### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12408383

Phase

Catalog #: 30018XT3G449T

Frame : 449T 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. weight³ : 3104 lb

Protection degree : IP55 | Moment of inertia (J) : 89.6 sq.ft.lb

Design		: A						
Output [HP]		300	250	250	250			
Poles		4	4	4	4			
Frequency [Hz]		60	50	50	50			
Rated voltage [V]		460	380	400	415			
Rated current [A]		334	337	324	315			
L. R. Amperes [A]		2672	2460	2592	2741			
LRC [A]		8.0x(Code H)	7.3x(Code H)	8.0x(Code J)	8.7x(Code J)			
No load current [A	]	115	114	121	136			
Rated speed [RPN	<b>/</b> []	1785	1485	1485	1490			
Slip [%]		0.83	1.00	1.00	0.67			
Rated torque [ft.lb]		883	884	884	881			
Locked rotor torqu		280	260	290	320			
Breakdown torque	[%]	290	280	300	340			
Service factor		1.15	1.00	1.00 1.00				
Temperature rise		80 K	80 K	80 K	80 K			
Locked rotor time		25s (cold) 14s (hot)						
Noise level <sup>2</sup>		80.0 dB(A)	80.0 dB(A)	80.0 dB(A)	80.0 dB(A)			
	25%	94.9	95.3	95.3	95.3			
Efficiency (%)	50%	95.4	95.4	95.4	95.4			
Efficiency (70)	75%	95.8	95.8	95.8	96.2			
	100%	96.2	95.8	95.8	96.2			
	25%	0.49	0.49	0.46	0.42			
Power Factor	50%	0.74	0.75	0.72	0.69			
1 OWEL FACIOI	75%	0.83	0.83	0.82	0.79			
	100%	0.86	0.87	0.86	0.85			

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

Bearing type : 6322 C3 6319 C3 Max. traction : 6434 lb Sealing : Viton Viton Seal Max. compression : 9538 lb

Oil Seal

Lubrication interval : 5138 h 7038 h

Lubricant amount : 60 g 45 g
Lubricant type : Mobil Polyrex EM

Notes

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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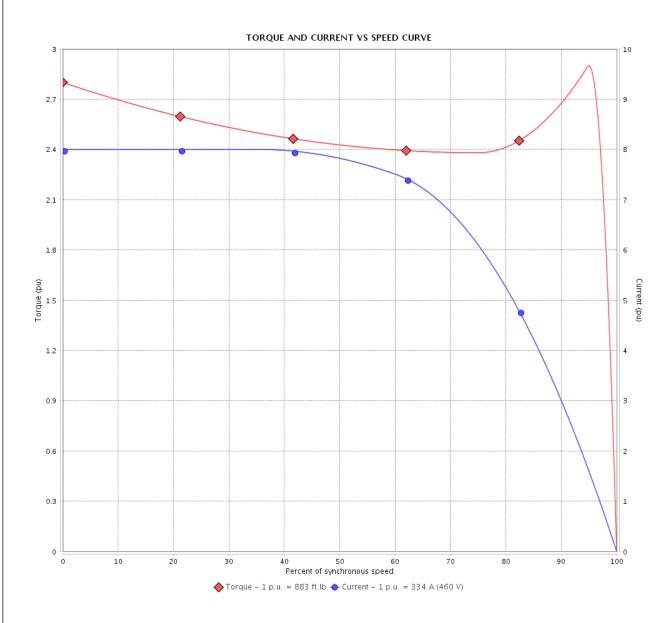
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12408383

Catalog #: 30018XT3G449T



Performance	: 460 V 60 Hz 4P			
Rated current	: 334 A	Moment of inertia (J)	: 89.6 sq.ft.lb	
LRC	: 8.0	Duty cycle	: Cont.(S1)	
Rated torque	: 883 ft.lb	Insulation class	:F	
Locked rotor torque	: 280 %	Service factor	: 1.15	
Breakdown torque	: 290 %	Temperature rise	: 80 K	
Rated speed	: 1785 rpm	Design	: A	
Locked rotor time	: 25s (cold) 14s (hot)			

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#### Three Phase Induction Motor - Squirrel Cage



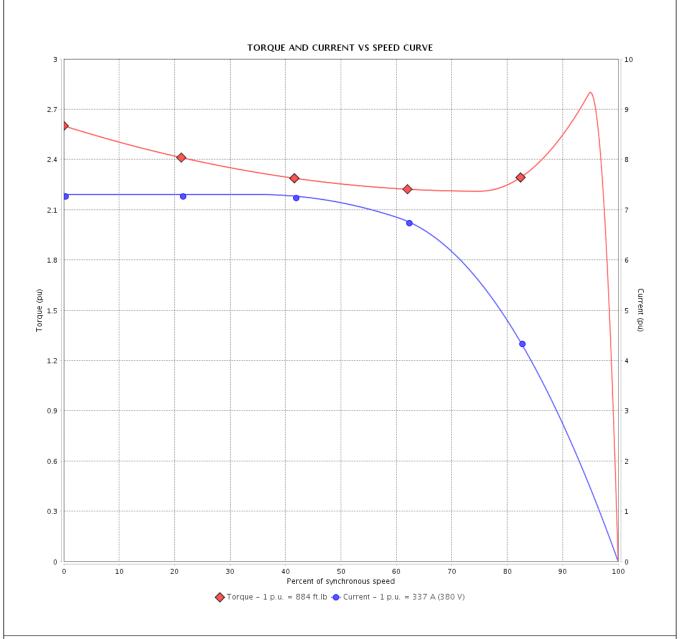
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12408383

Catalog #: 30018XT3G449T



Performance : 380 V 50 Hz 4P IE2 Rated current : 337 A Moment of inertia (J) : 89.6 sq.ft.lb **LRC** : 7.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 884 ft.lb : F Locked rotor torque : 260 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1485 rpm Design : A

Locked rotor time : 25s (cold) 14s (hot)

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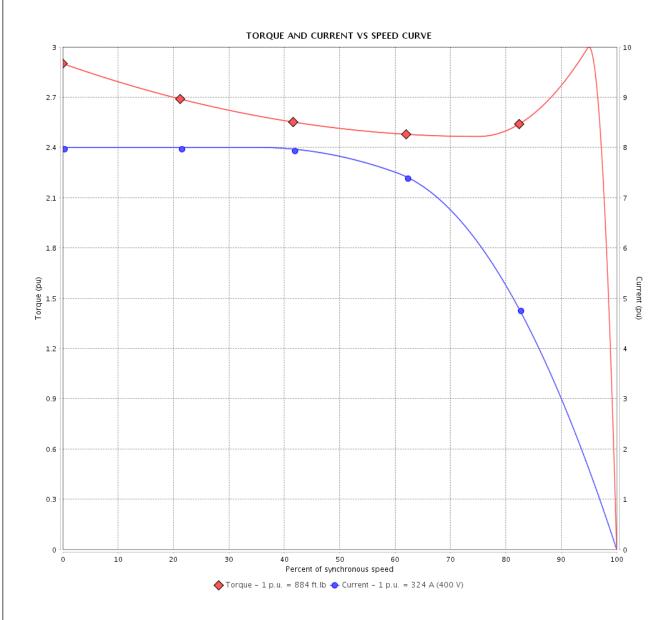


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12408383

Phase

Catalog #: 30018XT3G449T



Performance : 400 V 50 Hz 4P IE2 Rated current : 324 A Moment of inertia (J) : 89.6 sq.ft.lb **LRC** : 8.0 Duty cycle : Cont.(S1) : 884 ft.lb Insulation class Rated torque : F : 290 % : 1.00 Locked rotor torque Service factor : 80 K Breakdown torque : 300 % Temperature rise Rated speed : 1485 rpm Design : A

Locked rotor time : 25s (cold) 14s (hot)

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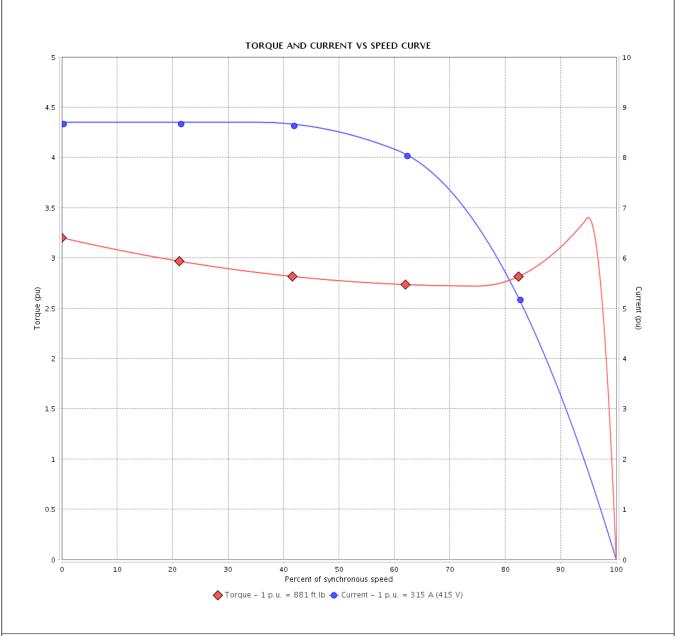
Customer :

Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 12408383

Catalog #: 30018XT3G449T



Performance : 415 V 50 Hz 4P IE3 Rated current : 315 A Moment of inertia (J) : 89.6 sq.ft.lb **LRC** : 8.7 Duty cycle : Cont.(S1) Insulation class Rated torque : 881 ft.lb : F Locked rotor torque : 320 % Service factor : 1.00 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 1490 rpm Design : A

Locked rotor time : 25s (cold) 14s (hot)

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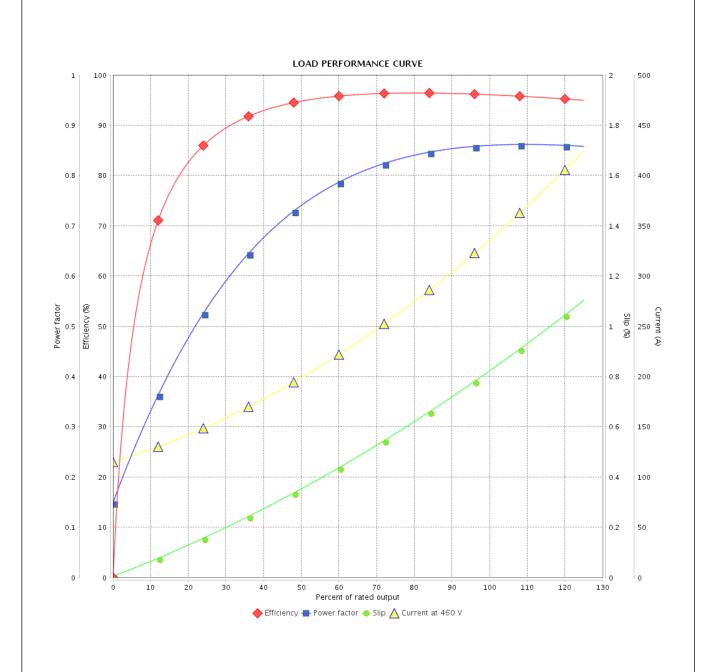
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12408383

Catalog #: 30018XT3G449T



	<u> </u>					
Performance	: 4	60 V 60 Hz 4P				
Rated current	: 3	34 A	Moment o	f inertia (J)	: 89.6 sq.ft.lb	
LRC	: 8	.0	Duty cycle	)	: Cont.(S1)	
Rated torque	: 8	83 ft.lb	Insulation	class	: F	
Locked rotor torque		80 %	Service fa	ctor	: 1.15	
Breakdown torqu	ıe : 2	90 %	Temperati	Temperature rise		
Rated speed	: 1	785 rpm	Design		: A	
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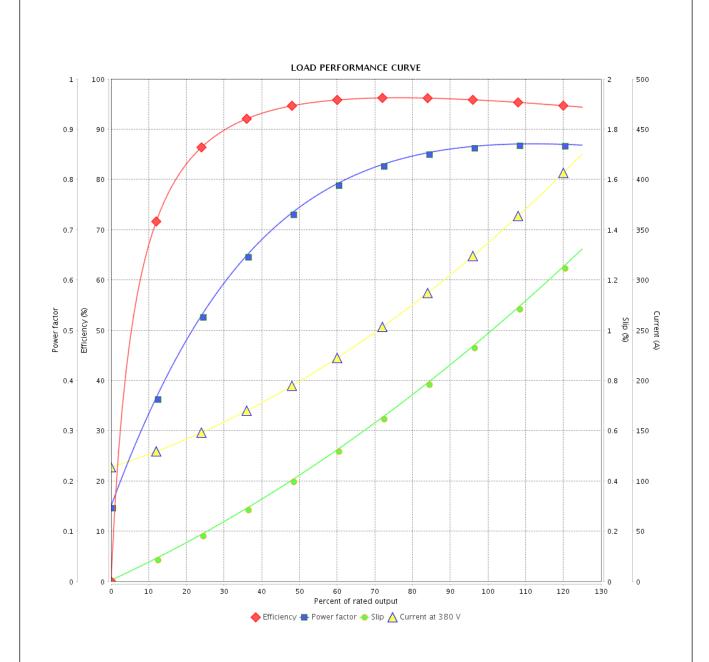
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 30018XT3G449T

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Performance	:	380 V 50 Hz 4P IE2				
Rated current	:	: 337 A	Moment of	of inertia (J)	: 89.6 sq.ft.lb	
LRC	:	7.3	Duty cycle	e	: Cont.(S1)	
Rated torque	:	884 ft.lb	Insulation		: F ` ´	
Locked rotor torque		260 %	Service fa	actor	: 1.00	
Breakdown torque		280 %	Temperat	Temperature rise		
Rated speed	:	1485 rpm	Design		: A	
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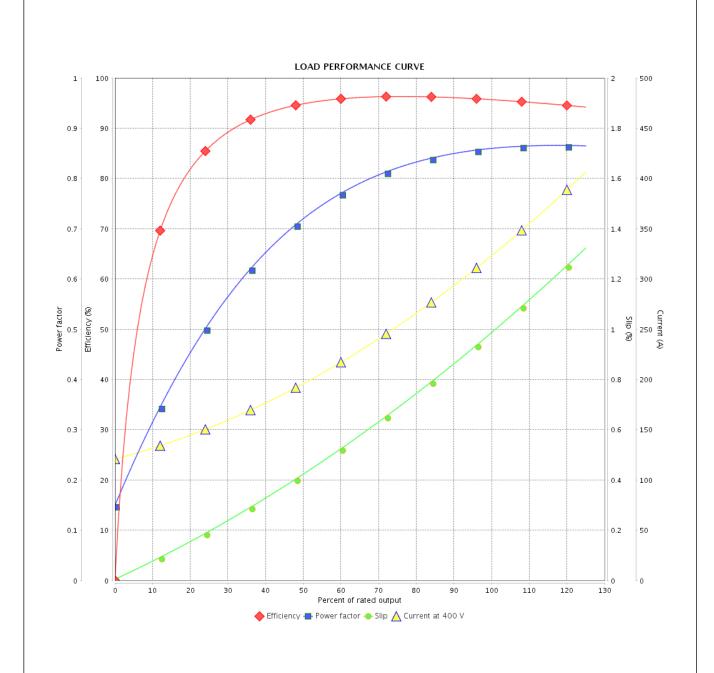
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 30018XT3G449T

12408383



Performance	: 4	400 V 50 Hz 4P IE2				
Rated current	::	24 A Moment of i		nent of inertia (J) : 89.6		
LRC	: 8	8.0	Duty cycle		: Cont.(S1)	
Rated torque	: 8	884 ft.lb	Insulation class		: F	
Locked rotor torqu	ie ::	290 %	Service factor		: 1.00	
Breakdown torque	e ::	300 %	Temperature rise		: 80 K	
Rated speed	:	1485 rpm	Design		: A	
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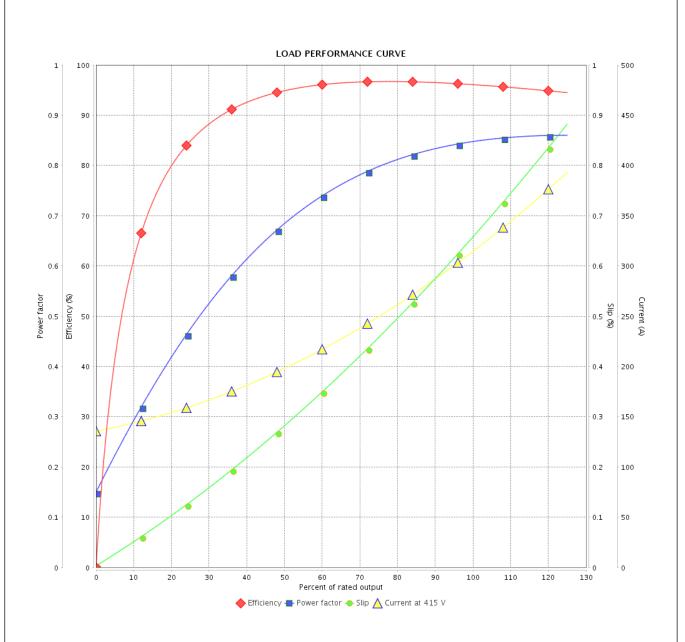
Customer :

Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

Product code: 12408383

Catalog #: 30018XT3G449T



Performance	: 415 V 50 Hz 4P IE3			
LRC : 8.7 Duty cycle Rated torque : 881 ft.lb Insulation class Locked rotor torque : 320 % Service factor		Insulation class Service factor Temperature rise	: 89.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : A	
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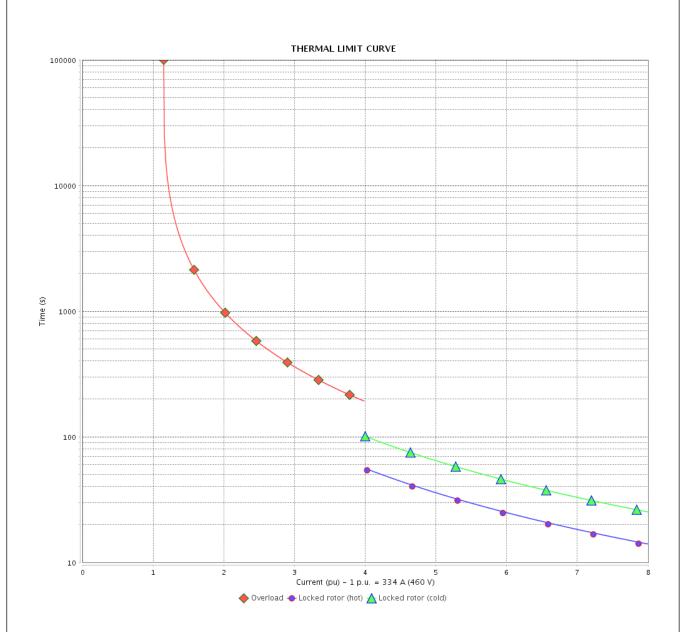


Customer	:					
Product line		NEMA Premium Efficiency <sup>*</sup> hase		Product code : Catalog # :	12408383 30018XT3G4	149T
Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: 33 : 8. : 88 : 89 : 29 : 29	60 V 60 Hz 4P 34 A .0 83 ft.lb 80 % 90 % 785 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 89.6 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : A	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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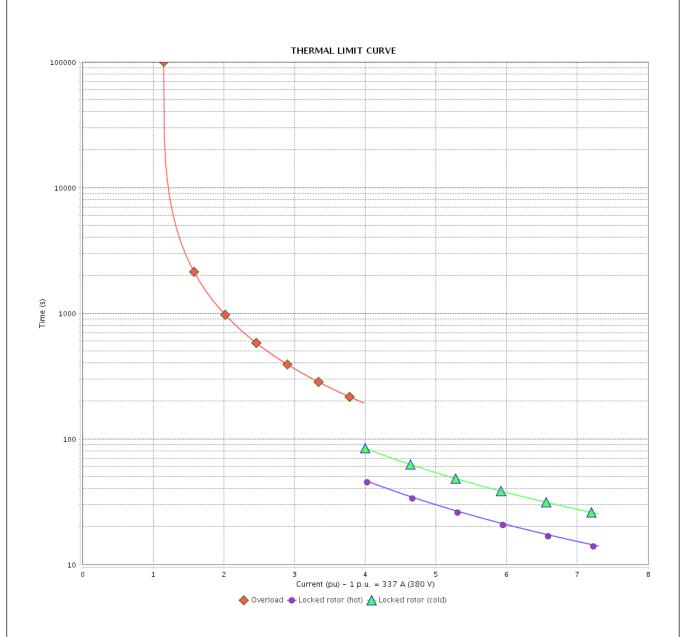


Customer	:					
Product line	: P	NEMA Premium Efficiency T Phase		Product code : Catalog # :	12408383 30018XT3G4	J49T
Performance		80 V 50 Hz 4P IE2		<b></b>		
Rated current LRC	: 3 : 7	37 A	Moment o	f inertia (J)	: 89.6 sq.ft.lb : Cont.(S1)	
Rated torque	: 8	84 ft.lb	Insulation	class	: F	
Locked rotor tord		60 % 80 %	Service fa Temperati		: 1.00 : 80 K	
Breakdown torqu Rated speed		485 rpm	Design	are rise	. 60 K : A	
		•				
Heating constant Cooling constant						
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### Three Phase Induction Motor - Squirrel Cage

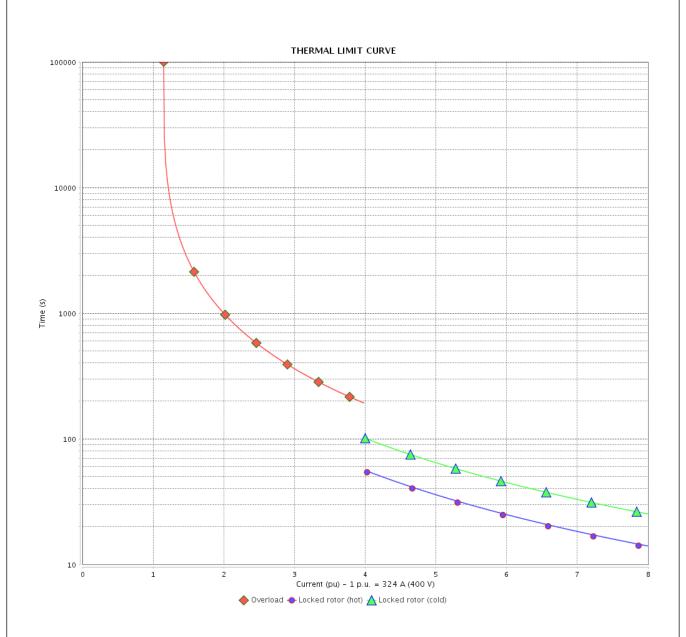


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Product line		NEMA Premium Efficiency <sup>-</sup> hase	Three-	Product code :	12408383	
				Catalog # :	30018XT3G4	149T
		20.1/50.11.40.150				
		00 V 50 Hz 4P IE2	Moment	of inactin ( I )	: 90 6 og ft lb	
Rated current	: 3 : 8	24 A .0	Duty cycle	of inertia (J)	: 89.6 sq.ft.lb : Cont.(S1)	
Performance Rated current LRC Rated torque	: 3 : 8 : 8	24 A .0 84 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Rated current LRC Rated torque Locked rotor tor	: 3 : 8 : 8 que : 2	24 A .0	Duty cycle	e class actor	: Cont.(S1)	
Rated current _RC	: 3 : 8 : 8 que : 2 ue : 3	24 A .0 84 ft.lb 90 %	Duty cycle Insulation Service fa	e class actor	: Cont.(S1) : F : 1.00	
Rated current LRC Rated torque Locked rotor tor Breakdown torq	: 3 : 8 : 8 que : 2 ue : 3 : 1	24 A .0 84 ft.lb 90 % 00 %	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 constan	: 3 : 8 : 8 que : 2 ue : 3 : 1	24 A .0 84 ft.lb 90 % 00 % 485 rpm	Duty cycle Insulation Service fa Temperate	e class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : A	
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed	: 3 : 8 : 8 que : 2 ue : 3 : 1	24 A .0 84 ft.lb 90 % 00 %	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 constan Cooling constan Rev.	: 3 : 8 : 8 que : 2 ue : 3 : 1	24 A .0 84 ft.lb 90 % 00 % 485 rpm	Duty cycle Insulation Service fa Temperate	e class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : A	Date
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar Cooling constan	: 3 : 8 : 8 que : 2 ue : 3 : 1	24 A .0 84 ft.lb 90 % 00 % 485 rpm	Duty cycle Insulation Service fa Temperate	e class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : A	Date

### Three Phase Induction Motor - Squirrel Cage



Customer :



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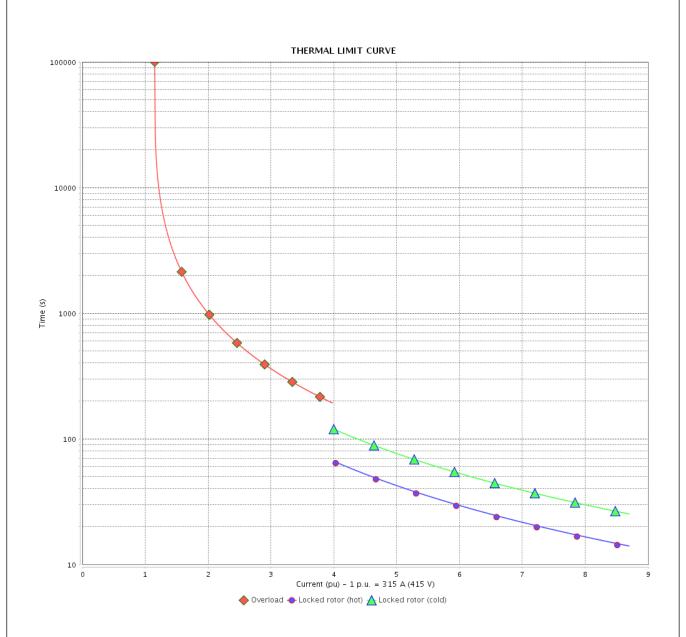


Customer	:					
Product line	: P	NEMA Premium Efficiency	Three-	Product code :	12408383	
				Catalog # :	30018XT3G4	49T
	: 4	15 V 50 Hz 4P IE3				
Performance				* · · · · · · · · · · · · · · · · · · ·		
Rated current		15 A	Moment o	of inertia (J)	: 89.6 sq.ft.lb	
Rated current .RC	: 3 : 8	.7	Duty cycle	Э	: 89.6 sq.ft.lb : Cont.(S1)	
Performance Rated current LRC Rated torque Locked rotor tor	: 3 : 8 : 8	.7 81 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Rated current LRC Rated torque Locked rotor tor Breakdown torq	: 3 : 8 : 8 que : 3 ue : 3	.7 81 ft.lb 20 % 40 %	Duty cycle Insulation Service fa Temperat	e class actor	: Cont.(S1) : F : 1.00 : 80 K	
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed	: 3 : 8 : 8 que : 3 ue : 3	.7 81 ft.lb 20 %	Duty cycle Insulation Service fa	e class actor	: Cont.(S1) : F : 1.00	
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed	: 3 : 8 : 8 que : 3 ue : 3 : 1	.7 81 ft.lb 20 % 40 %	Duty cycle Insulation Service fa Temperat	e class actor	: Cont.(S1) : F : 1.00 : 80 K	
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constan Cooling constan	: 3 : 8 : 8 que : 3 ue : 3 : 1	.7 81 ft.lb 20 % 40 % 490 rpm	Duty cycle Insulation Service fa Temperat	e class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : A	Data
Rated current RC	: 3 : 8 : 8 que : 3 ue : 3 : 1	.7 81 ft.lb 20 % 40 %	Duty cycle Insulation Service fa Temperat	e class actor	: Cont.(S1) : F : 1.00 : 80 K	Date
Rated current RC Rated torque ocked rotor tor Breakdown torq Rated speed Heating constan Cooling constan Rev.	: 3 : 8 : 8 que : 3 ue : 3 : 1	.7 81 ft.lb 20 % 40 % 490 rpm	Duty cycle Insulation Service fa Temperat	e class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : A	Date
Rated current .RC Rated torque .ocked rotor tor Breakdown torq Rated speed Heating constan	: 3 : 8 : 8 que : 3 ue : 3 : 1	.7 81 ft.lb 20 % 40 % 490 rpm	Duty cycle Insulation Service fa Temperat	e class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : A	Date Revision

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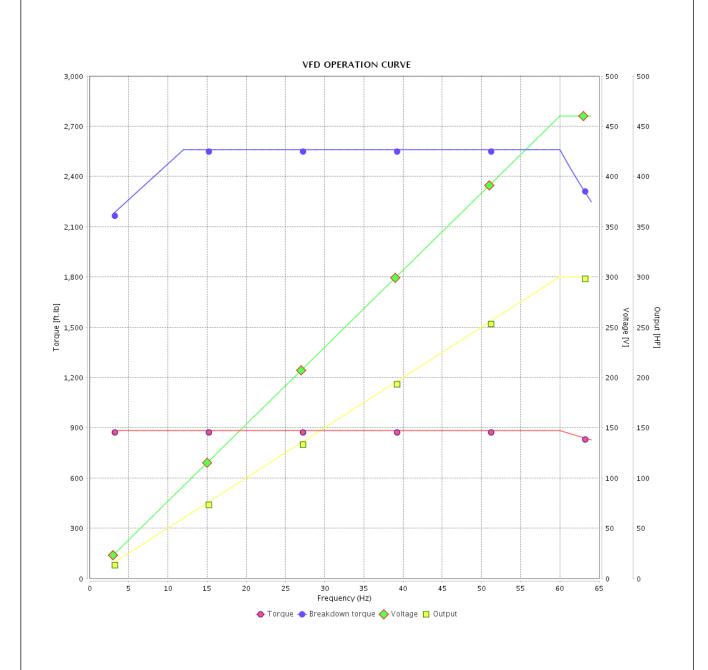


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12408383

Phase

Catalog #: 30018XT3G449T



Performance	: 4	60 V 60 Hz 4P				
Rated current : 334 A Moment of inertia (J LRC : 8.0 Duty cycle		` '	: 89.6 sq.ft.lb : Cont.(S1)			
Rated torque	: 8	883 ft.lb	Insulation class		ulation class : F	
Locked rotor tord	•	280 %		Service factor Temperature rise		
Rated speed	Breakdown torque : 290 % Rated speed : 1785 rpm		Design	ure rise	: 80 K : A	
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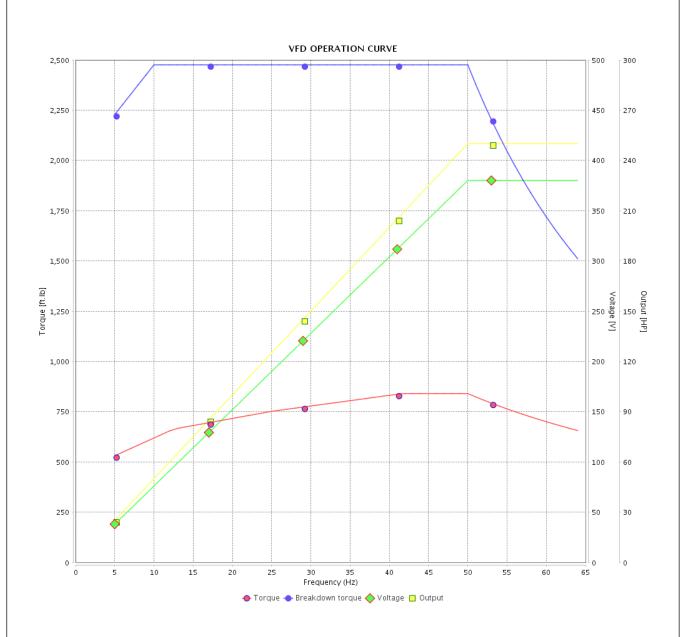
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 12408383

Catalog #: 30018XT3G449T



Performance	: 380 V 50 Hz 4P IE2				
Rated current	: 337 A	Moment of inertia (J)		: 89.6 sq.ft.lb	
LRC	: 7.3	Duty cycle		: Cont.(S1)	
Rated torque	: 884 ft.lb	Insulation	class	: F	
Locked rotor torque	: 260 %	Service factor Temperature rise		: 1.00 : 80 K : A	
Breakdown torque	: 280 %				
Rated speed	: 1485 rpm Design				
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### Three Phase Induction Motor - Squirrel Cage



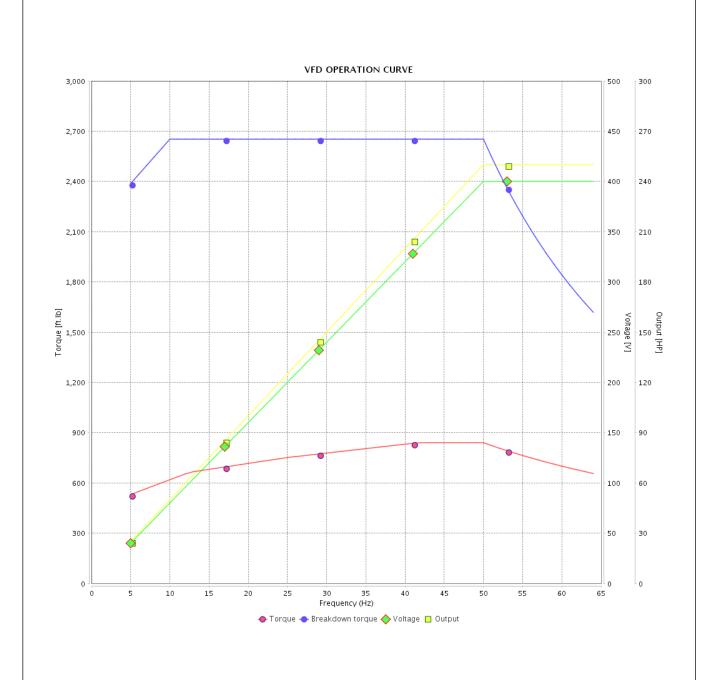
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 30018XT3G449T

12408383



Performance : 400 V 50 Hz 4P IE2							
Rated current :		24 A	Moment o	Moment of inertia (J)		: 89.6 sq.ft.lb	
		8.0 Duty cycle 884 ft.lb Insulation class		: Cont.(S1) : F			
						Locked rotor torque	
Breakdown torque		00 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 14	185 rpm Design		: A			
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

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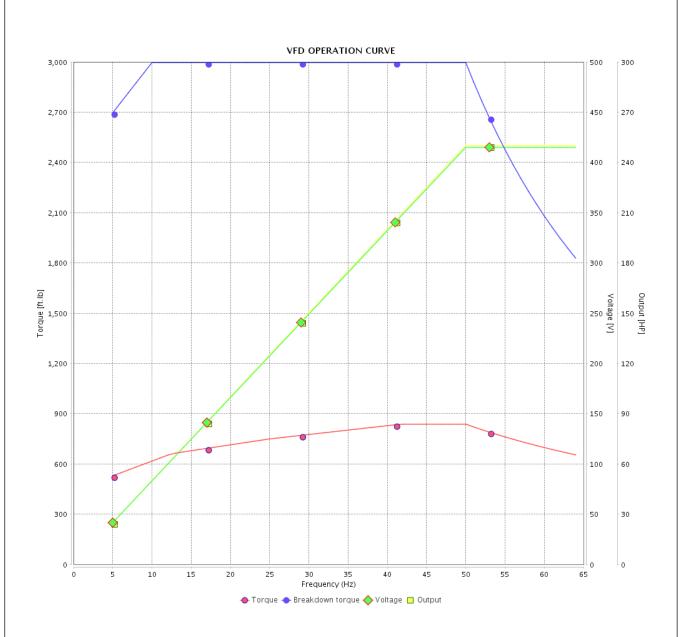
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12408383

Catalog #: 30018XT3G449T



Performance : 415 V 50 Hz 4P IE3 Rated current : 315 A Moment of inertia (J) : 89.6 sq.ft.lb **LRC** : 8.7 Duty cycle : Cont.(S1) : 881 ft.lb Insulation class : F Rated torque Locked rotor torque : 320 % Service factor : 1.00 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 1490 rpm Design : A Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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