	class	:F	
Locked rotor torque	e :	260 %	Service fa	ctor	: 1.00	
Breakdown torque	:	290 %	Temperati	ıre rise	: 80 K	
Rated speed	:	1485 rpm	Design		: B	
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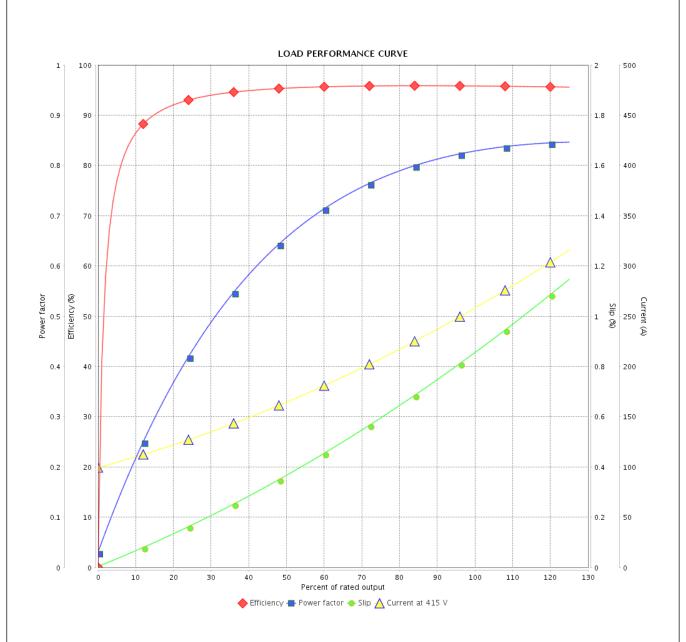
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Product line : NEMA Premium Efficiency Three- Prod

Phase

Product code: 11963107

Catalog #: 25018XT3G447T



Performance	: 415 V 50 Hz 4P IE3				
Rated current	: 262 A	Moment of inertia (J)		: 89.6 sq.ft.lb	
LRC	: 8.3	Duty cycle	. ,	: Cont.(S1)	
Rated torque	: 706 ft.lb	Insulation class	3	: F	
Locked rotor torque	: 290 %	Service factor		: 1.00	
Breakdown torque	: 320 %	Temperature rise		: 80 K	
Rated speed	: 1486 rpm	Design		: B	
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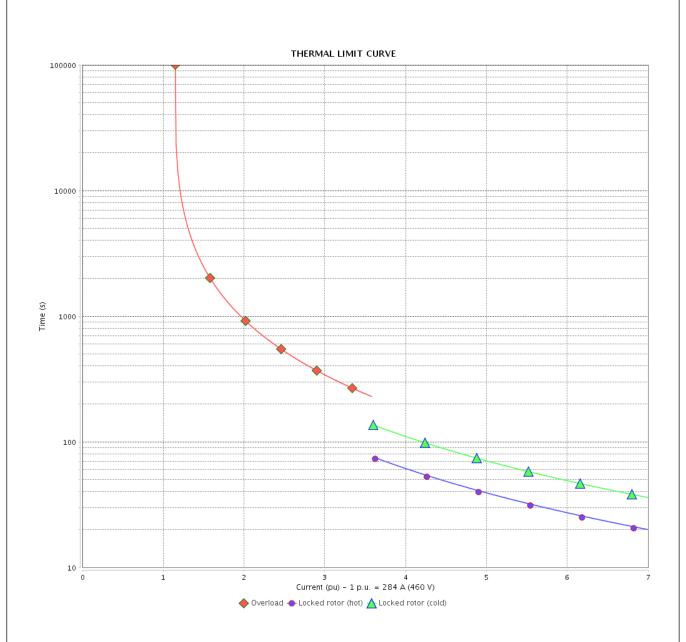


Product line		NEMA Premium Efficiency T hase	hree-	Product code :	11963107	
	٢	nase		Catalog # :	25018XT3G4	47T
Rated current LRC Rated torque Locked rotor tor Breakdown torg Rated speed	: 2 : 7 : 7 rque : 2 que : 2 : 1	.0 36 ft.lb 50 %	Moment of Duty cycle Insulation Service fa Temperation Design	class actor	: 89.6 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Performance Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constan	: 2 : 7 : 7 rque : 2 ; 2 : 1	84 A .0 36 ft.lb 50 %	Duty cycle Insulation Service fa Temperate	e ı class actor	: Cont.(S1) : F : 1.15 : 80 K	
Rated current LRC Rated torque Locked rotor tor Breakdown torg Rated speed Heating constar Cooling constar	: 2 : 7 : 7 rque : 2 ; 2 : 1	84 A .0 36 ft.lb 50 % 60 % 782 rpm	Duty cycle Insulation Service fa Temperate	e I class actor ure rise	: Cont.(S1) : F : 1.15 : 80 K : B	Date
Rated current LRC Rated torque Locked rotor tor Breakdown torg Rated speed	: 2 : 7 : 7 rque : 2 ; 2 : 1	84 A .0 36 ft.lb 50 %	Duty cycle Insulation Service fa Temperate	e ı class actor	: Cont.(S1) : F : 1.15 : 80 K	Date
Rated current LRC Rated torque Locked rotor tor Breakdown torg Rated speed Heating constar Cooling constar Rev.	: 2 : 7 : 7 rque : 2 ; 2 : 1	84 A .0 36 ft.lb 50 % 60 % 782 rpm	Duty cycle Insulation Service fa Temperate	e I class actor ure rise	: Cont.(S1) : F : 1.15 : 80 K : B	Date
Rated current LRC Rated torque Locked rotor tor Breakdown torg Rated speed Heating constar Cooling constar	: 2 : 7 : 7 rque : 2 ; 2 : 1	84 A .0 36 ft.lb 50 % 60 % 782 rpm	Duty cycle Insulation Service fa Temperate	e I class actor ure rise	: Cont.(S1) : F : 1.15 : 80 K : B	Date

Three Phase Induction Motor - Squirrel Cage



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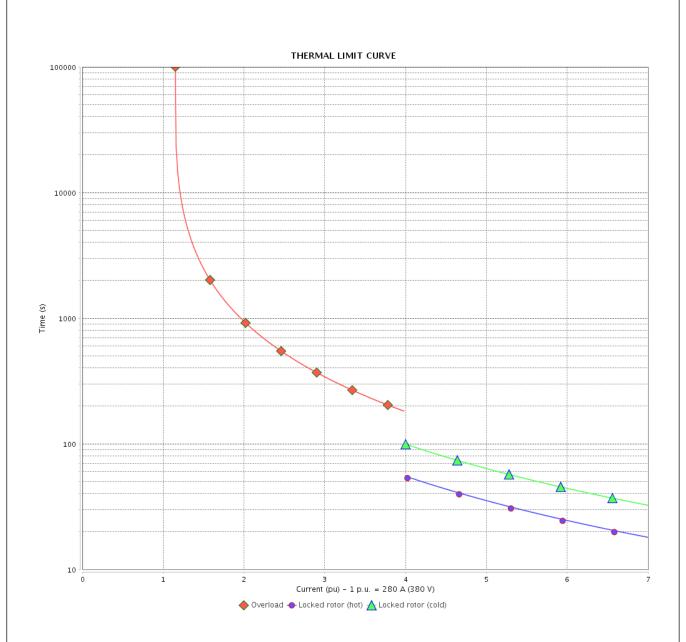


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Product line		NEMA Premium Efficiency ⁻ hase	Three-	Product code :	11963107	1477
				Catalog # :	25018XT3G4	1471
Performance	: 38	80 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord	: 28 : 7. : 70 : 22	80 A 0 08 ft.lb 29 %	Duty cycle Insulation Service fa	ı class actor	: 89.6 sq.ft.lb : Cont.(S1) : F : 1.00	
Breakdown torqu Rated speed		60 % 482 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constant	t					
Cooling constant						
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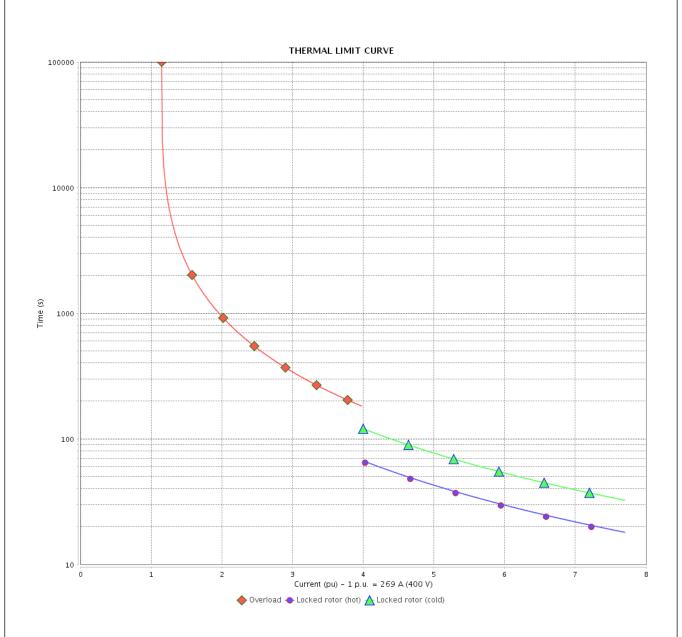


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Product line		NEMA Premium Efficiency	Three-	Product code :	11963107	
	Р	hase		Catalog # :	25018XT3G4	147T
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: 2 : 7 : 7: que : 2 !e : 2:	00 V 50 Hz 4P IE3 69 A .7 07 ft.lb 60 % 90 % 485 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class actor	: 89.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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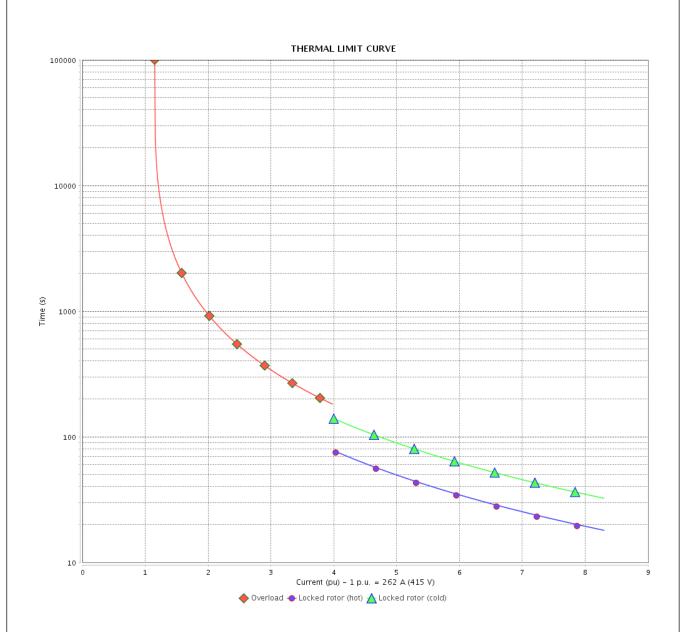


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Product line		NEMA Premium Efficiency hase	Three-	Product code :	11963107	
	Г	nase		Catalog # :	25018XT3G4	147T
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: 21 : 8 : 7 que : 2 ue : 3	15 V 50 Hz 4P IE3 62 A .3 06 ft.lb 90 % 20 % 486 rpm	Moment of Duty cyclo Insulation Service for Temperat Design	class actor	: 89.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constan	<u> </u>	·				
Cooling constant						
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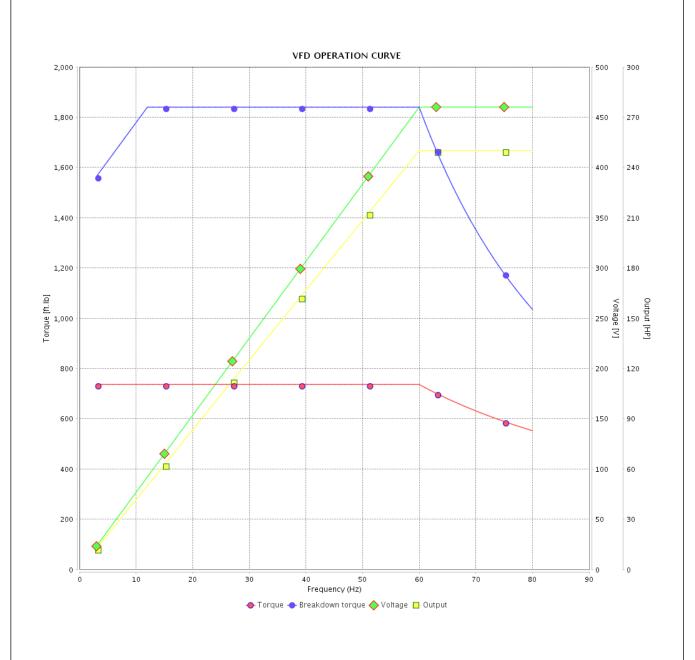
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 25018XT3G447T

11963107

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Performance	: 460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 284 A : 7.0 : 736 ft.lb : 250 % : 260 % : 1782 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 89.6 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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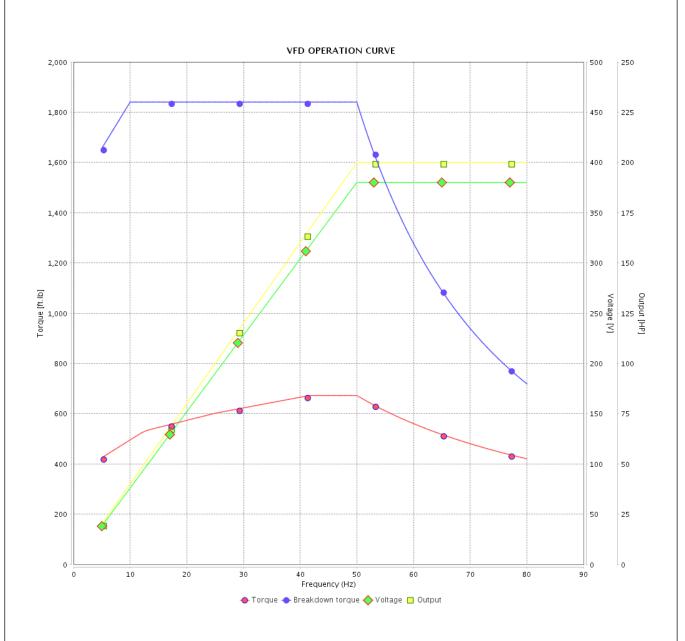
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11963107

Catalog #: 25018XT3G447T



Performance : 380 V 50 Hz 4P IE3 Rated current : 280 A Moment of inertia (J) : 89.6 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) : 708 ft.lb Insulation class : F Rated torque Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1482 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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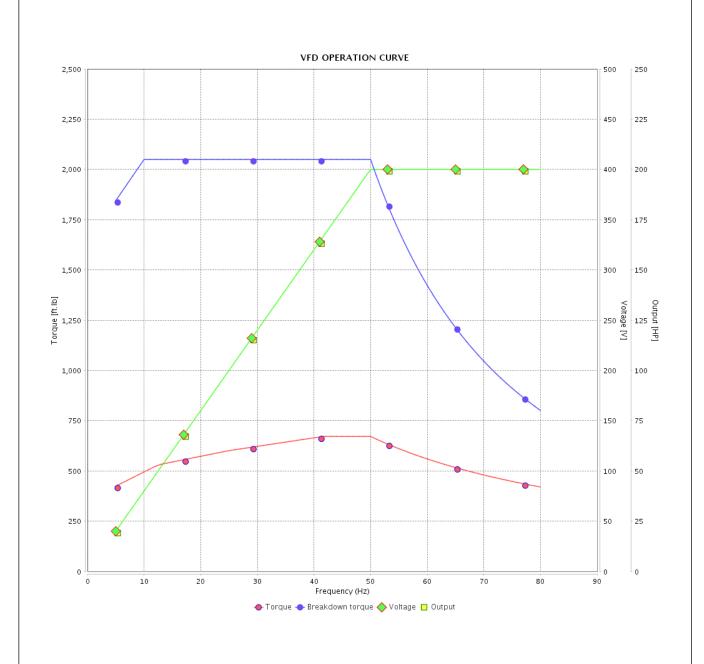
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Phase

Catalog #: 25018XT3G447T

11963107



Performance	: 40	00 V 50 Hz 4P IE3				
Rated current		69 A		Moment of inertia (J)		
LRC	: 7.	7	Duty cycle	9	: Cont.(S1)	
Rated torque	: 70	07 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 26	60 %	Service fa	ictor	: 1.00	
Breakdown torque	e : 29	90 %	Temperature rise	ure rise	: 80 K	
Rated speed	: 14	85 rpm Design		: B		
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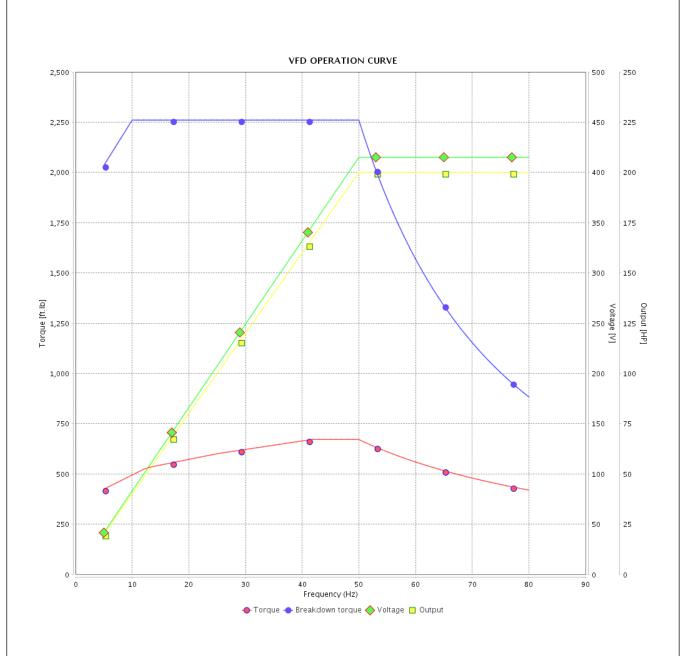
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11963107

Catalog #: 25018XT3G447T



Performance	: 415 V 50 Hz 4P IE3	·			
Rated current	: 262 A	Moment of	of inertia (J)	: 89.6 sq.ft.lb	
LRC	: 8.3	Duty cycle	9	: Cont.(S1)	
Rated torque	: 706 ft.lb	Insulation	class	: F	
Locked rotor torque	: 290 %	Service factor		: 1.00	
Breakdown torque	: 320 %	Temperature rise : 80 K			
Rated speed	: 1486 rpm	Design		: B	
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