DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11408341

Catalog #: 30009ET3G449T-W22

Frame : L447/9T Cooling method : IC411 - TEFC

Insulation class 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 : 3666 lb

Protection degree	Э	: IP55	Moment of ine	ertia (J) : 285	sq.ft.lb
Output [HP]		300	250	250	250
Poles		8	8	8	8
Frequency [Hz]		60	50	50	50
Rated voltage [V]		460	380	400	415
Rated current [A]		371	375	365	366
L. R. Amperes [A]		2337	2213	2373	2525
LRC [A]		6.3x(Code G)	5.9x(Code G)	6.5x(Code H)	6.9x(Code J)
No load current [A]		170	165	182	198
Rated speed [RPM	1]	890	740	740	740
Slip [%]		1.11	1.33	1.33	1.33
Rated torque [ft.lb]		1770	1770	1770	1770
Locked rotor torque	e [%]	220	200	229	260
Breakdown torque	Breakdown torque [%]		229	250	270
Service factor		1.00	1.00 1.00		1.00
Temperature rise		105 K	105 K	105 K	105 K
Locked rotor time		28s (cold) 16s (hot)	36s (cold) 20s (hot)	34s (cold) 19s (hot)	30s (cold) 17s (hot)
Noise level ²		64.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)
	25%	95.3	95.2	94.9	94.0
Efficiency (%)	50%	95.4	95.0	95.0	94.5
Efficiency (%)	75%	95.4	95.4	95.0	94.5
	100%	95.4	95.0	95.0	95.0
	25%	0.38	0.39	0.35	0.32
Power Factor	50%	0.62	0.63	0.59	0.55
FOWEI FACIOI	75%	0.73	0.74	0.71	0.68
	100%	0.78	0.79	0.77	0.74

Non drive end Foundation loads Drive end

Bearing type 6322 C3 6319 C3 Max. traction : 10937 lb Sealing WSeal WSeal Max. compression : 14603 lb Lubrication interval 14000 h 17000 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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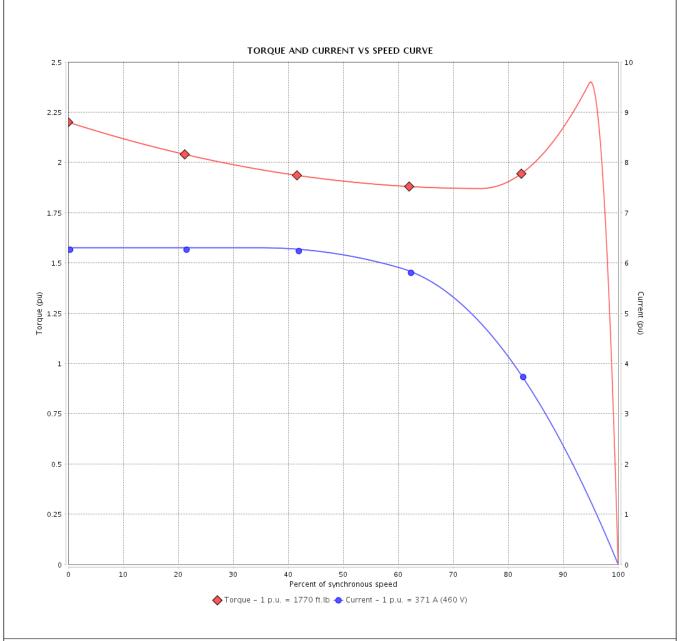
Customer :

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

Phase

Product code: 11408341

Catalog #: 30009ET3G449T-W22



Performance : 460 V 60 Hz 8P Rated current : 371 A Moment of inertia (J) : 285 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) : 1770 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 220 % : 1.00 Breakdown torque : 240 % Temperature rise : 105 K Rated speed : 890 rpm

Locked rotor time : 28s (cold) 16s (hot)

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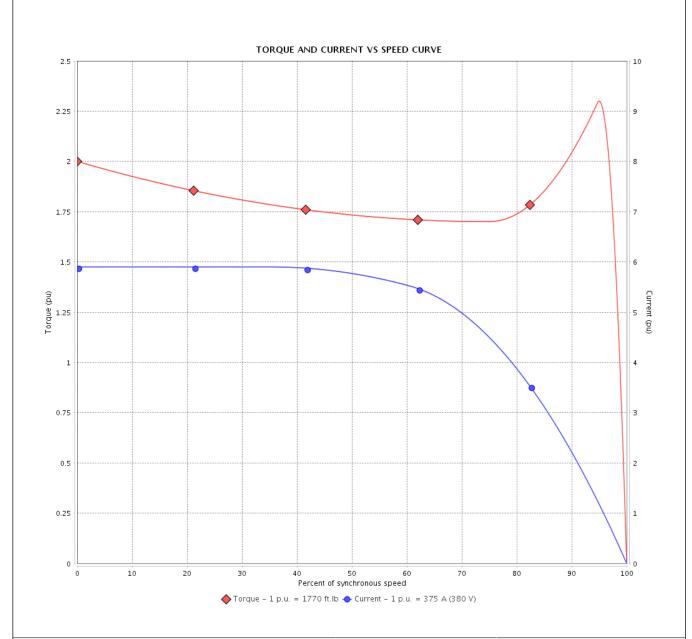


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11408341

Phase

Catalog #: 30009ET3G449T-W22



Performance : 380 V 50 Hz 8P IE3 Rated current : 375 A Moment of inertia (J) : 285 sq.ft.lb **LRC** : 5.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 1770 ft.lb : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 740 rpm

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

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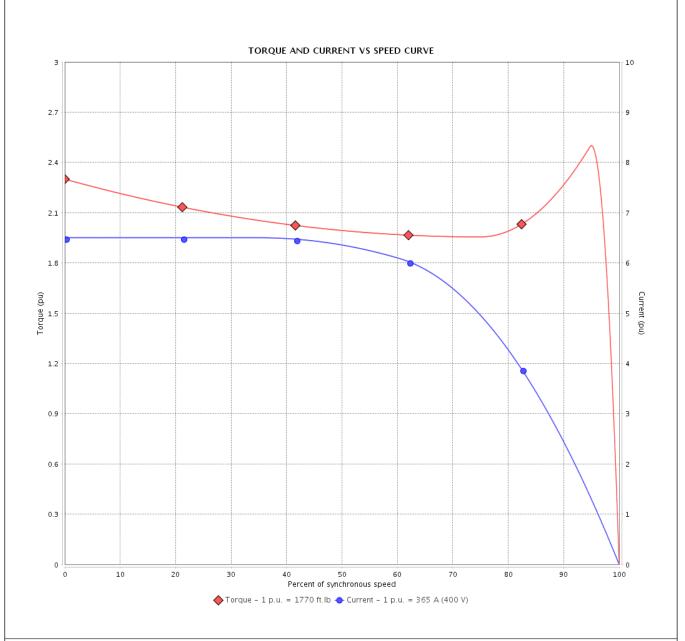
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11408341

Catalog #: 30009ET3G449T-W22



Performance : 400 V 50 Hz 8P IE3 Rated current : 365 A Moment of inertia (J) : 285 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) : 1770 ft.lb Insulation class Rated torque : F Locked rotor torque : 229 % Service factor : 1.00 : 250 % : 105 K

Breakdown torque : 250 % Temperature rise : 105 k Rated speed : 740 rpm

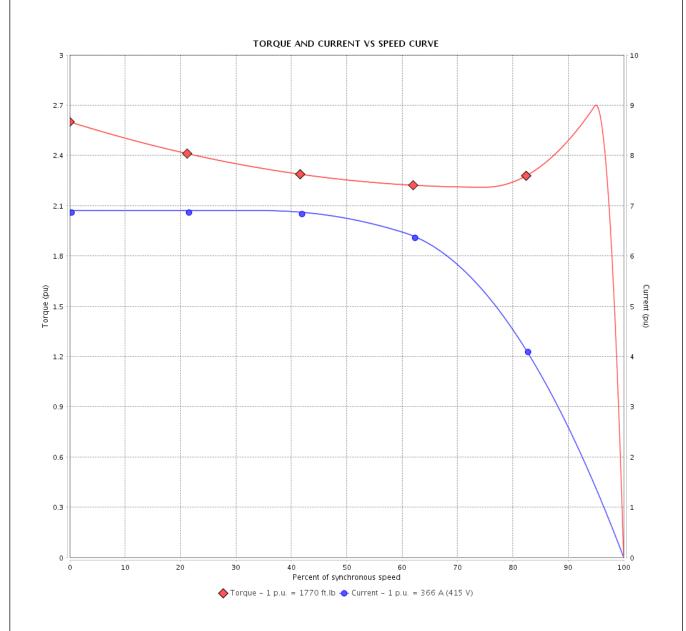
Locked rotor time : 34s (cold) 19s (hot)

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Customer Product line : NEMA Premium Efficiency Three-Product code: 11408341 Catalog #: 30009ET3G449T-W22



Performance	: 415 V 50 Hz 8P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 366 A : 6.9 : 1770 ft.lb : 260 % : 270 % : 740 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise	: 285 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K	
Locked rotor time	: 30s (cold) 17s (bot)			

Locked rotor time

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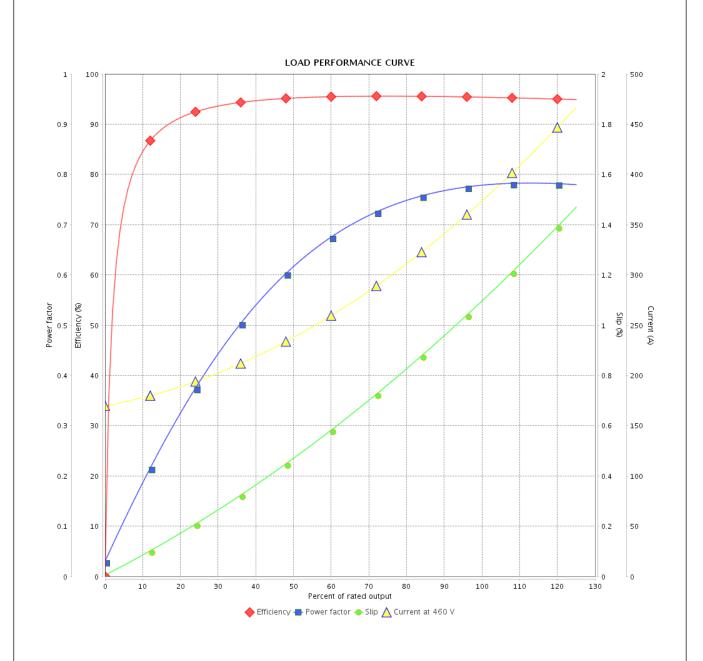
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Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11408341

Phase



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Performance		: 460 V 60 Hz 8P						
Rated current		: 371 A	Moment of inertia (J)		: 285 sq.ft.lb			
LRC		: 6.3	Duty cycle		Duty cycle		: Cont.(S1)	
Rated torque		: 1770 ft.lb	Insulation	Insulation class : F				
Locked rotor tord	que	: 220 %	Service fa	ctor	: 1.00			
Breakdown torqu	ıe	: 240 %	Temperature rise : 105 K					
Rated speed		: 890 rpm						
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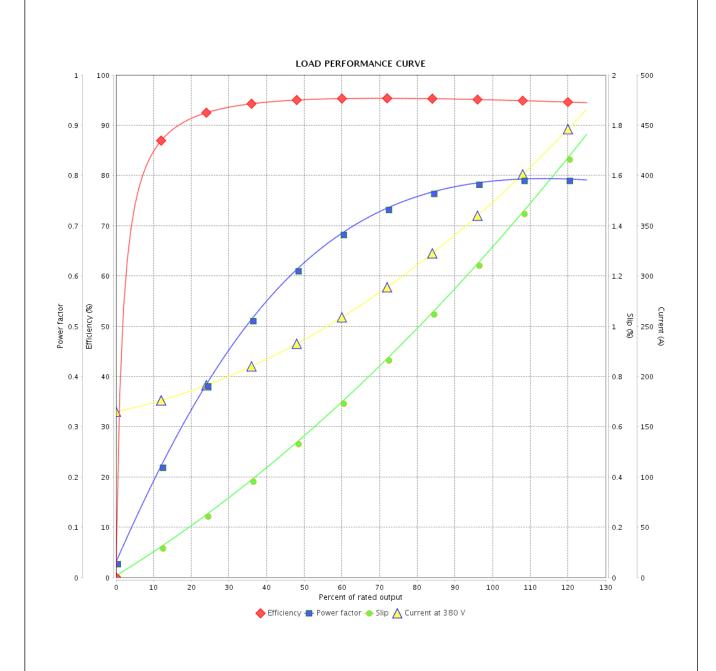
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Customer

Product line : NEMA Premium Efficiency Three- Product code : 11408341

Phase



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Rated speed	: 740 rpm			
Breakdown torque	: 229 %	Temperature rise	: 105 K	
Locked rotor torque	: 200 %	Service factor	: 1.00	
Rated torque	: 1770 ft.lb	Insulation class	: F	
LRC	: 5.9	Duty cycle	: Cont.(S1)	
Rated current	: 375 A	Moment of inertia (J)	: 285 sq.ft.lb	
Performance	: 380 V 50 Hz 8P IE3			

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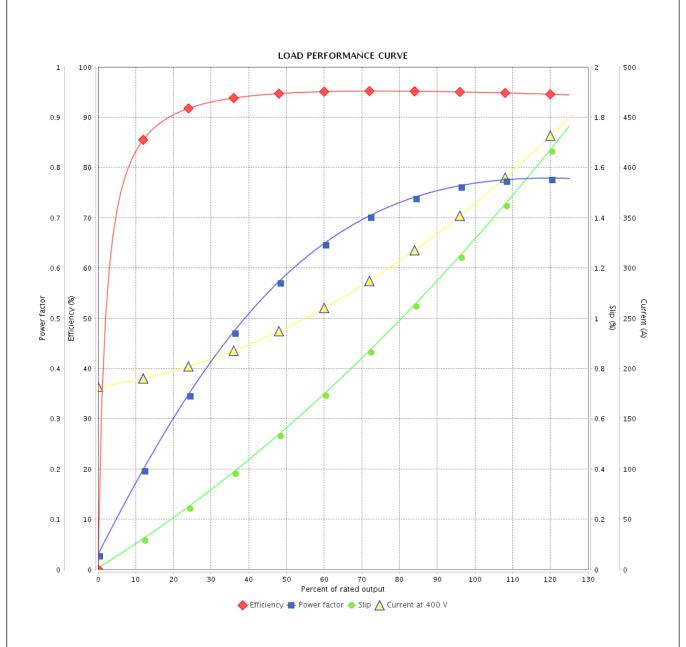
Rated speed

Product line : NEMA Premium Efficiency Three- Pr

Phase

Product code: 11408341

Catalog #: 30009ET3G449T-W22



Performance : 400 V 50 Hz 8P IE3 : 365 A Rated current Moment of inertia (J) : 285 sq.ft.lb **LRC** Duty cycle : 6.5 : Cont.(S1) : 1770 ft.lb Insulation class Rated torque : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 105 K

: 740 rpm

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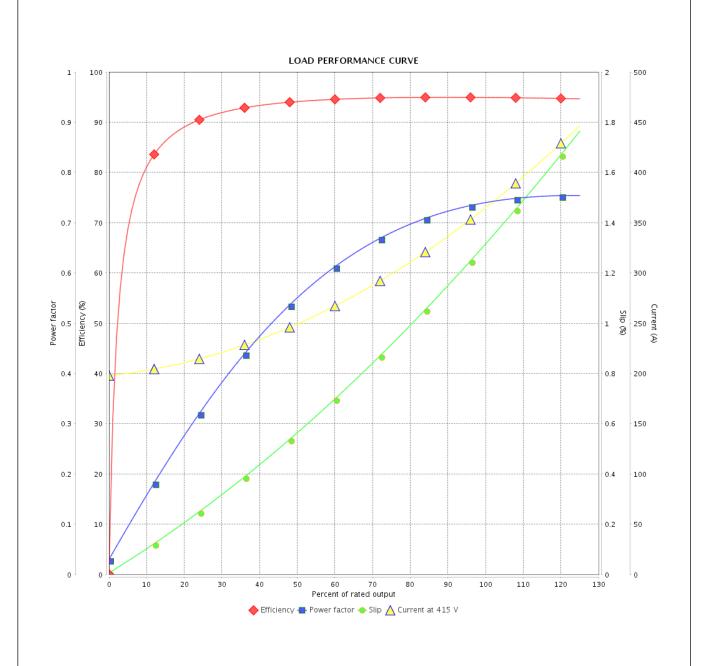
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 11408341

Phase



Performance	: 415 V 5	50 Hz 8P IE3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed		Duty cycl Insulation Service f. Tempera	n class actor	: 285 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K	
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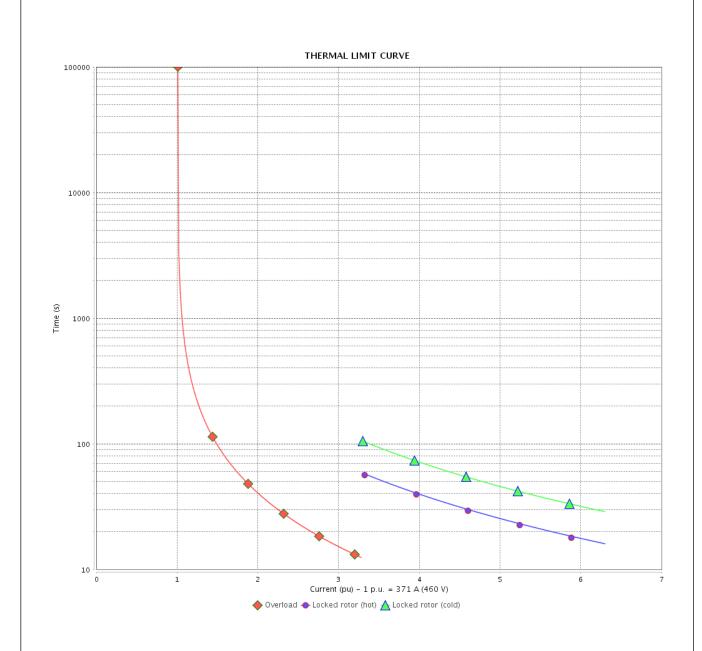


Customer	:					
Product line		NEMA Premium Efficiency	/ Three-	Product code :	11408341	
	P	hase		Catalog # :	30009ET3G4	49T-W22
Performance		60 V 60 Hz 8P				
Rated current LRC	: 37 : 6.	71 A 3	Moment of Duty cycle	of inertia (J)	: 285 sq.ft.lb : Cont.(S1)	
Rated torque	: 17	770 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		20 % 40 %	Service fa Temperati		: 1.00 : 105 K	
Rated speed		90 rpm	, , , , ,			
Heating constant						
Cooling constant		Change O		Dout	Ohl !	Data
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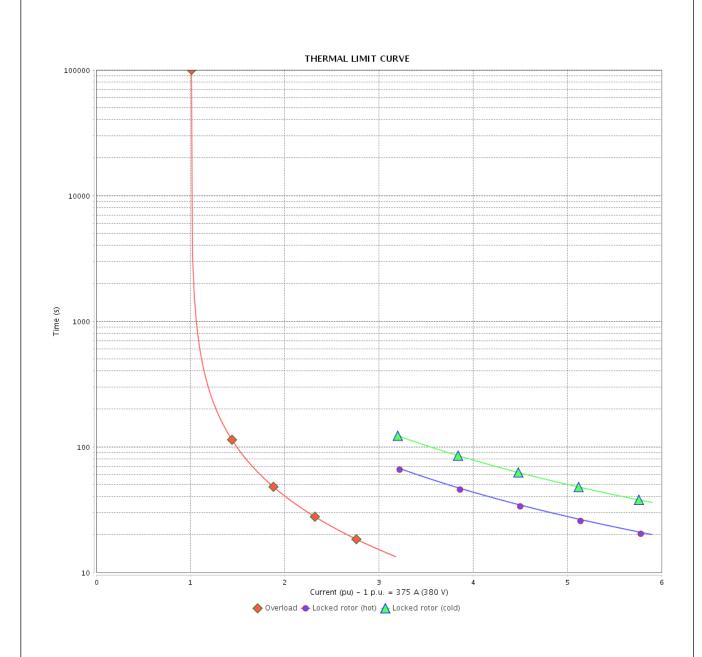


Customer	:				
Product line	: NEMA Premium Efficiency Phase	Three-	Product code :	11408341	
	Pilase		Catalog # :	30009ET3G4	49T-W22
	: 380 V 50 Hz 8P IE3 : 375 A	Moment of	f inertia (J)	: 285 sq.ft.lb	
LRC	: 5.9	Duty cycle	!	: Cont.(S1)	
	: 1770 ft.lb : 200 %	Insulation Service fa		: F : 1.00	
Breakdown torque	: 229 %	Temperatu		: 105 K	
	: 740 rpm				
Heating constant					
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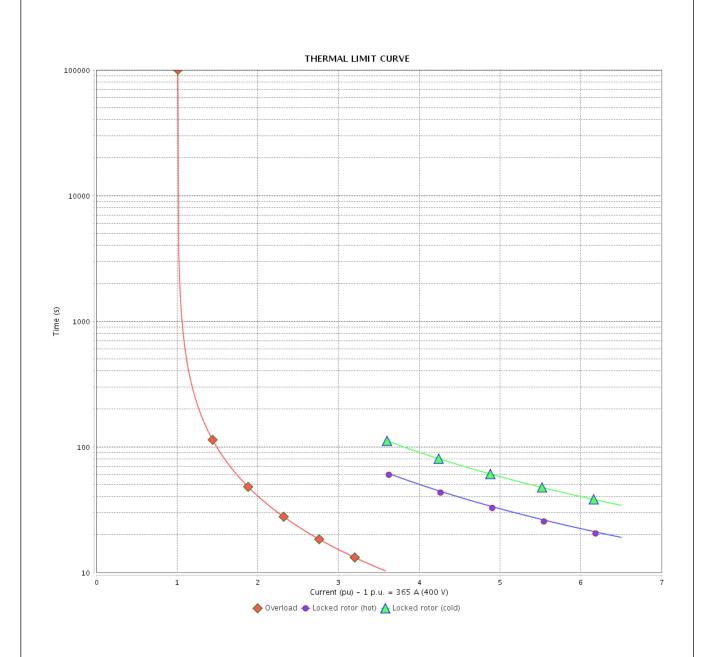


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code :	11408341 30009ET3G4	49T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 36 : 6. : 17 : 22 : 28	00 V 50 Hz 8P IE3 65 A 5 770 ft.lb 29 % 60 % 40 rpm	Moment o Duty cycle Insulation Service fa Temperatu	class ctor	: 285 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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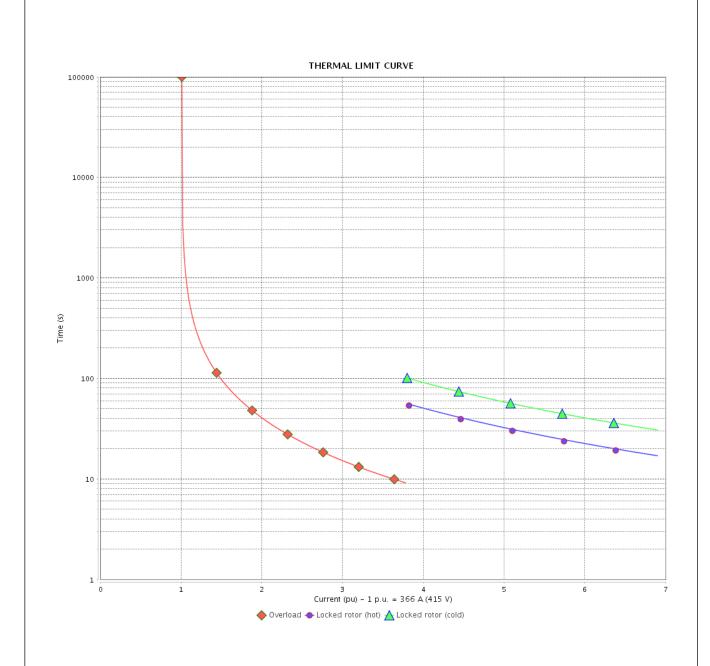


Customer	:					
Product line		NEMA Premium Efficiency ⁻ nase		Product code :	11408341	
				Catalog # :	30009ET3G4	49T-W22
Performance	: 41	15 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6. : 17 : 26 : 27	66 A 9 770 ft.lb 60 % 70 % 40 rpm	Moment o Duty cycle Insulation Service fa Temperatu	class ctor	: 285 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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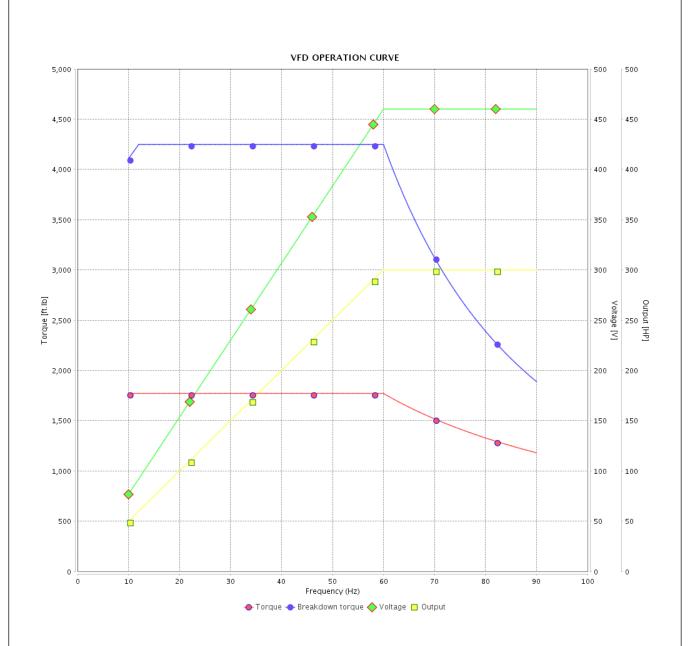
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11408341

Catalog #: 30009ET3G449T-W22



 Performance
 : 460 V 60 Hz 8P

 Rated current
 : 371 A
 Moment of inertia (J)
 : 285 sq.ft.lb

 LRC
 : 6.3
 Duty cycle
 : Cont.(S1)

 Rated torque
 : 1770 ft.lb
 Insulation class
 : F

Rated torque : 1770 ft.lb Insulation class : F
Locked rotor torque : 220 % Service factor : 1.00
Breakdown torque : 240 % Temperature rise : 105 K
Rated speed : 890 rpm

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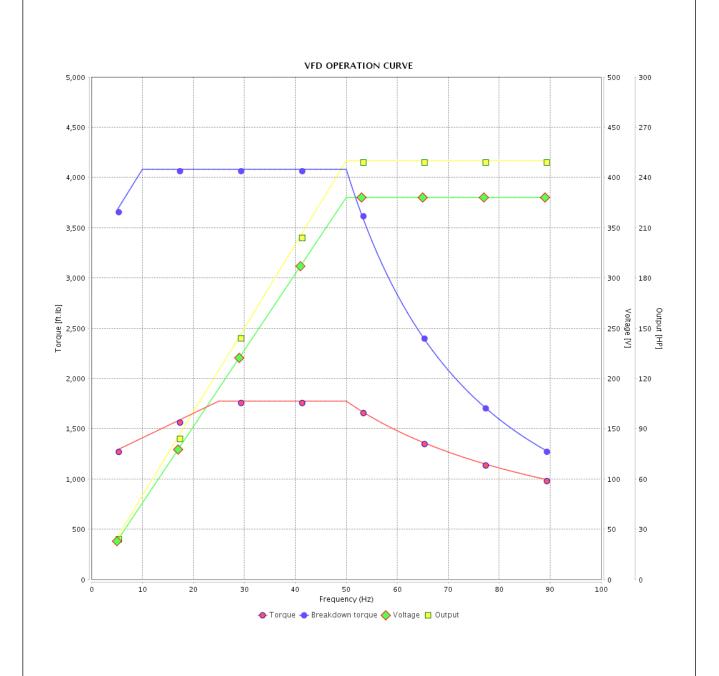
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Product line : NEMA Premium Efficiency Three- Product code : 11408341

Phase



Performance	: 380 V 50 Hz 8P IE3				
Rated current : 375 A LRC : 5.9 Rated torque : 1770 ft.lb Locked rotor torque : 200 % Breakdown torque : 229 % Rated speed : 740 rpm		Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		
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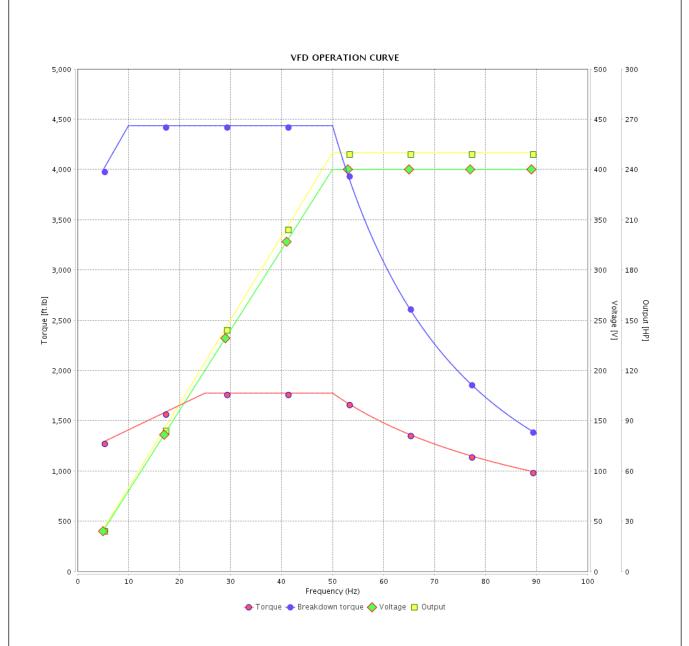
Customer :

Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 11408341

Catalog #: 30009ET3G449T-W22



Performance : 400 V 50 Hz 8P IE3

Rated current : 365 A Moment of inertia (J) : 285 sq.ft.lb LRC : 6.5 Duty cycle : Cont.(S1)

Rated torque : 1770 ft.lb Insulation class : F
Locked rotor torque : 229 % Service factor : 1.00
Breakdown torque : 250 % Temperature rise : 105 K

Rated speed : 740 rpm

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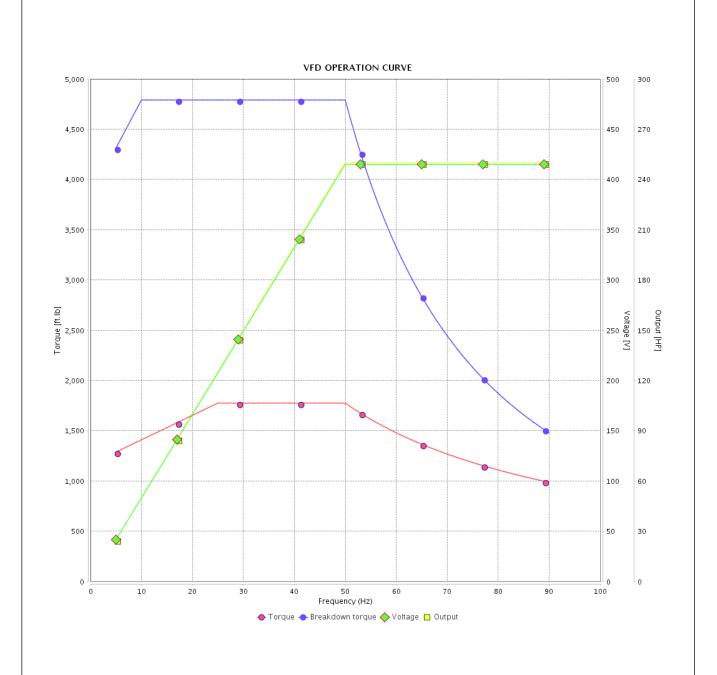
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 11408341

Phase



Performance	: 415 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 285 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K	
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