### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11431379

Phase

Catalog #: 12518ST3QIE444T-W22

Frame : 444/5T 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. weight<sup>a</sup> : 1556 lb

Protection degree : IP55 Moment of inertia (J) : 57.2 sq ft lb

/ tititude		. 1000 III.a.	J.I.	/ Approx	. weigit		000 10	
Protection degre	е	: IP55		Momer	nt of inertia (J)	) : 5	7.2 sq.ft.lb	
Design		: B						
Output [HP]		125	100	100	100	125	125	125
Poles		4	4	4	4	4	4	4
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		460	380	400	415	380	400	415
Rated current [A]		139	139	136	132	168	160	155
L. R. Amperes [A]		904	890	952	1003	857	912	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 [RPN	Л]	1785	1485	1485	1487	1475	1480	1483
Slip [%]		0.83	1.00	1.00	0.87	1.67	1.33	1.13
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	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		48s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)
		27s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)
Noise level <sup>2</sup>		73.0 dB(A)	69.0 dB(A)	69.0 dB(A)	69.0 dB(A)	69.0 dB(A)	69.0 dB(A)	69.0 dB(A)
	25%							
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%							
Dower Footer	50%	0.74	0.73	0.69	0.67	0.79	0.76	0.74
Power Factor	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

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

Bearing type : 6319 C3 6316 C3 Max. traction : 1817 lb Sealing : Inpro/Seal Inpro/Seal Max. compression : 3374 lb

Lubrication interval:8000 h10000 hLubricant amount:45 g34 gLubricant 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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#### Three Phase Induction Motor - Squirrel Cage



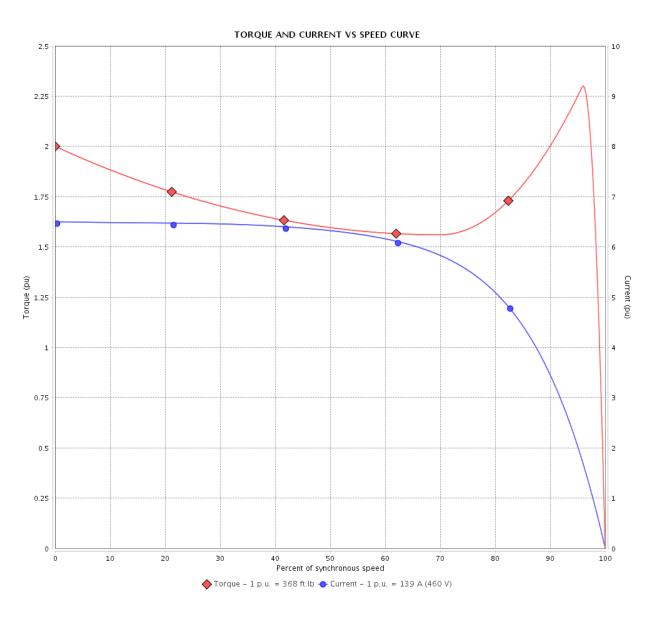
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11431379

Catalog #: 12518ST3QIE444T-W22



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) : F Insulation class Rated torque : 368 ft.lb Service factor Locked rotor torque : 200 % : 1.15 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1785 rpm Design : B

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

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#### Three Phase Induction Motor - Squirrel Cage

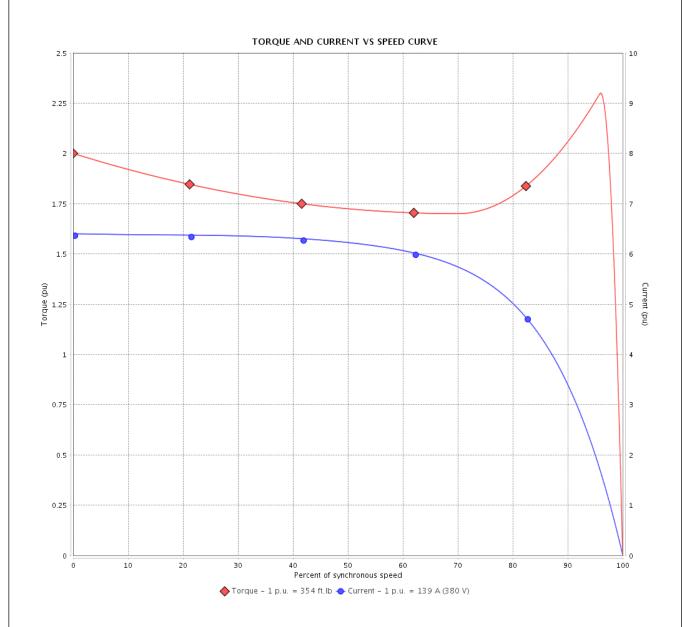


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11431379

Phase

Catalog #: 12518ST3QIE444T-W22



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)	
Rated torque	: 354 ft.lb	Insulation class	:F	
Locked rotor torque	: 200 %	Service factor	: 1.00	
Breakdown torque	: 229 %	Temperature rise	: 80 K	
Rated speed	: 1485 rpm	Design	: B	
Locked rotor time	: 32s (cold) 18s (hot)			

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

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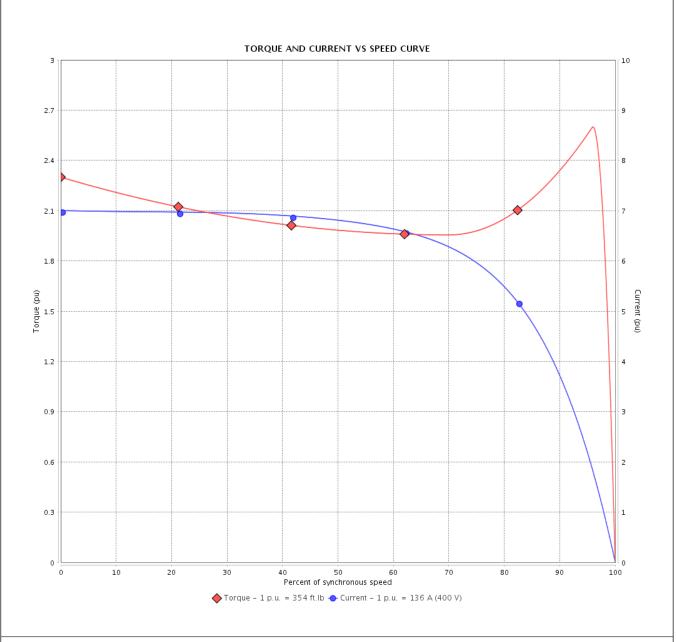
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11431379

Catalog #: 12518ST3QIE444T-W22



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 : 1485 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: 11431379 Catalog #: 12518ST3QIE444T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Torque (pu) 1.2 0.6 0.3 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 Rated current : 132 A Moment of inertia (J) : 57.2 sq.ft.lb **LRC** : 7.6 Duty cycle : Cont.(S1) : 353 ft.lb Insulation class : F Rated torque : 240 % : 1.00 Locked rotor torque Service factor : 80 K Breakdown torque : 280 % Temperature rise : B Rated speed : 1487 rpm Design

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

LOCKCO TOTOL TITLE		23 (cold) 103 (1101)			
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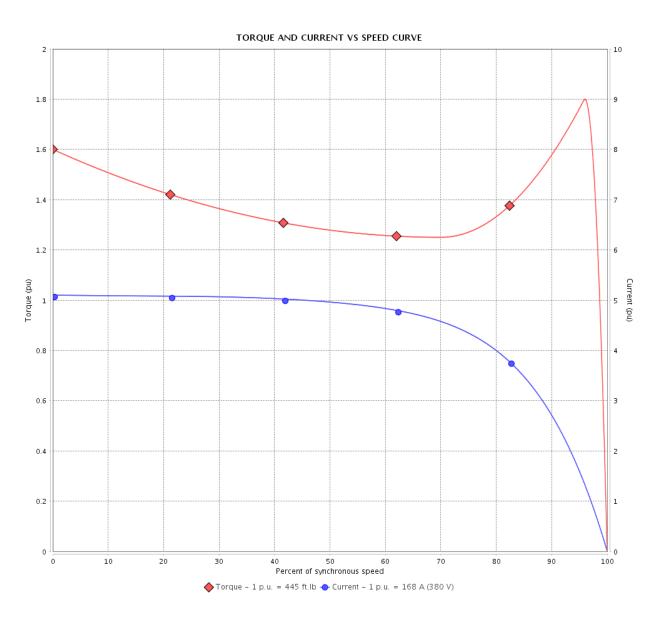


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11431379

Phase

Catalog #: 12518ST3QIE444T-W22



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)
Rated torque	: 445 ft.lb	Insulation class	: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: 11431379 Catalog #: 12518ST3QIE444T-W22 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 Insulation class Rated torque : F : 180 % Locked rotor torque Service factor : 1.00 Breakdown torque : 200 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B Locked rotor time : 32s (cold) 18s (hot) Date Rev. Performed Checked **Changes Summary** 

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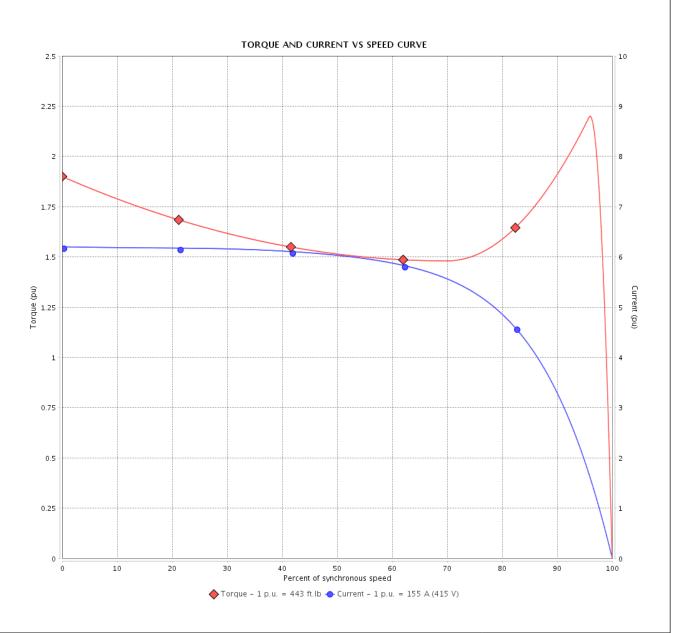


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11431379

Phase

Catalog #: 12518ST3QIE444T-W22



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 : 1483 rpm Design : B

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

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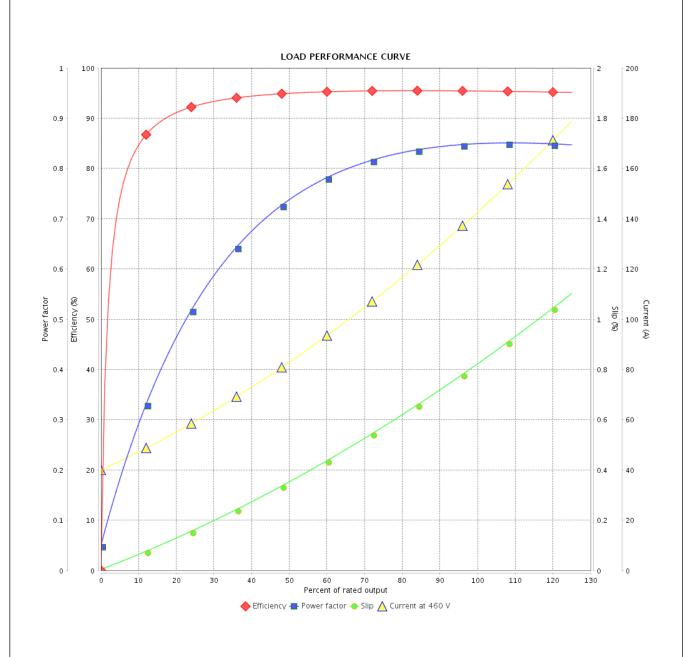
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Performance	: 460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 139 A : 6.5 : 368 ft.lb : 200 % : 229 % : 1785 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: Cont.(S1) : F : 1.15	
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#### Three Phase Induction Motor - Squirrel Cage



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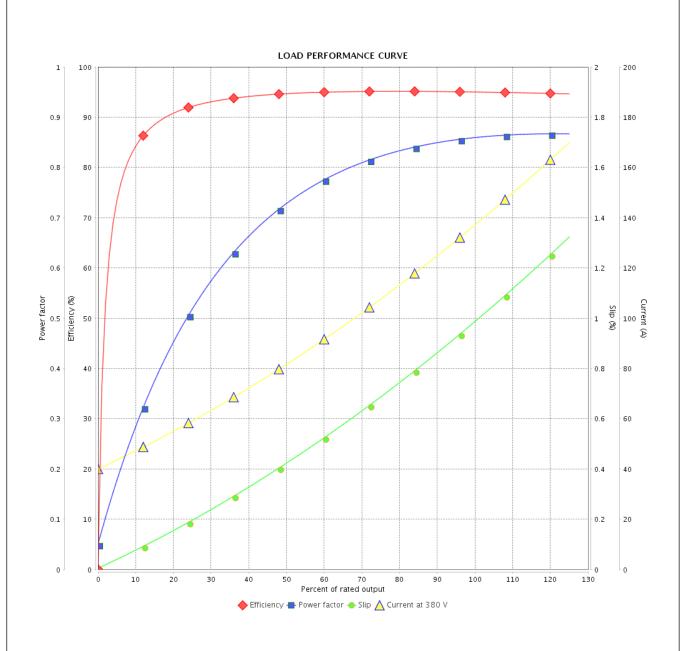
Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11431379

Catalog #: 12518ST3QIE444T-W22

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Performance	: 3	80 V 50 Hz 4P IE3	3			
Rated current	: 1	39 A		Moment of inertia (J)		
LRC	: 6	.4	Duty cycle		: Cont.(S1)	
Rated torque		54 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 2	00 %	Service fa	ctor	: 1.00	
Breakdown torqu	ie : 2	29 %	Temperature rise Design		: 80 K	
Rated speed	: 1	485 rpm			: B	
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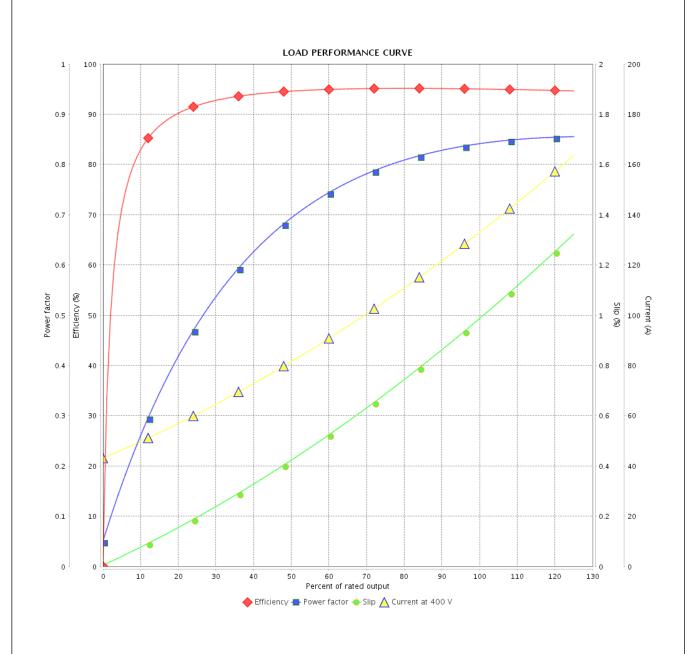
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Performance	: 400	V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	ue : 229 e : 260	4 ft.lb 9 %	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 57.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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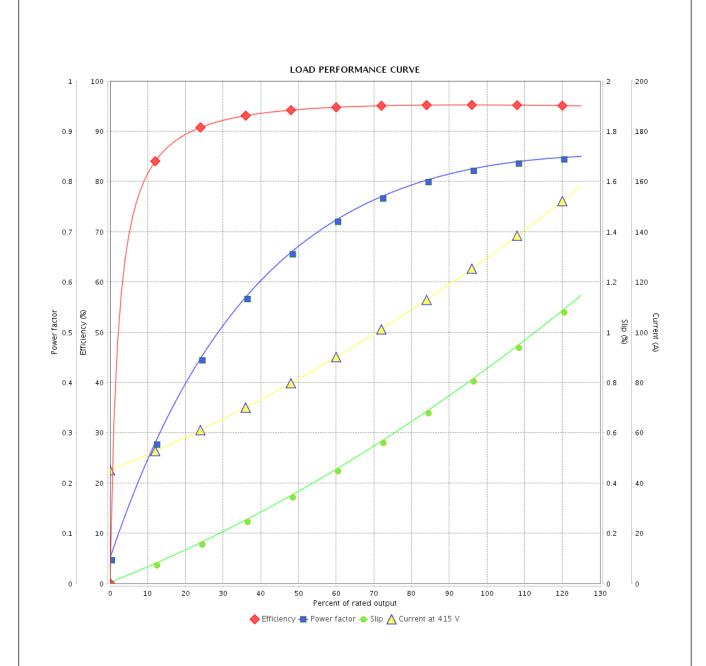
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Performance	:	415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : : : : : : :	132 A 7.6 353 ft.lb 240 % 280 % 1487 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 57.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage

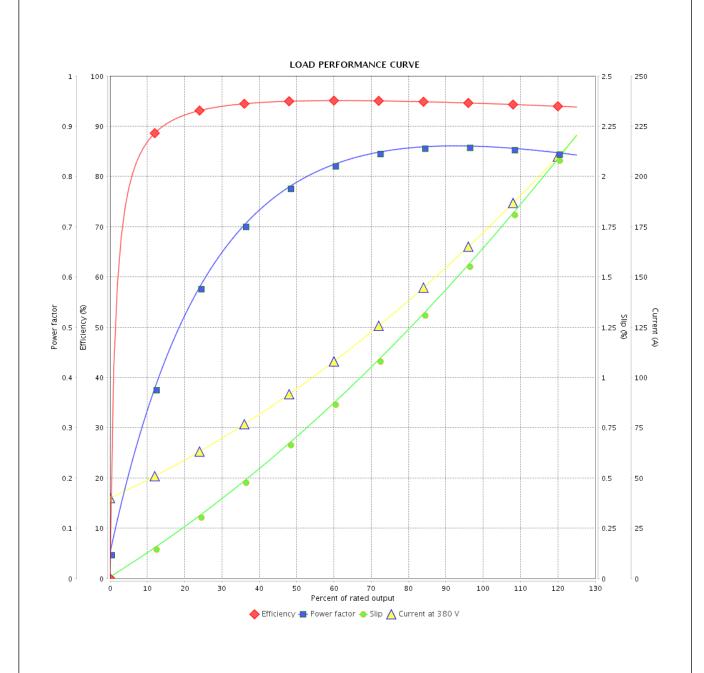


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431379

Phase

Catalog #: 12518ST3QIE444T-W22



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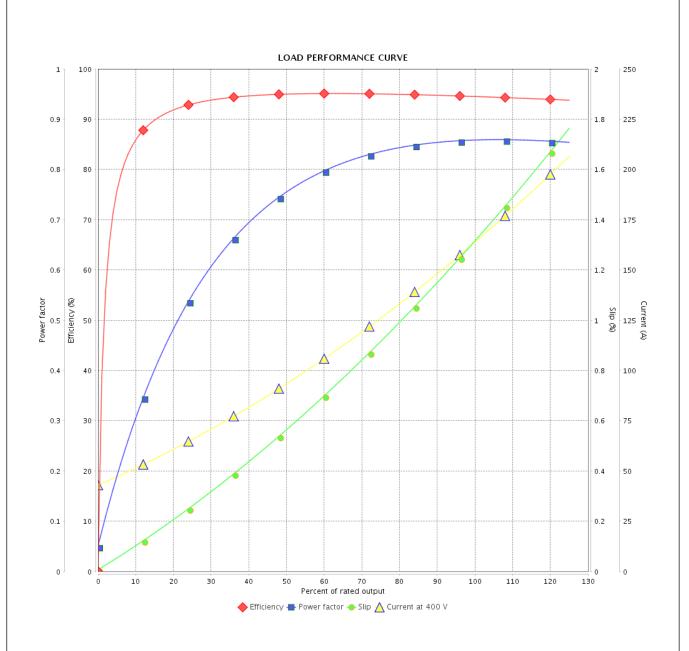


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 11431379

Catalog #: 12518ST3QIE444T-W22



			<u> </u>			
Performance	mance : 400 V 50 Hz 4P IE2					
Rated current : 1		60 A	0 A Moment of inertia (J)		: 57.2 sq.ft.lb	
LRC	: 5	5.7	Duty cycle	9	: Cont.(S1)	
Rated torque : 4		44 ft.lb	Insulation	class	: F	
· · · · · · · · · · · · · · · · · · ·		80 %	Service fa	actor	: 1.00	
Breakdown torqu	ıe : 2	0 % Temperature rise		ure rise	: 80 K	
Rated speed	: 1	480 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage

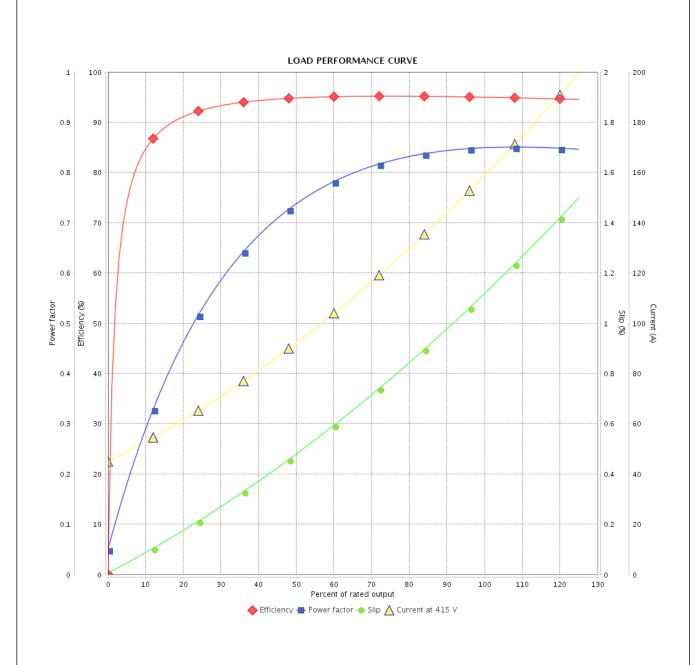


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431379

Phase

Catalog #: 12518ST3QIE444T-W22



Performance	: 4	15 V 50 Hz 4P IE2				
Rated current	Rated current : 155 A		Moment o	f inertia (J)	: 57.2 sq.ft.lb	
LRC	: 6	.2	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 4	43 ft.lb	Insulation	class	: F	
Locked rotor torqu	e :1	90 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	20 %	Temperature rise		: 80 K	
Rated speed	: 1	483 rpm	Design		: B	
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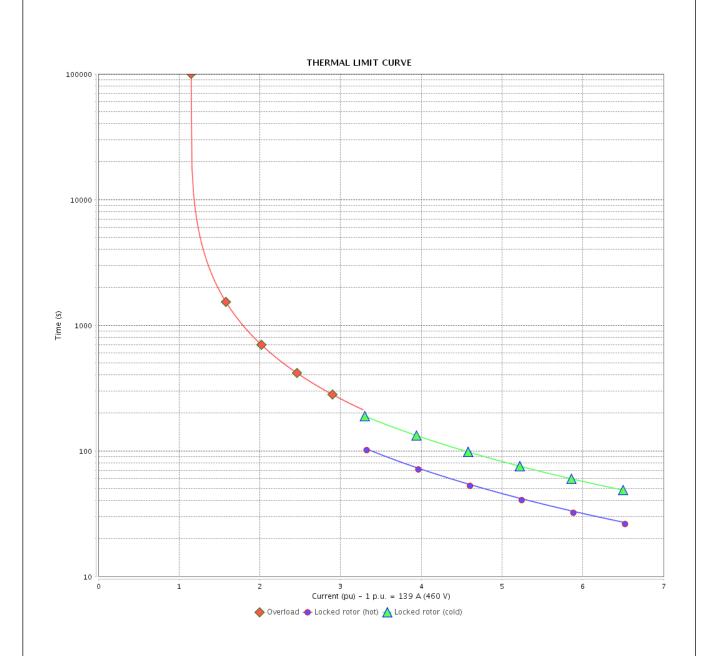


Customer	:				
Product line	: NEMA Premium Efficie Phase		Product code : Catalog # :	11431379 12518ST3QIE	E444T-W22
					-777   70022
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 460 V 60 Hz 4P : 139 A : 6.5 : 368 ft.lb : 200 % : 229 % : 1785 rpm	Moment of Duty cycle Insulation Service fa Temperation Design	class ictor	: 57.2 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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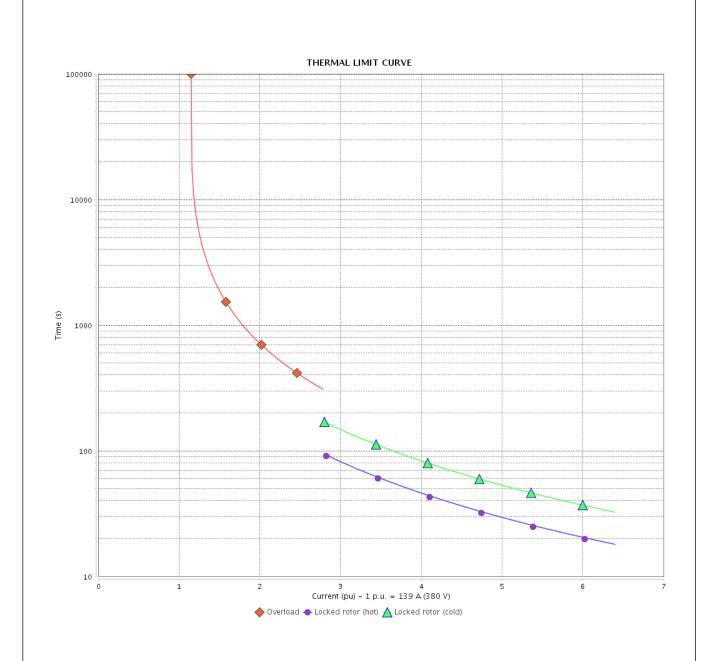


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	11431379	
	P	hase		Catalog # :	12518ST3QIE	444T-W22
Performance	: 38	30 V 50 Hz 4P IE3				
Rated current LRC	: 13 : 6.	39 A	Moment o	f inertia (J)	: 57.2 sq.ft.lb	
Rated torque	: 38	54 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torque		00 % 29 %	Service fa Temperati		: 1.00 : 80 K	
Breakdown torque Rated speed		185 rpm	Design	are rise	: B	
Heating constant						
Cooling constant						
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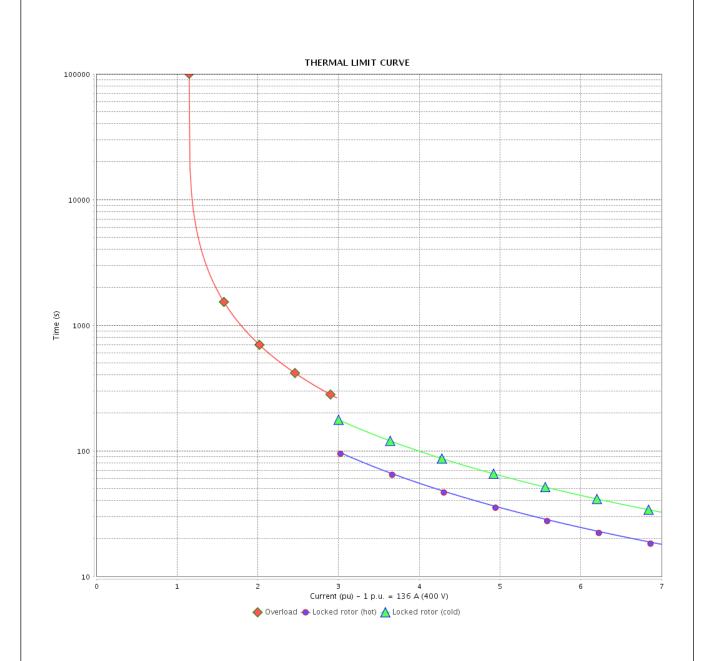


Customer	:			
Product line	: NEMA Premium Efficiency T		11431379	-444T W22
		Catalog # :	12518ST3QII	<u> </u>
Performance	: 400 V 50 Hz 4P IE3			
Rated current	: 136 A	Moment of inertia (J)	: 57.2 sq.ft.lb	
LRC	: 7.0	Duty cycle	: Cont.(S1)	
Rated torque	: 354 ft.lb : 229 %	Insulation class Service factor	: F : 1.00	
Locked rotor torque Breakdown torque	: 229 % : 260 %	Temperature rise	: 1.00 : 80 K	
Rated speed	: 1485 rpm	Design	: B	
Heating constant				
Cooling constant				
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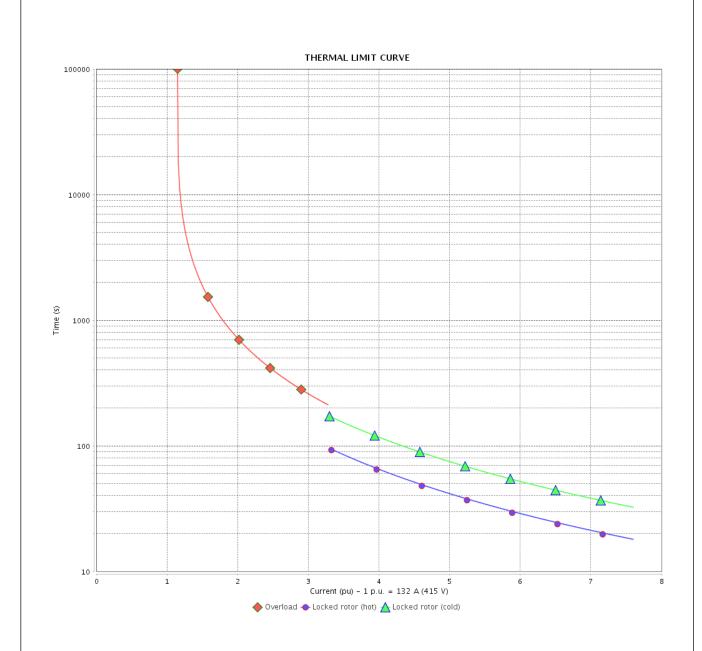


Customer	:				
Product line	: NEMA Premium Efficiency Phase	/ Three-	Product code :	11431379	
			Catalog # :	12518ST3QI	E444T-W22
Performance	: 415 V 50 Hz 4P IE3				
Rated current	: 132 A	Moment o	of inertia (J)	: 57.2 sq.ft.lb	
LRC	: 7.6 : 353 ft lb	Duty cycle		: Cont.(S1)	
Rated torque Locked rotor torque	: 353 ft.lb : 240 %	Insulation Service fa		: F : 1.00	
Breakdown torque	: 280 %	Temperat		: 80 K	
Rated speed	: 1487 rpm	Design		: B	
Heating constant					
Cooling constant			,		
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### Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage

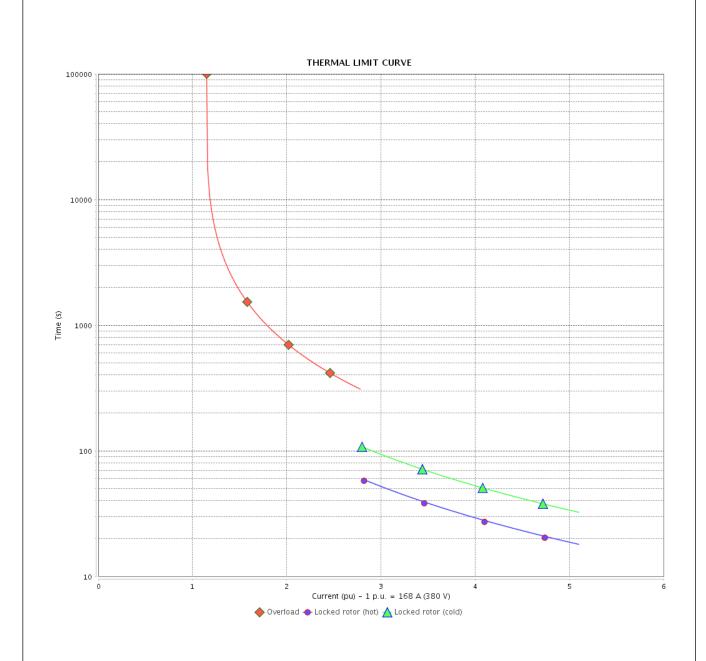


Customer		:				
Product line		: NEMA Premium Efficiency	Three-	Product code :	11431379	
1 Toddot IIITo		Phase				
				Catalog # :	12518ST3QIE	:4441-W22
Performance		: 380 V 50 Hz 4P IE2				
Rated current		: 168 A	Moment of	of inertia (J)	: 57.2 sq.ft.lb	
LRC		: 5.1 : 445 ft.lb	Duty cycle Insulation		: Cont.(S1)	
Rated torque Locked rotor torq		: 445 π.id : 160 %	Service fa		: F : 1.00	
Breakdown torqu	ie	: 180 %	Temperat		: 80 K	
Rated speed		: 1475 rpm	Design		: B	
Heating constant						
Cooling constant	<u> </u>					
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### Three Phase Induction Motor - Squirrel Cage



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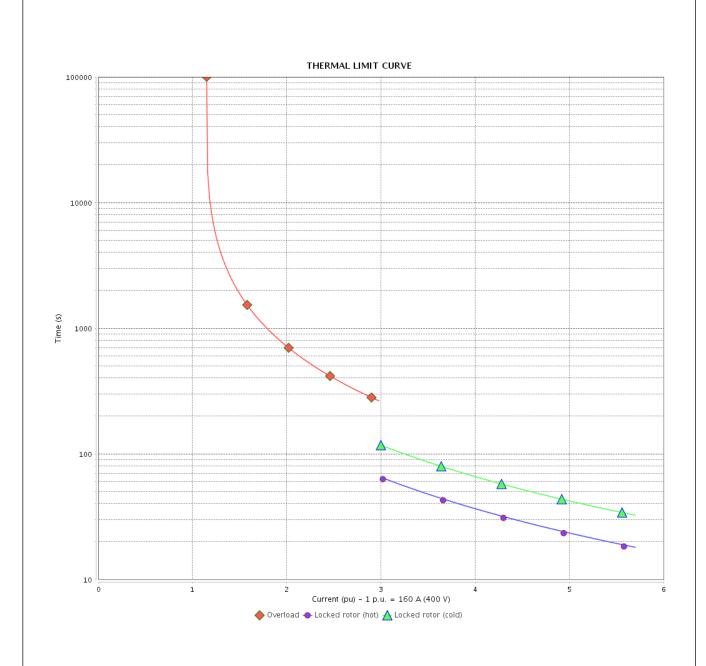


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Product line		: NEMA Premium Efficiency Phase		Product code :	11431379	
				Catalog # :	12518ST3QIE	444T-W22
Performance		: 400 V 50 Hz 4P IE2				
Rated current		: 160 A	Moment of	of inertia (J)	: 57.2 sq.ft.lb	
LRC Rated torque		: 5.7 : 444 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord		: 180 %	Service fa		. r : 1.00	
Breakdown torqu	ie	: 200 %	Temperat		: 80 K	
Rated speed		: 1480 rpm	Design		: B 	
Heating constant						
Cooling constant	t 	Changas Cummani		Performed	Checked	Doto
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### Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage

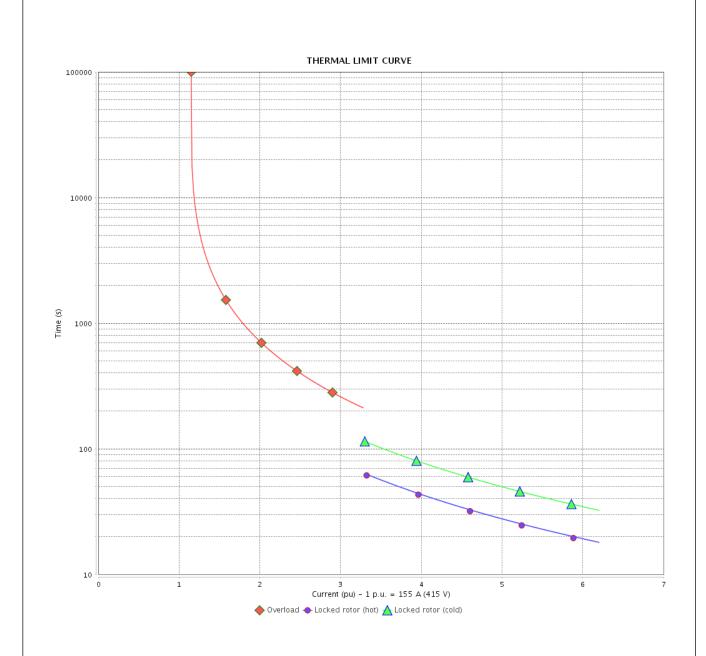


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	11431379 12518ST3QIE	444T-W22
Performance	: 415 V 50 Hz 4P IE2	T			
Rated current LRC Rated torque	: 155 A : 6.2 : 443 ft.lb : 190 %	Moment of Duty cycle Insulation Service fa	class	: 57.2 sq.ft.lb : Cont.(S1) : F	
Locked rotor torque Breakdown torque Rated speed	: 220 % : 1483 rpm	Temperatu Design		: 1.00 : 80 K : B	
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



Customer



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#### Three Phase Induction Motor - Squirrel Cage



Customer :

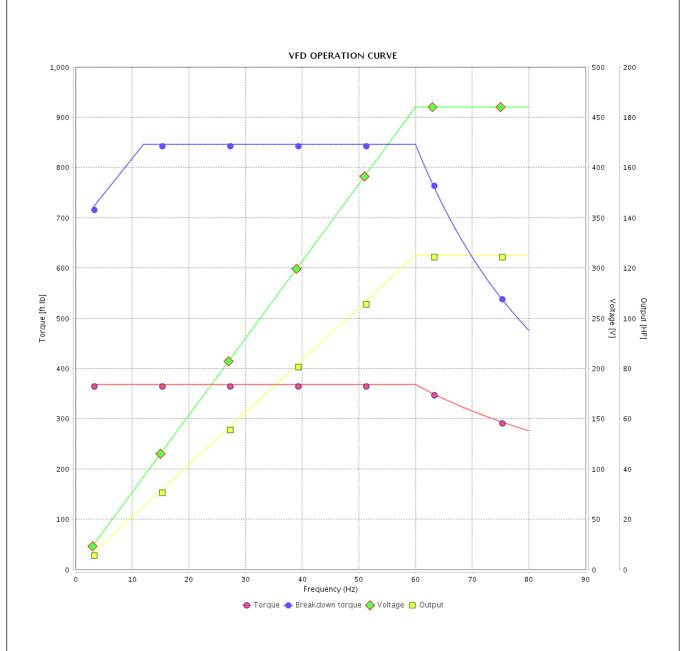
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11431379

Catalog #: 12518ST3QIE444T-W22

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Performance	: 460 V 60 Hz 4P				
Rated current			` '	: 57.2 sq.ft.lb	
LRC	: 6.5	Duty cycle		: Cont.(S1)	
Rated torque Locked rotor torque	: 368 ft.lb : 200 %	Insulation		: F : 1.15	
Breakdown torque	: 229 %	Service factor Temperature rise		: 80 K	
Rated speed	: 1785 rpm	Design		: B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
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Date

#### Three Phase Induction Motor - Squirrel Cage

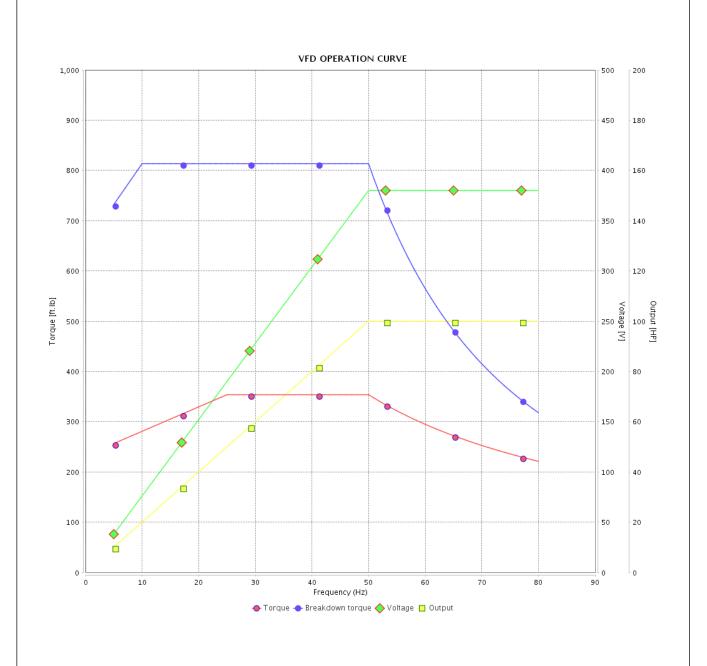


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431379

Phase

Catalog #: 12518ST3QIE444T-W22



Performance	: 3	380 V 50 Hz 4P IE3				
Rated current	: ′	139 A	9 A Moment of inertia (J)		: 57.2 sq.ft.lb	
LRC	: 6	6.4	Duty cycle	;	: Cont.(S1)	
Rated torque	: 3	354 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	200 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	229 %	% Temperature rise		: 80 K	
Rated speed	: '	1485 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

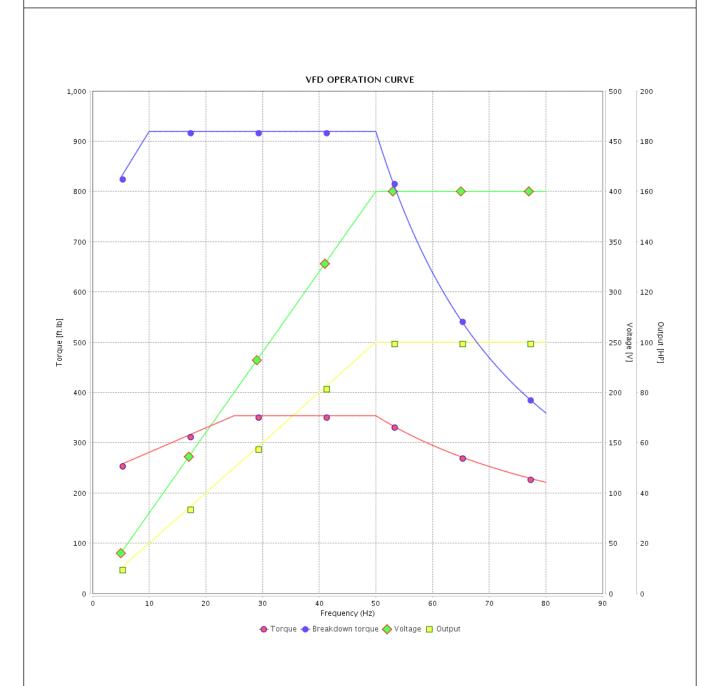
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 12518ST3QIE444T-W22

11431379

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					<u> </u>	
Performance	: 40	00 V 50 Hz 4P IE3				
Rated current	: 1:	36 A	6 A Moment of inertia (J)		: 57.2 sq.ft.lb	
LRC	: 7.	.0	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 3	54 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 2:	29 %	Service fa	ctor	: 1.00	
Breakdown torqu	ie : 20	60 %	Temperati	ıre rise	: 80 K	
Rated speed	: 14	485 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage

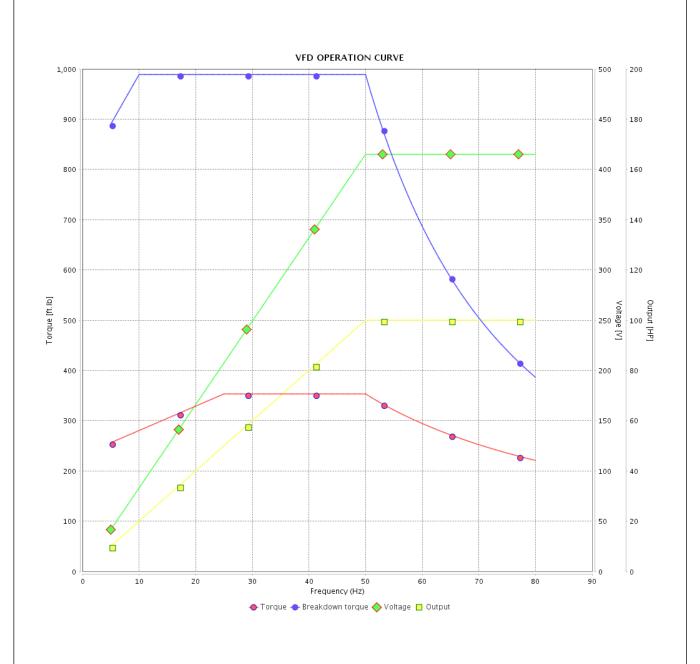


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431379

Phase

Catalog #: 12518ST3QIE444T-W22



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	: 1	22 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	ie : 2	40 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	80 %	0 % Temperature rise		: 80 K	
Rated speed	: 1	487 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

Date

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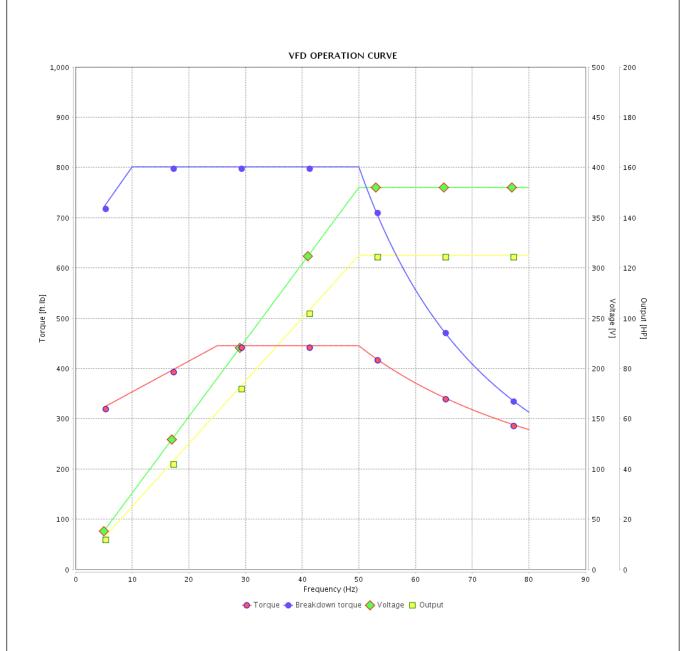
Product line : NEMA Premium Efficiency Three- P

Phase

Product code: 11431379

Catalog #: 12518ST3QIE444T-W22

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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 Page Checked by Revision

#### Three Phase Induction Motor - Squirrel Cage

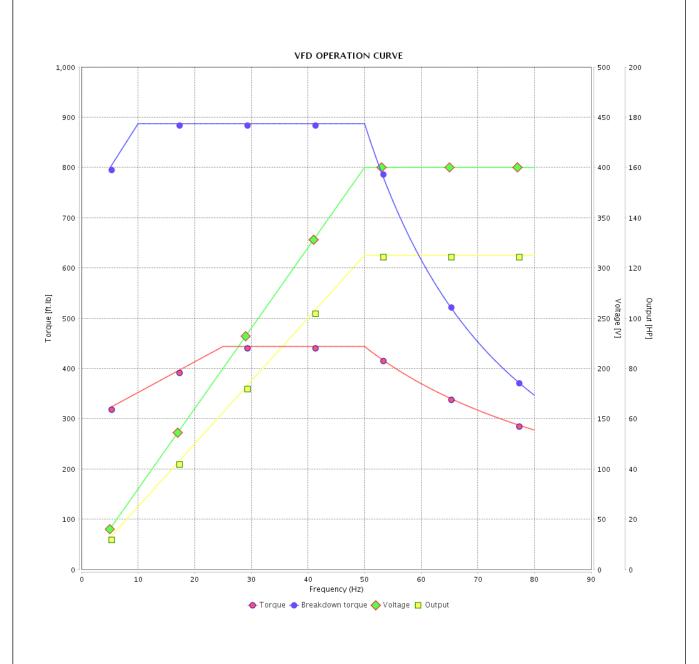


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431379

Phase

Catalog #: 12518ST3QIE444T-W22



Performance	: 4	400 V 50 Hz 4P IE2				
Rated current	: '	: 160 A Moment of inertia (J)		f inertia (J)	: 57.2 sq.ft.lb	
LRC	: 5	5.7	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 4	444 ft.lb	Insulation	class	:F	
Locked rotor torque	e : <i>'</i>	180 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	200 %	Temperature rise		: 80 K	
Rated speed	: '	1480 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



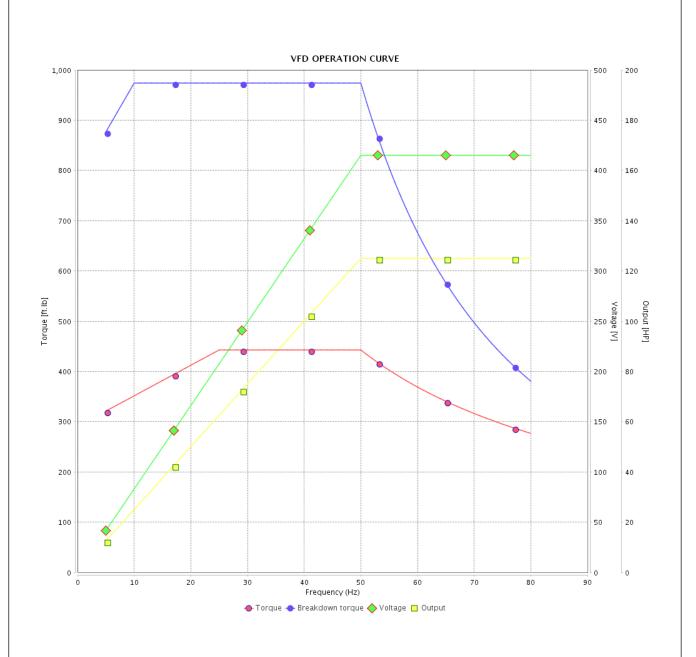
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11431379

Catalog #: 12518ST3QIE444T-W22



Performance	: 4	15 V 50 Hz 4P IE2					
Rated current	: 1	55 A	Moment o	Moment of inertia (J)		: 57.2 sq.ft.lb	
LRC	: 6.	.2 Duty cycle		: Cont.(S1)			
Rated torque	: 44	43 ft.lb Insulation class		: F			
Locked rotor torq	ue : 19	90 %	Service factor		: 1.00		
Breakdown torqu	ie : 2:	20 %	Temperature rise		: 80 K		
Rated speed	: 14	483 rpm	Design		: B		
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