DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11570960

Catalog #: 12518ST3QIERB444T-W2

Frame : 444/5T Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) : -20°C to +40°C Starting method Ambient temperature : Direct On Line

: 1000 m.a.s.l. Approx. weight3 : 1668 lb Altitude : 57.2 sq.ft.lb

Moment of inertia (J) Protection degree : IP55 : B

Design Output [HP] 125 100 100 100 125 125 125 Poles 4 4 4 4 Frequency [Hz] 60 50 50 50 50 50 50 Rated voltage [V] 400 415 380 400 460 380 415 Rated current [A] 168 139 139 136 132 160 155 L. R. Amperes [A] 890 952 1003 857 912 904 961 LRC [A] 6.5x(Code 6.4x(Code 7.0x(Code H) 7.6x(Code J) 5.1x(Code E) 5.7x(Code F) 6.2x(Code F) G) G) No load current [A] 40.0 40.0 43.0 45.0 40.0 43.0 45.0 Rated speed [RPM] 1780 1480 1485 1475 1475 1480 1480

Slip [%]		1.11	1.33	1.33	1.00	1.67	1.67	1.33
Rated torque [ft.lb]		368	354	354	353	445	444	443
Locked rotor torqu	ie [%]	200	200	229	240	160	180	190
Breakdown torque	[%]	229	229	260	280	180	200	220
Service factor		1.15	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise		80 K						
Locked rotor time		48s (cold)	32s (cold)					
			18s (hot)					
Noise level ²		73.0 dB(A)	69.0 dB(A)					
	25%	94.9	94.7	94.5	94.1	95.3	95.3	94.9
Efficiency (%)	50%	95.0	94.7	94.6	94.3	95.0	95.0	95.0
Efficiency (70)	75%	95.4	95.1	95.1	95.1	95.0	95.0	95.0
	100%	95.4	95.0	95.0	95.2	94.5	94.5	95.0
	25%	0.52	0.50	0.47	0.44	0.58	0.54	0.52
Power Factor	50%	0.74	0.73	0.69	0.67	0.79	0.76	0.74
	75%	0.82	0.82	0.80	0.78	0.85	0.83	0.82
	100%	0.85	0.86	0.84	0.83	0.86	0.86	0.85

Drive end Non drive end Foundation loads

Bearing type NU-319 C3 6316 C3 Max. traction : 1767 lb Sealing Inpro/Seal Inpro/Seal : 3435 lb Max. compression

Lubrication interval 5000 h 10000 h Lubricant amount 45 g 34 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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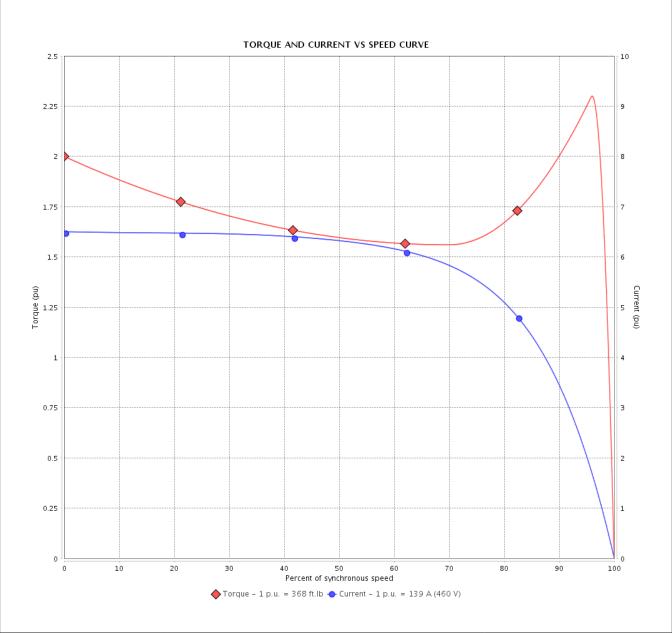
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11570960

Catalog #: 12518ST3QIERB444T-W2



Performance : 460 V 60 Hz 4P Rated current : 139 A Moment of inertia (J) : 57.2 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 368 ft.lb : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B

Locked rotor time : 48s (cold) 27s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11570960 Catalog #: 12518ST3QIERB444T-W2 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 (pd) 1.25 Current 0.5 0.25 Percent of synchronous speed ◆ Torque - 1 p.u. = 354 ft.lb ◆ Current - 1 p.u. = 139 A (380 V)

Performance : 380 V 50 Hz 4P IE3 Rated current : 139 A Moment of inertia (J) : 57.2 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 354 ft.lb Insulation class Rated torque : F : 200 % Locked rotor torque Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B Locked rotor time : 32s (cold) 18s (hot)

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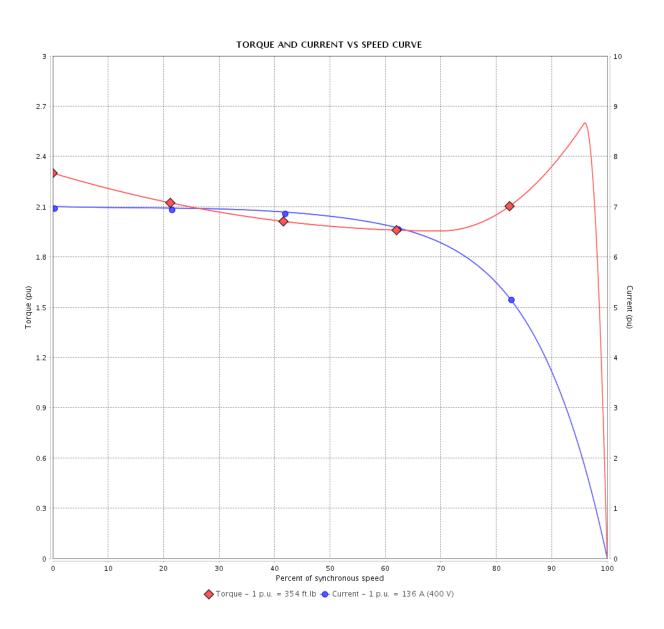


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11570960

Phase

Catalog #: 12518ST3QIERB444T-W2



Performance : 400 V 50 Hz 4P IE3 Rated current : 136 A Moment of inertia (J) : 57.2 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 354 ft.lb : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B

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

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11570960 Catalog #: 12518ST3QIERB444T-W2 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Torque (pu) 1.2 0.6 0.3 40 50 60 Percent of synchronous speed ◆ Torque - 1 p.u. = 353 ft.lb ◆ Current - 1 p.u. = 132 A (415 V) Performance : 415 V 50 Hz 4P IE3 : 132 A Rated current Moment of inertia (J) : 57.2 sq.ft.lb Duty cycle : Cont.(S1) **LRC** : 7.6

Rated torque Locked rotor torque Breakdown torque Rated speed	ue : 24 e : 28 : 14	53 ft.lb 10 % 80 % 185 rpm 2s (cold) 18s (ho	Insulation of Service factor Temperature Design	tor	: F : 1.00 : 80 K : B	
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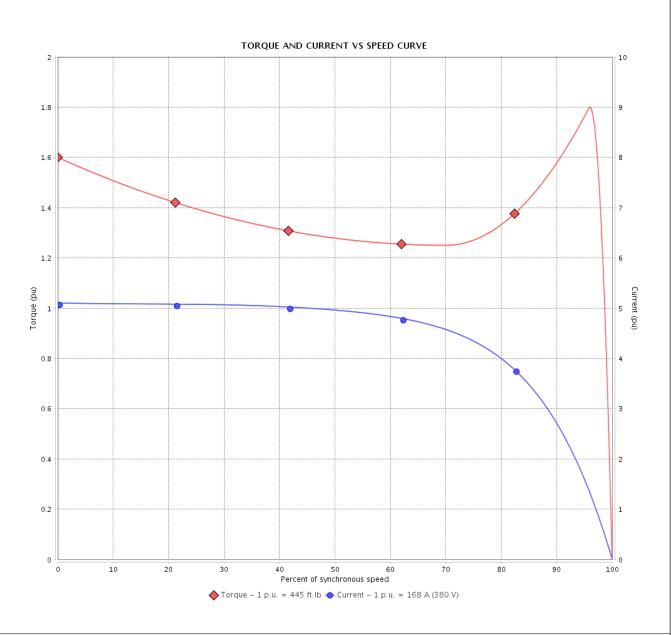
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11570960

Catalog #: 12518ST3QIERB444T-W2



Performance : 380 V 50 Hz 4P IE2 Rated current : 168 A Moment of inertia (J) : 57.2 sq.ft.lb **LRC** : 5.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 445 ft.lb : F Locked rotor torque : 160 % Service factor : 1.00 Breakdown torque : 180 % Temperature rise : 80 K Rated speed : 1475 rpm Design : B

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

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11570960 Catalog #: 12518ST3QIERB444T-W2 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 (pd) 1.25 Current 0.5 0.25 Percent of synchronous speed ◆ Torque - 1 p.u. = 444 ft.lb ◆ Current - 1 p.u. = 160 A (400 V) Performance : 400 V 50 Hz 4P IE2 Rated current : 160 A Moment of inertia (J) : 57.2 sq.ft.lb **LRC** : 5.7 Duty cycle : Cont.(S1) : 444 ft.lb Rated torque Insulation class : F : 180 % Locked rotor torque Service factor : 1.00 : 80 K Breakdown torque : 200 % Temperature rise Rated speed · 1475 rpm Design

raica speca	. 1-	rr 5 ipini	Design		. Б	
Locked rotor time	e : 3	2s (cold) 18s (hot)				
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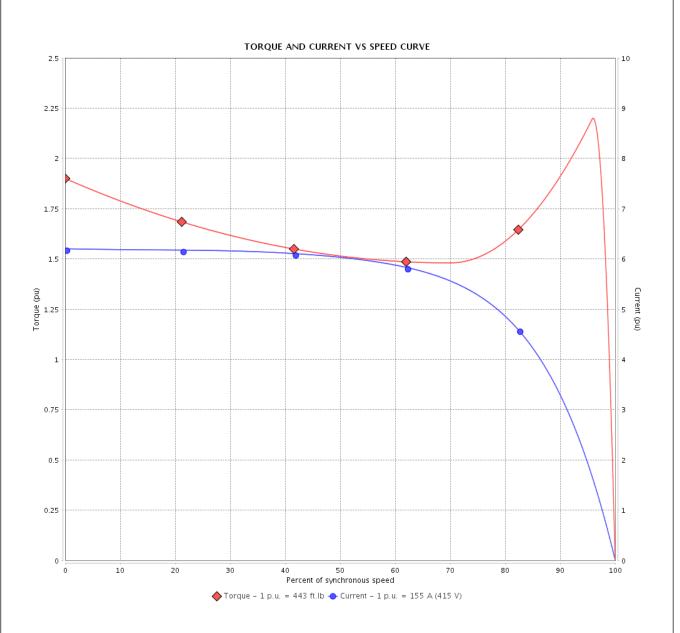


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11570960

Phase

Catalog #: 12518ST3QIERB444T-W2



Performance : 415 V 50 Hz 4P IE2 Rated current : 155 A Moment of inertia (J) : 57.2 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 443 ft.lb : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B

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

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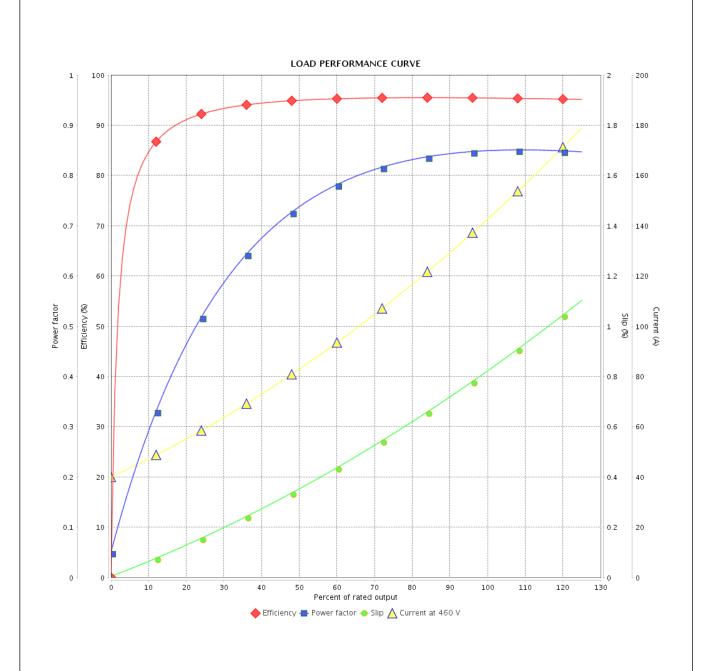
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11570960

Catalog #: 12518ST3QIERB444T-W2



Performance	: 40	60 V 60 Hz 4P				
Rated current	: 1:	39 A	Moment of inertia (J)		: 57.2 sq.ft.lb	
LRC	: 6	.5	Duty cycle	•	: Cont.(S1)	
Rated torque	: 30	68 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 20	00 %	Service fa	ctor	: 1.15	
Breakdown torqu	ie : 2:	29 %	Temperature rise		: 80 K	
Rated speed	: 1	780 rpm	Design		: B	
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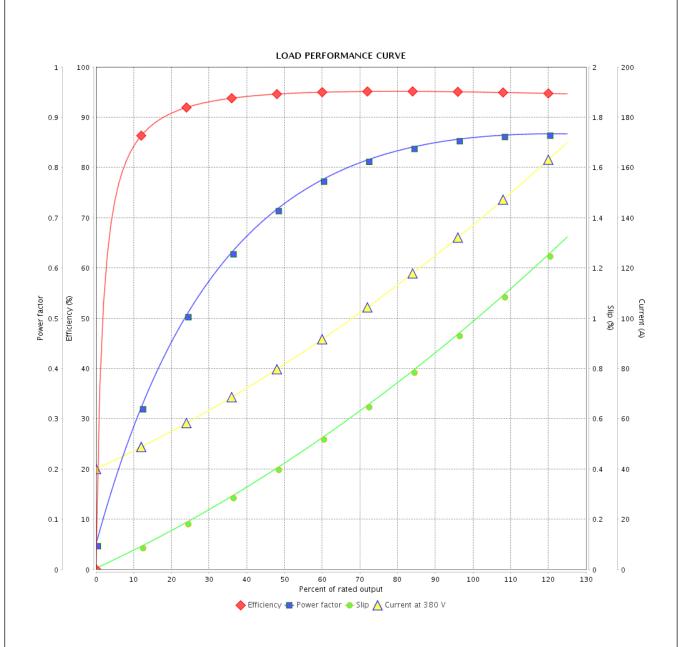
Product line : NEMA Premium Efficiency Three- Product co

Phase

Product code: 11570960

Catalog #: 12518ST3QIERB444T-W2

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Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 139 A : 6.4 : 354 ft.lb : 200 % : 229 %	Moment of Duty cycle Insulation Service fa Temperati	class ctor	: 57.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Rated speed	: 1480 rpm	Design		: B	
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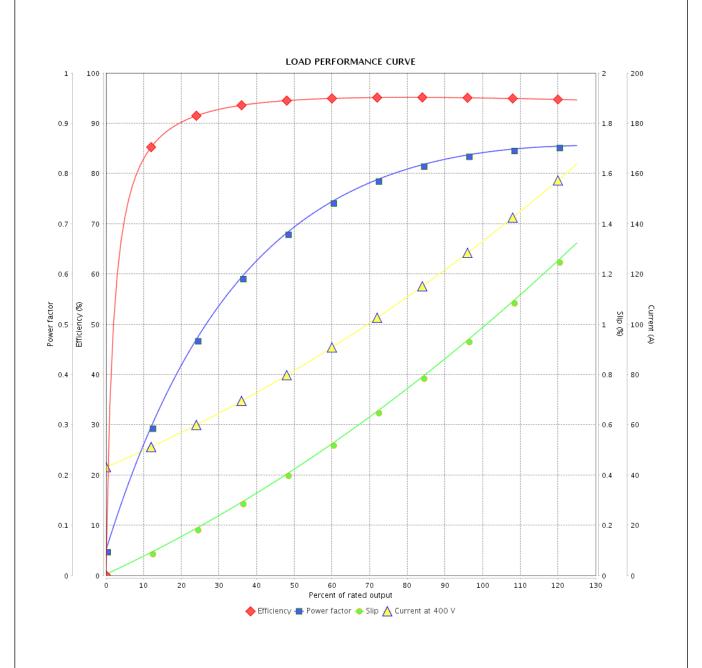


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11570960

Phase

Catalog #: 12518ST3QIERB444T-W2



Performance	: 4	00 V 50 Hz 4P IE3				
Rated current	: 1	36 A	Moment of inertia (J)		: 57.2 sq.ft.lb	
LRC	: 7	. .0	Duty cycle	}	: Cont.(S1)	
Rated torque	: 3	54 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	29 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	.60 %	Temperature rise		: 80 K	
Rated speed	: 1	480 rpm	Design		: B	
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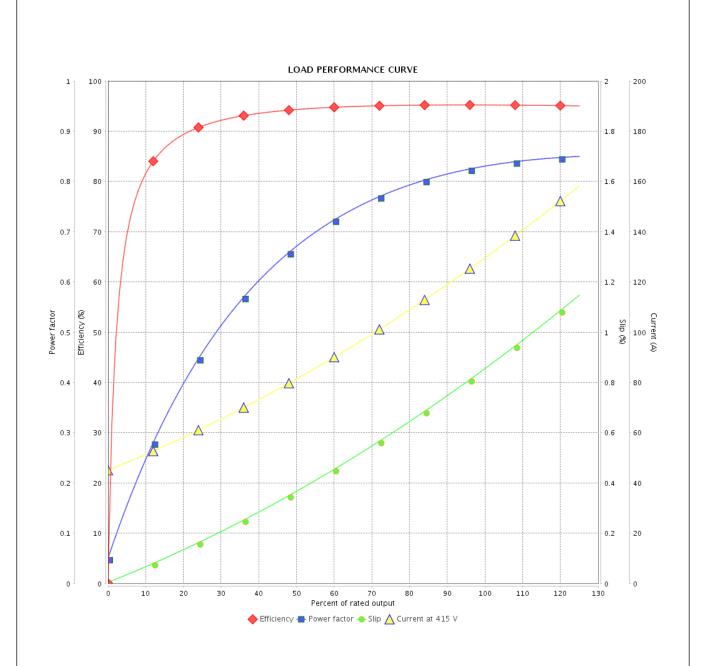
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 12518ST3QIERB444T-W2

11570960

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Performance	: 415 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 132 A : 7.6 : 353 ft.lb : 240 % : 280 % : 1485 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 57.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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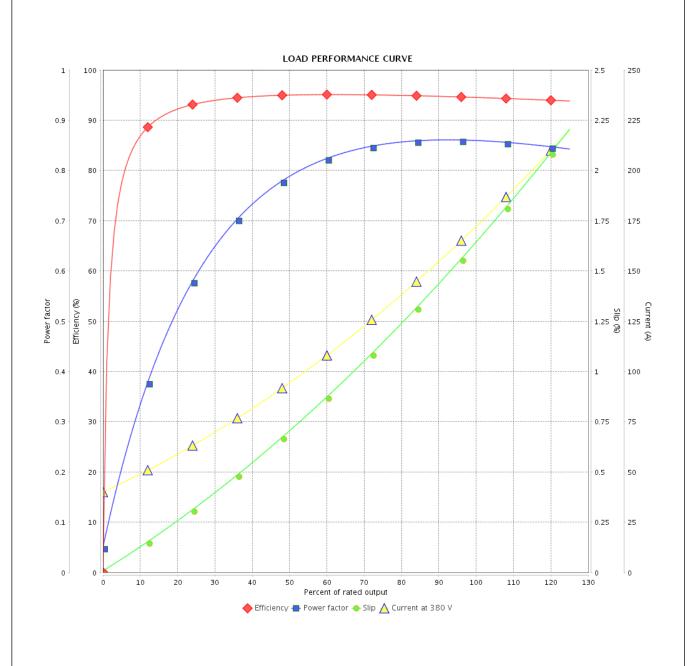


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Product line : NEMA Premium Efficiency Three- Product code : 11570960

Phase

Catalog #: 12518ST3QIERB444T-W2



Performance	:	380 V 50 Hz 4P IE2				
Rated current	:	: 168 A Moment of		f inertia (J)	: 57.2 sq.ft.lb	
LRC	:	5.1	Duty cycle)	: Cont.(S1)	
Rated torque	:	445 ft.lb	Insulation class		: F	
Locked rotor torque	e :	160 %	Service factor		: 1.00	
Breakdown torque	:	180 %	Temperature rise		: 80 K	
Rated speed	:	1475 rpm	Design		: B	
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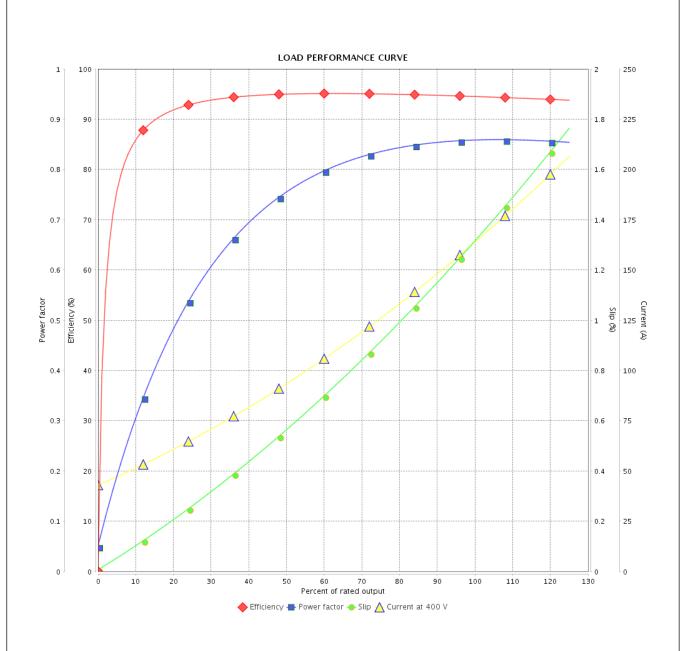
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Phase

Product code: 11570960

Catalog #: 12518ST3QIERB444T-W2

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Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC	: 160 A : 5.7 : 444 ft.lb	Moment of inertia (J) Duty cycle		: 57.2 sq.ft.lb : Cont.(S1) : F	
Rated torque Locked rotor torque Breakdown torque Rated speed	: 444 11.10 : 180 % : 200 % : 1475 rpm	Insulation class Service factor Temperature rise Design		: F : 1.00 : 80 K : B	
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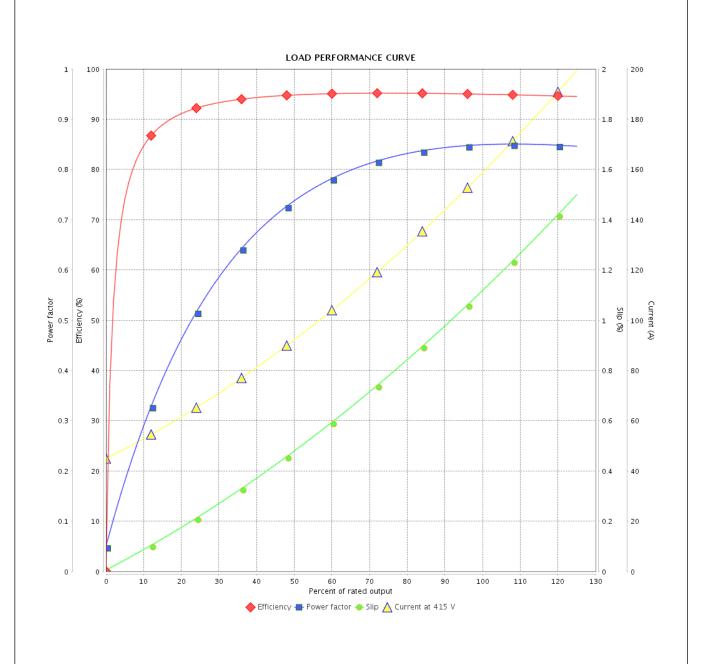


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11570960

Phase

Catalog #: 12518ST3QIERB444T-W2



Performance	: 4	115 V 50 Hz 4P IE2				
Rated current	: 1	55 A	55 A Moment of i		: 57.2 sq.ft.lb	
LRC	: 6	3.2	Duty cycle		: Cont.(S1)	
Rated torque	: 4	143 ft.lb	Insulation class		: F	
Locked rotor torque	e :1	90 %	Service factor		: 1.00	
Breakdown torque	: 2	220 %	% Temperature rise		: 80 K	
Rated speed	: 1	480 rpm	Design		: B	
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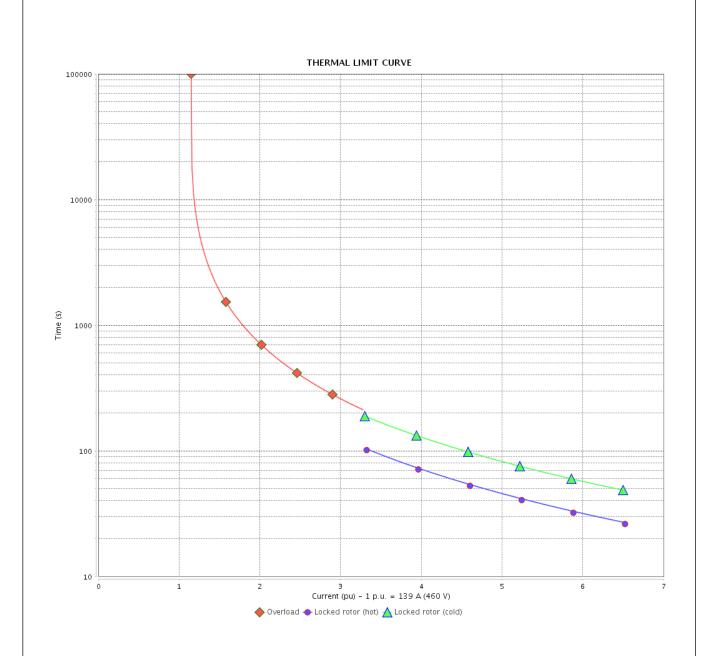


Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	11570960	
		1 11000		Catalog # :	12518ST3QIE	RB444T-W2
Performance		: 460 V 60 Hz 4P		. C C / D	57.0 0.11	
Rated current LRC		: 139 A : 6.5	Duty cycle	of inertia (J) e	: 57.2 sq.ft.lb : Cont.(S1)	
Rated torque		: 368 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 200 % : 229 %	Service fa Temperat		: 1.15 : 80 K	
Rated speed		. 229 % : 1780 rpm	Design	uie lise	: B	
Heating constan			_			
Cooling constant						
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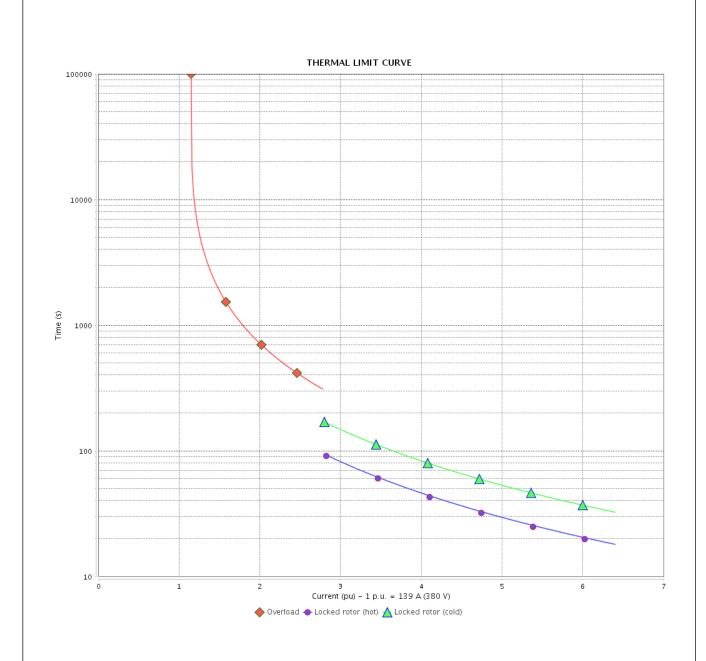


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11570960 12518ST3QIE	RB444T-W2
					12010010412	
Performance		: 380 V 50 Hz 4P IE3				
Rated current LRC		: 139 A : 6.4	Moment of Duty cycle	of inertia (J) e	: 57.2 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torc		: 354 ft.lb : 200 %	Insulation Service fa	class	: F : 1.00	
Breakdown torqu		: 229 %	Temperat		: 80 K	
Rated speed		: 1480 rpm	Design		: B	
Heating constant						
Cooling constant Rev.	l	Changes Summary		Performed	Checked	Date
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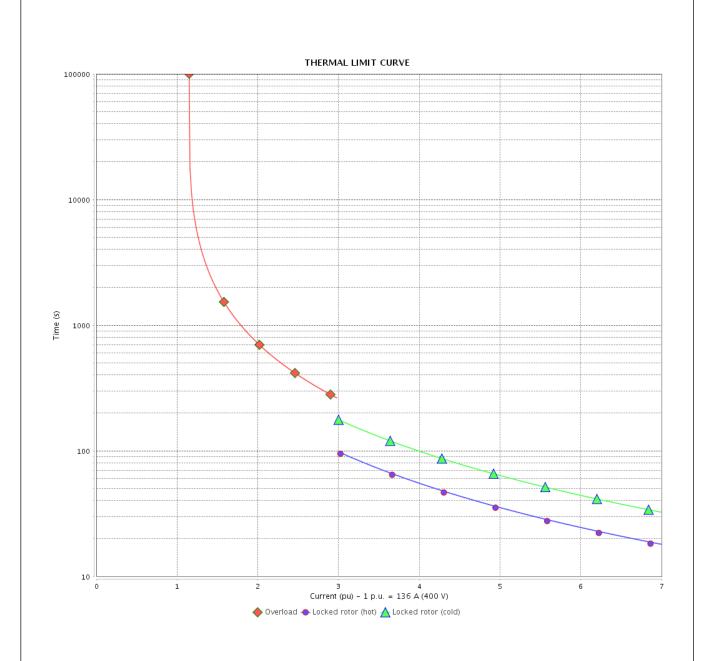


Customer		:				
Product line		: NEMA Premium Efficiency	Three-	Product code :	11570960	
		Phase		Catalog # :	12518ST3QIE	:RR444T-W2
Performance		: 400 V 50 Hz 4P IE3	I			
Rated current LRC		: 136 A : 7.0	Moment of Duty cycle	of inertia (J)	: 57.2 sq.ft.lb : Cont.(S1)	
Rated torque		. 7.0 : 354 ft.lb	Insulation		: F	
Locked rotor tord	que	: 229 %	Service fa	actor	: 1.00	
Breakdown torqu Rated speed		: 260 % : 1480 rpm	Temperat Design	ure rise	: 80 K : B	
			2001911			
Heating constant Cooling constant						
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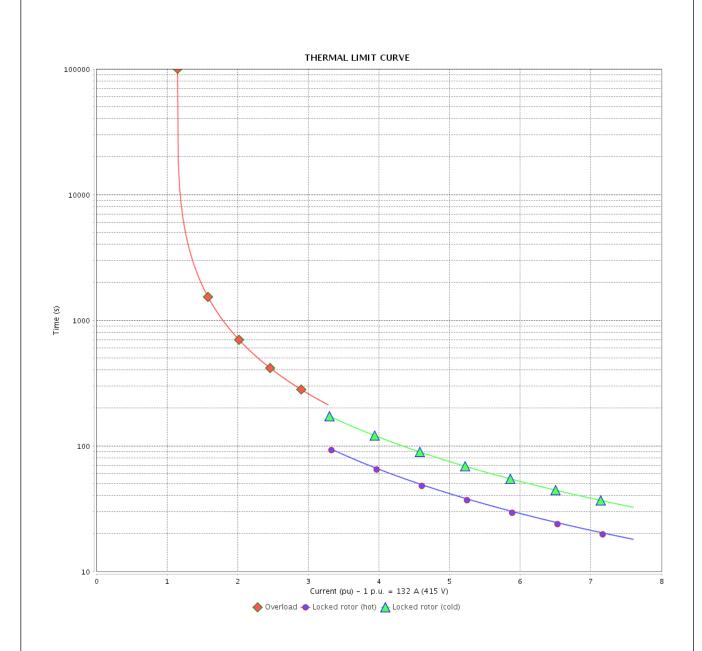


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Product line		: NEMA Premium Efficiency ⁻ Phase		Product code :	11570960 12518ST3QII	ERB444T-W2
				Catalog # .	12316313QI	END444 I - WZ
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed Heating constant Cooling constant	: : : que : : :	415 V 50 Hz 4P IE3 132 A 7.6 353 ft.lb 240 % 280 % 1485 rpm Changes Summary	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 57.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	Date
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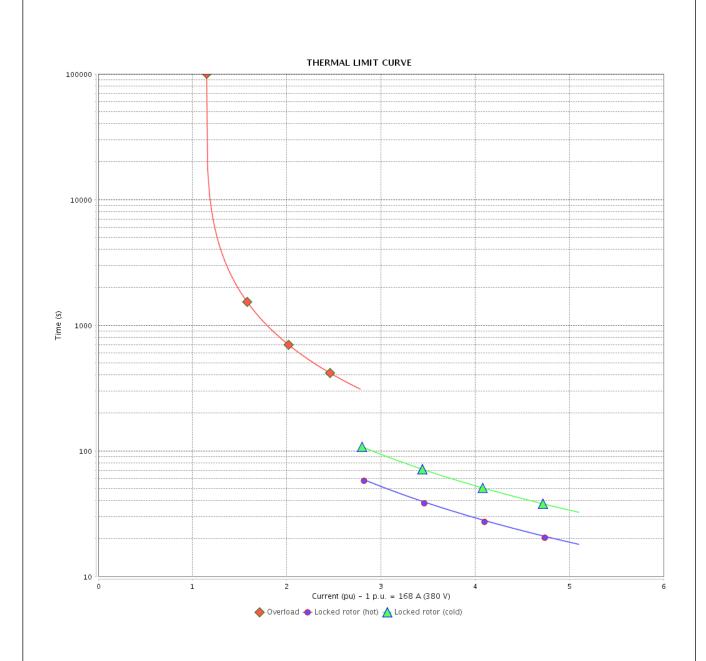


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Product line		NEMA Premium Efficiency Thase		Product code :	11570960 12518ST3QII	ERB444T-W2
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Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 1 : 5 : 4 ue : 1 e : 1	45 ft.lb 60 % 80 %	Moment of Duty cycle Insulation Service far Temperatu	class	: 57.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Rated speed Heating constant Cooling constant		475 rpm	Design		: B	
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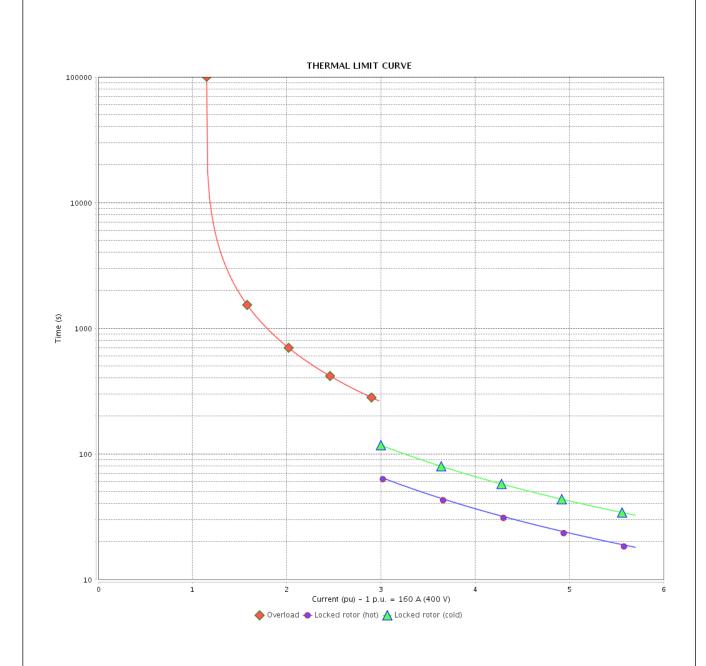


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Customer	:				
Product line	: NEMA Premium Efficiency ⁻ Phase		Product code :	11570960	
			Catalog # :	12518ST3QII	ERB444T-W2
Performance	: 400 V 50 Hz 4P IE2				
LRC Rated torque Locked rotor torque Breakdown torque	: 160 A : 5.7 : 444 ft.lb : 180 % : 200 % : 1475 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 57.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Heating constant					
Cooling constant	Changes Cummer:		Dorformad	Chaoland	Doto
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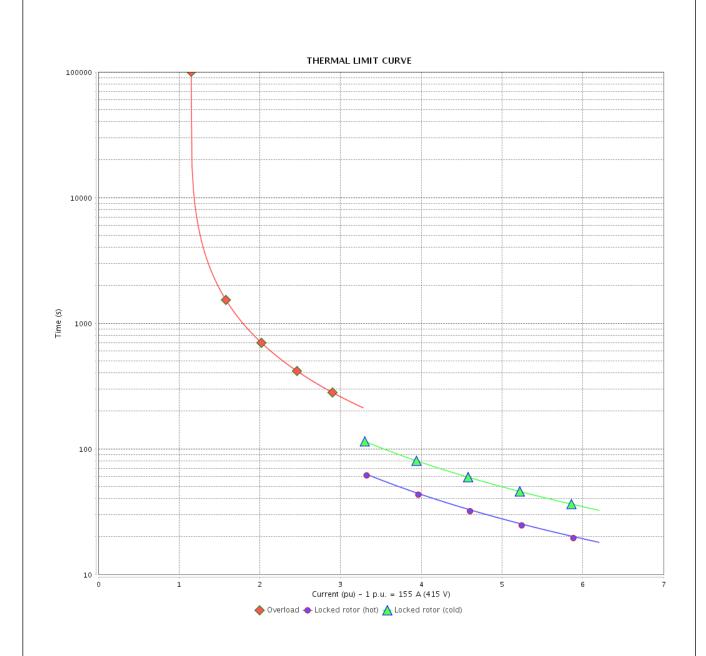


Customer		:				
Product line		: NEMA Premium Efficiency	Three-	Product code :	11570960	
		Phase		Catalog # :	12518ST3QIE	DDAAAT WO
Performance		: 415 V 50 Hz 4P IE2	T			
Rated current LRC		: 155 A : 6.2	Moment of Duty cycle	of inertia (J)	: 57.2 sq.ft.lb : Cont.(S1)	
Rated torque		: 443 ft.lb	Insulation		: F	
Locked rotor tord		: 190 %	Service fa		: 1.00	
Breakdown torqu Rated speed		: 220 % : 1480 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constan		r				
Cooling constant						
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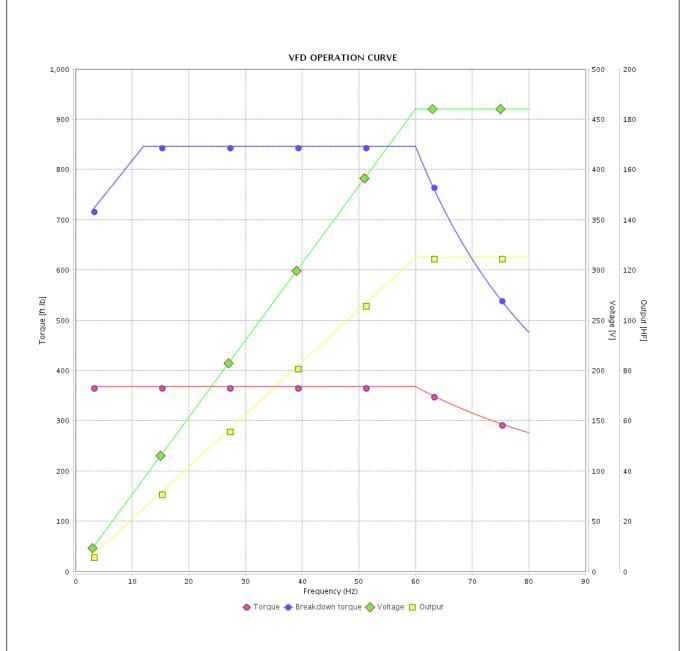
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Phase

Product code: 11570960

Catalog #: 12518ST3QIERB444T-W2

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	·				
Performance	: 460 V 60 Hz 4P				
Rated current	: 139 A	Moment of	Moment of inertia (J)		
LRC	: 6.5	Duty cycle	;	: Cont.(S1)	
Rated torque	: 368 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 200 %	Service factor		: 1.15	
Breakdown torque	: 229 %	Temperature rise		: 80 K	
Rated speed	: 1780 rpm	Design		: B	
Rev.	Rev. Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



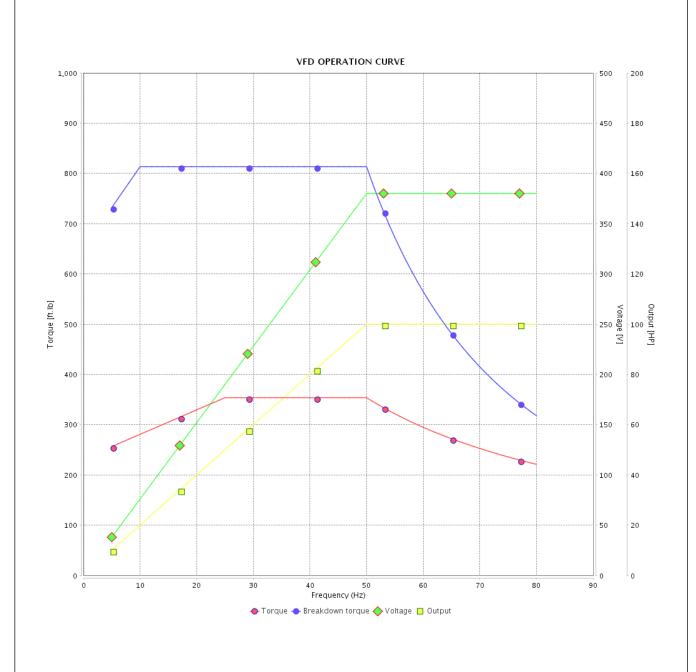
Customer

Product line : NEMA Premium Efficiency Three- Product code :

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11570960



Performance	: 3	80 V 50 Hz 4P IE3				
Rated current	: 1	39 A	Moment o	f inertia (J)	J) : 57.2 sq.ft.lb	
LRC	: 6	.4	Duty cycle)	: Cont.(S1)	
Rated torque	: 3	54 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	00 %	Service fa	ctor	: 1.00	
Breakdown torque		29 %	Temperature rise		: 80 K	
Rated speed	: 1	480 rpm	Design		: B	
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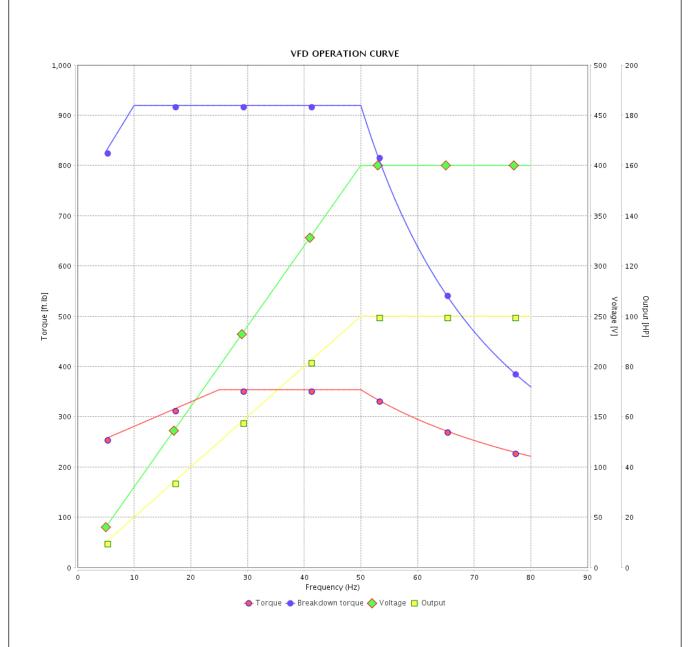
Product line : NEMA Premium Efficiency Three- Product code :

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Performance	: 400 V 50 Hz 4P IE3			
Rated current LRC	: 136 A : 7.0	Moment of inertia (J) Duty cycle	: 57.2 sq.ft.lb : Cont.(S1)	
Rated torque	: 354 ft.lb	Insulation class	: F ` ´	
Locked rotor torque Breakdown torque		Service factor Temperature rise	: 1.00 : 80 K	
Rated speed	: 1480 rpm	Design	: B	
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Three Phase Induction Motor - Squirrel Cage

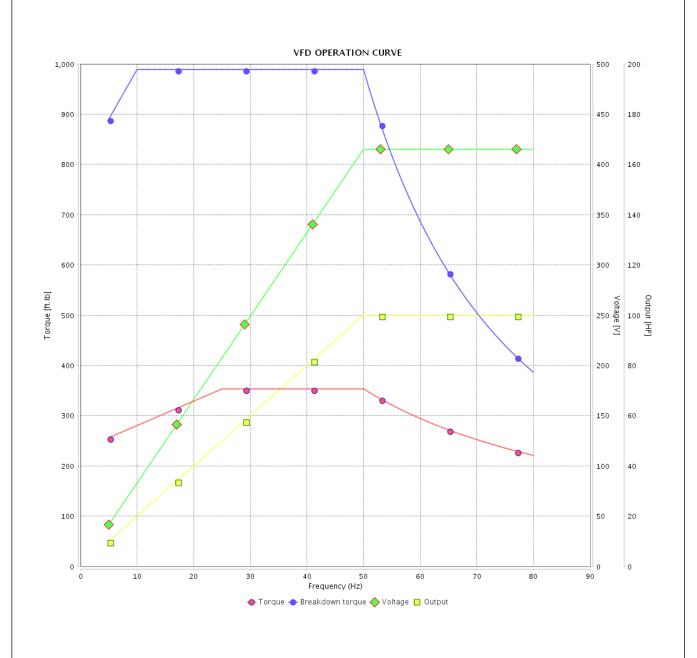


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11570960

Phase

Catalog #: 12518ST3QIERB444T-W2



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	: 1	32 A	Moment o	f inertia (J)	: 57.2 sq.ft.lb	
LRC	: 7	.6	Duty cycle	:	: Cont.(S1)	
Rated torque	: 3	53 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2	40 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 2	80 %	Temperature rise		: 80 K	
Rated speed	: 1	485 rpm	Design		: B	
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Customer :

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Product line : NEMA Premium Efficiency Three-

Phase

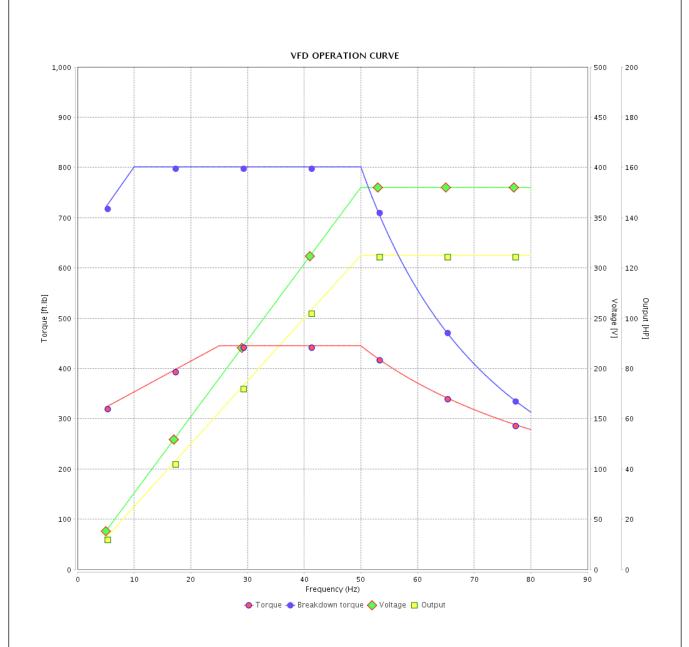
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Revision



Performance : 380 V 50 Hz 4P IE2 : 168 A Rated current Moment of inertia (J) : 57.2 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.1 : 445 ft.lb Insulation class Rated torque : F Locked rotor torque : 160 % Service factor : 1.00 Breakdown torque : 180 % Temperature rise : 80 K Rated speed : 1475 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage

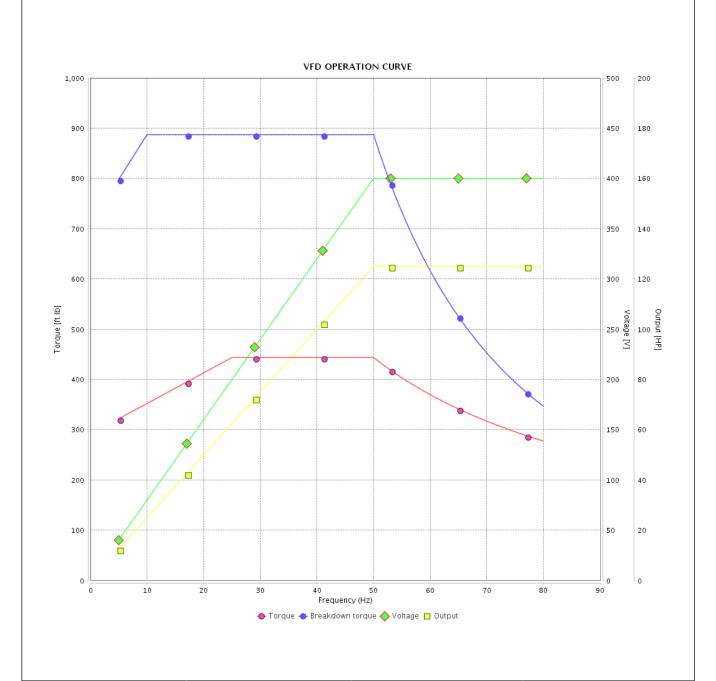


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11570960

Phase

Catalog #: 12518ST3QIERB444T-W2



Performance	:	400 V 50 Hz 4P IE2				
Rated current : 160 A		Moment o	Moment of inertia (J)			
LRC	:	5.7	Duty cycle	;) : 57.2 sq.ft.lb : Cont.(S1)	
Rated torque	:	444 ft.lb	Insulation	class	: F	
Locked rotor torque		180 %	Service fa	ctor	: 1.00	
Breakdown torque	e :	: 200 % Temperature ris		ıre rise : 80 K		
Rated speed	:	1475 rpm	Design		: B	
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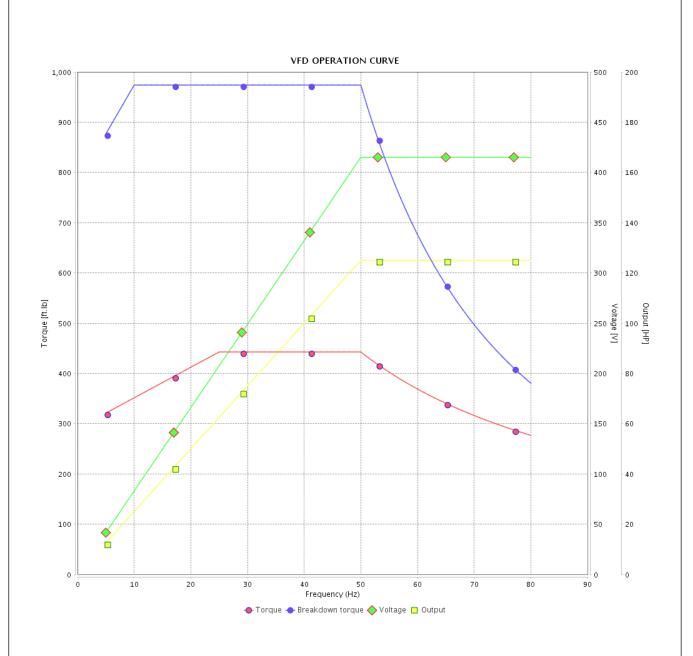
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11570960

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Performance	: 415 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 155 A : 6.2 : 443 ft.lb : 190 % : 220 % : 1480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 57.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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