DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11408339

Catalog #: 25009ET3G449T-W22

Frame : L447/9T 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 Altitude : 1000 m.a.s.l. Approx. weight³ : 3429 lb

: IP55 Moment of inertia (J) Protection degree : 255 sq.ft.lb

Protection degree		Moment of the	ertia (J) : 255	sq.π.ib
Design				
Output [HP]		200	200	200
	8	8	8	8
	60	50	50	50
	460	380	400	415
	308	300	292	289
	1848	1740	1869	1965
	6.0x(Code G)	5.8x(Code G)	6.4x(Code H)	6.8x(Code H)
	130	130	140	150
]	890	740	740	740
Slip [%]		1.33	1.33	1.33
Rated torque [ft.lb]		1420	1420	1420
Locked rotor torque [%]		190	210	229
Breakdown torque [%]		229	250	270
		1.00	1.00	1.00
	80 K	105 K		105 K
	43s (cold) 24s (hot)	45s (cold) 25s (hot)	39s (cold) 22s (hot)	37s (cold) 21s (hot)
	64.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)
25%	95.3	94.9	94.9	94.4
	95.4	95.0	95.0	94.5
75%	95.4	95.0	95.0	95.0
100%	95.4	95.0	95.0	95.0
25%	0.40	0.40	0.36	0.33
50%	0.65	0.65	0.60	0.57
75%	0.75	0.75	0.72	0.69
100%	0.79	0.80	0.78	0.76
	25% 50% 75% 100% 25% 50% 75%	: B 250 8 60 460 308 1848 6.0x(Code G) 130 890 1.11 1480 e [%] 229 1.15 80 K 43s (cold) 24s (hot) 64.0 dB(A) 25% 95.3 50% 95.4 75% 95.4 100% 95.4 25% 0.40 50% 0.65 75% 0.75	EB 250 200 8 8 8 8 60 50 460 380 308 308 300 1848 1740 6.0x(Code G) 5.8x(Code G) 130 130 130 130 131 1480 1.11 1.33 1480 1420 19[%] 229 229 1.15 1.00 80 K 105 K 43s (cold) 24s (hot) 64.0 dB(A) 25% 95.3 94.9 50% 95.4 95.0 100% 95.4 95.0 100% 95.4 95.0 100% 95.4 95.0 100% 95.4 95.0 100% 95.4 95.0 100% 95.4 95.0 100% 95.4 95.0 100% 95.4 95.0 100% 95.4 95.0 100% 95.4 95.0 100% 95.4 95.0 100% 95.4 95.0 100% 95.4 95.0 100% 95.4 95.0 100% 95.4 95.0	:B 250 200 200 8 8 8 8 60 50 50 50 460 380 400 308 300 292 1848 1740 1869 6.0x(Code G) 6.4x(Code H) 1869 6.0x(Code G) 6.4x(Code H) 140 140 140 140 140 140 140 140 140 140 140 141 140 1420 1

Drive end Non drive end Foundation loads

Bearing type 6322 C3 6319 C3 Max. traction : 8502 lb Sealing WSeal WSeal Max. compression : 11930 lb

14000 h 17000 h Lubrication interval Lubricant amount 45 g 60 g Mobil Polyrex EM

Lubricant type

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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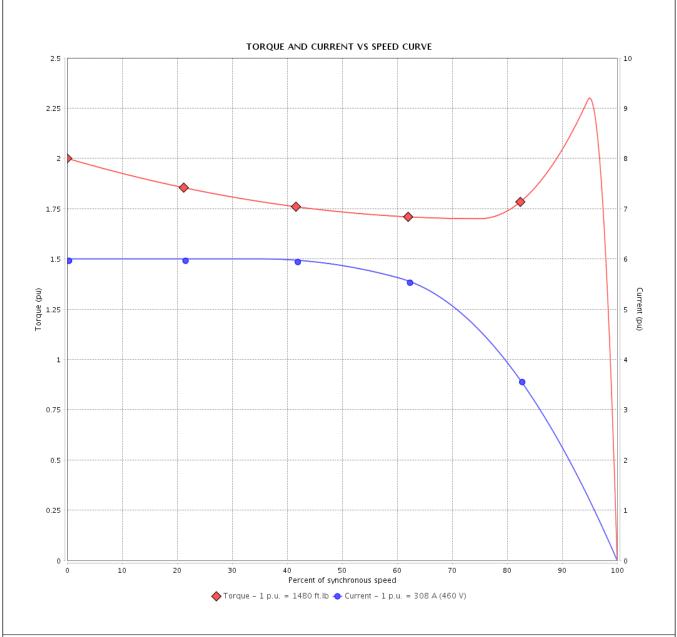
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11408339

Catalog #: 25009ET3G449T-W22



Performance : 460 V 60 Hz 8P Rated current : 308 A Moment of inertia (J) : 255 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) : F : 1480 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 200 % : 1.15 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 890 rpm Design : B

Locked rotor time : 43s (cold) 24s (hot)

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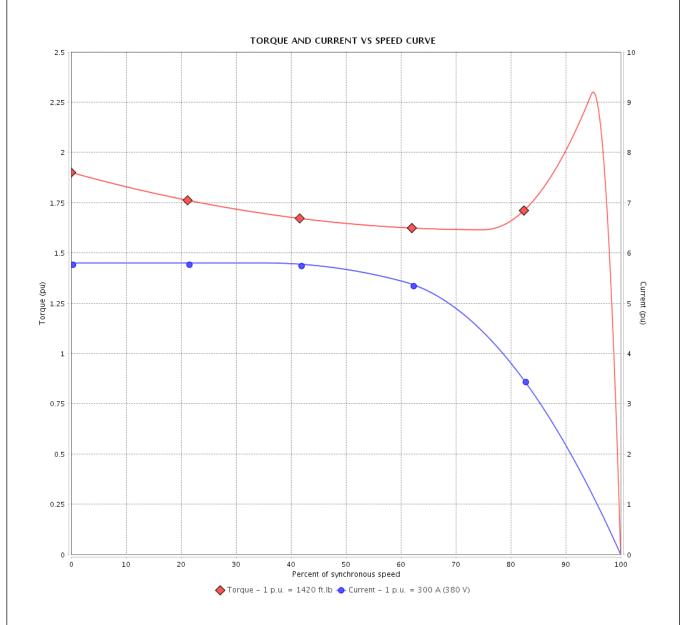


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11408339

Phase

Catalog #: 25009ET3G449T-W22



Performance	: 380 V 50 Hz 8P IE3		
Rated current	: 300 A	Moment of inertia (J)	: 255 sq.ft.lb
LRC	: 5.8	Duty cycle	: Cont.(S1)
Rated torque	: 1420 ft.lb	Insulation class	:F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 105 K
Rated speed	: 740 rpm	Design	: B

Locked rotor time : 45s (cold) 25s (hot)

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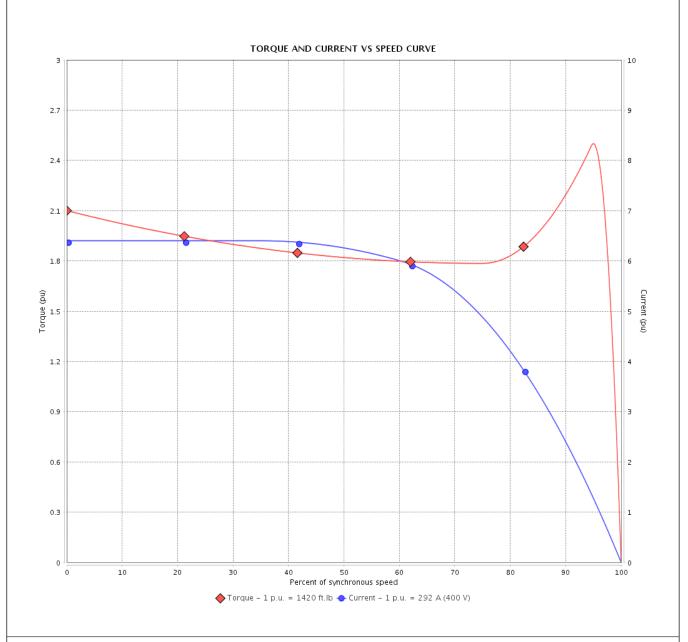
Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 11408339

Catalog #: 25009ET3G449T-W22

: B



Performance : 400 V 50 Hz 8P IE3 Rated current : 292 A Moment of inertia (J) : 255 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) Insulation class Rated torque : 1420 ft.lb : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 105 K

Rated speed : 740 rpm Design

 Locked rotor time
 : 39s (cold) 22s (hot)

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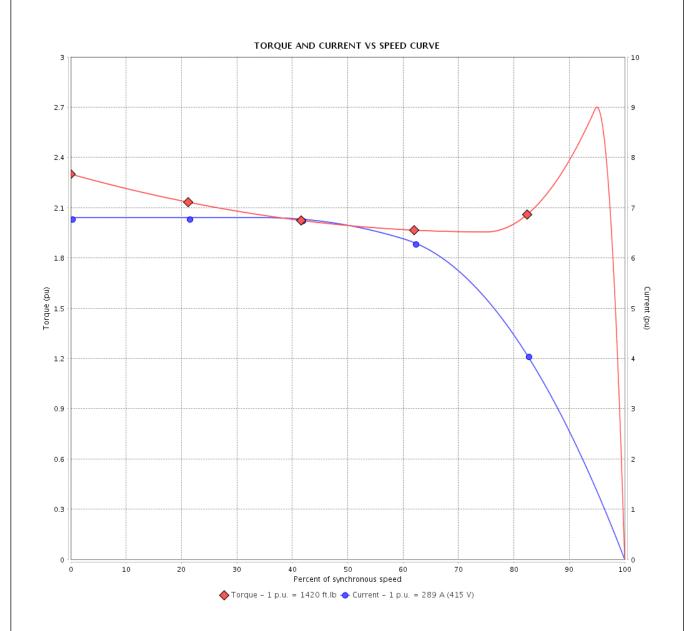
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 11408339

Catalog #: 25009ET3G449T-W22



Performance	: 415 V 50 Hz 8P IE3		
Rated current	: 289 A	Moment of inertia (J)	: 255 sq.ft.lb
LRC	: 6.8	Duty cycle	: Cont.(S1)
Rated torque	: 1420 ft.lb	Insulation class	:F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 270 %	Temperature rise	: 105 K
Rated speed	: 740 rpm	Design	: B
Locked rotor time	: 37s (cold) 21s (hot)		

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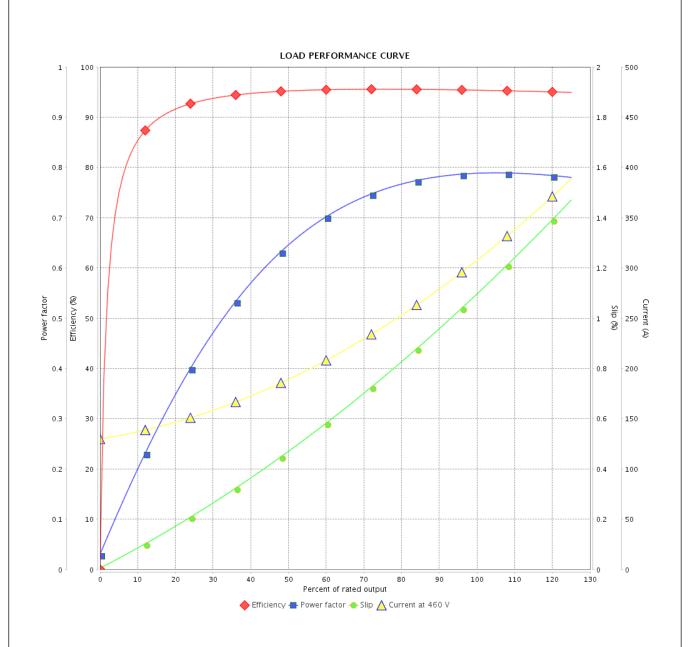
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Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

Product code: 11408339

Catalog #: 25009ET3G449T-W22



Performance : 460 V 60 Hz 8P : 308 A Rated current Moment of inertia (J) : 255 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) : 1480 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 890 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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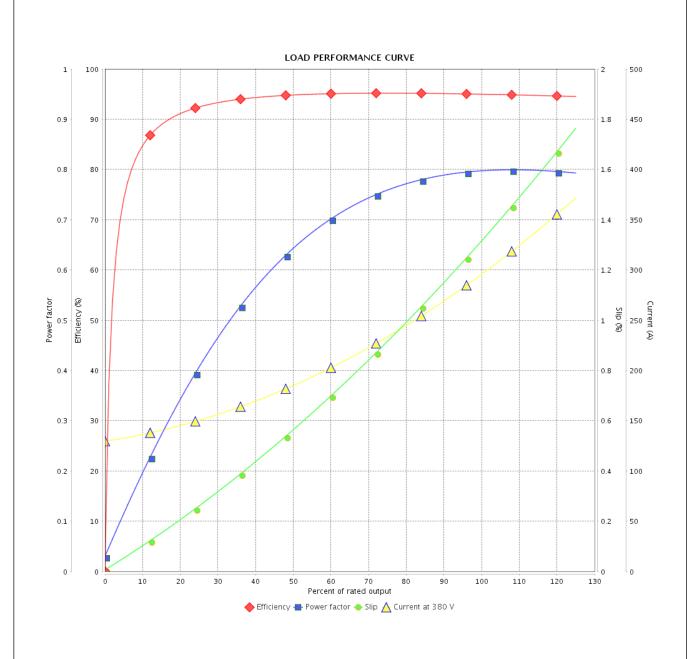
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Performance	: 380 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 300 A : 5.8 : 1420 ft.lb : 190 % : 229 % : 740 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 255 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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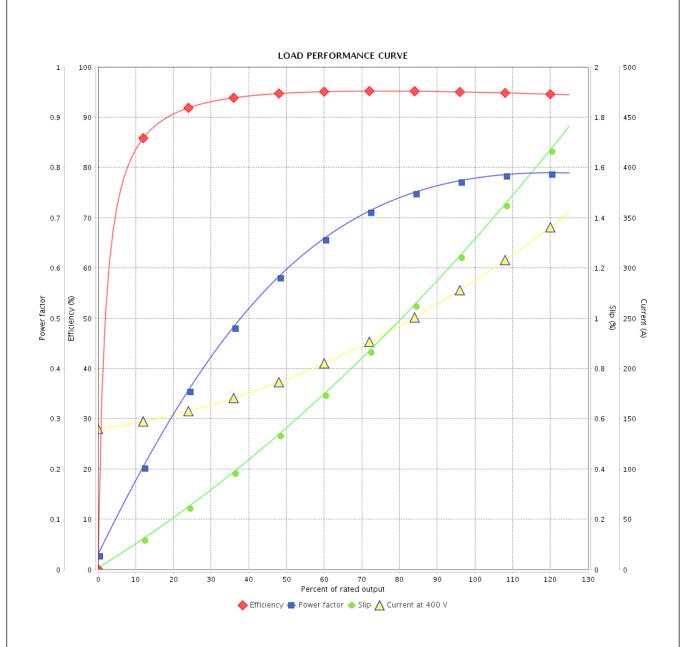
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Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11408339

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Performance : 400 V 50 Hz 8P IE3 : 292 A Rated current Moment of inertia (J) : 255 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 1420 ft.lb Insulation class Rated torque : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 105 K Rated speed : 740 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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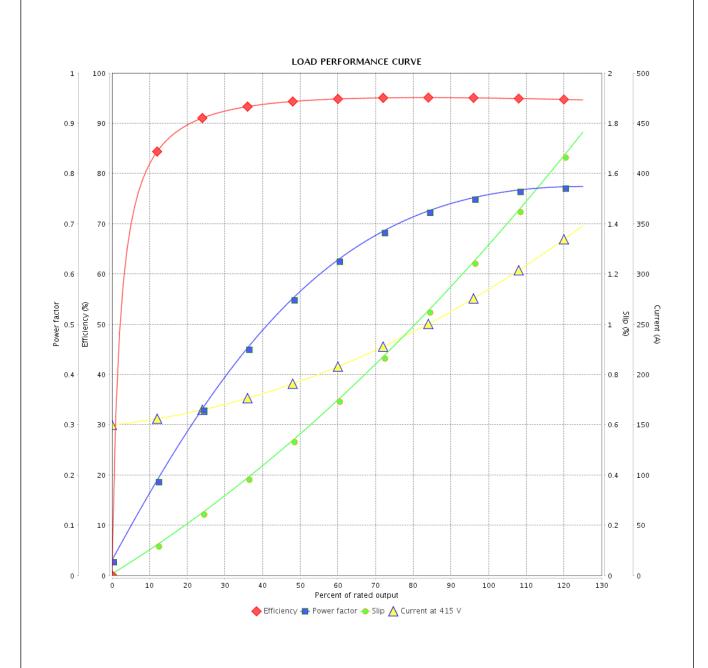


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Product line : NEMA Premium Efficiency Three- Product code : 11408339

Phase

Catalog #: 25009ET3G449T-W22



Performance	: 4	415 V 50 Hz 8P IE3				
Rated current	: 2	289 A	Moment o	f inertia (J)	: 255 sq.ft.lb	
LRC	: (6.8	Duty cycle		: Cont.(S1)	
Rated torque	:	1420 ft.lb	Insulation	class	: F	
Locked rotor torque	e :2	229 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	270 %	Temperatu	Temperature rise		
Rated speed	: 7	740 rpm	Design		: B	
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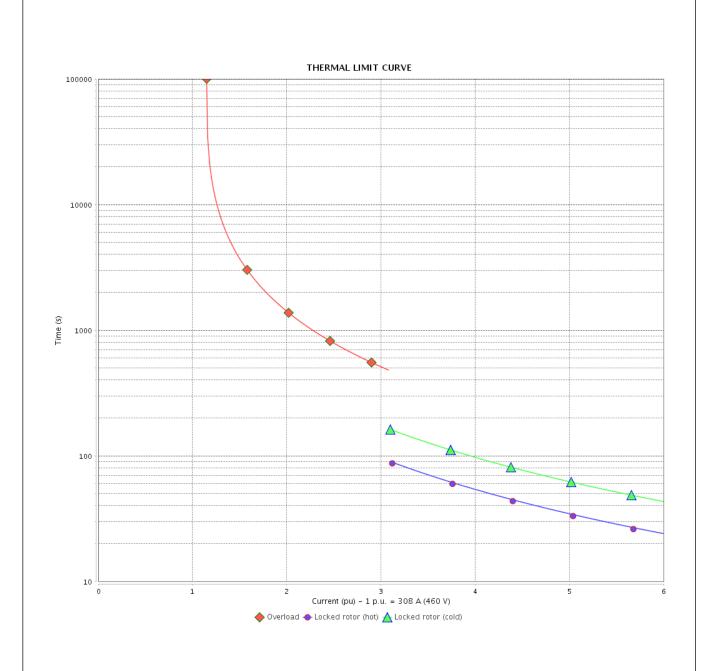


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Product line	: N Pl	NEMA Premium Efficiency ¹		Product code :	11408339	40T W/00
			(Catalog # :	25009ET3G4	49T-W22
Performance	: 46	60 V 60 Hz 8P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 30 : 6. : 14 : 20 : 22)8 A	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor	: 255 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant Cooling constant						
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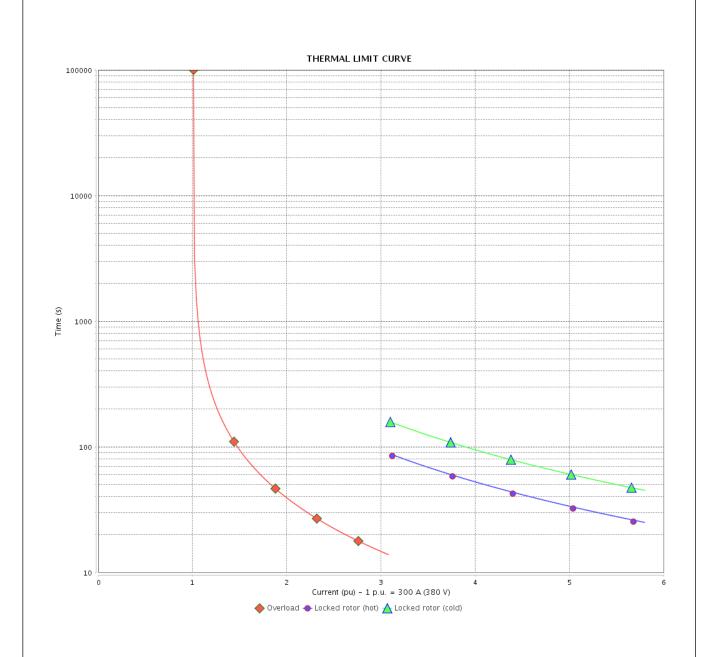


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Product line		: NEMA Premium Efficiency [·] Phase		Product code : Catalog # :	11408339 25009ET3G4	49T-W22
Performance	::	380 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	que :	300 A 5.8 1420 ft.lb 190 % 229 % 740 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 255 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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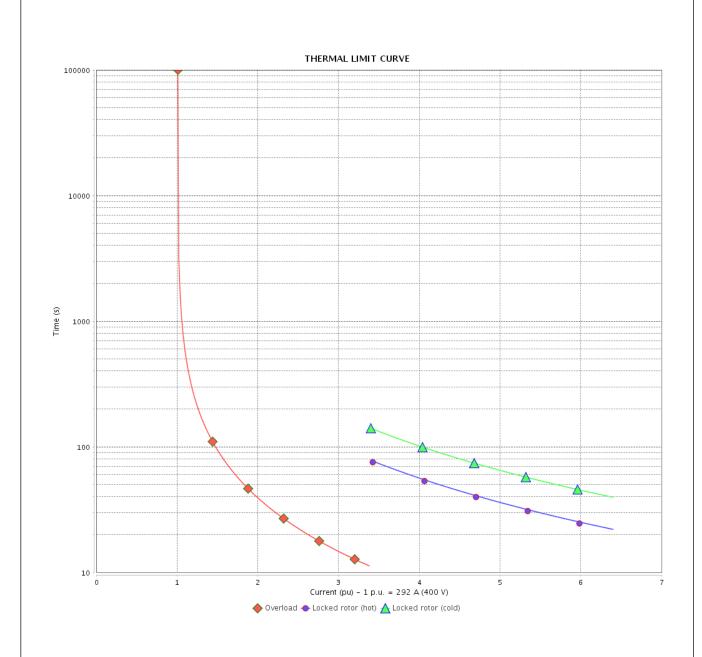


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Product line		NEMA Premium Efficiency	Three-	Product code :	11408339	
	P	hase		Catalog # :	25009ET3G4	49T-W22
Performance	: 40	00 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 6. : 14 ue : 2 ³ e : 28	420 ft.lb 10 % 50 %	Duty cycle Insulation Service fa Temperatu	class ctor	: 255 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K	
Rated speed	: 74	40 rpm	Design		: B	
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Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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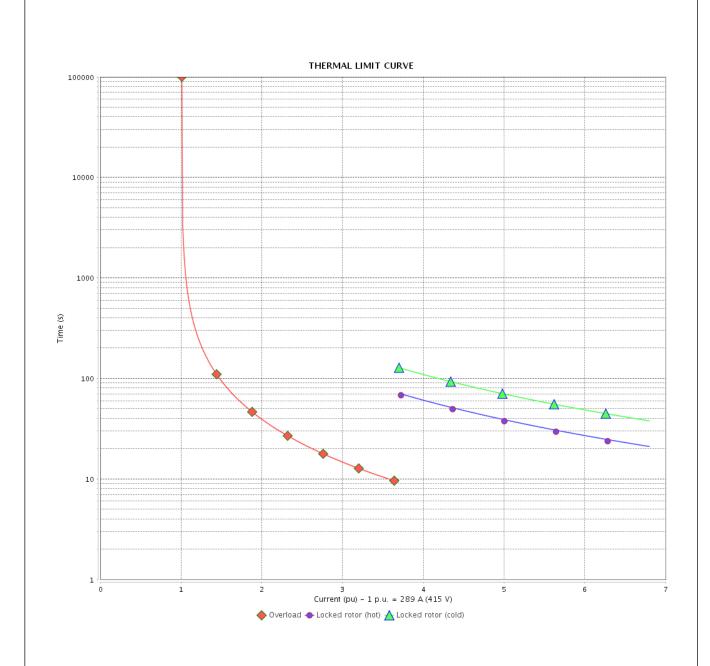


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Product line		NEMA Premium Efficiency Thase	Γhree- I	Product code :	11408339	
	11	1830	(Catalog # :	25009ET3G4	49T-W22
Performance		15 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6. : 1 ⁴ e : 22 : 27	39 A 8 420 ft.lb 29 % 70 % 40 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class ctor	: 255 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
	. 12	το τριτι	Design		. U	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

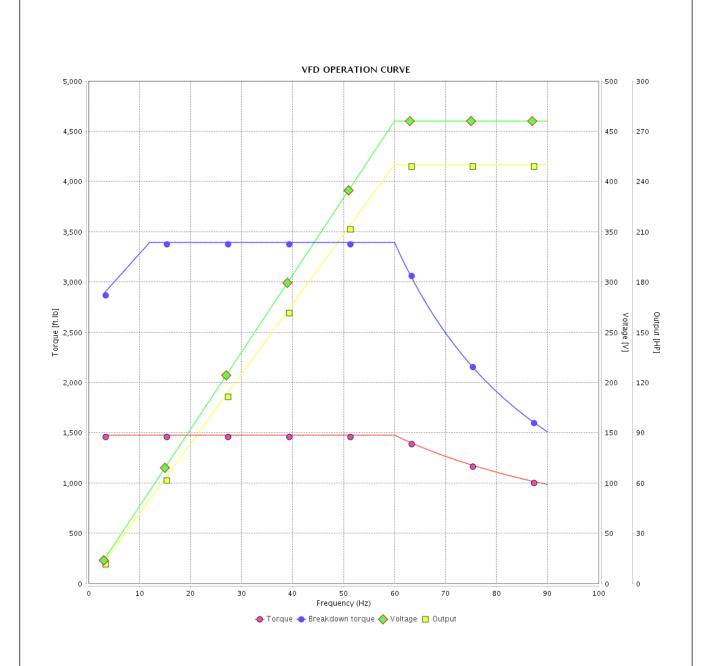
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Performance	: 460 V 60 Hz 8P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 308 A : 6.0 : 1480 ft.lb : 200 % : 229 % : 890 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 255 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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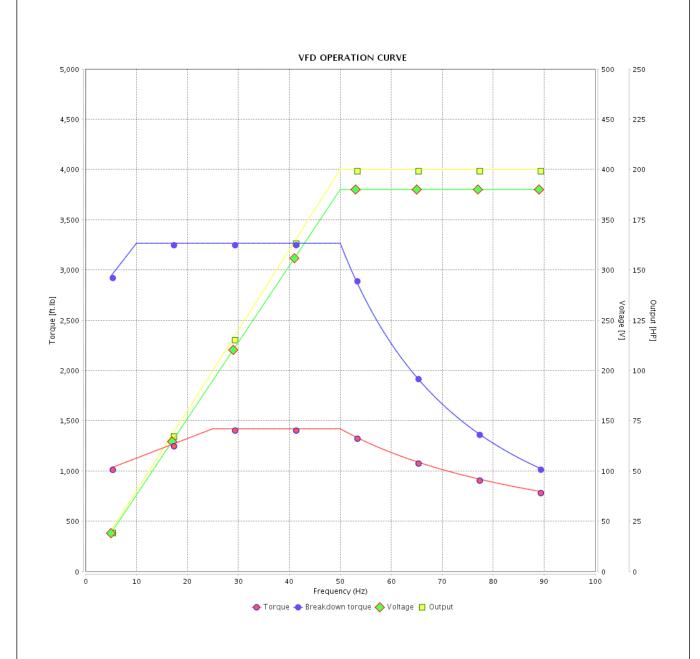
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Performance	: 380 V 50 Hz 8P IE3				
Rated current : 300 A		Moment of inertia (J)		: 255 sq.ft.lb	
LRC	: 5.8	Duty cycle	Э	: Cont.(S1)	
Rated torque	: 1420 ft.lb	Insulation	class	: F	
Locked rotor torque	: 190 %	Service fa	octor	: 1.00	
Breakdown torque	: 229 %	Temperat	ure rise	: 105 K	
Rated speed	: 740 rpm	Design		: B	
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Product line : NEMA Premium Efficiency Three- Produ

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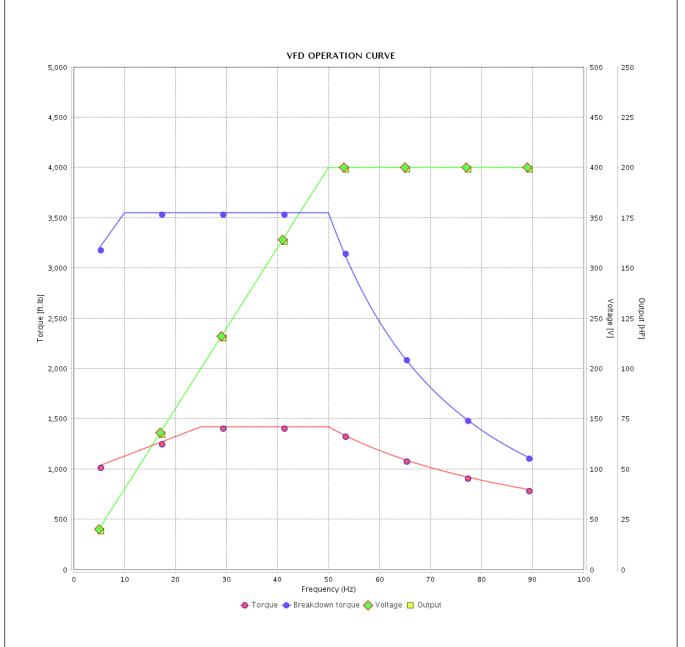
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Performance		: 400 V 50 Hz 8P	IE3			
Rated current		: 292 A		nt of inertia (J)	: 255 sq.ft.lb	
LRC		: 6.4	Duty o	ycle	: Cont.(S1)	
Rated torque		: 1420 ft.lb	Insula	tion class	: F	
Locked rotor tord	que	: 210 %	Service	e factor	: 1.00	
Breakdown torqu	ıe	: 250 %	Tempe	erature rise	: 105 K	
Rated speed		: 740 rpm	Desig	ı	: B	
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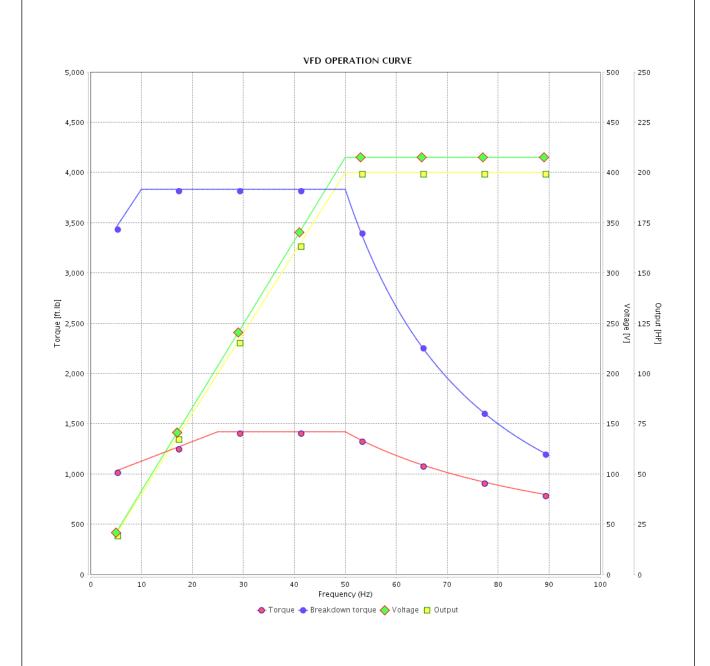
Product line : NEMA Premium Efficiency Three- Pr

Phase

Product code: 11408339

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Performance	: 415 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 289 A : 6.8 : 1420 ft.lb : 229 % : 270 % : 740 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 255 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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