### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11431396

Catalog #: 00236ST3QIE145T-W22

Frame : 143/5T Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) : -20°C to +40°C Starting method Ambient temperature : Direct On Line

: 1000 m.a.s.l. Approx. weight<sup>3</sup> : 62.1 lb Altitude

: IP55 Protection degree

Moment of inertia (J) : 0.0605 sq.ft.lb Design : B

Design		: В						
Output [HP]		2	1.5	1.5	1.5	2	2	2
Poles		2	2	2	2	2	2	2
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		460	380	400	415	380	400	415
Rated current [A]		2.56	2.30	2.22	2.19	3.07	2.90	2.82
L. R. Amperes [A]		22.8	19.5	20.4	21.2	20.0	20.9	21.7
LRC [A]		8.9x(Code L)	8.5x(Code K)	9.2x(Code L)	9.7x(Code	6.5x(Code H)	7.2x(Code J)	7.7x(Code J)
					M)			
No load current [A]		0.900	0.890	0.960	1.01	0.890	0.960	1.01
Rated speed [RPM]		3475 3.47	2885	2895	2905	2835	2850	2865
Slip [%]	Slip [%]		3.83	3.50	3.17	5.50	5.00	4.50
Rated torque [ft.lb]		3.02	2.73	2.72	2.71	3.70	3.69	3.67
	Locked rotor torque [%]		370	409	450	270	300	330
Breakdown torque	[%]	380	370	420	459	270	310	340
Service factor		1.25	1.25	1.25	1.25	1.25	1.25	1.25
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		30s (cold)	25s (cold)	25s (cold)	25s (cold)	25s (cold)	25s (cold)	25s (cold)
		17s (hot)	14s (hot)	14s (hot)	14s (hot)	14s (hot)	14s (hot)	14s (hot)
Noise level <sup>2</sup>		68.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)
	25%							
Efficiency (%)	50%	82.5	81.4	80.3	80.1	82.5	82.5	82.5
75%		85.5	83.3	83.1	83.1	84.0	84.0	84.0
100%		85.5	83.5	84.0	84.0	82.5	84.0	84.0
	25%	0.71						
Power Factor	Bower Factor 50%		0.69	0.66	0.64	0.79	0.76	0.73
1 OWCI I actor	75%	0.80	0.81	0.78	0.76	0.86	0.84	0.83
	100%	0.86	0.87	0.85	0.83	0.90	0.89	0.88

Drive end Non drive end Foundation loads

6205 C3 Bearing type 6204 C3 Max. traction : 77 lb Inpro/Seal Sealing Inpro/Seal : 139 lb Max. compression 20000 h 20000 h

Lubrication interval Lubricant amount 4 g 4 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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#### Three Phase Induction Motor - Squirrel Cage



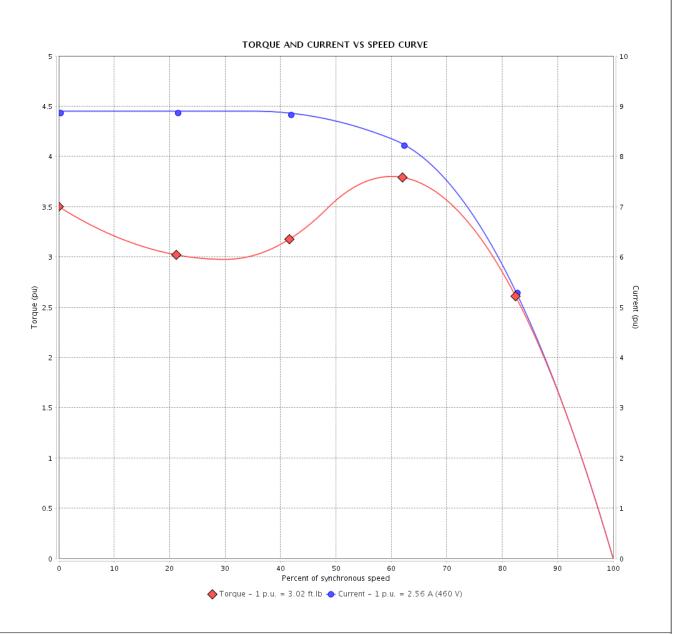
Customer :

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

Phase

Product code: 11431396

Catalog #: 00236ST3QIE145T-W22



Performance : 460 V 60 Hz 2P Rated current : 2.56 A Moment of inertia (J) : 0.0605 sq.ft.lb **LRC** : 8.9 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 3.02 ft.lb Service factor Locked rotor torque : 350 % : 1.25 Breakdown torque : 380 % Temperature rise : 80 K Rated speed : 3475 rpm Design : B

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: 11431396 Catalog #: 00236ST3QIE145T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Current Torque (pu) 0.5 Percent of synchronous speed ♦ Torque – 1 p.u. = 2.73 ft.lb ♦ Current – 1 p.u. = 2.30 A (380 V)

Performance : 380 V 50 Hz 2P IE3 Rated current : 2.30 A Moment of inertia (J) : 0.0605 sq.ft.lb **LRC** : 8.5 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 2.73 ft.lb Locked rotor torque : 370 % Service factor : 1.25 Breakdown torque : 370 % Temperature rise : 80 K : B Rated speed : 2885 rpm Design

Locked rotor time : 25s (cold) 14s (hot)

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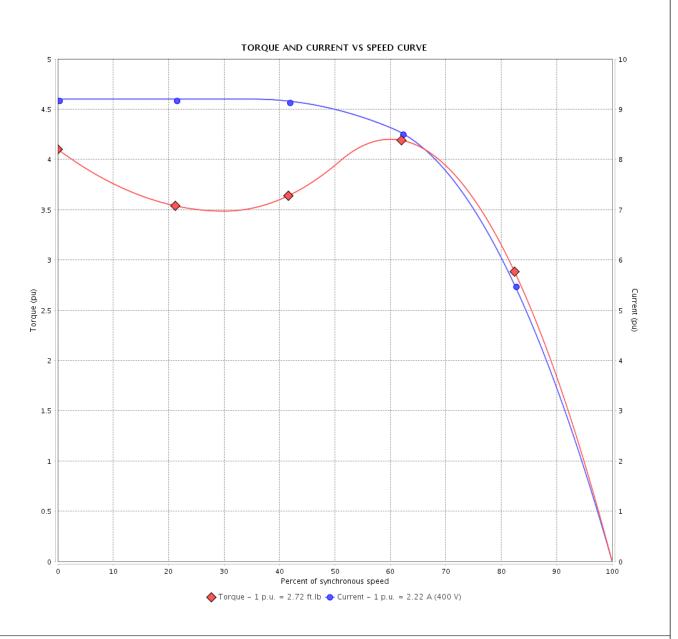
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11431396

Catalog #: 00236ST3QIE145T-W22



Performance : 400 V 50 Hz 2P IE3 Rated current : 2.22 A Moment of inertia (J) : 0.0605 sq.ft.lb **LRC** : 9.2 Duty cycle : Cont.(S1) : F : 2.72 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 409 % : 1.25 Breakdown torque : 420 % Temperature rise : 80 K Rated speed : 2895 rpm Design : B

Locked rotor time : 25s (cold) 14s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11431396 Catalog #: 00236ST3QIE145T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 2.71 ft.lb ◆ Current - 1 p.u. = 2.19 A (415 V) Performance : 415 V 50 Hz 2P IE3 Rated current : 2.19 A Moment of inertia (J) : 0.0605 sq.ft.lb **LRC** : 9.7 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 2.71 ft.lb : 450 % Locked rotor torque Service factor : 1.25 Breakdown torque : 459 % Temperature rise : 80 K Rated speed : 2905 rpm Design : B Locked rotor time : 25s (cold) 14s (hot) Date Rev. Performed Checked **Changes Summary** 

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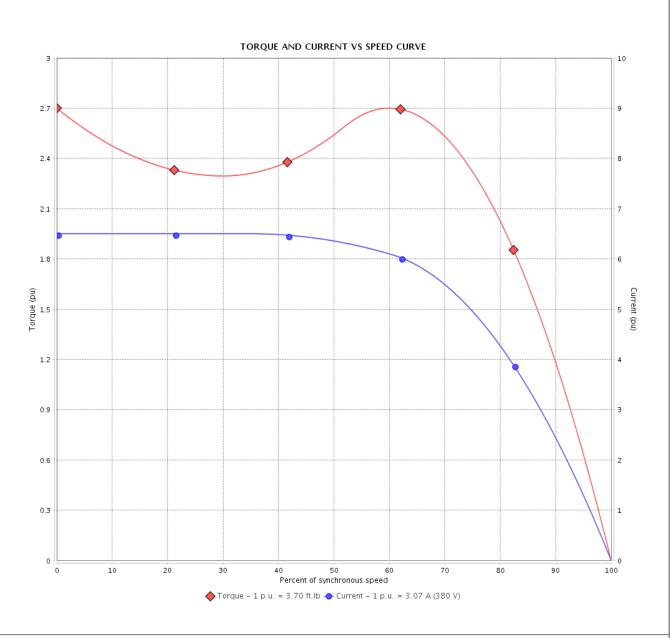


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 11431396

Catalog #: 00236ST3QIE145T-W22



Performance	: 380 V 50 Hz 2P IE2			
Rated current	: 3.07 A	Moment of inertia (J)	: 0.0605 sq.ft.lb	
LRC	: 6.5	Duty cycle	: Cont.(S1)	
Rated torque	: 3.70 ft.lb	Insulation class	: F	
Locked rotor torque	: 270 %	Service factor	: 1.25	
Breakdown torque	: 270 %	Temperature rise	: 80 K	
Rated speed	: 2835 rpm	Design	: B	
Locked rotor time	: 25s (cold) 14s (hot)	'		

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#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11431396 Catalog #: 00236ST3QIE145T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5

3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 3.69 ft.lb ◆ Current - 1 p.u. = 2.90 A (400 V)

Performance : 400 V 50 Hz 2P IE2 Rated current : 2.90 A Moment of inertia (J) : 0.0605 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) : 3.69 ft.lb Insulation class : F Rated torque : 300 % : 1.25 Locked rotor torque Service factor : 80 K Breakdown torque : 310 % Temperature rise : B Rated speed : 2850 rpm Design Locked rotor time : 25s (cold) 14s (hot)

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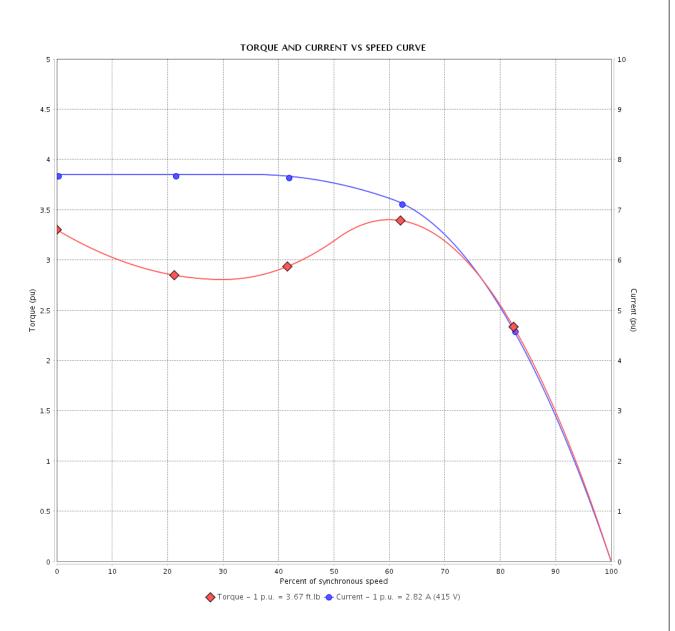


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 00236ST3QIE145T-W22

11431396



Performance : 415 V 50 Hz 2P IE2 Rated current : 2.82 A Moment of inertia (J) : 0.0605 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) : F : 3.67 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 330 % : 1.25 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 2865 rpm Design : B Locked rotor time : 25s (cold) 14s (hot)

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#### Three Phase Induction Motor - Squirrel Cage



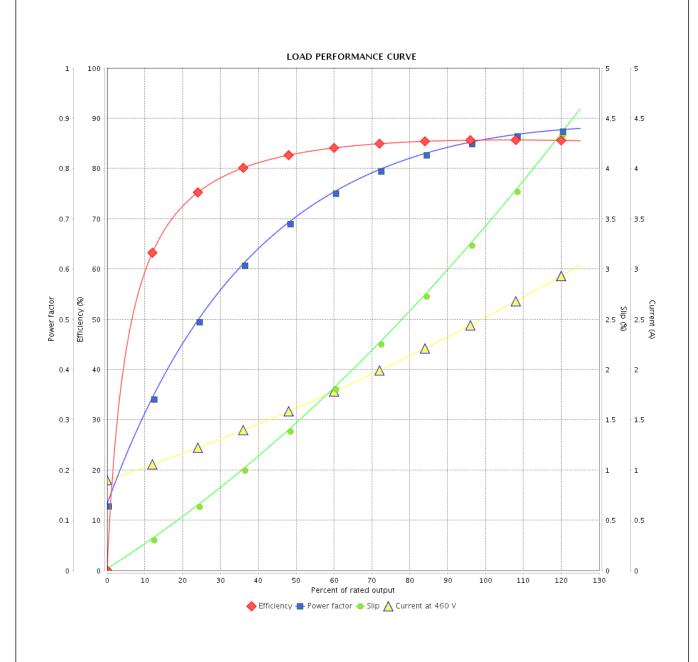
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431396

Phase

Catalog #: 00236ST3QIE145T-W22

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Performance	: 460 V 60 Hz 2P	60 V 60 Hz 2P					
Rated current	: 2.56 A	Moment o	f inertia (J)	: 0.0605 sq.ft.lb			
LRC	: 8.9	Duty cycle	!	: Cont.(S1)			
Rated torque	: 3.02 ft.lb	Insulation	class	: F			
Locked rotor torque	: 350 %	Service factor		: 1.25			
Breakdown torque	: 380 %	Temperature rise		: 80 K			
Rated speed	: 3475 rpm	Design		: B			
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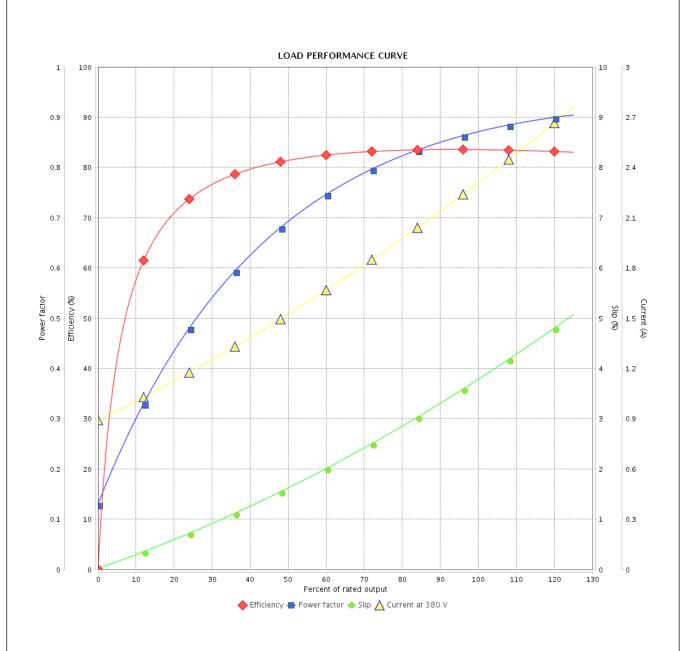
Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

Product code: 11431396

Catalog #: 00236ST3QIE145T-W22

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Performance		: 380 V 50 Hz 2P IE3						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	jue ie	: 2.30 A : 8.5 : 2.73 ft.lb : 370 % : 370 % : 2885 rpm	Moment of Duty cycle Insulation Service fa Temperation Design	class ctor	: 0.0605 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb		
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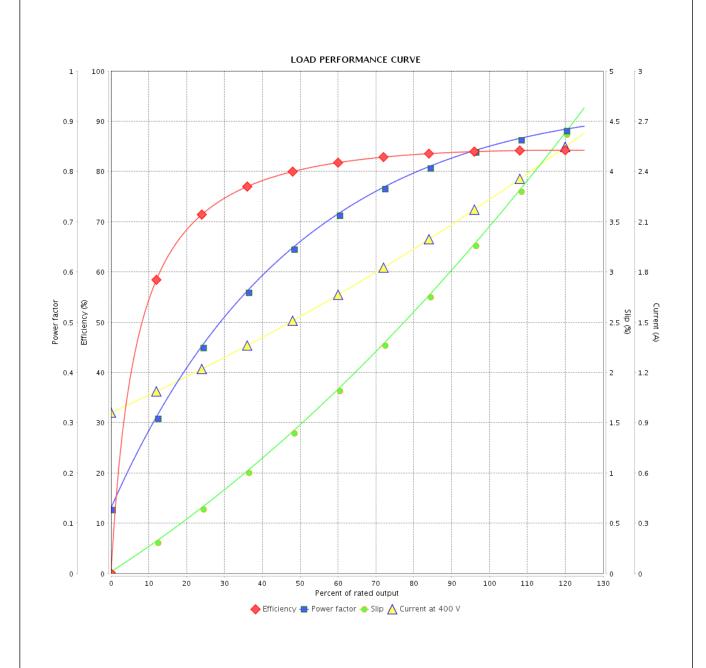
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 11431396

Catalog #: 00236ST3QIE145T-W22



Performance	: 4	: 400 V 50 Hz 2P IE3				
Rated current : 2.22 A		Moment o	Moment of inertia (J)		.lb	
LRC : 9.		.2	Duty cycle	)	: Cont.(S1)	
Rated torque	: 2	.72 ft.lb	Insulation	class	: F	
Locked rotor torque :		09 %	Service fa	ctor	: 1.25	
Breakdown torque		20 %	Temperature rise		: 80 K	
Rated speed	: 2	2895 rpm Design			: B	
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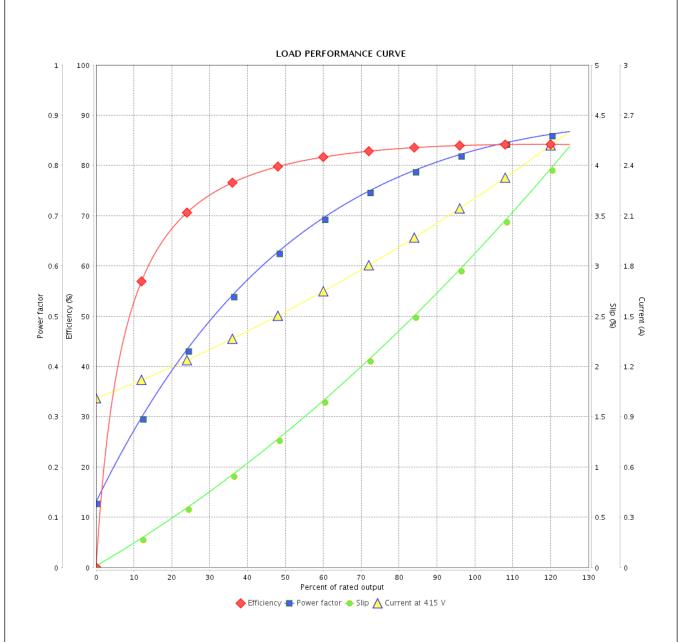
Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 11431396

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: 2.19 A : 9.7 : 2.71 ft.lb	Duty cycle	f inertia (J)	: 0.0605 sq.ft.l : Cont.(S1)	b
: 450 % : 459 % : 2905 rpm		class ctor	: F : 1.25 : 80 K : B	
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	: 459 % : 2905 rpm	: 459 % Temperatu : 2905 rpm Design	: 459 % Temperature rise Design	: 459 % Temperature rise : 80 K : 2905 rpm Design : B

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#### Three Phase Induction Motor - Squirrel Cage

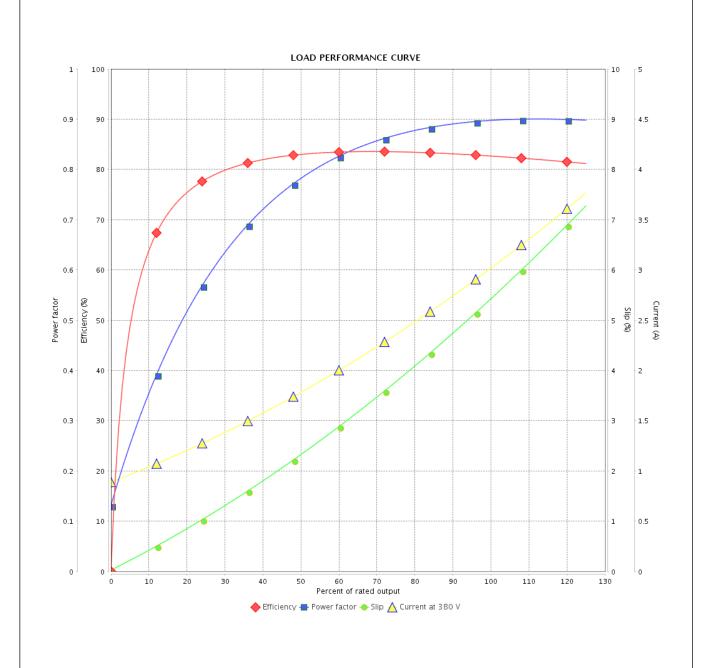


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431396

Phase

Catalog #: 00236ST3QIE145T-W22



Performance	erformance : 380 V 50 Hz 2P IE2					
Rated current	: 3.	: 3.07 A Moment of inertia (		of inertia (J)	: 0.0605 sq.ft.lb	
LRC	: 6.	5	Duty cycle	•	: Cont.(S1)	
Rated torque	: 3.	70 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 27	70 %	Service fa	ictor	: 1.25	
Breakdown torque		70 %	Temperature rise		: 80 K	
Rated speed : 2835 rpm De		Design		: B		
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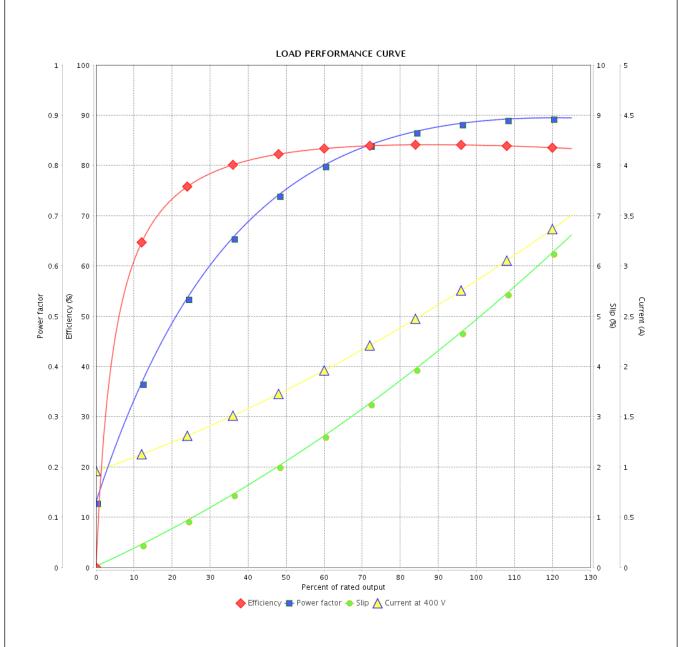
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11431396

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Performance	: 400 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.90 A : 7.2 : 3.69 ft.lb : 300 % : 310 % : 2850 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.0605 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
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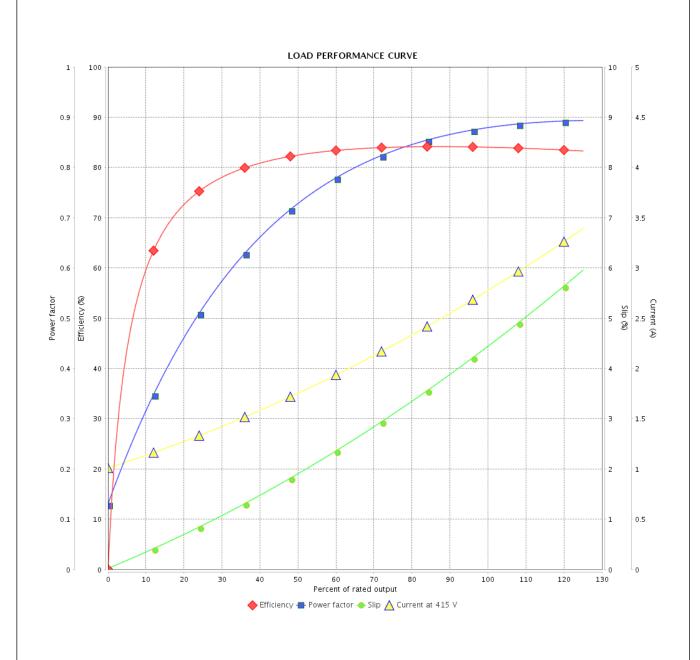
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431396

Phase

Catalog #: 00236ST3QIE145T-W22

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Performance	: 415 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.82 A : 7.7 : 3.67 ft.lb : 330 % : 340 % : 2865 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.0605 sq.ft.I : Cont.(S1) : F : 1.25 : 80 K : B	b
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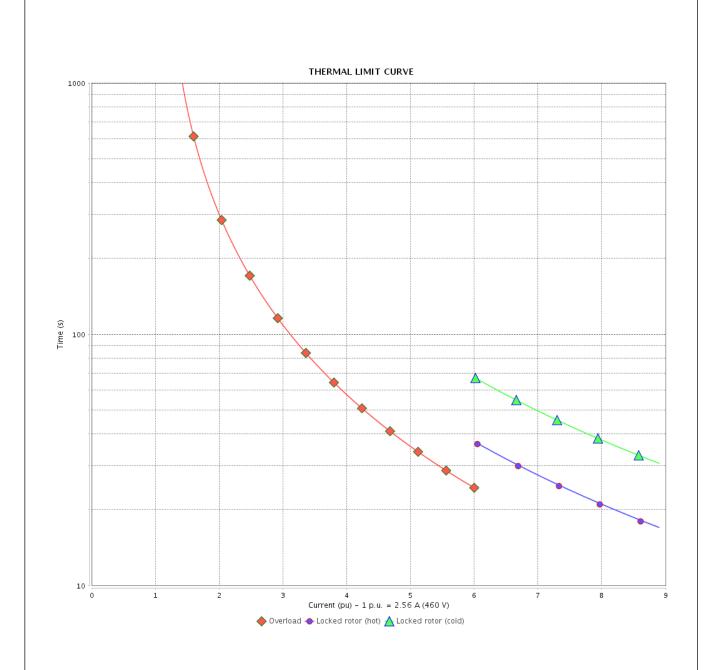


Customer	:					
Product line	: 1	NEMA Premium Efficienc	y Three-	Product code :	11431396	
	PI	hase		Catalog # :	00236ST3QI	E145T-W22
Performance	. 16	60 V 60 Hz 2P				
Rated current		56 A	Moment o	of inertia (J)	: 0.0605 sq.ft.l	b
LRC	: 8.	9	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor torque		02 ft.lb 50 %	Insulation Service fa		: F : 1.25	
Breakdown torque	: 38	30 %	Temperati		: 80 K	
Rated speed	: 34	175 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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#### Three Phase Induction Motor - Squirrel Cage



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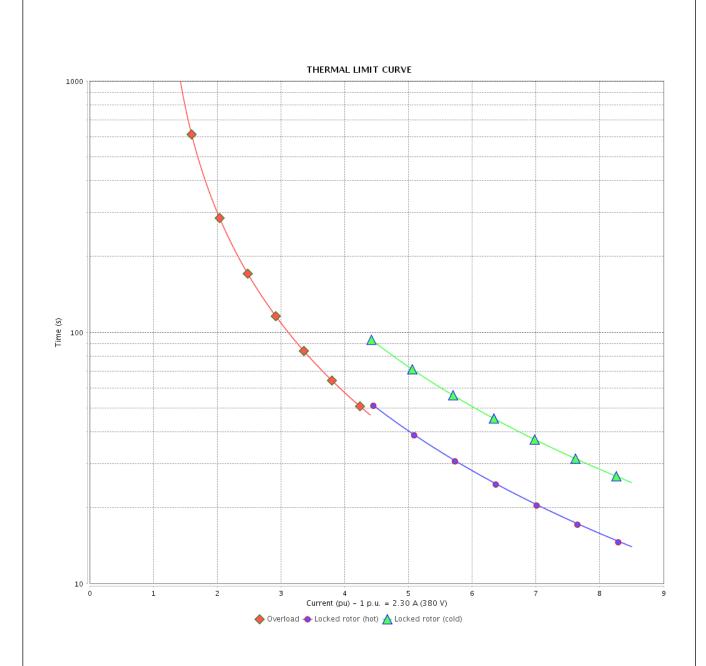


Customer	:				
Product line	: NEMA Premium Efficiency <sup>-</sup> Phase		Product code : Catalog # :	11431396 00236ST3QI	E145T-W22
Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC	: 2.30 A : 8.5	Moment of Duty cycle	inertia (J)	: 0.0605 sq.ft. : Cont.(S1)	b
Rated torque Locked rotor torque	: 2.73 ft.lb : 370 %	Insulation Service fac	class	: F : 1.25	
Breakdown torque Rated speed	: 370 % : 370 % : 2885 rpm	Temperatu Design		: 1.25 : 80 K : B	
Heating constant	. 2000 (2011	Doolgii			
Cooling constant					
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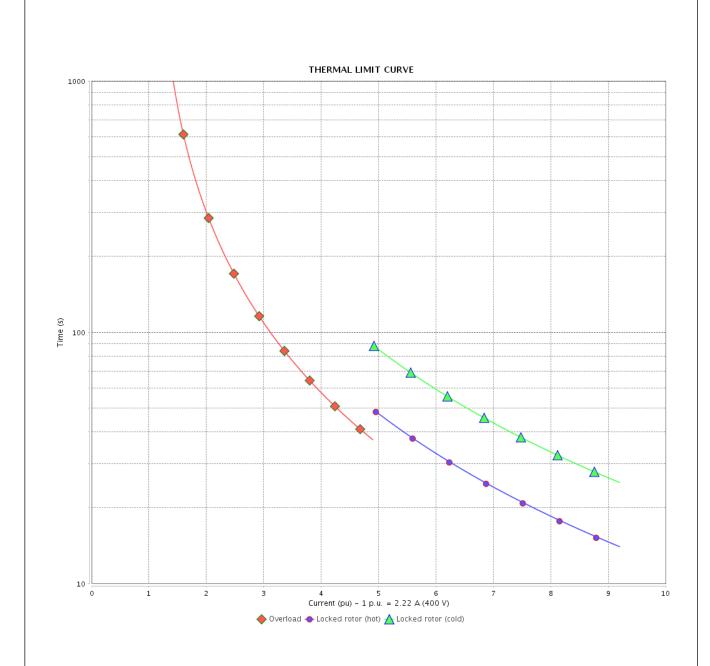


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11431396 00236ST3QI	E145T-W22
Performance		: 400 V 50 Hz 2P IE3				
Rated current LRC		: 2.22 A : 9.2	Duty cycle		: 0.0605 sq.ft.l : Cont.(S1)	b
Rated torque Locked rotor tord		: 2.72 ft.lb : 409 %	Insulation Service fa		: F : 1.25	
Breakdown torqu	ue	: 420 %	Temperat		: 80 K	
Rated speed		: 2895 rpm	Design		: B 	
Heating constan						
Cooling constant	L	Changes Summary		Performed	Checked	Date
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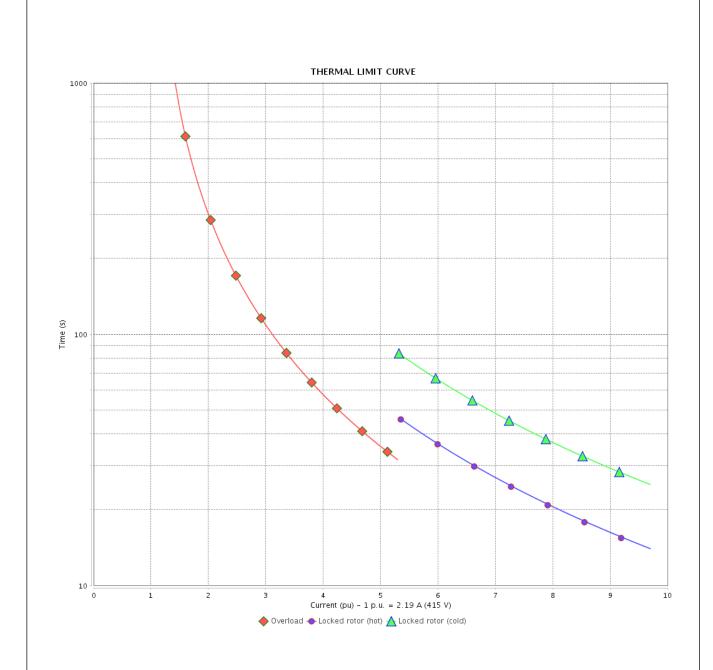


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11431396 00236ST3QI	E145T-W22
				<u> </u>		
Performance		: 415 V 50 Hz 2P IE3				
Rated current LRC		: 2.19 A : 9.7	Duty cycle		: 0.0605 sq.ft.l : Cont.(S1)	b
Rated torque Locked rotor tord		: 2.71 ft.lb : 450 %	Insulation Service fa		: F : 1.25	
Breakdown torqu	ie	: 459 %	Temperat		: 80 K	
Rated speed		: 2905 rpm	Design		: B	
Heating constant Cooling constant						
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### Three Phase Induction Motor - Squirrel Cage

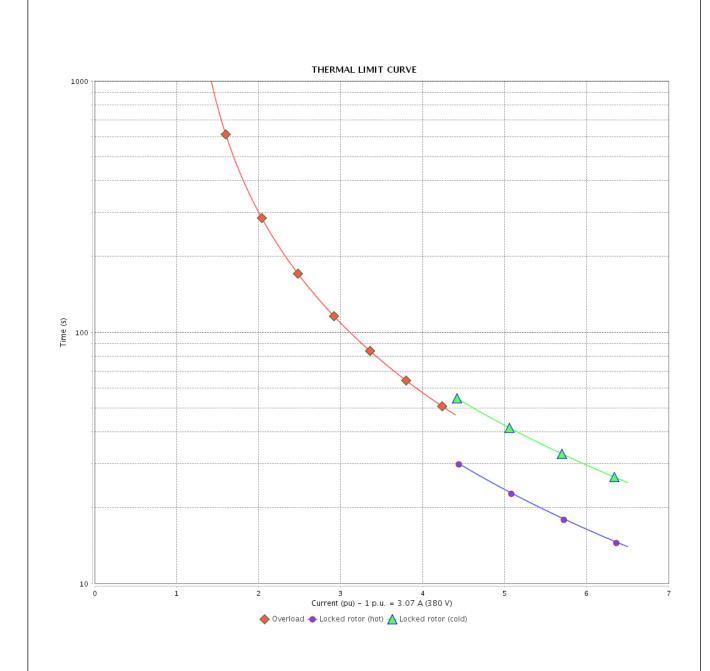


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11431396 00236ST3QII	E145T-W22
Performance		: 380 V 50 Hz 2P IE2	N4	Character AD	0.0005 81	
Rated current LRC		: 3.07 A : 6.5	Duty cycle		: 0.0605 sq.ft.l : Cont.(S1)	b
Rated torque		: 3.70 ft.lb : 270 %	Insulation Service fa		: F : 1.25	
Locked rotor tord Breakdown torqu		: 270 % : 270 %	Temperat		: 1.25 : 80 K	
Rated speed		: 2835 rpm	Design		: B	
Heating constant						
Cooling constant	l .	Changes Cummen		Dorform	Chaolad	Data
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### Three Phase Induction Motor - Squirrel Cage



Customer



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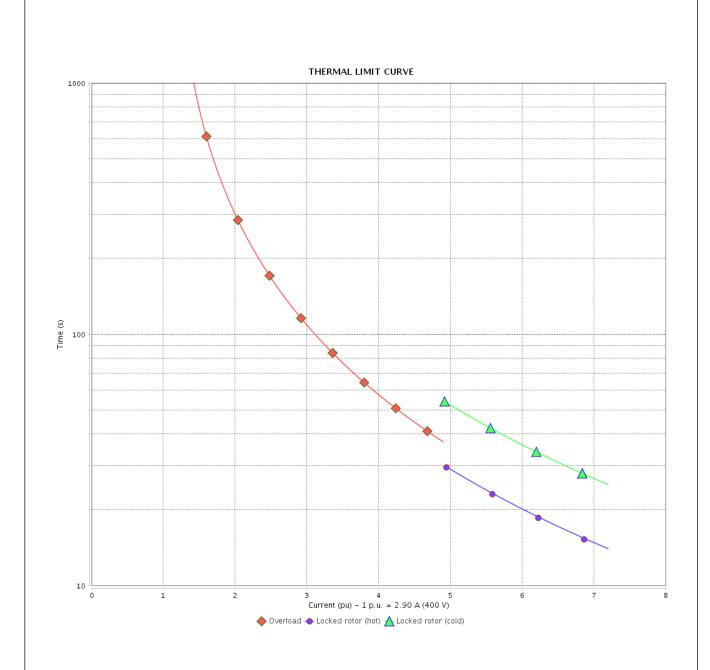


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11431396 00236ST3QI	E145T-W22
Performance		: 400 V 50 Hz 2P IE2				
Rated current LRC	:	: 2.90 A : 7.2	Duty cycle		: 0.0605 sq.ft.l : Cont.(S1)	b
Rated torque Locked rotor tord		: 3.69 ft.lb : 300 %	Insulation Service fa		: F : 1.25	
Breakdown torqu	ue :	: 310 %	Temperat		: 80 K	
Rated speed		: 2850 rpm	Design		: B	
Heating constant Cooling constant						
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#### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

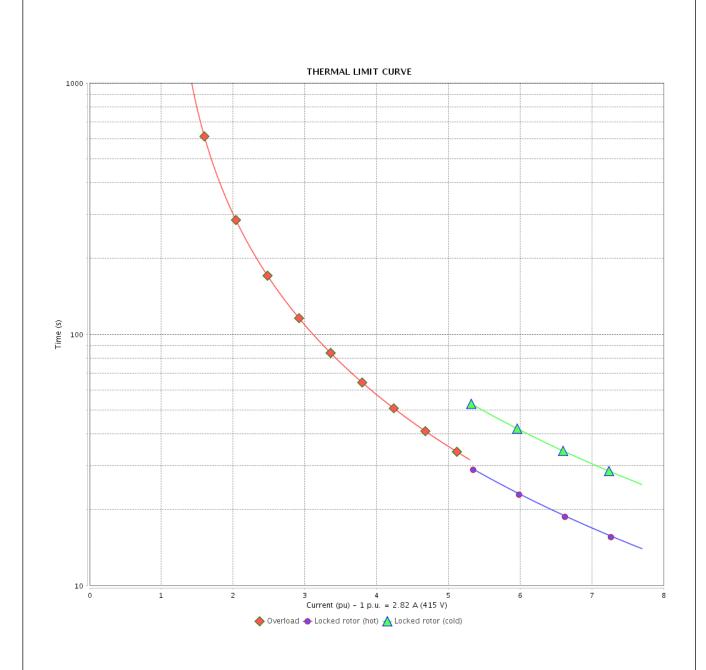


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11431396 00236ST3QII	E145T-W22
Performance		: 415 V 50 Hz 2P IE2				
Rated current LRC		: 2.82 A : 7.7	Moment of Duty cycle	of inertia (J)	: 0.0605 sq.ft.l : Cont.(S1)	b
Rated torque		: 3.67 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 330 % : 340 %	Service fa Temperat		: 1.25 : 80 K	
Rated speed		: 2865 rpm	Design		: B	
Heating constan						
Cooling constant	l	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

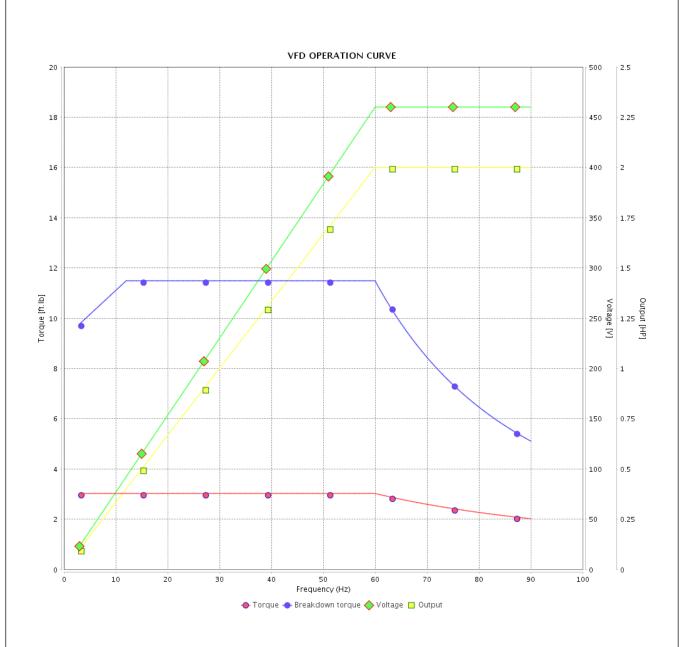


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 11431396

Catalog #: 00236ST3QIE145T-W22



Performance : 460 V 60 Hz 2P : 2.56 A Rated current Moment of inertia (J) : 0.0605 sq.ft.lb **LRC** : 8.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 3.02 ft.lb : F Locked rotor torque : 350 % Service factor : 1.25 Breakdown torque : 380 % Temperature rise : 80 K Rated speed : 3475 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

### Three Phase Induction Motor - Squirrel Cage



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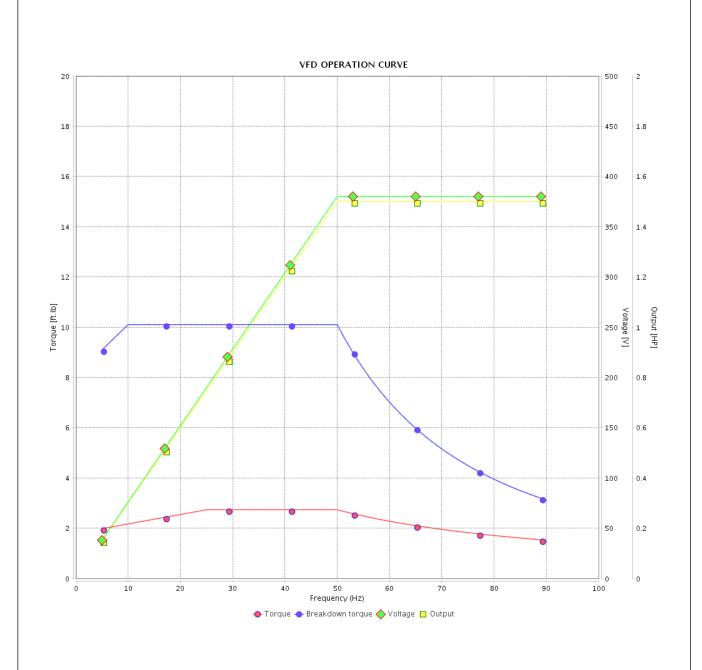
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 00236ST3QIE145T-W22

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Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 2.30 A : 8.5 : 2.73 ft.lb : 370 % : 370 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 0.0605 sq.ft. : Cont.(S1) : F : 1.25 : 80 K	lb
Rated speed	: 2885 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three-

Phase

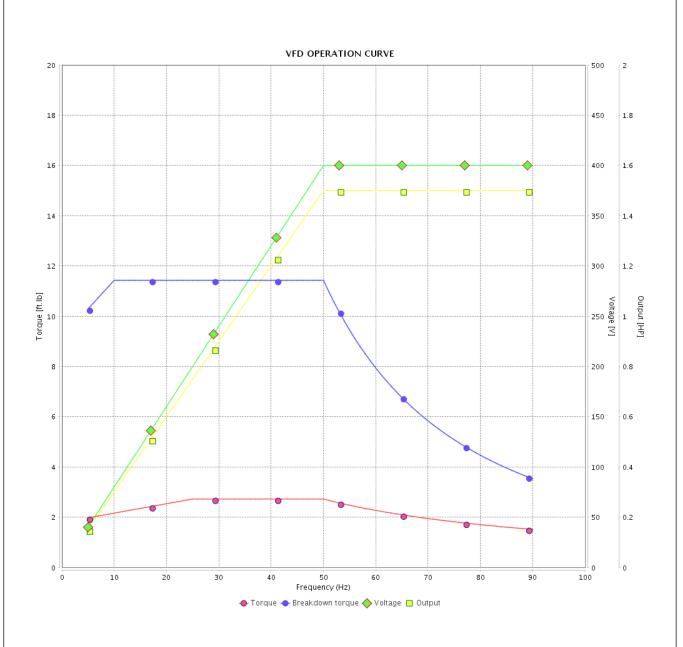
Product code: 11431396

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Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.22 A : 9.2 : 2.72 ft.lb : 409 % : 420 % : 2895 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0605 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage

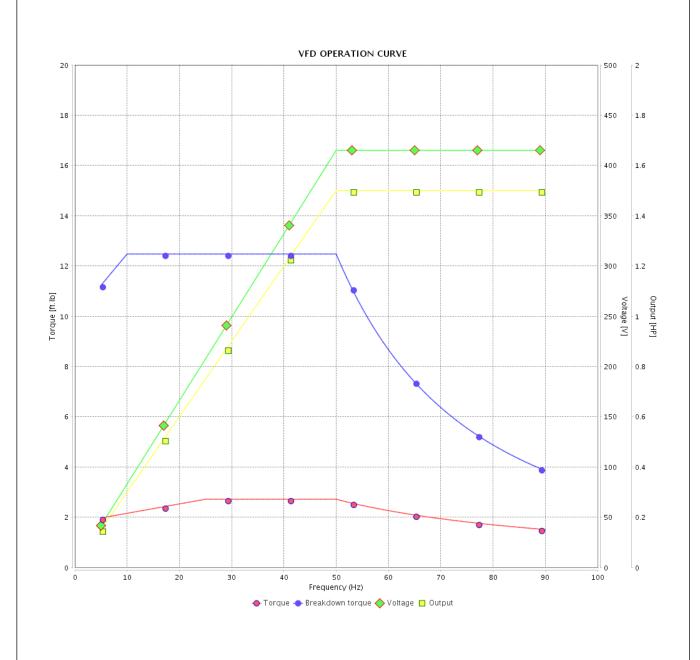


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431396

Phase

Catalog #: 00236ST3QIE145T-W22



Performance	: 4	15 V 50 Hz 2P IE3				
Rated current		.19 A	1	of inertia (J)	: 0.0605 sq.ft.lb	
LRC	: 9.	.7	Duty cycle	<del>)</del>	: Cont.(S1)	
Rated torque	: 2.	.71 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 4	50 %	Service fa	ictor	: 1.25	
Breakdown torque	e : 4	59 %	Temperature rise	: 80 K		
Rated speed	: 29	905 rpm	Design		: B	
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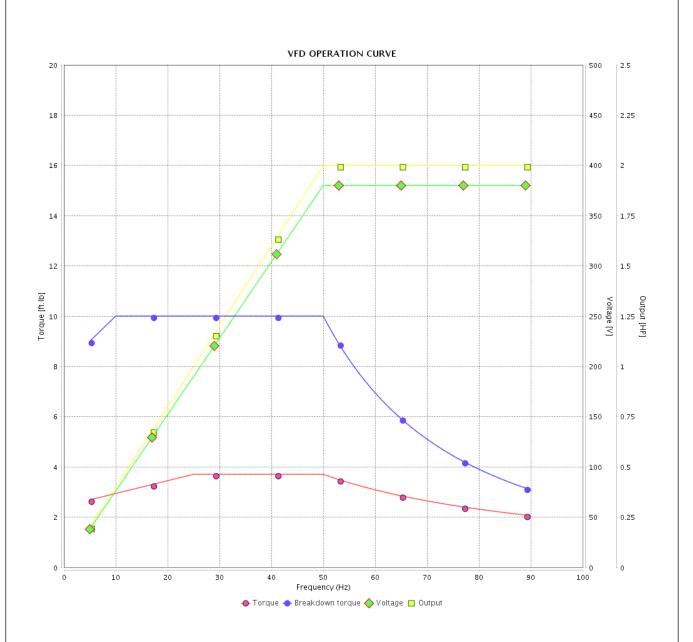
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 00236ST3QIE145T-W22

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Performance	: 380 V 50 Hz 2P IE2				
Rated current	: 3.07 A	Moment of inertia (J)		: 0.0605 sq.ft.lb	
LRC	: 6.5	Duty cycle		: Cont.(S1)	
Rated torque	: 3.70 ft.lb	8.70 ft.lb Insulation class 9.70 % Service factor 1.70 % Temperature rise		: F	
Locked rotor torque	: 270 %			: 1.25	
Breakdown torque	: 270 %			: 80 K	
Rated speed	: 2835 rpm			: B	
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#### Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three- Product code : 11431396

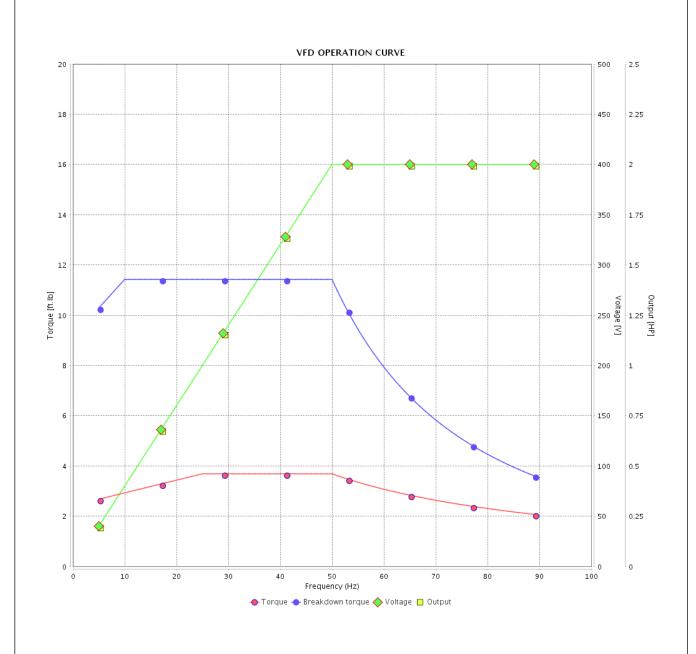
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Performance	: 400 V 50 Hz 2P IE2					
Rated current	: 2.90 A	Moment of	f inertia (J)	: 0.0605 sq.ft.lb		
LRC	: 7.2	Duty cycle	;	: Cont.(S1)		
Rated torque	: 3.69 ft.lb	Insulation	class	:F		
Locked rotor torque	: 300 %	Service factor		: 1.25		
Breakdown torque	: 310 %	Temperature rise		: 80 K		
Rated speed	: 2850 rpm	Design		: B		
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#### Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three-

Phase

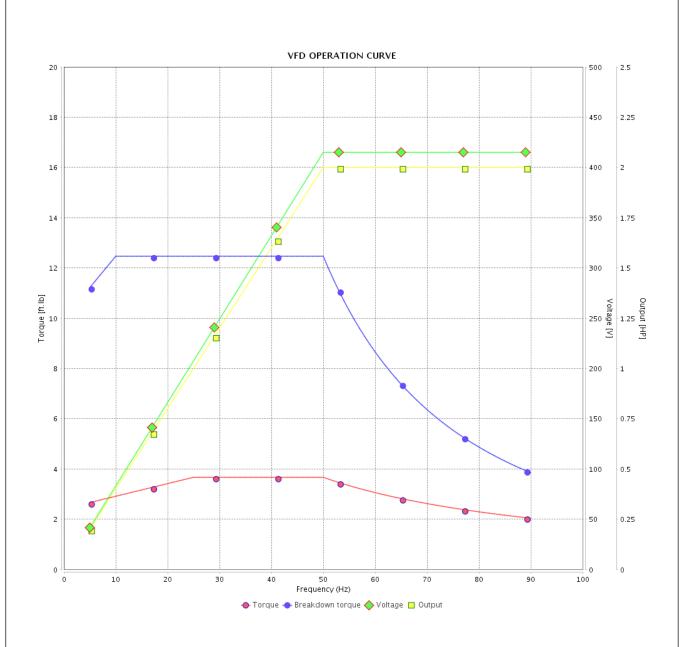
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Performance : 415 V 50 Hz 2P IE2 : 2.82 A Rated current Moment of inertia (J) : 0.0605 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) : 3.67 ft.lb Insulation class Rated torque : F Locked rotor torque : 330 % Service factor : 1.25 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 2865 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

