DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11432185

Catalog #: 25036ST3QIE449TS-W22

Frame : 447/9TS 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 : 2543 lb Altitude

Protection degree : IP55 Moment of inertia (J) : 50.3 sq.ft.lb

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Design		: B						
Output [HP]		250	200	200	200	250	250	250
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]		269	265	252	245	330	312	300
L. R. Amperes [A]		1802	1511	1638	1740	1749	1810	1920
LRC [A]		6.7x(Code	5.7x(Code E)	6.5x(Code	7.1x(Code	5.3x(Code E)	5.8x(Code F)	6.4x(Code F)
		G)		G)	G)			
No load current [A]]	62.0	60.0	65.0	70.0	61.0	65.0	70.0
Rated speed [RPN	1]	3573	2973	2977	2979	2962	2967	2970
Slip [%]		0.75	0.90	0.77	0.70	1.27	1.10	1.00
Rated torque [ft.lb]		367	353	353	353	443	442	442
Locked rotor torque [%]		200	190	210	220	150	160	180
Breakdown torque	[%]	240	240	270	300	190	220	229
Service factor		1.15	1.15	1.15	1.15	1.00	1.00	1.00
Temperature rise		80 K	105 K	80 K	80 K	105 K	105 K	105 K
Locked rotor time		32s (cold)	48s (cold)	45s (cold)	41s (cold)	21s (cold)	21s (cold)	21s (cold)
		18s (hot)	27s (hot)	25s (hot)	23s (hot)	12s (hot)	12s (hot)	12s (hot)
Noise level ²		81.0 dB(A)						
	25%	95.3	94.9	95.0	95.0	95.8	95.7	95.6
Efficiency (%)	50%	95.4	95.0	95.1	95.1	95.4	95.4	95.4
Efficiency (%)	75%	95.8	95.6	95.6	95.6	95.0	95.4	95.8
	100%	95.8	95.6	95.6	95.6	94.5	95.0	95.4
	25%	0.62	0.62	0.58	0.55	0.67	0.64	0.61
Dower Footer	50%	0.84	0.84	0.82	0.80	0.87	0.85	0.84
Power Factor	75%	0.89	0.89	0.88	0.87	0.90	0.89	0.89
	100%	0.90	0.90	0.90	0.89	0.90	0.90	0.90

Non drive end Drive end Foundation loads

Bearing type 6314 C3 6314 C3 Max. traction : 1438 lb Sealing Inpro/Seal Inpro/Seal : 3981 lb Max. compression

Lubrication interval 4000 h 4000 h 27 g Lubricant amount 27 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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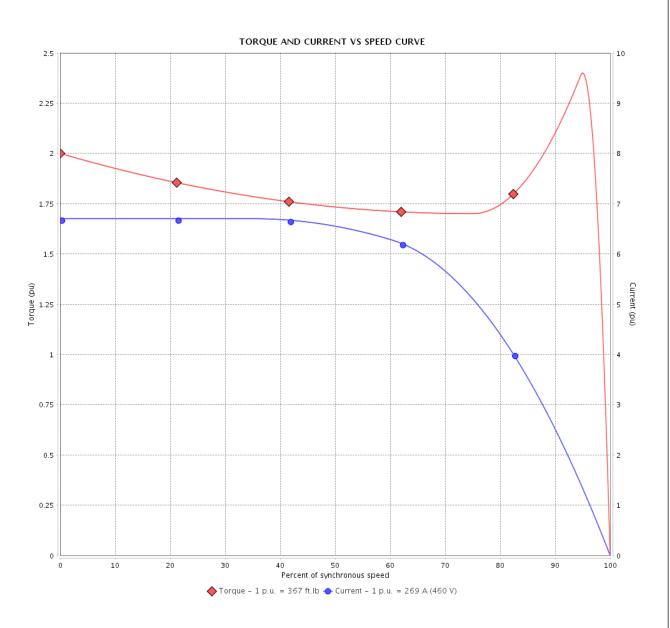
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11432185

Catalog #: 25036ST3QIE449TS-W22



Performance : 460 V 60 Hz 2P Rated current : 269 A Moment of inertia (J) : 50.3 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : F : 367 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 200 % : 1.15 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 3573 rpm Design : B

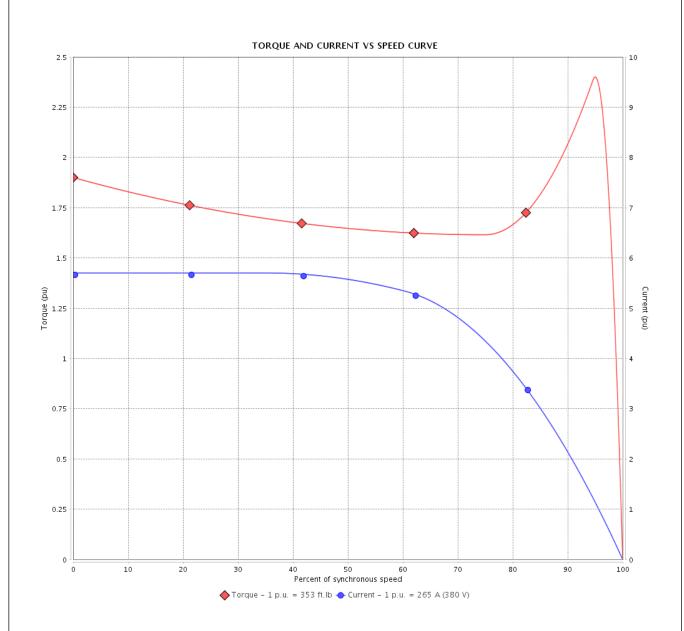
Locked rotor time : 32s (cold) 18s (hot)

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Customer Product line : NEMA Premium Efficiency Three-Product code: 11432185 Catalog #: 25036ST3QIE449TS-W22



Performance : 380 V 50 Hz 2P IE3 Rated current : 265 A Moment of inertia (J) : 50.3 sq.ft.lb **LRC** : 5.7 Duty cycle : Cont.(S1) Insulation class Rated torque : 353 ft.lb : F Locked rotor torque : 190 % Service factor : 1.15 Breakdown torque : 240 % Temperature rise : 105 K Rated speed : 2973 rpm Design : B Locked rotor time

: 48s (cold) 27s (hot)

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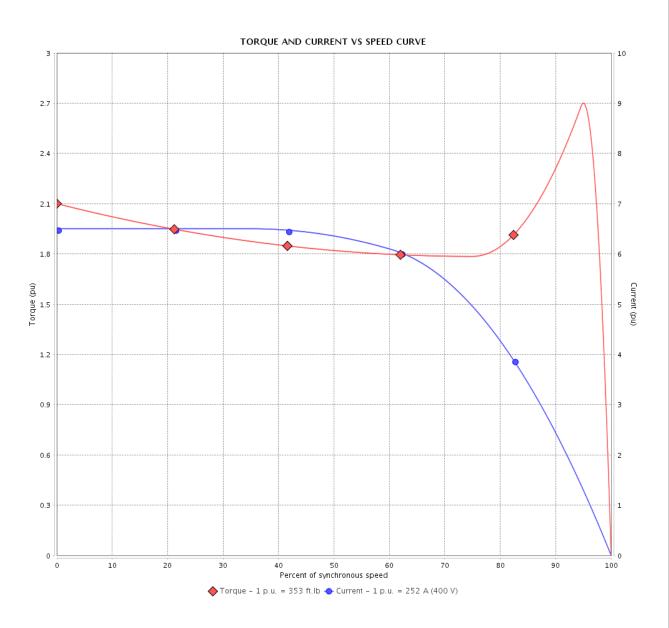


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11432185

Phase

Catalog # : 25036ST3QIE449TS-W22



: 50.3 sq.ft.lb : Cont.(S1) : F	
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. Г	
: 1.15	
: 80 K	
: B	
	: 80 K

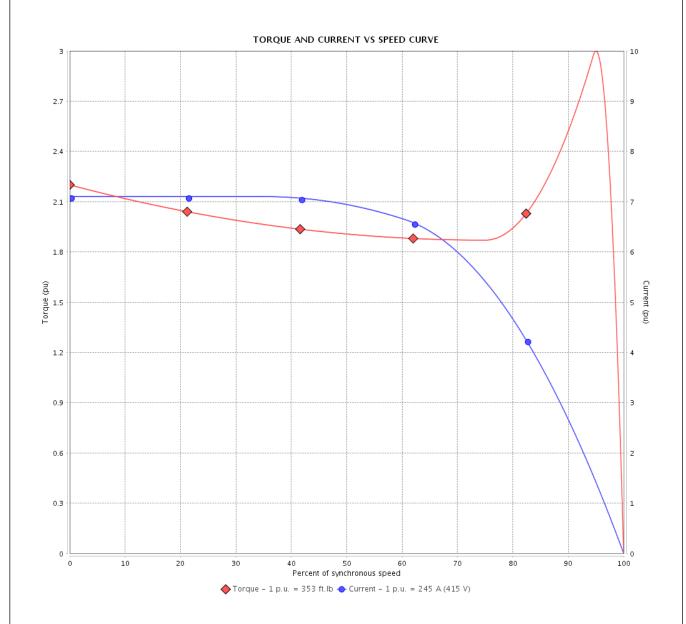
Locked rotor time : 45s (cold) 25s (hot)

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Customer Product line : NEMA Premium Efficiency Three-Product code: 11432185 Catalog #: 25036ST3QIE449TS-W22



Performance : 415 V 50 Hz 2P IE3 Rated current : 245 A Moment of inertia (J) : 50.3 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 353 ft.lb : F Locked rotor torque : 220 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 2979 rpm Design : B Locked rotor time : 41s (cold) 23s (hot)

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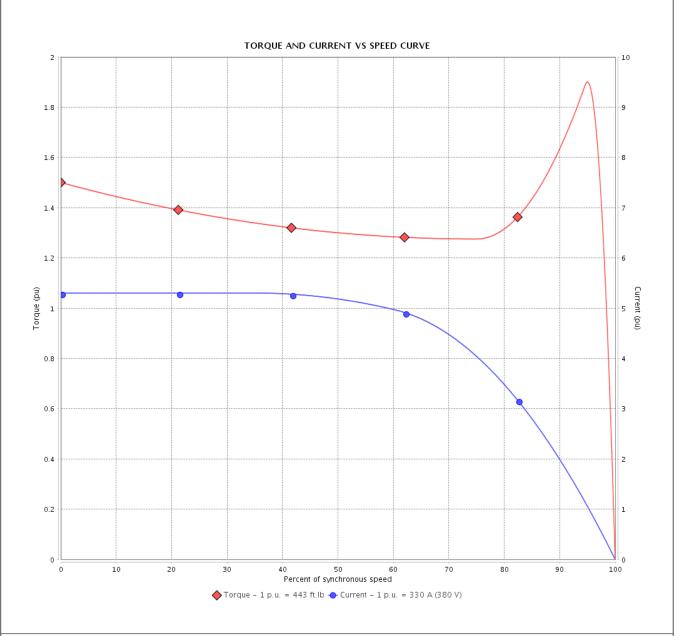
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11432185

Catalog #: 25036ST3QIE449TS-W22



Performance	: 380 V 50 Hz 2P IE1		
Rated current	: 330 A	Moment of inertia (J)	: 50.3 sq.ft.lb
LRC	: 5.3	Duty cycle	: Cont.(S1)
Rated torque	: 443 ft.lb	Insulation class	: F
Locked rotor torque	: 150 %	Service factor	: 1.00
Breakdown torque	: 190 %	Temperature rise	: 105 K
Rated speed	: 2962 rpm	Design	: B
Looked votov time	. 24a (aald) 42a (bat)		

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

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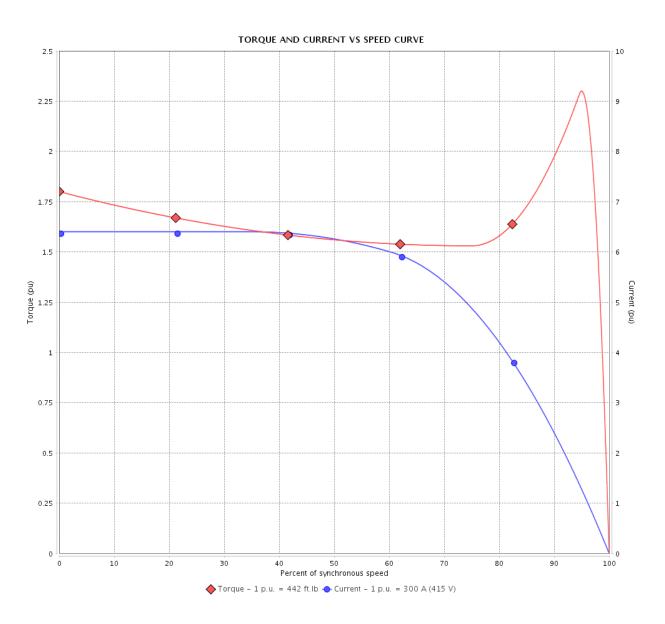
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 11432185

Catalog #: 25036ST3QIE449TS-W22



Performance	: 415 V 50 Hz 2P IE2			
Rated current	: 300 A	Moment of inertia (J)	: 50.3 sq.ft.lb	
LRC	: 6.4	Duty cycle	: Cont.(S1)	
Rated torque	: 442 ft.lb	Insulation class	: F	
Locked rotor torque	: 180 %	Service factor	: 1.00	
Breakdown torque	: 229 %	Temperature rise	: 105 K	
Rated speed	: 2970 rpm	Design	: B	
Locked rotor time	: 21s (cold) 12s (hot)	I		

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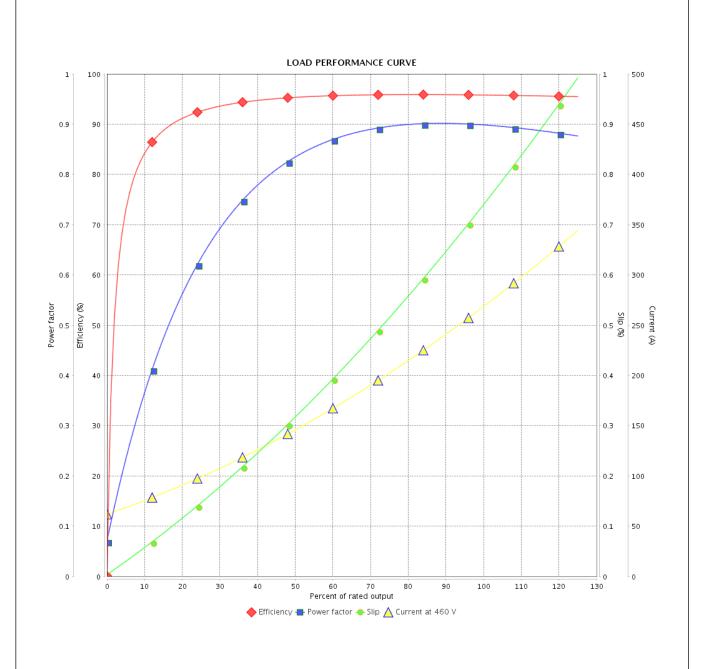


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11432185

Phase

Catalog #: 25036ST3QIE449TS-W22



Performance	: 4	460 V 60 Hz 2P				
Rated current	: 2	269 A	Moment o	f inertia (J)	: 50.3 sq.ft.lb	
LRC	: (6.7	Duty cycle	:	: Cont.(S1)	
Rated torque	: :	367 ft.lb	Insulation	class	:F	
Locked rotor torque	e : 2	200 %	Service fa	ctor	: 1.15	
Breakdown torque	: 2	240 %	Temperature rise		: 80 K	
Rated speed	: ;	3573 rpm	Design		: B	
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Phase

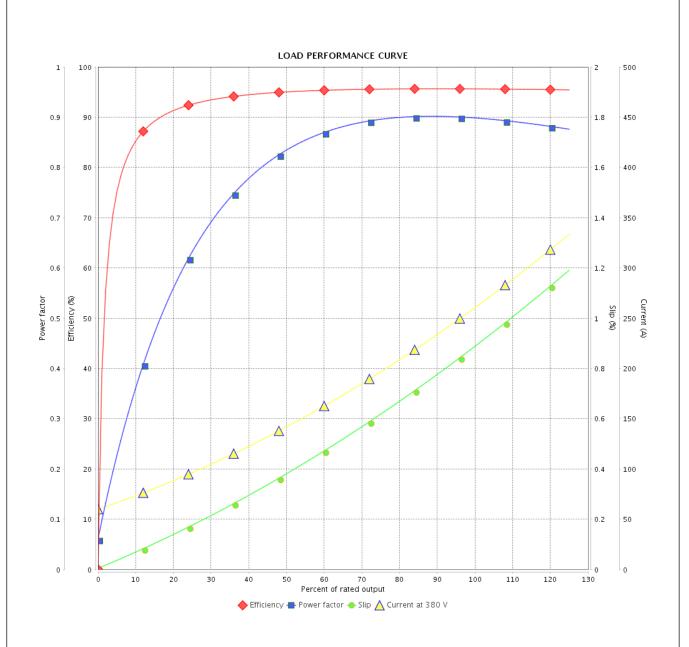
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: 38	30 V 50 Hz 2P IE3				
: 5. : 35 ue : 19 ie : 24	7 53 ft.lb 90 % 40 %	Duty cycle Insulation Service fa	class ctor	: 50.3 sq.ft.lb : Cont.(S1) : F : 1.15 : 105 K : B	
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	: 26 : 5. : 30 que : 19 ue : 24	ie : 240 % : 2973 rpm	: 265 A Moment o : 5.7 Duty cycle : 353 ft.lb Insulation que : 190 % Service fa ue : 240 % Temperatu : 2973 rpm Design	: 265 A Moment of inertia (J) : 5.7 Duty cycle : 353 ft.lb Insulation class que : 190 % Service factor tie : 240 % Temperature rise : 2973 rpm Design	: 265 A Moment of inertia (J) : 50.3 sq.ft.lb : 5.7 Duty cycle : Cont.(S1) : 353 ft.lb Insulation class : F que : 190 % Service factor : 1.15 ue : 240 % Temperature rise : 105 K : 2973 rpm Design : B

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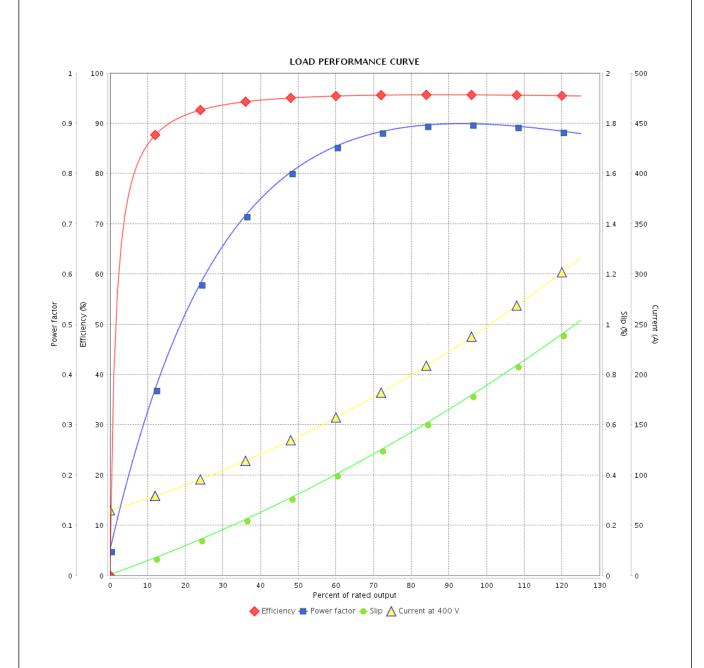


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Phase

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Performance		00 V 50 Hz 2P IE3				
Rated current	: 2	252 A	Moment o	f inertia (J)	: 50.3 sq.ft.lb	
LRC	: 6	5.5	Duty cycle	!	: Cont.(S1)	
Rated torque	: 3	53 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	10 %	Service fa	ctor	: 1.15	
Breakdown torque	: 2	70 % Temperature rise		ıre rise	: 80 K	
Rated speed	: 2	.977 rpm	Design		: B	
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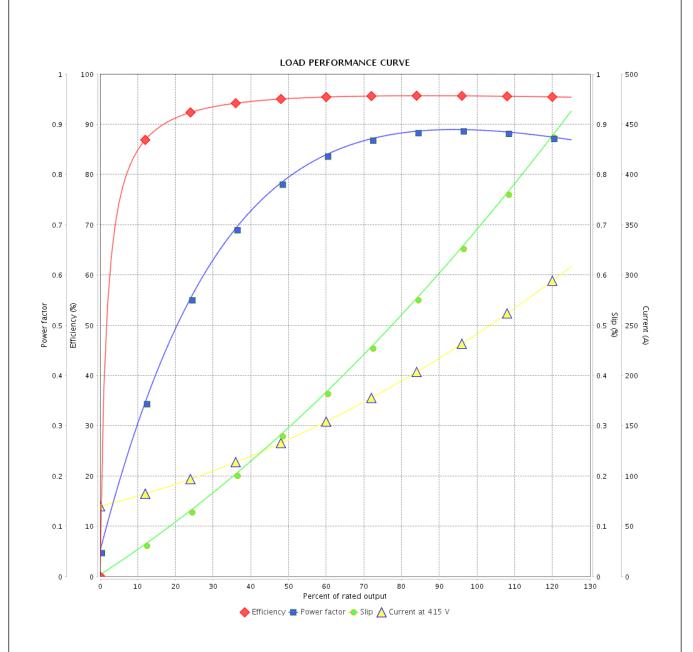
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 25036ST3QIE449TS-W22

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Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 245 A : 7.1 : 353 ft.lb : 220 % : 300 % : 2979 rpm	Moment of ine Duty cycle Insulation clas Service factor Temperature r Design	SS	: 50.3 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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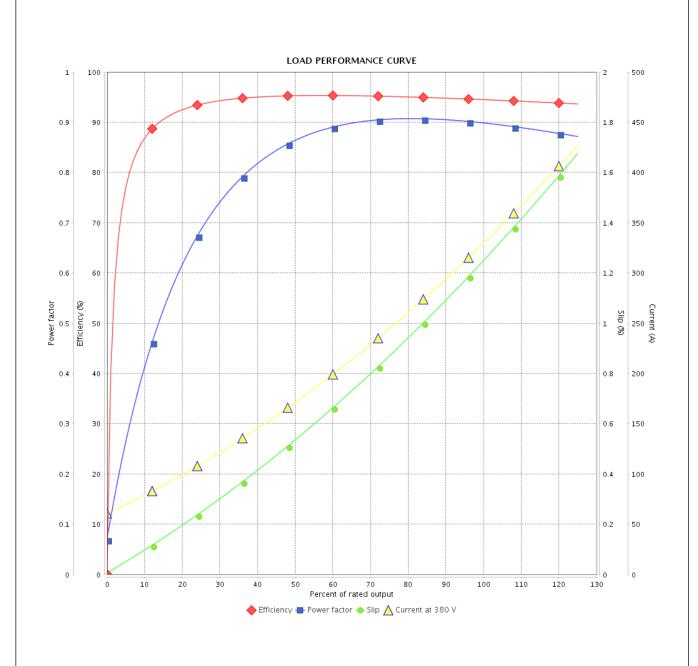


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11432185

Phase

Catalog #: 25036ST3QIE449TS-W22



Performance : 380 V 50 Hz 2P IE		80 V 50 Hz 2P IE1				
Rated current	: 3	30 A	Moment o	f inertia (J)	: 50.3 sq.ft.lb	
LRC	: 5	5.3	Duty cycle	;	: Cont.(S1)	
Rated torque	: 4	43 ft.lb	Insulation	class	: F	
Locked rotor torque	e :1	50 %	Service fa	ctor	: 1.00	
Breakdown torque	: 1	90 %	Temperature rise		: 105 K	
Rated speed	: 2	.962 rpm	Design		: B	
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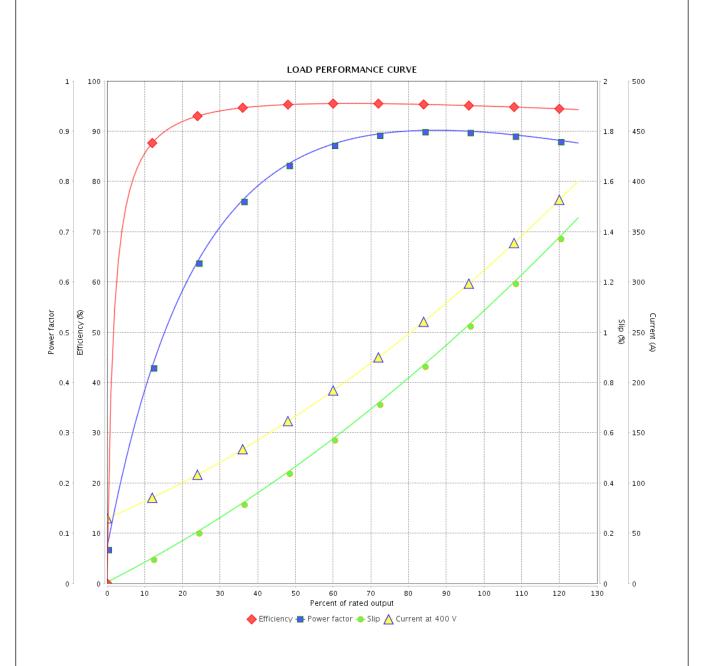
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 25036ST3QIE449TS-W22

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Performance	: 400 V 50 Hz 2P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 312 A : 5.8 : 442 ft.lb : 160 % : 220 % : 2967 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 50.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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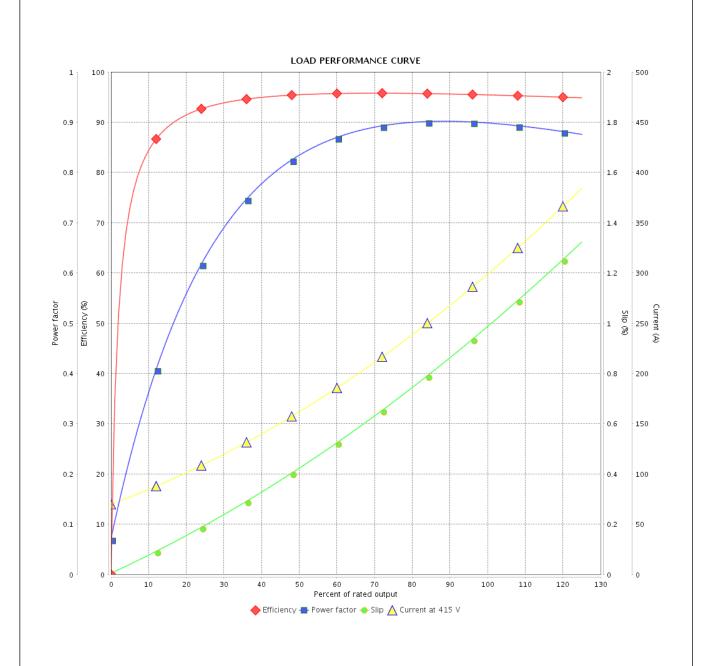


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11432185

Phase

Catalog #: 25036ST3QIE449TS-W22



Performance : 415 V 50 Hz		15 V 50 Hz 2P IE2				
Rated current	: 3	00 A	Moment o	f inertia (J)	: 50.3 sq.ft.lb	
LRC	: 6	.4	Duty cycle	}	: Cont.(S1)	
Rated torque	: 4	42 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 1	80 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	29 %	Temperature rise		: 105 K	
Rated speed	: 2	970 rpm	Design		: B	
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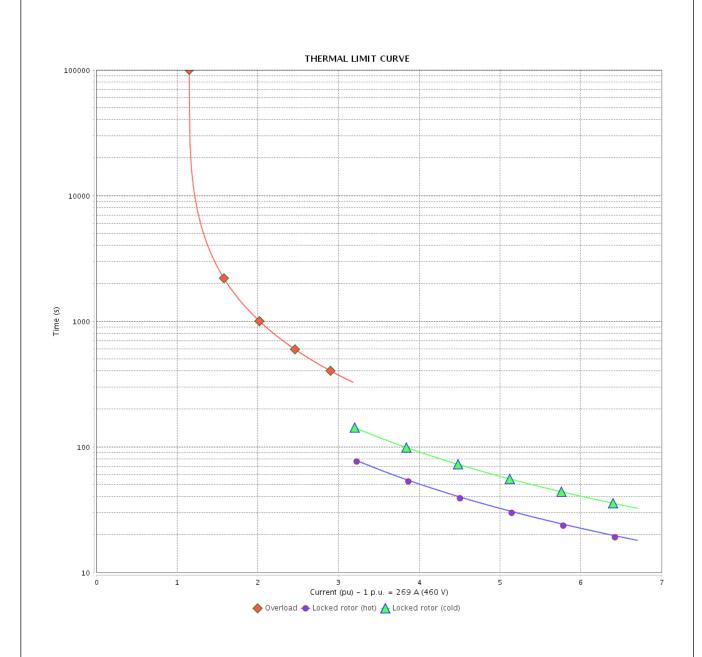


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Customer	:			
Product line	: NEMA Premium Efficiency ⁻ Phase		11432185	
		Catalog # :	25036ST3QIE	E449TS-W22
Performance	: 460 V 60 Hz 2P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 269 A : 6.7 : 367 ft.lb : 200 % : 240 % : 3573 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 50.3 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant				
Cooling constant				
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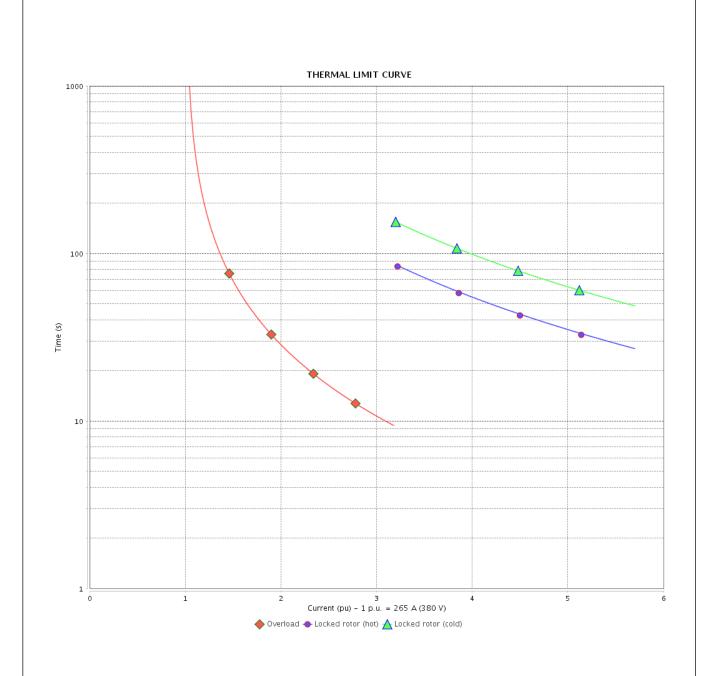


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Product line		NEMA Premium Efficiency l		Product code :	11432185	
			(Catalog # :	25036ST3QIE	449TS-W22
Performance		30 V 50 Hz 2P IE3				
Rated current LRC	: 26 : 5.	65 A	Moment of	f inertia (J)	: 50.3 sq.ft.lb	
Rated torque		7 53 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torque		90 %	Service fac		: 1.15	
Breakdown torque Rated speed	: 24	10 % 973 rpm	Temperatu Design		: 105 K : B	
Heating constant						
Cooling constant						
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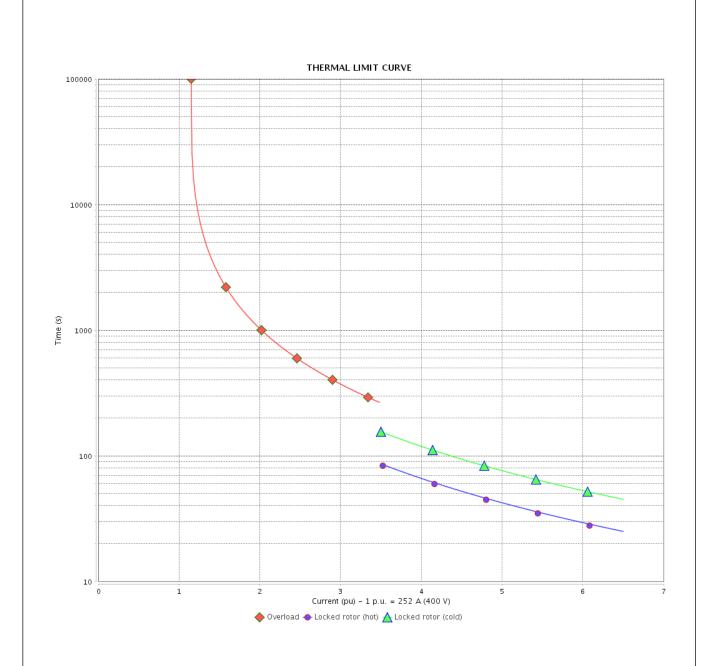


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11432185 25036ST3QIE	2440TS W22
				Catalog # .	25050515Q1E	44913-7722
Performance		: 400 V 50 Hz 2P IE3				
Rated current		: 252 A	Moment o	of inertia (J)	: 50.3 sq.ft.lb	
LRC Rated torque		: 6.5 : 353 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor toro		: 210 %	Service fa		: 1.15	
Breakdown torqu Rated speed		: 270 % : 2977 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constant						
Cooling constant						
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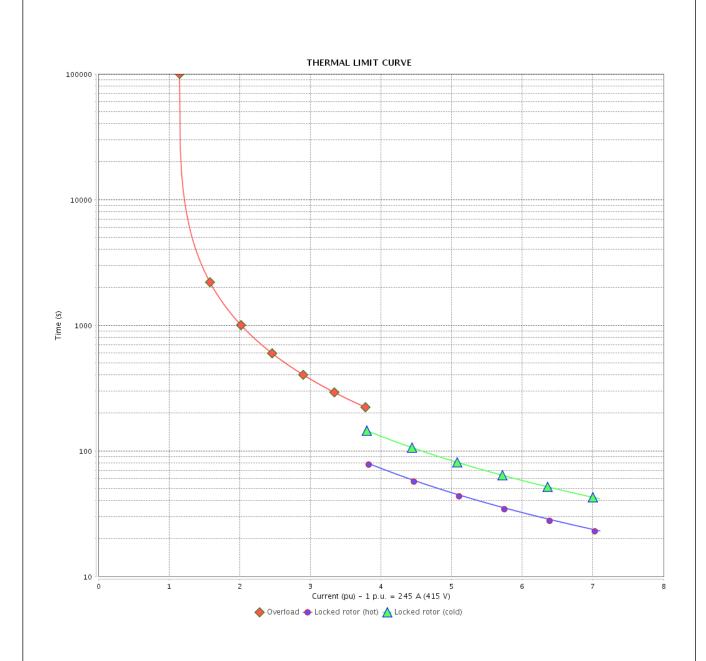


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Customer	:			
Product line	: NEMA Premium Efficiency Phase		11432185	
		Catalog #:	25036ST3QI	E449TS-W22
Performance	: 415 V 50 Hz 2P IE3			
Rated current	: 245 A	Moment of inertia (J)	: 50.3 sq.ft.lb	
LRC Rated torque	: 7.1 : 353 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F	
Locked rotor torque	: 220 %	Service factor	: 1.15	
Breakdown torque	: 300 %	Temperature rise	: 80 K	
Rated speed	: 2979 rpm	Design	: B	
Heating constant Cooling constant				
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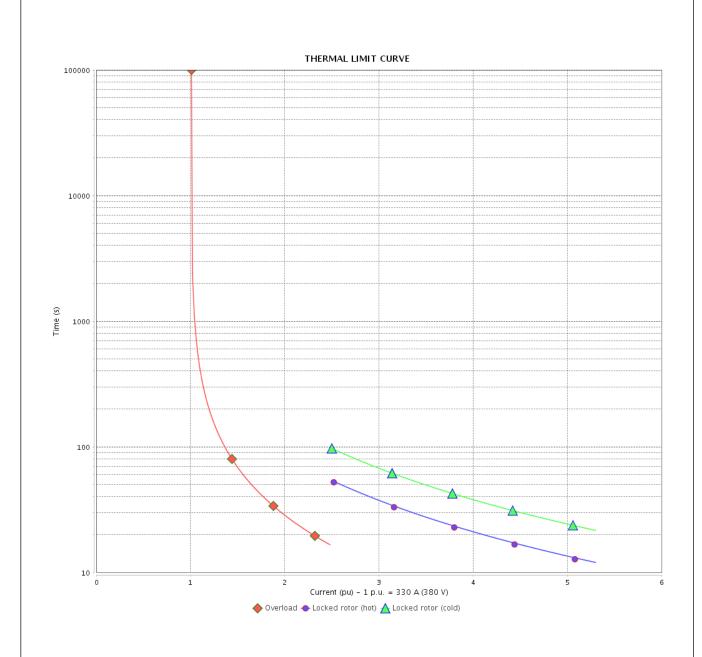


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11432185 25036ST3QIE	449TS-W22
Performance		: 380 V 50 Hz 2P IE1				
Rated current LRC		: 330 A : 5.3	Moment of	of inertia (J)	: 50.3 sq.ft.lb : Cont.(S1)	
Rated torque		: 443 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 150 % : 190 %	Service fa Temperat		: 1.00 : 105 K	
Rated speed		: 2962 rpm	Design		: B	
Heating constant						
Cooling constant	l 	Changes Summary		Performed	Checked	Date
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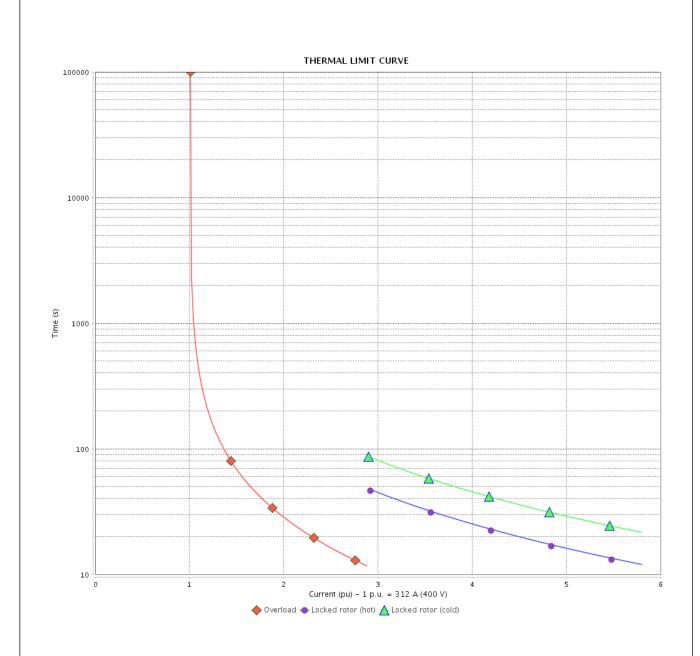


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11432185 25036ST3QIE	449TS-W22
Performance		: 400 V 50 Hz 2P IE2				
Rated current		: 312 A	Moment o	f inertia (J)	: 50.3 sq.ft.lb	
LRC Rated torque		: 5.8 : 442 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Rated torque Locked rotor tord	que	: 160 %	Service fa		: 1.00	
Breakdown torqu Rated speed	ie :	: 220 % : 2967 rpm	Temperatu Design		: 105 K : B	
Heating constant						
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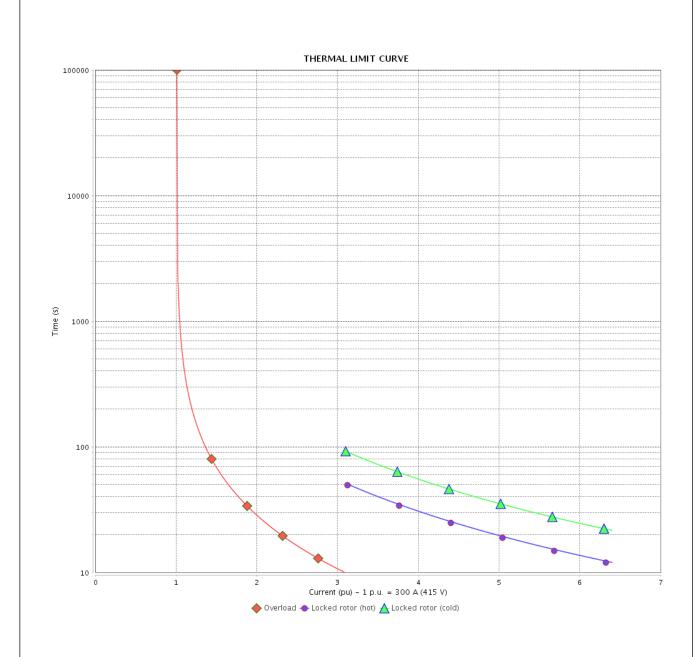


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11432185 25036ST3QIE	449TS-W22
Performance		: 415 V 50 Hz 2P IE2				
Rated current LRC		: 300 A : 6.4	Moment of Duty cycle	of inertia (J)	: 50.3 sq.ft.lb : Cont.(S1)	
Rated torque		: 442 ft.lb : 180 %	Insulation Service fa	class	: F : 1.00	
Locked rotor tord Breakdown torqu	ie	: 229 %	Temperat		: 105 K	
Rated speed		: 2970 rpm	Design		: B	
Heating constant						
Cooling constant	l 	Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



Customer



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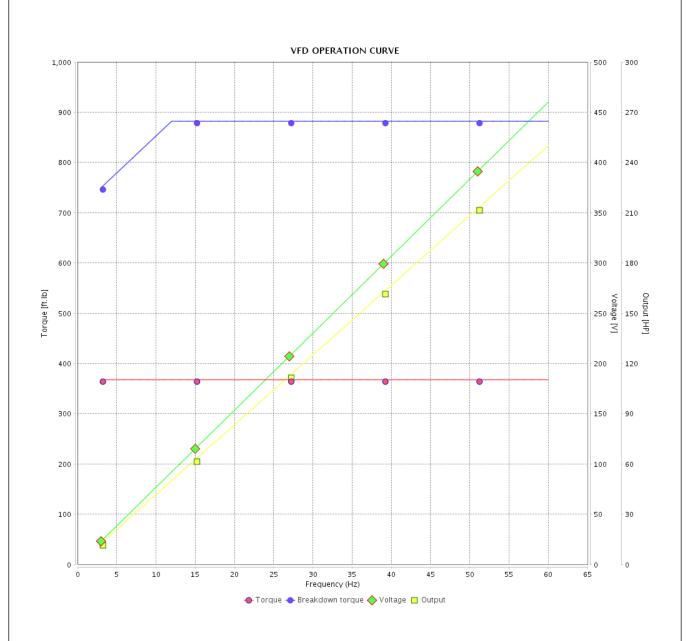
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11432185

Catalog #: 25036ST3QIE449TS-W22

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Performance : 460 V 60 Hz 2P Rated current : 269 A Moment of inertia (J) : 50.3 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 367 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 3573 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

Three Phase Induction Motor - Squirrel Cage



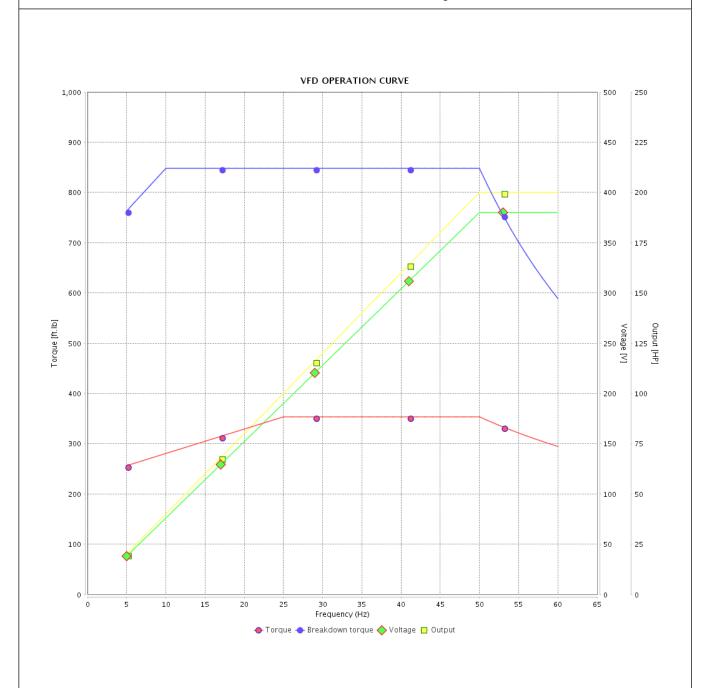
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 25036ST3QIE449TS-W22

11432185



Performance	: 3	80 V 50 Hz 2P IE3				
Rated current	: 2	65 A	Moment o	f inertia (J)	: 50.3 sq.ft.lb	
LRC	: 5	.7	Duty cycle	:	: Cont.(S1)	
Rated torque	: 3	53 ft.lb	Insulation	class	: F	
Locked rotor torque	e :1	90 %	Service fa	ctor	: 1.15	
Breakdown torque	: 2	40 %	Temperati	ıre rise	: 105 K	
Rated speed	: 2	973 rpm	Design		: B	
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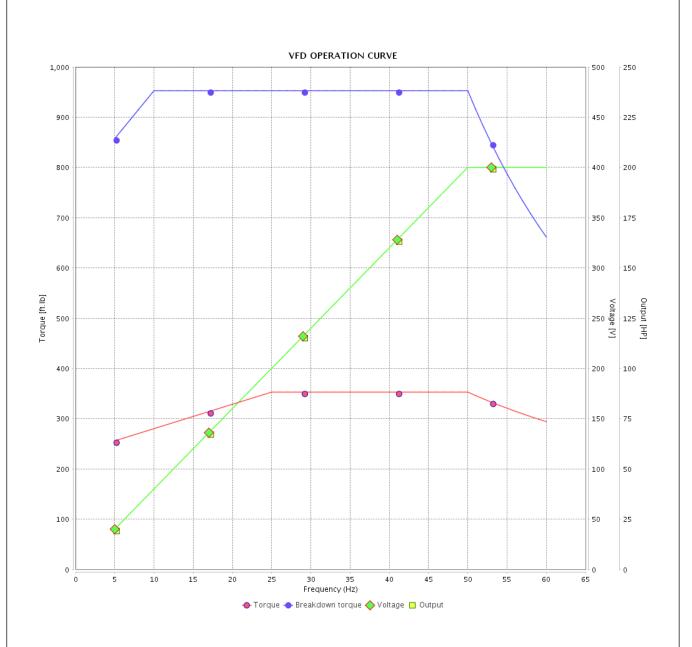
Product line : NEMA Premium Efficiency Three-

Phase

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	,					
Performance	:	400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	; que ;	252 A 6.5 353 ft.lb 210 % 270 % 2977 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 50.3 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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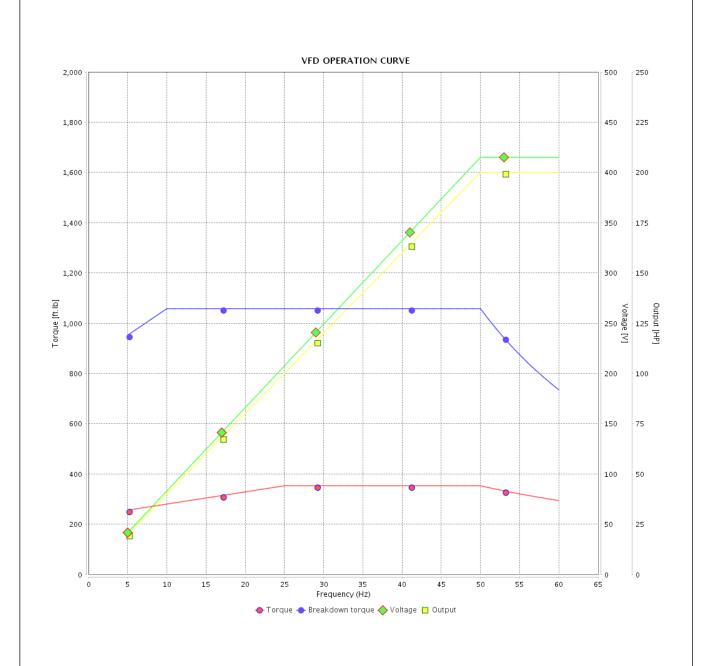


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11432185

Phase

Catalog #: 25036ST3QIE449TS-W22



Performance	: 4	15 V 50 Hz 2P IE3				
Rated current	: 2	245 A	Moment o	f inertia (J)	: 50.3 sq.ft.lb	
LRC	: 7	' .1	Duty cycle		: Cont.(S1)	
Rated torque	: 3	353 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2	220 %	Service fa	ctor	: 1.15	
Breakdown torque	e : 3	800 %	Temperatu	ıre rise	: 80 K	
Rated speed	: 2	.979 rpm	Design		: B	
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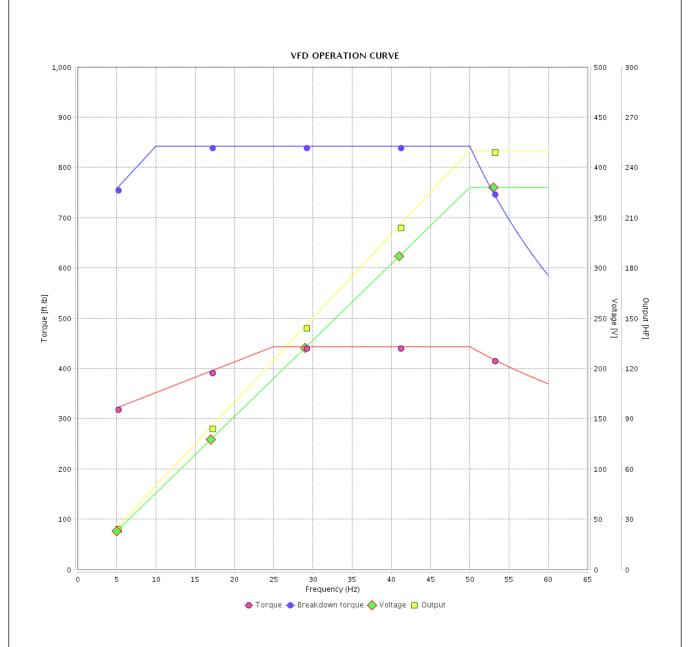
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11432185

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Performance	: 380 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 330 A : 5.3 : 443 ft.lb : 150 % : 190 % : 2962 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	class tor	: 50.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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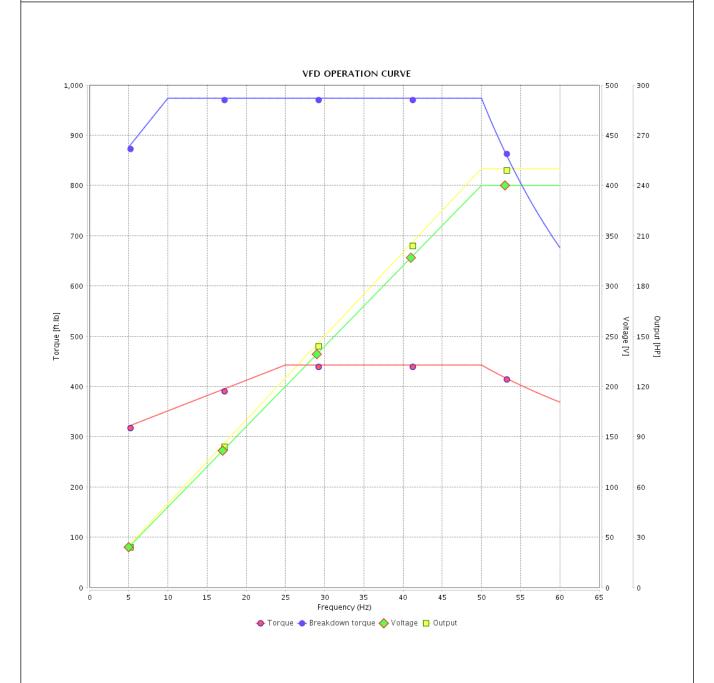
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

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11432185



Performance		: 400 V 50 Hz 2P IE2							
Rated current	:	: 312 A Moment of inertia (J)		f inertia (J)	: 50.3 sq.ft.lb				
LRC	:	5.8	Duty cycle		: Cont.(S1)				
Rated torque	:	: 442 ft.lb		class	: F				
Locked rotor torque	e :	160 %	Service factor		: 1.00				
Breakdown torque	:	220 %	Temperature rise Design		: 105 K : B				
Rated speed	:	2967 rpm							
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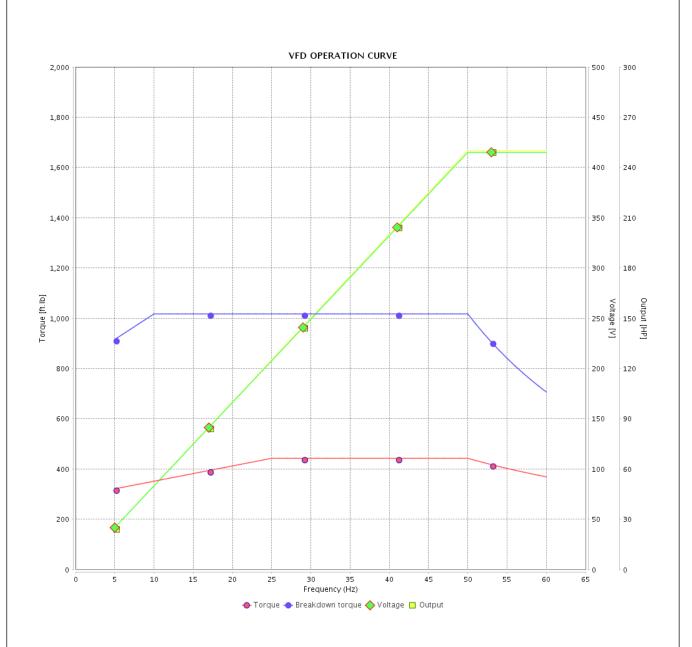


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Product line : NEMA Premium Efficiency Three-

Product code: 11432185

Catalog #: 25036ST3QIE449TS-W22



Performance	: 4	: 415 V 50 Hz 2P IE2							
Rated current	: 3	800 A	Moment of inertia (J)		: 50.3 sq.ft.lb				
LRC	: 6	5.4	Duty cycle	Duty cycle Insulation class Service factor Temperature rise		: Cont.(S1) : F			
Rated torque	: 4	42 ft.lb	Insulation						
Locked rotor tord	que : 1	80 %	Service fa						
Breakdown torqu	ie : 2	29 %	Temperati						
Rated speed	: 2	.970 rpm	Design		: B				
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