DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11717746

Catalog #: 12509ET3G447T-W22

Frame : 445/7T 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 : 2038 lb Altitude

Protection degre	е	: IP55		Momer	nt of inertia (J)) :1	04 sq.ft.lb	
Design		: B						
Output [HP]		125	100	100	100	125	125	125
Poles		8	8	8	8	8	8	8
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		460	380	400	415	380	400	415
Rated current [A]		151	146	142	143	183	175	169
L. R. Amperes [A]		906	864	925	969	860	928	963
LRC [A]		6.0x(Code	5.9x(Code	6.5x(Code H)	6.8x(Code J)	4.7x(Code E)	5.3x(Code F)	5.7x(Code
		G)	G)					G)
No load current [A		65.0	64.1	70.0	75.5	64.1	70.0	75.5
Rated speed [RPN	Л]	890	735	740	740	735	740	740
Slip [%]		1.11	2.00	1.33	1.33	2.00	1.33	1.33
Rated torque [ft.lb]]	738	711	710	709	893	892	889
Locked rotor torqu	ie [%]	180	180	200	229	140	160	180
Breakdown torque	: [%]	210	210	240	260	170	190	210
Service factor		1.15	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K	105 K	105 K	105 K
Locked rotor time		30s (cold)	21s (cold)	21s (cold)	21s (cold)	21s (cold)	21s (cold)	21s (cold)
		17s (hot)	12s (hot)	12s (hot)	12s (hot)	12s (hot)	12s (hot)	12s (hot)
Noise level ²		63.0 dB(A)						
	25%	94.4	95.0	93.7	92.7	95.5	94.5	93.5
Efficiency (%)	50%	94.5	94.4	93.6	92.9	94.5	94.0	93.6
Linciency (70)	75%	94.5	94.2	93.9	93.7	93.6	93.6	93.6
	100%	94.5	93.4	93.6	93.7	92.4	93.0	93.6
	25%	0.40	0.38	0.35	0.33	0.46	0.42	0.39
Power Factor	50%	0.64	0.62	0.58	0.55	0.70	0.66	0.63
rower racion	75%	0.74	0.74	0.71	0.68	0.78	0.76	0.73
	100%	0.79	0.80	0.78	0.75	0.81	0.80	0.79

Drive end Non drive end Foundation loads

Bearing type 6319 C3 6316 C3 Max. traction : 3947 lb Sealing WSeal WSeal : 5985 lb Max. compression

Lubrication interval 17000 h 20000 h Lubricant amount 45 g 34 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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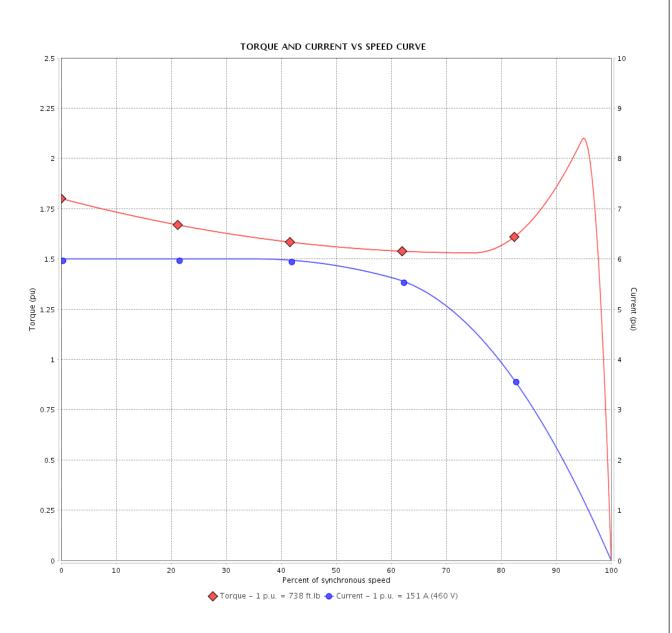
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 12509ET3G447T-W22

11717746



Performance	: 460 V 60 Hz 8P			
Rated current	: 151 A	Moment of inertia (J)	: 104 sq.ft.lb	
LRC	: 6.0	Duty cycle	: Cont.(S1)	
Rated torque	: 738 ft.lb	Insulation class	:F	
Locked rotor torque	: 180 %	Service factor	: 1.15	
Breakdown torque	: 210 %	Temperature rise	: 80 K	
Rated speed	: 890 rpm	Design	: B	
•	<u> </u>			

Locked rotor time : 30s (cold) 17s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11717746 Catalog #: 12509ET3G447T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 (bd) 1.25 0.5 0.25 40 50 -Percent of synchronous speed ♦ Torque - 1 p.u. = 711 ft.lb ♦ Current - 1 p.u. = 146 A (380 V)

Performance	: 380 V 50 Hz 8P IE3			
Rated current	: 146 A	Moment of inertia (J)	: 104 sq.ft.lb	
LRC	: 5.9	Duty cycle	: Cont.(S1)	
Rated torque	: 711 ft.lb	Insulation class	:F ` ´	
Locked rotor torque	: 180 %	Service factor	: 1.00	
Breakdown torque	: 210 %	Temperature rise	: 80 K	
Rated speed	: 735 rpm	Design	: B	
Locked rotor time	: 21s (cold) 12s (hot)			

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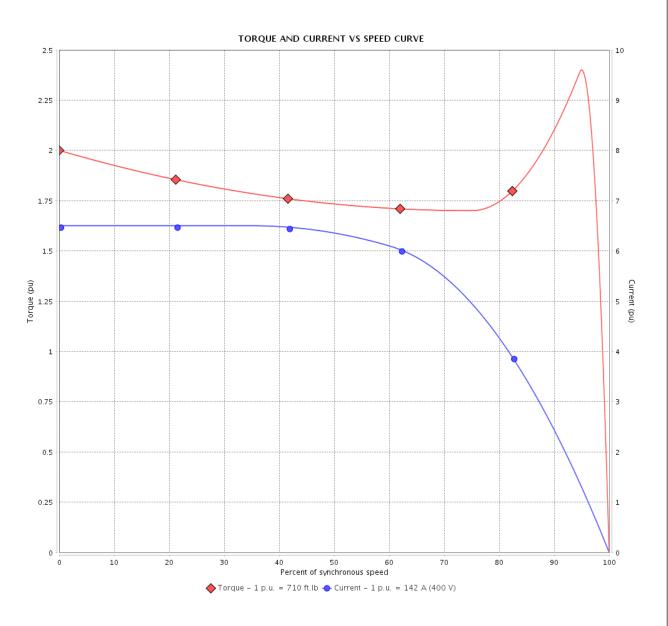


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11717746

Phase

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Performance	: 400 V 50 Hz 8P IE3		
Rated current	: 142 A	Moment of inertia (J)	: 104 sq.ft.lb
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 710 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 740 rpm	Design	: B
Locked rotor time	: 21s (cold) 12s (hot)	I	

Locked rotor time : 21s (cold) 12s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11717746 Catalog #: 12509ET3G447T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 709 ft.lb ◆ Current - 1 p.u. = 143 A (415 V) Performance : 415 V 50 Hz 8P IE3 Rated current : 143 A Moment of inertia (J) : 104 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) : 709 ft.lb Insulation class : F Rated torque : 229 % Locked rotor torque Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 740 rpm Design : B Locked rotor time : 21s (cold) 12s (hot) Rev. Performed Checked Date **Changes Summary**

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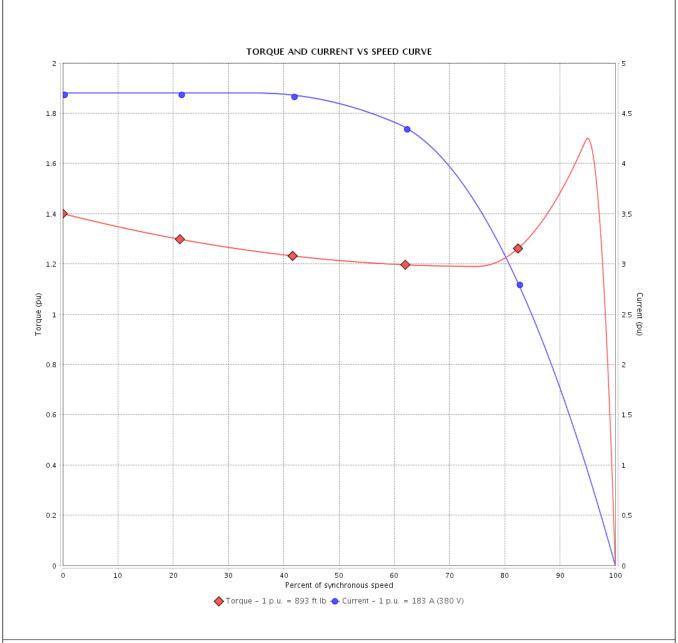
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 11717746

Catalog #: 12509ET3G447T-W22



Performance : 380 V 50 Hz 8P IE2 Rated current : 183 A Moment of inertia (J) : 104 sq.ft.lb **LRC** : 4.7 Duty cycle : Cont.(S1) Insulation class Rated torque : 893 ft.lb : F Service factor Locked rotor torque : 140 % : 1.00 Breakdown torque : 170 % Temperature rise : 105 K Rated speed : 735 rpm Design : B

Locked rotor time : 21s (cold) 12s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11717746 Catalog #: 12509ET3G447T-W22 TORQUE AND CURRENT VS SPEED CURVE 1.8 1.4 1.2 Current Torque (pu) 0.8 0.4 0.2 Percent of synchronous speed ◆ Torque - 1 p.u. = 892 ft.lb ◆ Current - 1 p.u. = 175 A (400 V) Performance : 400 V 50 Hz 8P IE2 Rated current : 175 A Moment of inertia (J) : 104 sq.ft.lb **LRC** : 5.3 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 892 ft.lb Locked rotor torque : 160 % Service factor : 1.00 : 105 K Breakdown torque : 190 % Temperature rise Rated speed : 740 rpm Design : B Locked rotor time : 21s (cold) 12s (hot) Rev. Performed Checked Date **Changes Summary**

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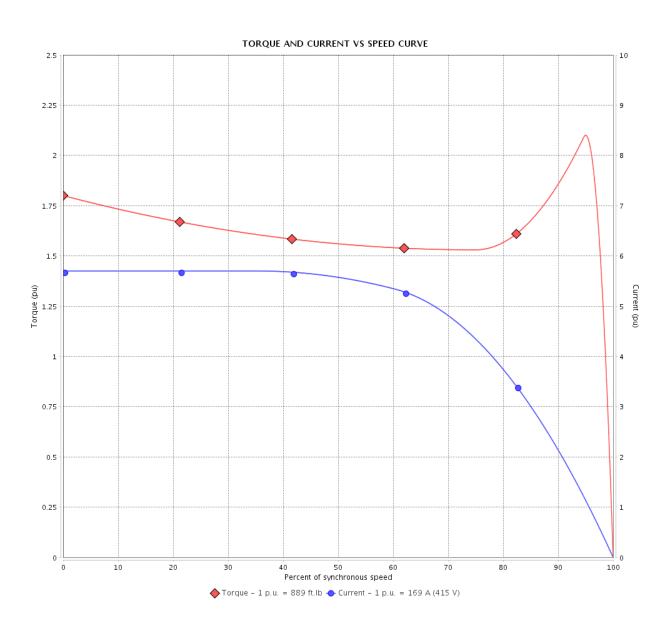
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Product code: 11717746

Catalog #: 12509ET3G447T-W22



Performance : 415 V 50 Hz 8P IE3 Rated current : 169 A Moment of inertia (J) : 104 sq.ft.lb **LRC** : 5.7 Duty cycle : Cont.(S1) : 889 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 180 % : 1.00 Breakdown torque : 210 % Temperature rise : 105 K Rated speed : 740 rpm Design : B

Locked rotor time : 21s (cold) 12s (hot)

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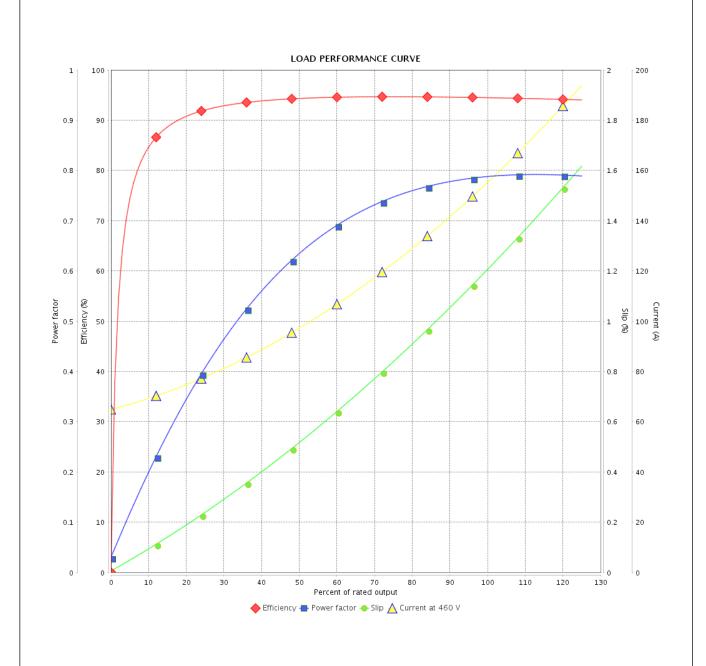
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Rated current LRC Rated torque Locked rotor torque	: 151 A : 6.0 : 738 ft.lb : 180 %	Moment of i Duty cycle Insulation cl	, ,	: 104 sq.ft.lb : Cont.(S1) : F	
Rated torque	: 738 ft.lb	Insulation cl	lass	, ,	
			lass	· F	
Looked refer tergue	. 100 0/			. 1	
Locked foldi lorque	. 100 70	Service fact	or	: 1.15	
Breakdown torque	: 210 %	Temperature	e rise	: 80 K	
Rated speed	: 890 rpm	Design		: B	
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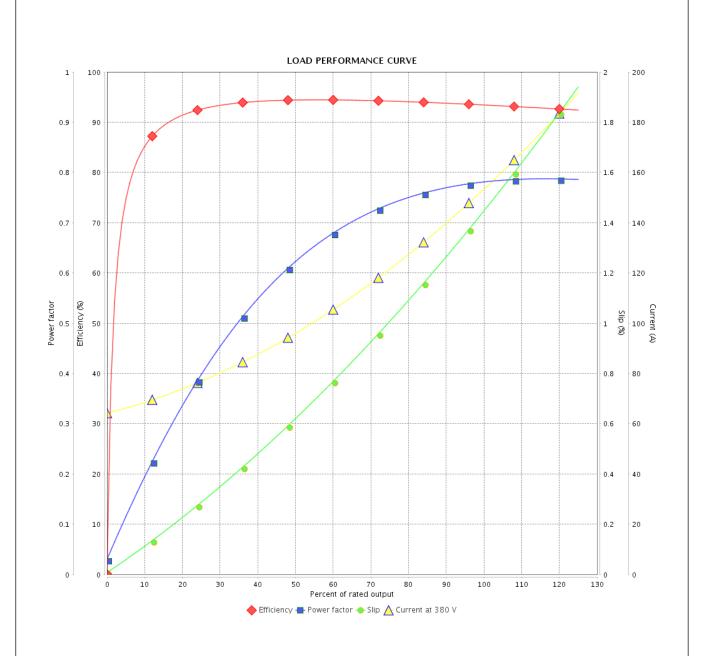
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Performance	: 380 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 146 A : 5.9 : 711 ft.lb : 180 % : 210 % : 735 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 104 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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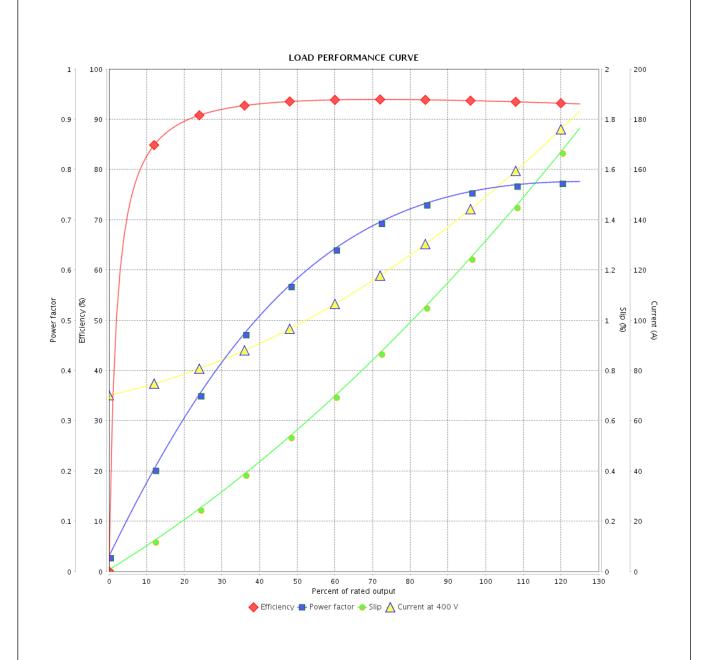
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Performance	: 400 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 142 A : 6.5 : 710 ft.lb : 200 % : 240 % : 740 rpm	Moment of inertia (J) : 104 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B		: Cont.(\$1) : F : 1.00 : 80 K	
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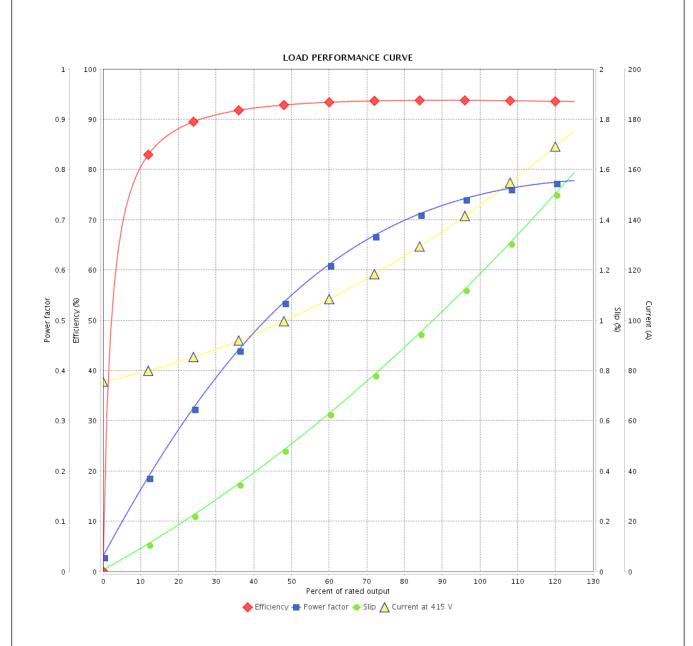
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Performance	: 415 V 50 Hz 8P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 143 A : 6.8 : 709 ft.lb : 229 % : 260 % : 740 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 104 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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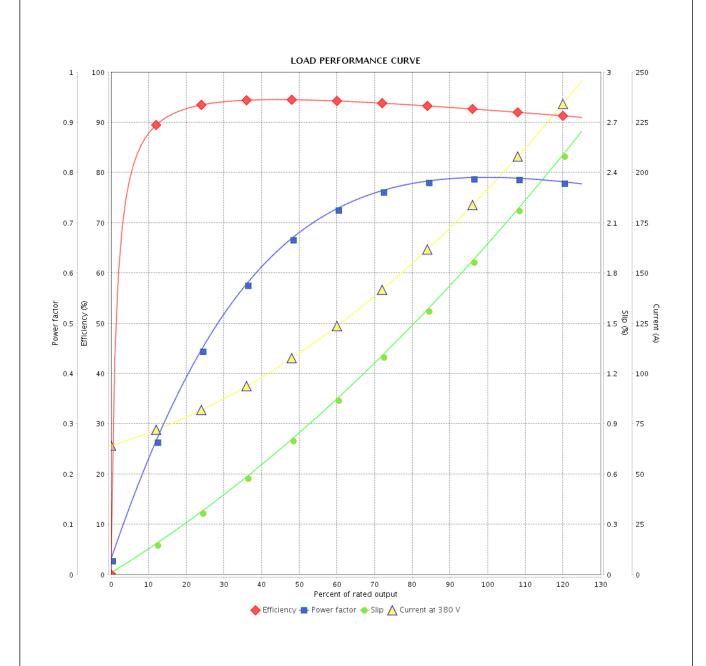


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					1	
Performance	: 3	880 V 50 Hz 8P IE2	2			
Rated current	: 1	83 A	Moment o	Moment of inertia (J)		
LRC	: 4	ł.7	Duty cycle	Duty cycle		
Rated torque	: 8	893 ft.lb	Insulation	Insulation class		
Locked rotor torqu	ue : 1	40 %	Service fa	ctor	: 1.00	
Breakdown torque	e :1	70 %	Temperatu	Temperature rise		
Rated speed	: 7	'35 rpm	Design		: B	
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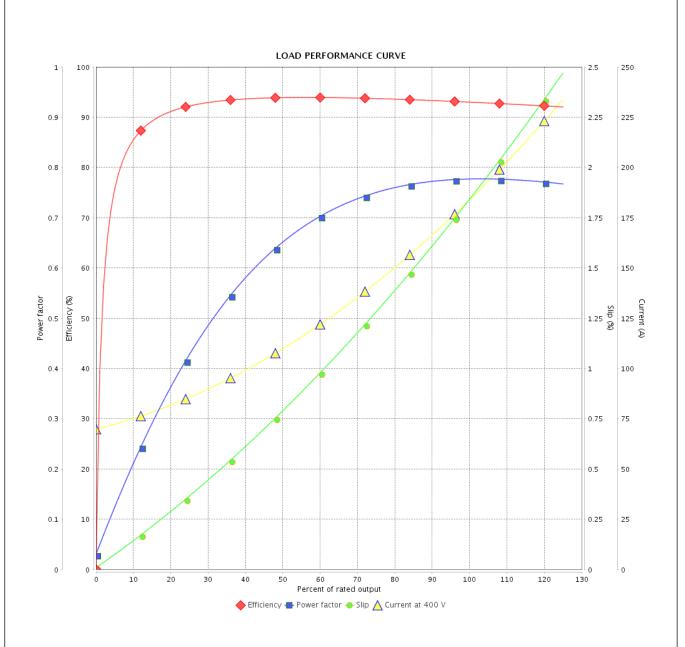
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Performance	: 400 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor torqu Breakdown torque Rated speed		Duty cycle Insulation Service fa	ion class : F e factor : 1.00 rature rise : 105 K		
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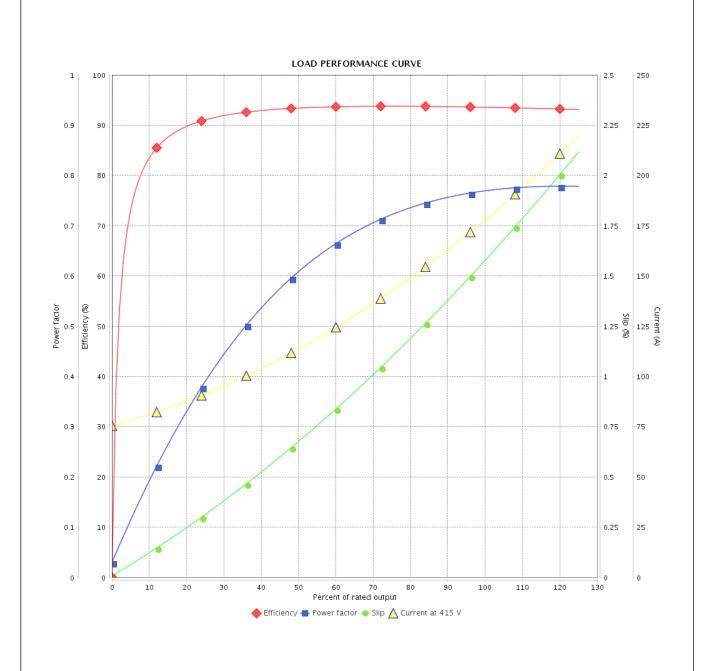
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Performance	: 4	115 V 50 Hz 8P IE3	3			
Rated current	: 1	169 A	Moment o	Moment of inertia (J)		
LRC	: 5	5.7	Duty cycle)	: Cont.(S1)	
Rated torque	: 8	: 889 ft.lb	Insulation	Insulation class		
Locked rotor tord	sed rotor torque : 180 % Service factor		: 1.00			
Breakdown torqu	ue : 2	210 %	Temperature rise		: 105 K	
Rated speed	: 7	740 rpm	Design		: B	
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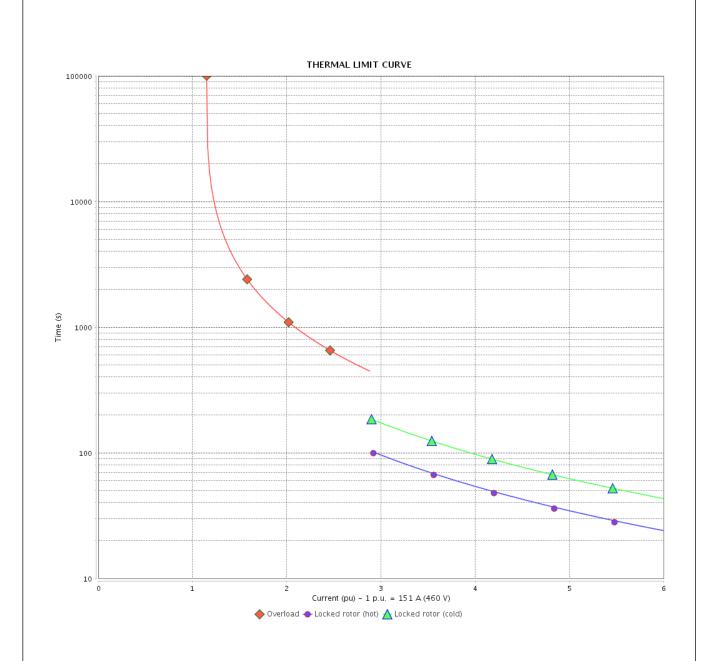


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11717746 12509ET3G4	47T-W22
Performance		: 460 V 60 Hz 8P				
Rated current LRC		: 151 A : 6.0	Duty cycle		: 104 sq.ft.lb : Cont.(S1)	
Rated torque		: 738 ft.lb : 180 %	Insulation Service fa		: F : 1.15	
Locked rotor tord Breakdown torqu		: 210 %	Temperat		: 80 K	
Rated speed		: 890 rpm	Design		: B	
Heating constant						
Cooling constant	l .	Changes Summany		Performed	Checked	Doto
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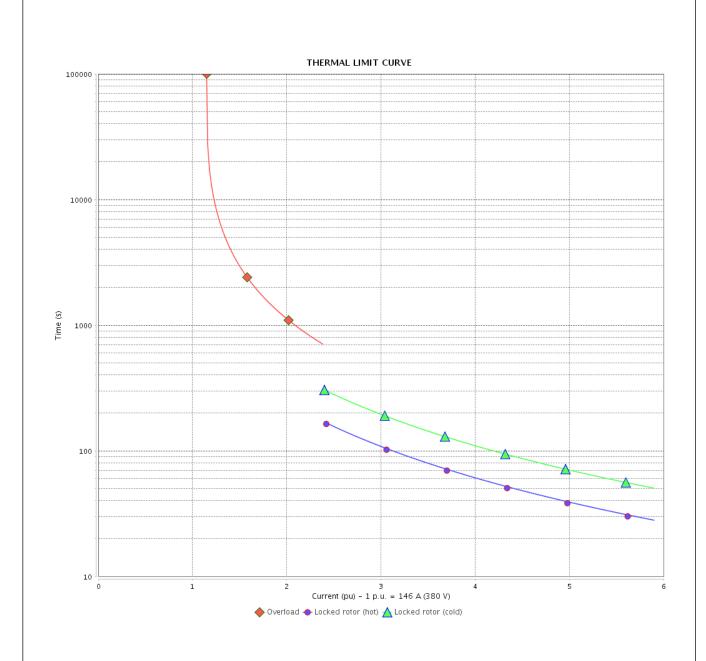


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Customer	:				
Product line	: NEMA Premium Efficiend Phase	cy Three-	Product code :	11717746	
	T Flado		Catalog # :	12509ET3G4	47T-W22
Performance	: 380 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 146 A : 5.9 : 711 ft.lb : 180 % : 210 %	Moment of Duty cycle Insulation Service fa	class ctor	: 104 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Rated speed	: 735 rpm	Design		: B	
Heating constant Cooling constant	· · · · · · · · · · · · · · · · · · ·				
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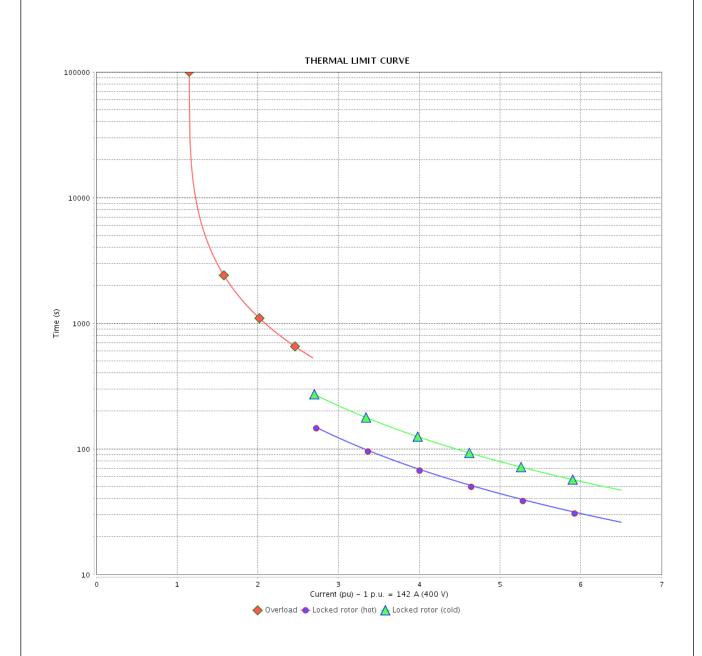


Customer	:				
Product line	: NEMA Premium Efficiency Phase	Three-	Product code :	11717746	
	1 11000		Catalog # :	12509ET3G4	47T-W22
Performance	: 400 V 50 Hz 8P IE3	Moment -	f inartia (I)	· 104 og # lb	
Rated current LRC	: 142 A : 6.5	Moment o	f inertia (J)	: 104 sq.ft.lb : Cont.(S1)	
Rated torque	: 710 ft.lb	Insulation	class	: F	
Locked rotor torque	: 200 %	Service fa		: 1.00	
Breakdown torque Rated speed	: 240 % : 740 rpm	Temperati Design	ure rise	: 80 K : B	
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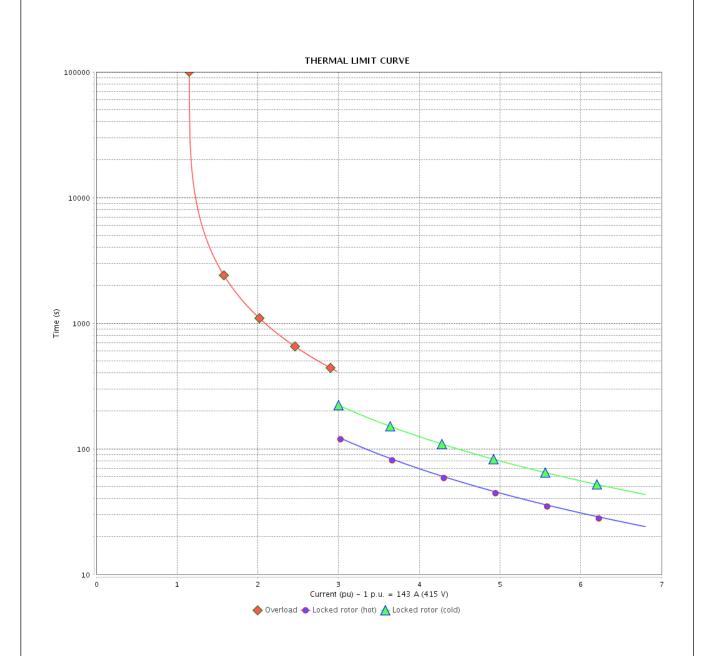


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Product line	: NEMA Premium Efficiency Phase	Three- Product code :	11717746	
		Catalog #:	12509ET3G447T-V	W22
Performance	: 415 V 50 Hz 8P IE3			
Rated current LRC Rated torque	: 143 A : 6.8 : 709 ft.lb	Moment of inertia (J) Duty cycle Insulation class	: 104 sq.ft.lb : Cont.(S1) : F	
Locked rotor torque	: 229 %	Service factor	: 1.00	
Breakdown torque Rated speed	: 260 % : 740 rpm	Temperature rise Design	: 80 K : B	
Heating constant				
Cooling constant				
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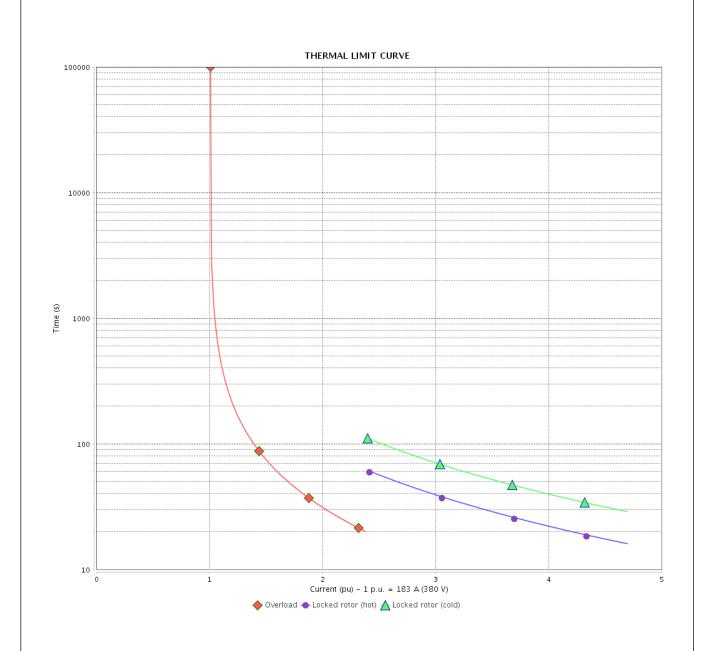


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11717746 12509ET3G4	17T-W22
					1200321004	+/ 1 VVZZ
Performance	,	: 380 V 50 Hz 8P IE2				
Rated current LRC		: 183 A : 4.7	Moment of Duty cycle	of inertia (J)	: 104 sq.ft.lb : Cont.(S1)	
Rated torque		: 893 ft.lb	Insulation	class	: F	
Locked rotor tord		: 140 % : 170 %	Service fa		: 1.00 : 105 K	
Breakdown torqu Rated speed		: 170 % : 735 rpm	Temperat Design	ure rise	: 105 K : B	
Heating constan						
Cooling constant						
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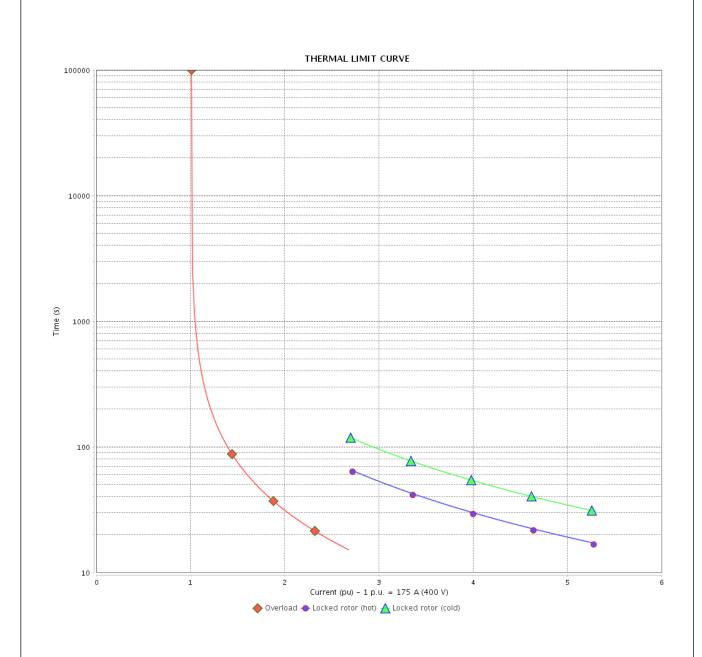


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Product line	: NEMA Premium Efficiency Phase	Three- Product co	ode: 11717746	
	Filase	Catalog #	: 12509ET3G	447T-W22
Performance	: 400 V 50 Hz 8P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 175 A : 5.3 : 892 ft.lb : 160 % : 190 % : 740 rpm	Moment of inertia (J Duty cycle Insulation class Service factor Temperature rise Design	1) : 104 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant Cooling constant				
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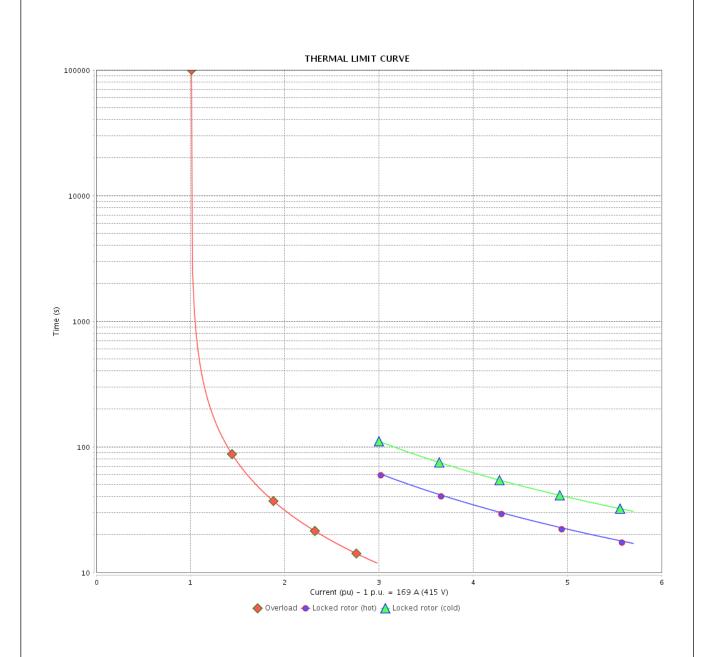


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Product line		: NEMA Premium Efficiency ¹ Phase		Product code :	11717746 12509ET3G44	17T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: : : : : : : : :	415 V 50 Hz 8P IE3 169 A 5.7 889 ft.lb 180 % 210 % 740 rpm	Moment or Duty cycle Insulation Service far Temperatu Design	class ctor	: 104 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

13/04/2022

Product line : NEMA Premium Efficiency Three- Product code :

Phase

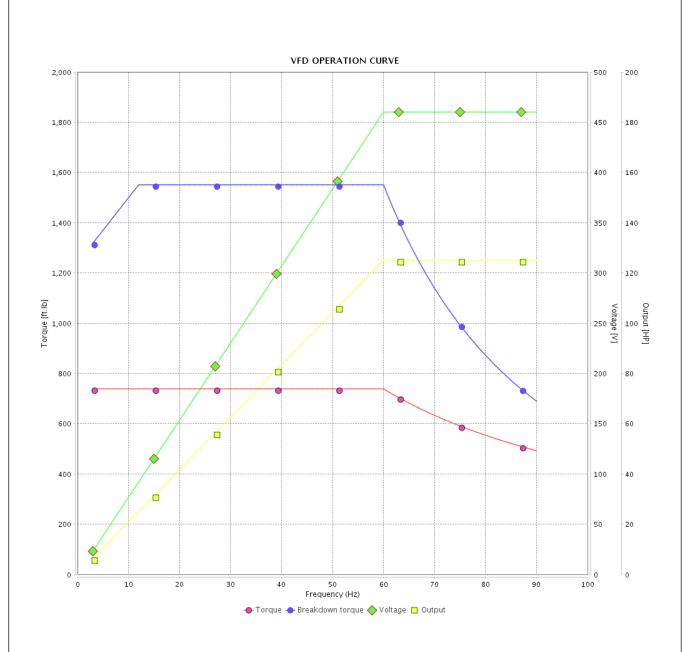
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Performance		: 460 V 60 Hz	2 8P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 151 A : 6.0 : 738 ft.lb : 180 % : 210 % : 890 rpm		Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 104 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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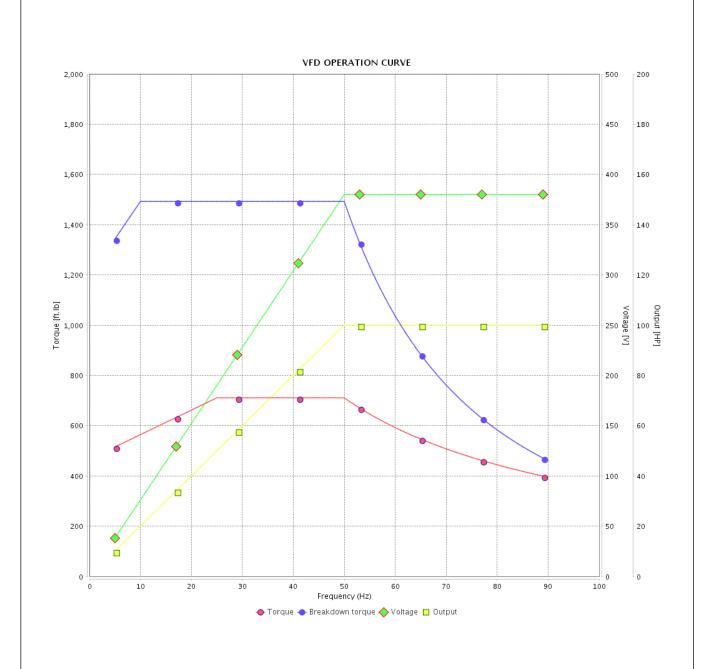


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11717746

Phase

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Performance	· 3	80 V 50 Hz 8P IE3				
Rated current	: 14	46 A	Moment o	f inertia (J)	: 104 sq.ft.lb	
LRC	: 5	.9	Duty cycle	;	: Cont.(S1)	
Rated torque	: 7	11 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 18	80 %	Service fa	ctor	: 1.00	
Breakdown torque		10 %	Temperati	ıre rise	: 80 K	
Rated speed	: 73	35 rpm	Design		: B	
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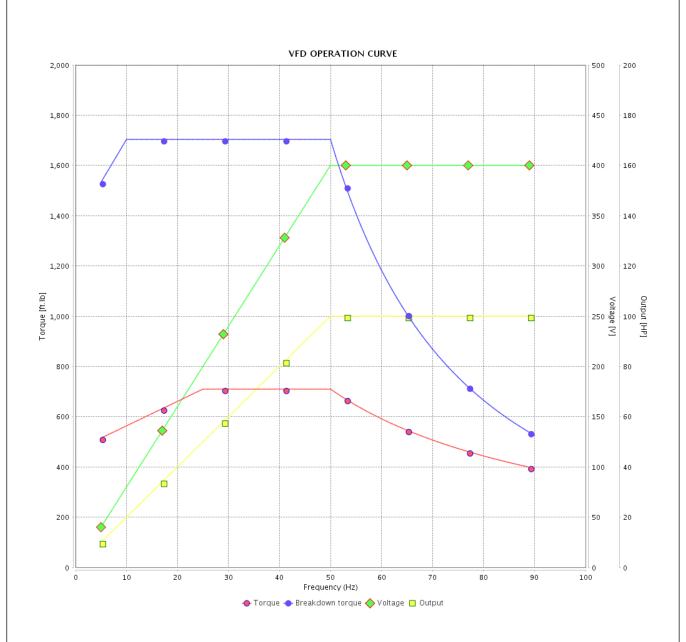
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11717746

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Performance	: 400 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque	: 142 A : 6.5 : 710 ft.lb : 200 %	Duty cycle Insulation Service fa	class ctor	: 104 sq.ft.lb : Cont.(S1) : F : 1.00	
Breakdown torque Rated speed	: 240 % : 740 rpm	Temperati Design	ure rise	: 80 K : B	
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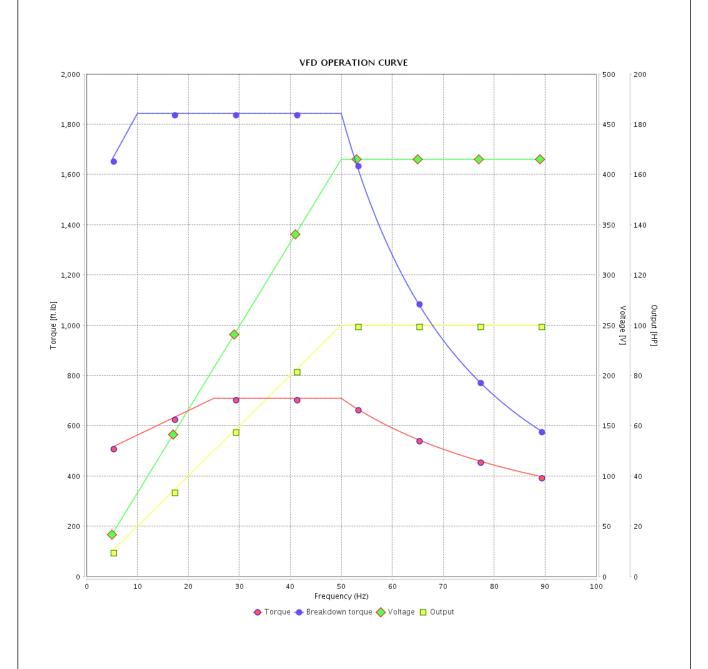


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11717746

Phase

Catalog #: 12509ET3G447T-W22



Performance	: 4	15 V 50 Hz 8P IE3				
Rated current	: 1	43 A	3 A Moment of inertia (J)		: 104 sq.ft.lb	
LRC	: 6	.8	Duty cycle)	: Cont.(S1)	
Rated torque	: 7	09 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2:	29 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	60 %	Temperati	ıre rise	: 80 K	
Rated speed	: 7	40 rpm	Design		: B	
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Customer :

Checked by

Date

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Product line : NEMA Premium Efficiency Three- Product code :

Phase

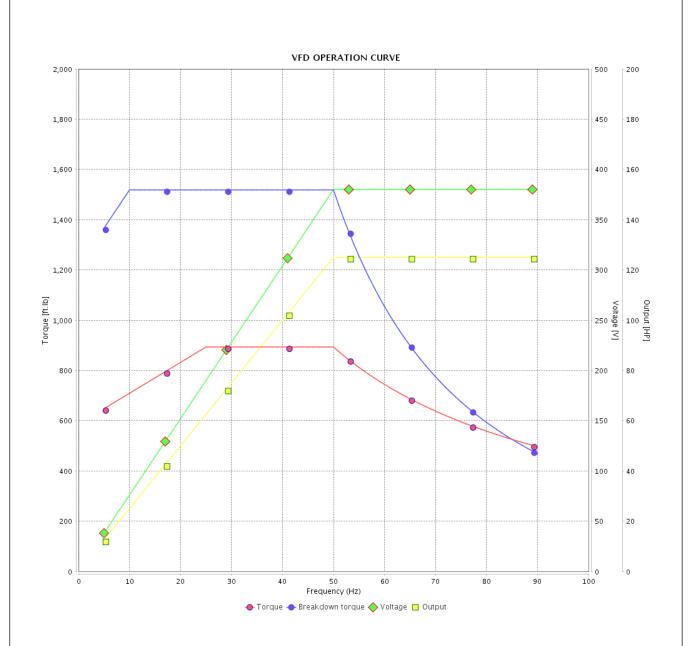
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Performance : 380 V 50 Hz 8P IE2 : 183 A Rated current Moment of inertia (J) : 104 sq.ft.lb **LRC** : 4.7 Duty cycle : Cont.(S1) : 893 ft.lb Insulation class Rated torque : F Locked rotor torque : 140 % Service factor : 1.00 Breakdown torque : 170 % Temperature rise : 105 K Rated speed : 735 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage

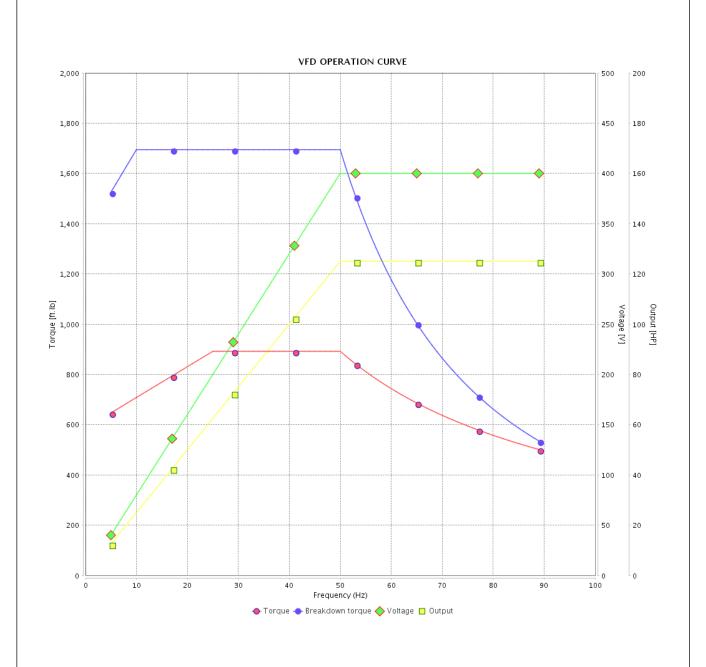


Customer

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Phase

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Performance	: 4	00 V 50 Hz 8P IE2				
Rated current	: 1	75 A	Moment o	f inertia (J)	: 104 sq.ft.lb	
LRC	: 5	.3	Duty cycle		: Cont.(S1)	
Rated torque	: 8	92 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 1	60 %	Service fa	ctor	: 1.00	
Breakdown torque	e :1	90 %	Temperature rise		: 105 K	
Rated speed	: 7	40 rpm	Design		: B	
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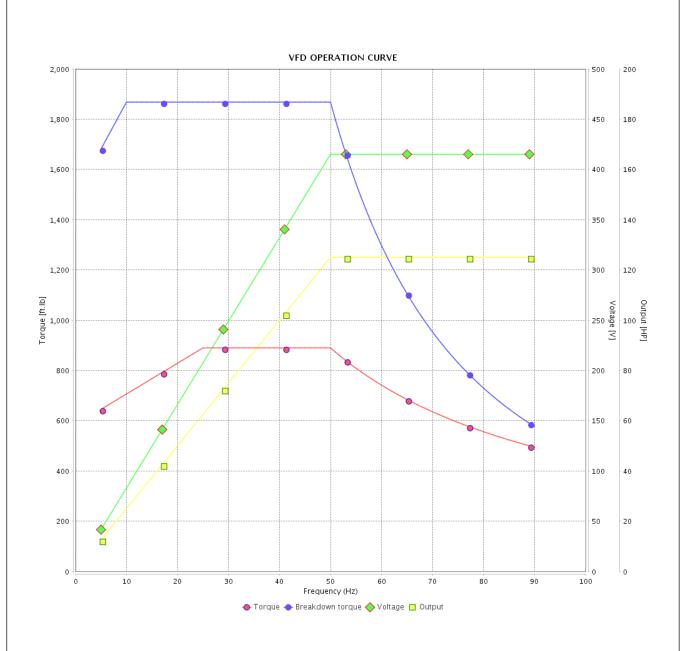
Customer :

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Phase

Product code: 11717746

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Performance		: 415 V 50 Hz 8P I	IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 169 A : 5.7 : 889 ft.lb : 180 % : 210 % : 740 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 104 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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