DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11431378

Catalog #: 07536ST3QIE365TS-W22

Frame : 364/5TS 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

Altitude : 1000 m.a.s.l. Approx. weight3 : 910 lb

Ailitude		. 1000 III.a.	S.I.	Applox	t. weigitt	. 3	OID ID	
Protection degree	е	: IP55		Momer	nt of inertia (J)) : 1	1.9 sq.ft.lb	
Design		: B						
Output [HP]		75	50	50	50	75	75	75
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]		81.9	66.7	64.8	62.4	100	94.8	91.4
L. R. Amperes [A]		541	520	551	568	520	550	567
LRC [A]			7.8x(Code H)	8.5x(Code J)	9.1x(Code K)	5.2x(Code E)	5.8x(Code F)	6.2x(Code F)
No load current [A	1	G) 19.0	18.0	19.0	20.0	18.0	19.0	20.0
Rated speed [RPN		3550	2960	2965	2970	2930	2940	2950
Slip [%]		1.39	1.33	1.17	1.00	2.33	2.00	1.67
Rated torque [ft.lb]		111	88.7	88.6	88.4	134	134	134
Locked rotor torqu	e [%]	220	240	260	290	160	175	190
Breakdown torque	[%]	270	320	350	380	200	220	240
Service factor		1.25	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K	105 K	105 K	105 K
Locked rotor time		18s (cold)	12s (cold)	12s (cold)	12s (cold)	12s (cold)	12s (cold)	12s (cold)
		10s (hot)	7s (hot)	7s (hot)	7s (hot)	7s (hot)	7s (hot)	7s (hot)
Noise level ²		79.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)
	25%							
Efficiency (%)	50%	92.4	91.2	91.5	91.8	92.4	92.4	93.0
Lincicity (70)	75%	93.6	92.5	93.0	93.1	93.0	93.0	93.6
	100%	93.6	93.7	93.7	93.7	92.4	93.0	93.0
	25%							
Power Factor	50%	0.83	0.75	0.72	0.70	0.86	0.84	0.83

Non drive end Drive end Foundation loads

0.83

0.88

0.82

0.88

6314 C3 Bearing type 6314 C3 Max. traction : 642 lb Sealing Inpro/Seal Inpro/Seal : 1552 lb Max. compression 4000 h

0.85

0.90

4000 h Lubricant amount 27 g 27 g Mobil Polyrex EM Lubricant type

0.88

0.90

75%

100%

Notes

Power Factor

Lubrication interval

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.

0.90

0.90

0.89

0.90

0.88

0.90

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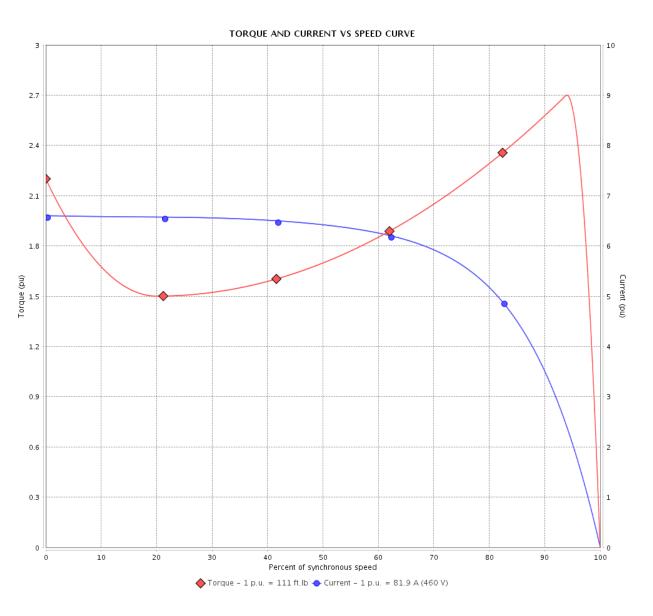
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 07536ST3QIE365TS-W22

11431378



Performance	: 460 V 60 Hz 2P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 81.9 A : 6.6 : 111 ft.lb : 220 % : 270 % : 3550 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 11.9 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Locked rotor time	: 18s (cold) 10s (hot)	'		
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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11431378 Catalog #: 07536ST3QIE365TS-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Current Torque (pu) 0.5 Percent of synchronous speed 🔷 Torque – 1 p.u. = 88.7 ft.lb 🔷 Current – 1 p.u. = 66.7 A (380 V)

Performance : 380 V 50 Hz 2P IE3 Rated current : 66.7 A Moment of inertia (J) : 11.9 sq.ft.lb **LRC** : 7.8 Duty cycle : Cont.(S1) : 88.7 ft.lb Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 320 % Temperature rise : 80 K : B Rated speed : 2960 rpm Design

Locked rotor time : 12s (cold) 7s (hot)

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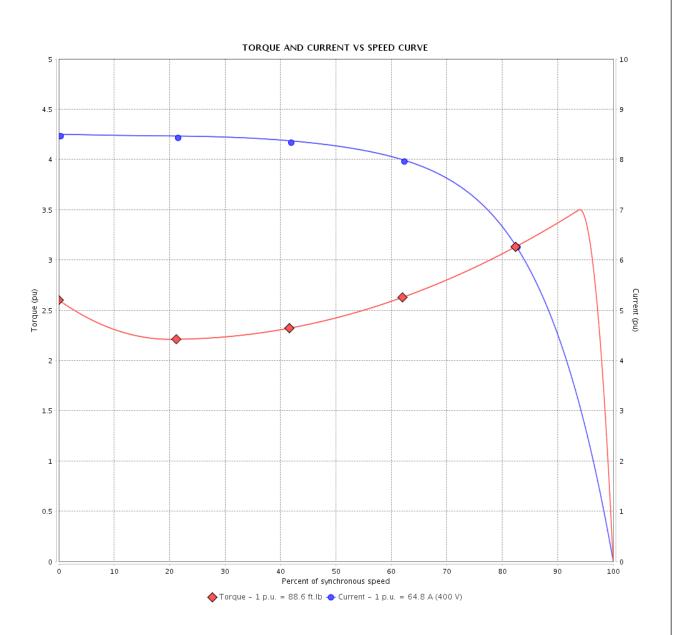


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11431378

Phase

Catalog #: 07536ST3QIE365TS-W22



Performance : 400 V 50 Hz 2P IE3 Rated current : 64.8 A Moment of inertia (J) : 11.9 sq.ft.lb **LRC** : 8.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 88.6 ft.lb : F Locked rotor torque : 260 % Service factor : 1.00 Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 2965 rpm Design : B Locked rotor time : 12s (cold) 7s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11431378 Catalog #: 07536ST3QIE365TS-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 88.4 ft.lb ◆ Current - 1 p.u. = 62.4 A (415 V) Performance : 415 V 50 Hz 2P IE3 Rated current : 62.4 A Moment of inertia (J) : 11.9 sq.ft.lb **LRC** : 9.1 Duty cycle : Cont.(S1) : 88.4 ft.lb Insulation class Rated torque : F : 290 % Locked rotor torque Service factor : 1.00 Breakdown torque : 380 % Temperature rise : 80 K Rated speed : 2970 rpm Design : B Locked rotor time : 12s (cold) 7s (hot) Rev. **Changes Summary** Performed Checked Date Performed by

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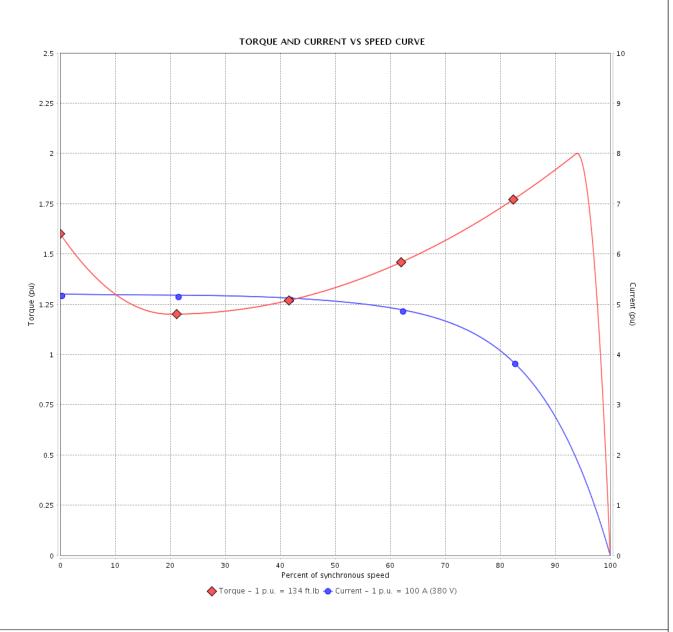
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 07536ST3QIE365TS-W22

11431378



Performance : 380 V 50 Hz 2P IE1 Rated current : 100 A Moment of inertia (J) : 11.9 sq.ft.lb **LRC** : 5.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 134 ft.lb : F Service factor Locked rotor torque : 160 % : 1.00 Breakdown torque : 200 % Temperature rise : 105 K Rated speed : 2930 rpm Design : B

Locked rotor time : 12s (cold) 7s (hot)

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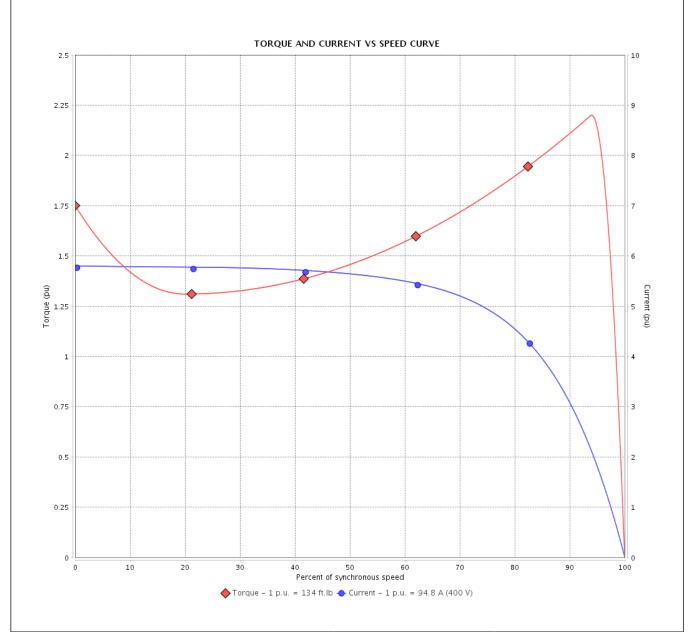


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11431378

Phase

Catalog #: 07536ST3QIE365TS-W22



Performance	: 400 V 50 Hz 2P IE1		
Rated current	: 94.8 A	Moment of inertia (J)	: 11.9 sq.ft.lb
LRC	: 5.8	Duty cycle	: Cont.(S1)
Rated torque	: 134 ft.lb	Insulation class	: F
Locked rotor torque	: 175 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 105 K
Rated speed	: 2940 rpm	Design	: B
Locked rotor time	: 12s (cold) 7s (hot)	l.	

LOCKCU TOTOL TITLE	. 1.	23 (cold) 73 (1101)			
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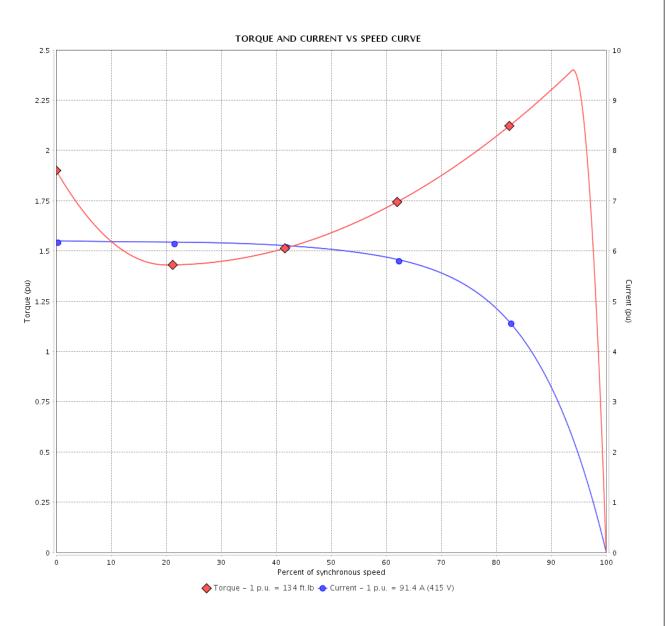


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11431378

Phase

Catalog #: 07536ST3QIE365TS-W22



Performance	: 415 V 50 Hz 2P IE1			
Rated current	: 91.4 A	Moment of inertia (J)	: 11.9 sq.ft.lb	
LRC	: 6.2	Duty cycle	: Cont.(S1)	
Rated torque	: 134 ft.lb	Insulation class	: F	
Locked rotor torque	: 190 %	Service factor	: 1.00	
Breakdown torque	: 240 %	Temperature rise	: 105 K	
Rated speed	: 2950 rpm	Design	: B	
Locked rotor time	: 12s (cold) 7s (hot)			

Locked rotor time : 12s (cold) 7s (hot)

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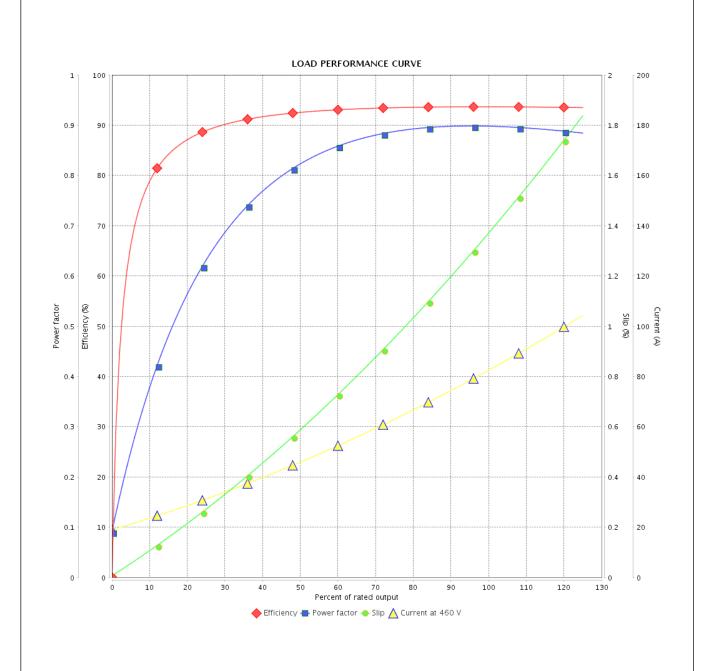
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 11431378

Catalog #: 07536ST3QIE365TS-W22



Performance	: 4	60 V 60 Hz 2P				
Rated current	: 8	1.9 A	Moment of	of inertia (J)	: 11.9 sq.ft.lb	
LRC	: 6	.6	Duty cycle	e	: Cont.(S1)	
Rated torque	: 1	11 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 2	20 %	Service fa	ictor	: 1.25	
Breakdown torqu	e : 2	70 %	Temperati	ure rise	: 80 K	
Rated speed	: 3	550 rpm	Design		: B	
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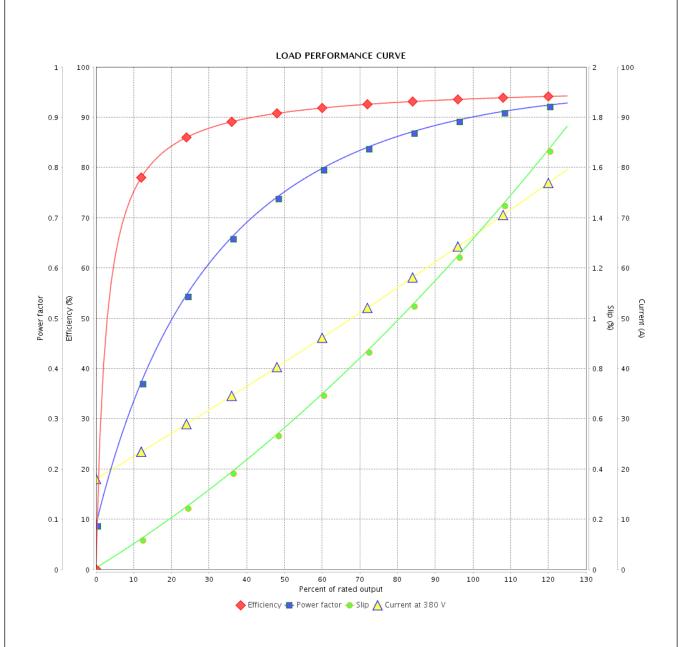
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Phase

Product code: 11431378

Catalog #: 07536ST3QIE365TS-W22

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Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 66.7 A : 7.8 : 88.7 ft.lb : 240 % : 320 % : 2960 rpm	Moment of Duty cycle Insulation of Service fact Temperatu Design	class ctor	: 11.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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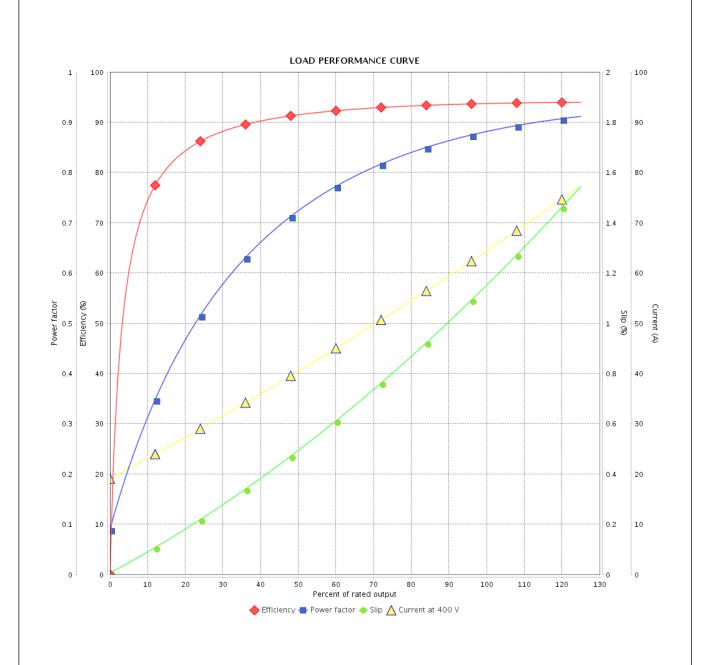


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431378

Phase

Catalog #: 07536ST3QIE365TS-W22



Performance	: 4	00 V 50 Hz 2P IE3				
Rated current	ed current : 64.8 A		Moment o	f inertia (J)	: 11.9 sq.ft.lb	
LRC	: 8	.5	Duty cycle	;	: Cont.(S1)	
Rated torque	: 8	8.6 ft.lb	Insulation	class	: F	
Locked rotor torque : 260 %		60 %	Service fa	ctor	: 1.00	
Breakdown torque	: 3	50 %	Temperature rise		: 80 K	
Rated speed	: 2	2965 rpm Desi			: B	
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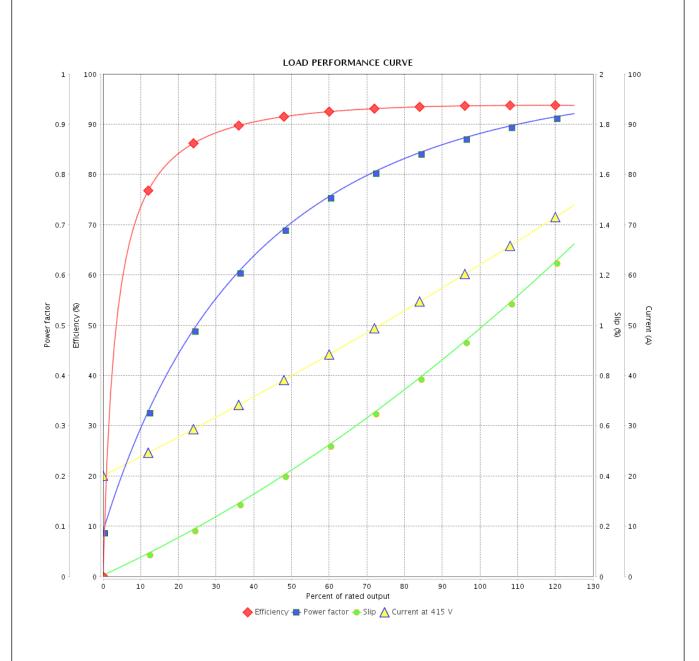
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 07536ST3QIE365TS-W22

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Performance	: 4	15 V 50 Hz 2P IE3				
Rated current : 62.4 A LRC : 9.1 Rated torque : 88.4 ft.lb Locked rotor torque : 290 %		.1 8.4 ft.lb 90 %	Moment of inertia (J) Duty cycle Insulation class Service factor		: 11.9 sq.ft.lb : Cont.(S1) : F : 1.00	
Breakdown torque Rated speed		80 % 970 rpm	Temperati Design	ure rise	: 80 K : B	
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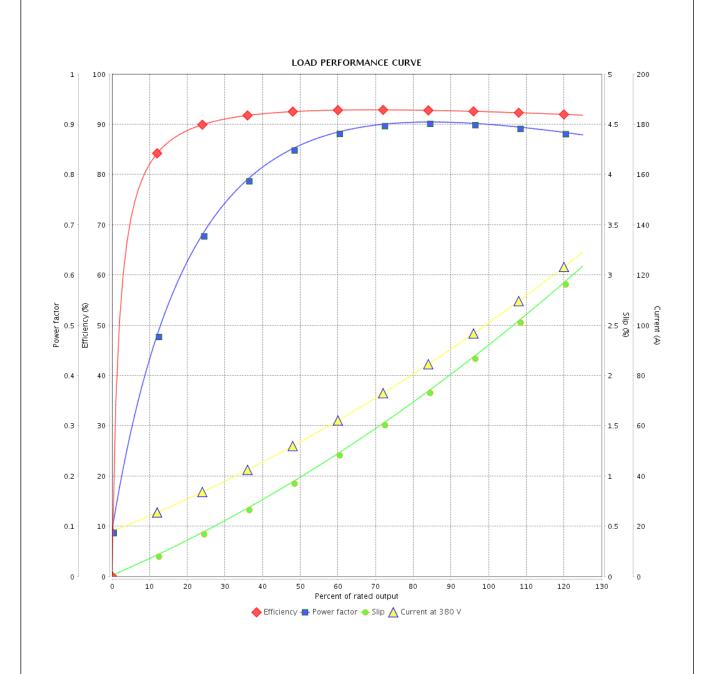


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Product line : NEMA Premium Efficiency Three- Product code : 11431378

Phase

Catalog #: 07536ST3QIE365TS-W22



Performance	: 3	80 V 50 Hz 2P IE1				
Rated current	ed current : 100 A		Moment of	f inertia (J)	: 11.9 sq.ft.lb	
LRC	: 5	: 5.2)	: Cont.(S1)	
Rated torque	: 1	34 ft.lb	Insulation	class	: F	
Locked rotor torque : 160 %		60 %	Service fa	ctor	: 1.00	
Breakdown torque		00 %	Temperati	Temperature rise		
Rated speed	: 2	930 rpm	Design		: B	
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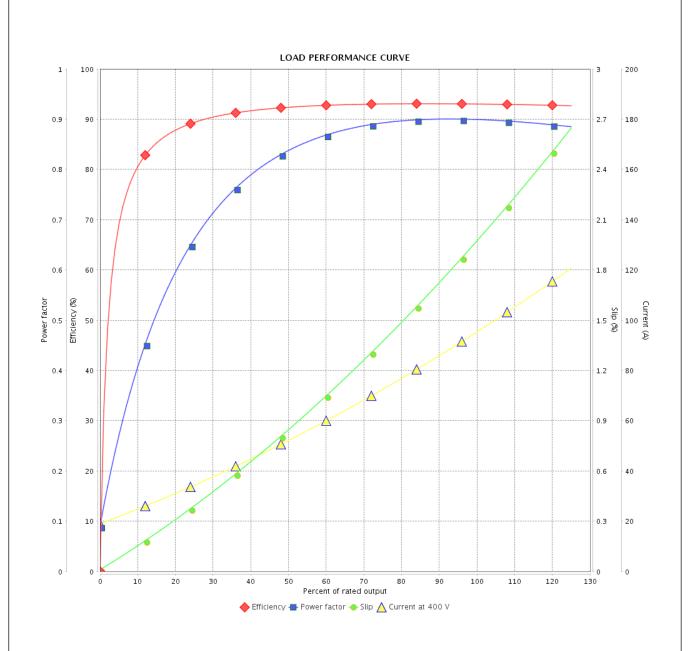
Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11431378

Phase

Catalog # : 07536ST3QIE365TS-W22

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Performance	: 400 V 50 Hz 2P IE1			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 94.8 A : 5.8 : 134 ft.lb : 175 % : 220 % : 2940 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 11.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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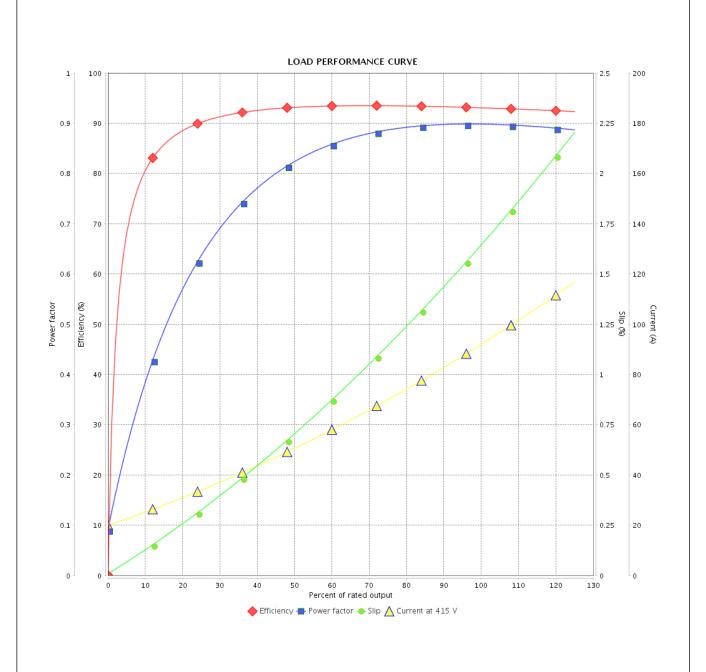


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431378

Phase

Catalog #: 07536ST3QIE365TS-W22



Performance	: 4	: 415 V 50 Hz 2P IE1				
Rated current	Rated current : 91.4 A		Moment o	Moment of inertia (J)		
LRC	: 6	2	Duty cycle	;	: Cont.(S1)	
Rated torque	: 13	34 ft.lb	Insulation	class	:F	
Locked rotor torque : 190 %		90 %	Service fa	ctor	: 1.00	
Breakdown torque		40 %	Temperati	Temperature rise		
Rated speed	: 29	2950 rpm Desigr			: B	
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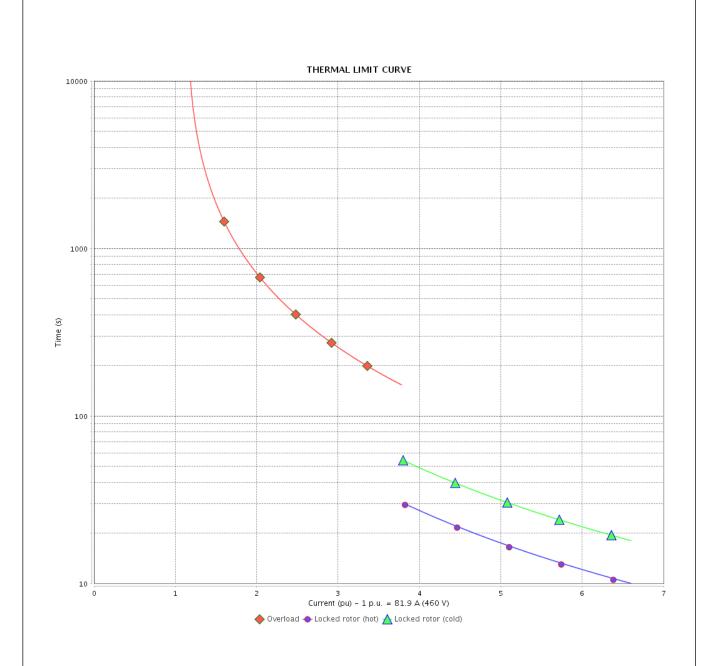


Customer	:				
Product line	: NEMA Premium Efficie Phase		Product code : Catalog # :	11431378 07536ST3QIE	365TS-W22
Performance	: 460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 81.9 A : 6.6 : 111 ft.lb : 220 % : 270 % : 3550 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ictor	: 11.9 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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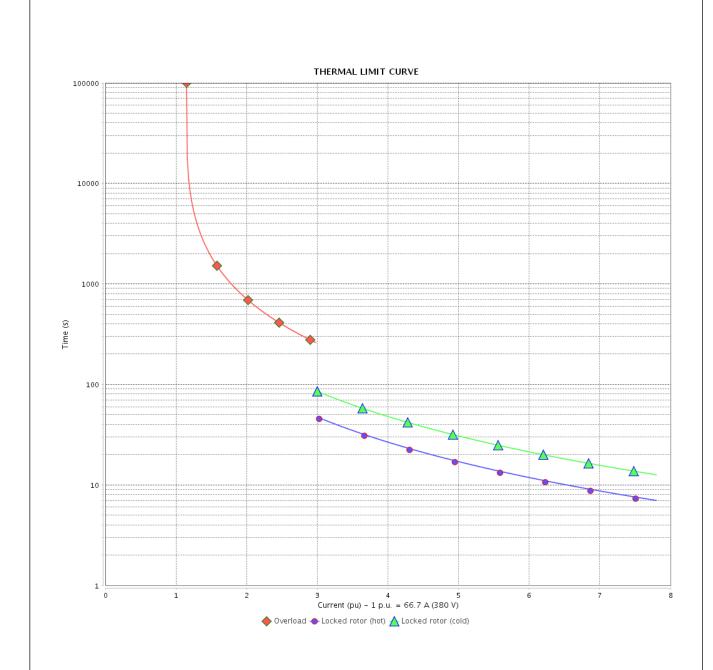


Customer		:				
Product line		: NEMA Premium Efficiency [*] Phase		Product code :	11431378 07536ST3QI	E365TS-W22
Performance Rated current LRC Rated torque Locked rotor toro Breakdown torque Rated speed	: : : que : ie :	380 V 50 Hz 2P IE3 66.7 A 7.8 88.7 ft.lb 240 % 320 % 2960 rpm	Moment or Duty cycle Insulation Service fa Temperatu Design	class ctor	: 11.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant Rev.	t	Changes Summary		Performed	Checked	Date
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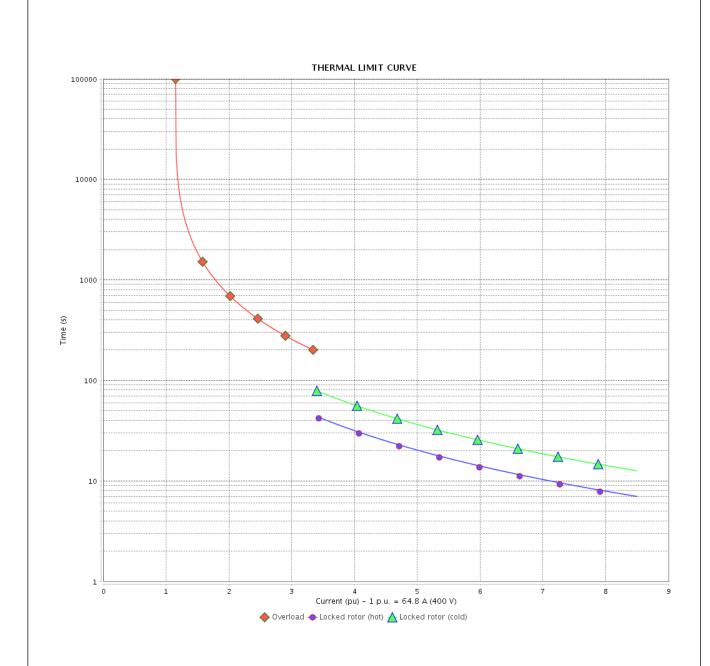


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Customer	:					
Product line		NEMA Premium Efficiency l		Product code :	11431378	
			(Catalog # :	07536ST3QI	E365TS-W22
Performance	: 40	00 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 8. : 88 ue : 26 e : 38	4.8 A 5 3.6 ft.lb 60 % 50 % 965 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor	: 11.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
		•				
Heating constant Cooling constant						
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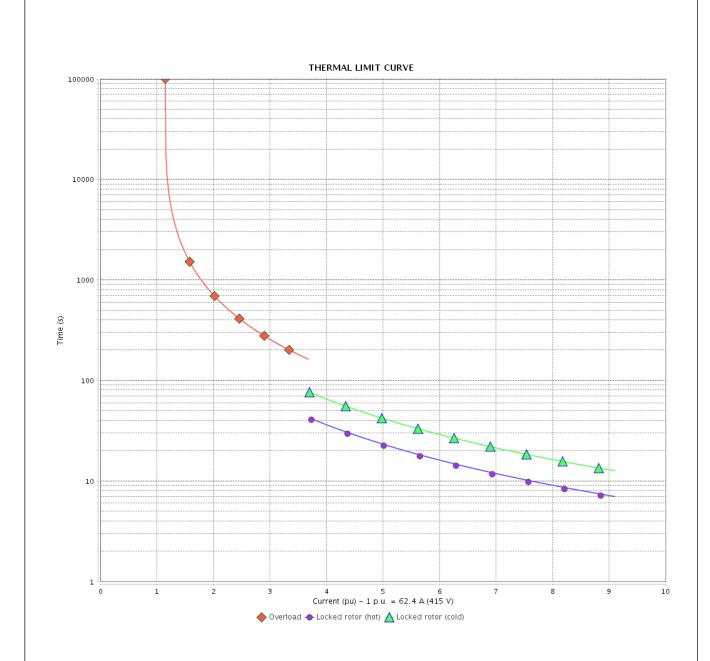


Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	11431378	
		Tildac		Catalog # :	07536ST3QIE	365TS-W22
Performance		: 415 V 50 Hz 2P IE3				
Rated current		: 62.4 A	Moment of	of inertia (J)	: 11.9 sq.ft.lb	
LRC		: 9.1	Duty cycle	е	: Cont.(S1)	
Rated torque Locked rotor tord		: 88.4 ft.lb : 290 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ie :	: 380 %	Temperat		: 80 K	
Rated speed		: 2970 rpm	Design		: B	
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Cooling constant	t	Changes Commercial		Douts was!	Charles	Data
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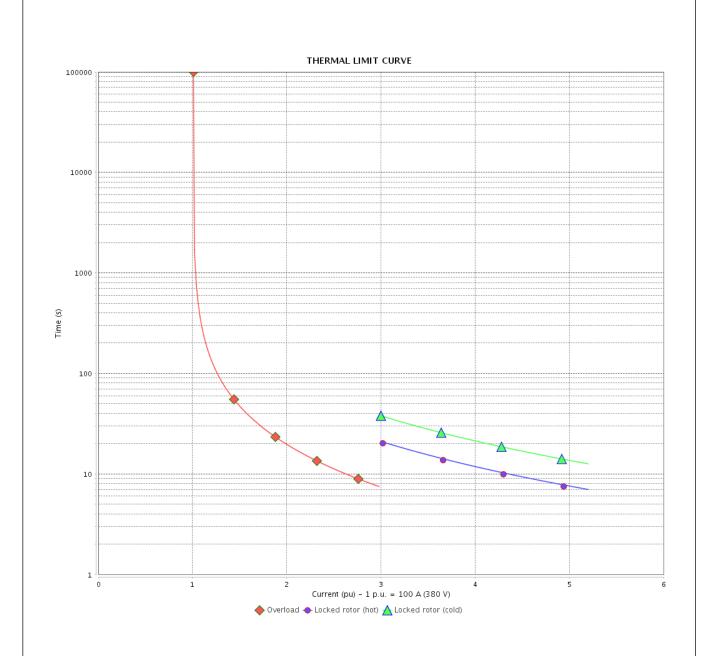


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Customer	:				
Product line	: NEMA Premium Efficiency ⁻ Phase		Product code :	11431378	
		(Catalog # :	07536ST3QIE	E365TS-W22
Performance	: 380 V 50 Hz 2P IE1				
LRC Rated torque Locked rotor torque Breakdown torque	: 100 A : 5.2 : 134 ft.lb : 160 % : 200 % : 2930 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor	: 11.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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Heating constant					
Cooling constant	Changes Cummer:		Dorformad	Charles	Doto
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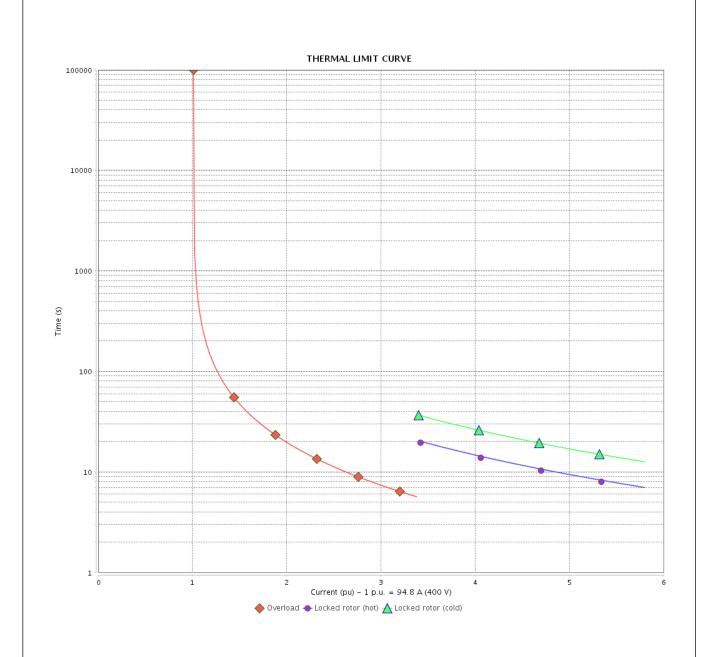


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11431378 07536ST3QIE	:365TS-W22
Performance		: 400 V 50 Hz 2P IE1				
Rated current		: 94.8 A : 5.8	Moment o	of inertia (J)	: 11.9 sq.ft.lb	
LRC Rated torque		: 134 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor tord		: 175 %	Service fa		: 1.00 : 105 K	
Breakdown torqu Rated speed		: 220 % : 2940 rpm	Temperat Design	uic iise	: 105 K : B	
Heating constan						
Cooling constant	t			, ,	T	
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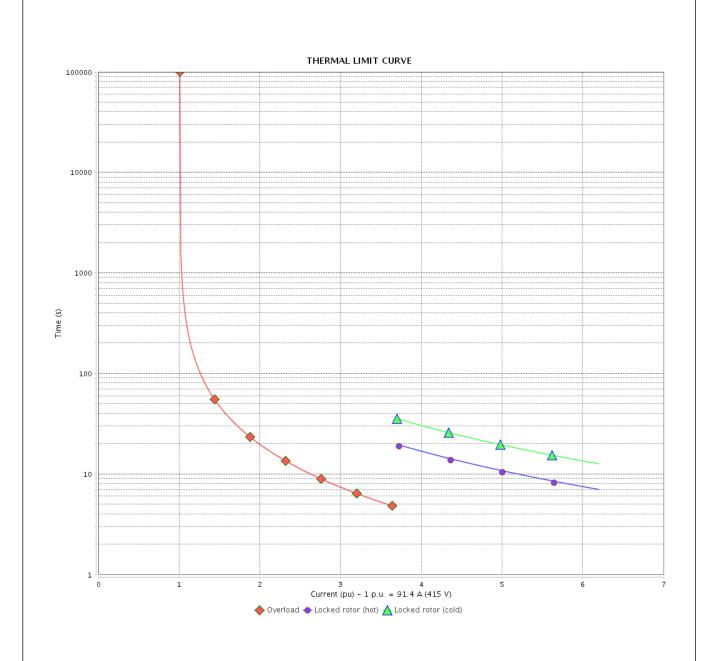


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11431378 07536ST3QIE	:365TS-W22
					<u> </u>	
Performance		: 415 V 50 Hz 2P IE1				
Rated current LRC		: 91.4 A : 6.2	Moment of Duty cycle	of inertia (J) e	: 11.9 sq.ft.lb : Cont.(S1)	
Rated torque		: 134 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 190 % : 240 %	Service fa Temperat		: 1.00 : 105 K	
Rated speed		: 2950 rpm	Design		: B	
Heating constant						
Cooling constant	t .	Changes Summary		Performed	Checked	Date
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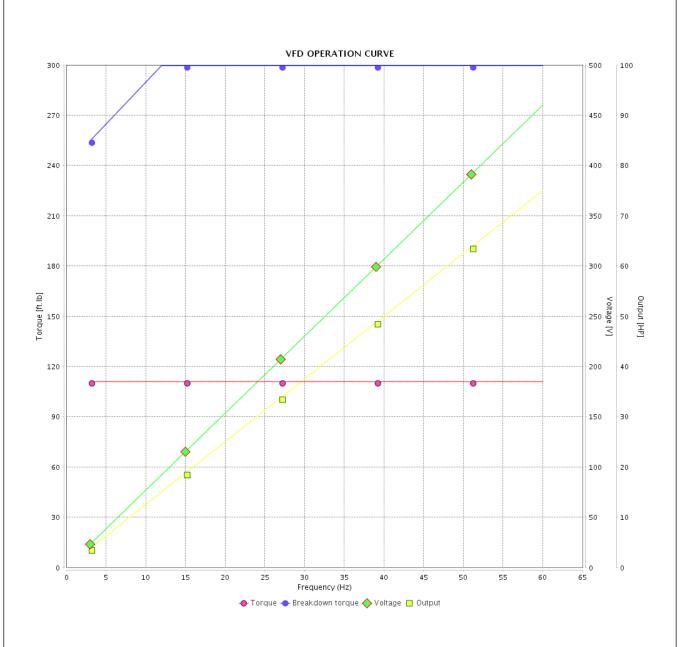
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance : 460 V 60 Hz 2P Rated current : 81.9 A Moment of inertia (J) : 11.9 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.6 Insulation class : 111 ft.lb : F Rated torque Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 3550 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

Three Phase Induction Motor - Squirrel Cage

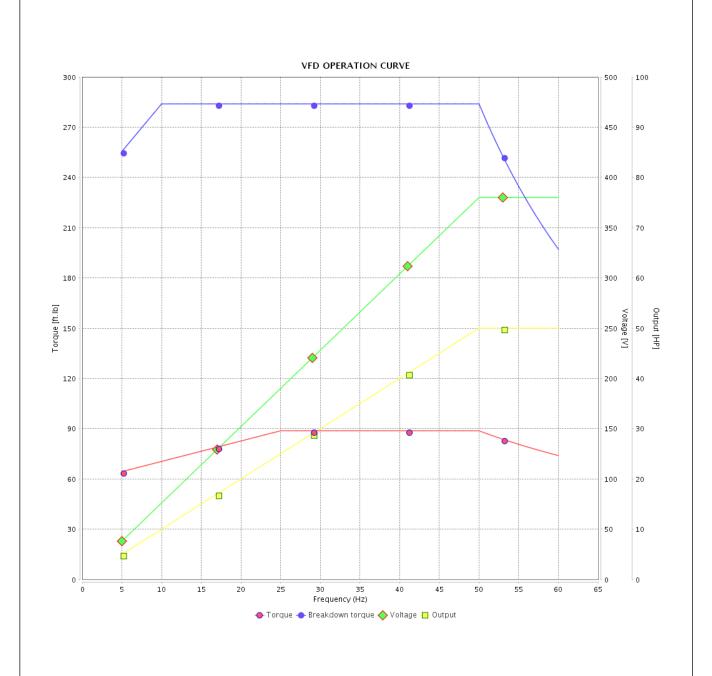


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431378

Phase

Catalog #: 07536ST3QIE365TS-W22



	,				,	
Performance	: 38	30 V 50 Hz 2P IE3				
Rated current	: 66	6.7 A	Moment o	f inertia (J)	: 11.9 sq.ft.lb	
LRC	: 7.	8	Duty cycle	;	: Cont.(S1)	
Rated torque	: 88	3.7 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 24	10 %	Service fa	ctor	: 1.00	
Breakdown torque		20 %	Temperature rise		: 80 K	
Rated speed	: 29	: 2960 rpm Design		: B		
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Customer :

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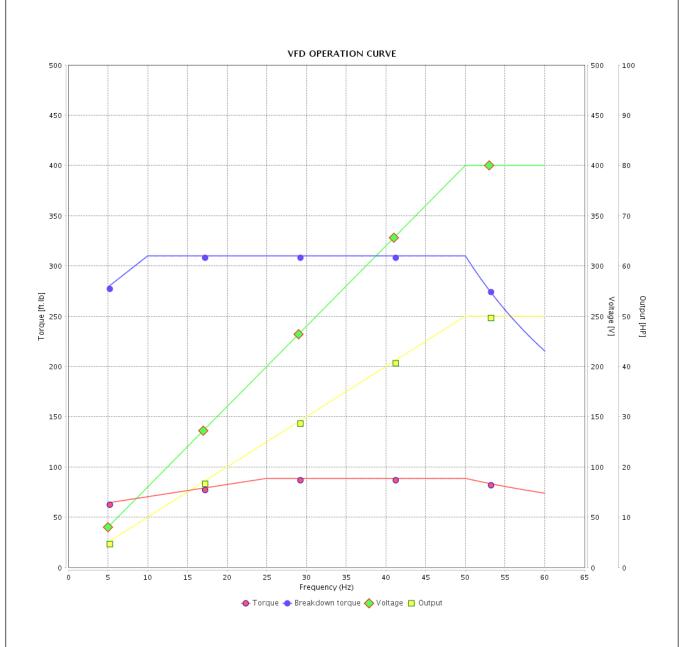
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11431378

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Performance : 400 V 50 Hz 2P IE3 Rated current : 64.8 A Moment of inertia (J) : 11.9 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 8.5 : 88.6 ft.lb Insulation class : F Rated torque Locked rotor torque : 260 % Service factor : 1.00 Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 2965 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

Three Phase Induction Motor - Squirrel Cage

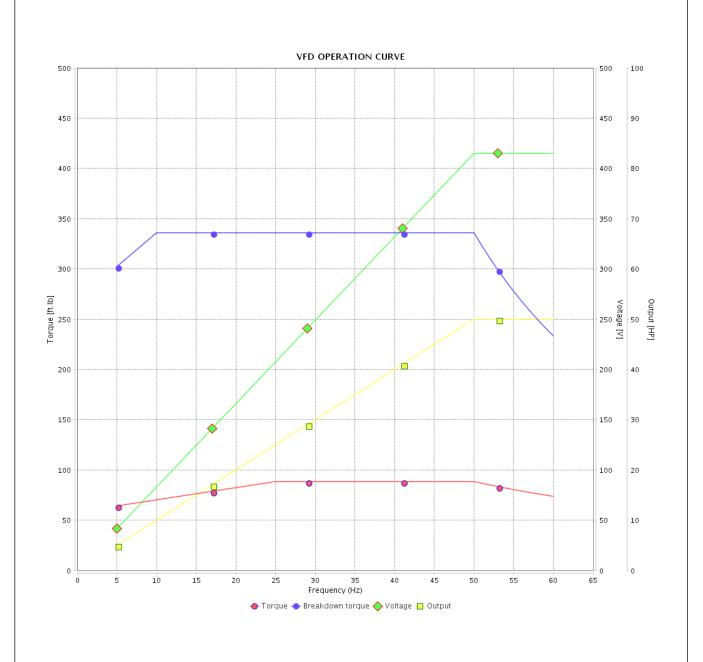


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431378

Phase

Catalog #: 07536ST3QIE365TS-W22



Performance	: 4	15 V 50 Hz 2P IE3				
Rated current	: 6	2.4 A	Moment o	f inertia (J)	: 11.9 sq.ft.lb	
LRC	: 9).1	Duty cycle	;	: Cont.(S1)	
Rated torque	: 8	8.4 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2	90 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 3	80 %	Temperature rise		: 80 K	
Rated speed	: 2	.970 rpm	Design		: B	
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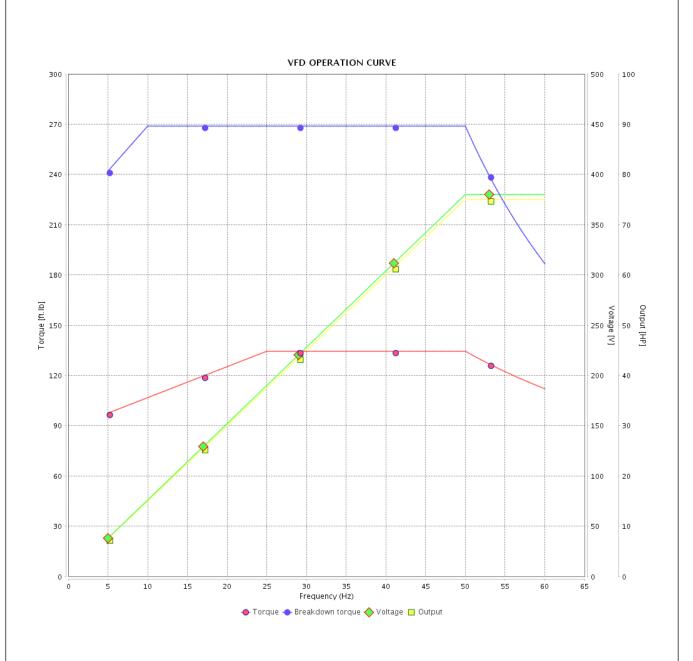


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Product line : NEMA Premium Efficiency Three-

Product code: 11431378

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Performance	: 3	380 V 50 Hz 2P IE1				
Rated current	: 1	100 A	Moment o	of inertia (J)	: 11.9 sq.ft.lb	
LRC	: 5	5.2	Duty cycle	9	: Cont.(S1)	
Rated torque	: 1	134 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 1	160 %	Service fa	actor	: 1.00	
Breakdown torque	e : 2	200 %	Temperat	Temperature rise		
Rated speed	: 2	2930 rpm	Design		: B	
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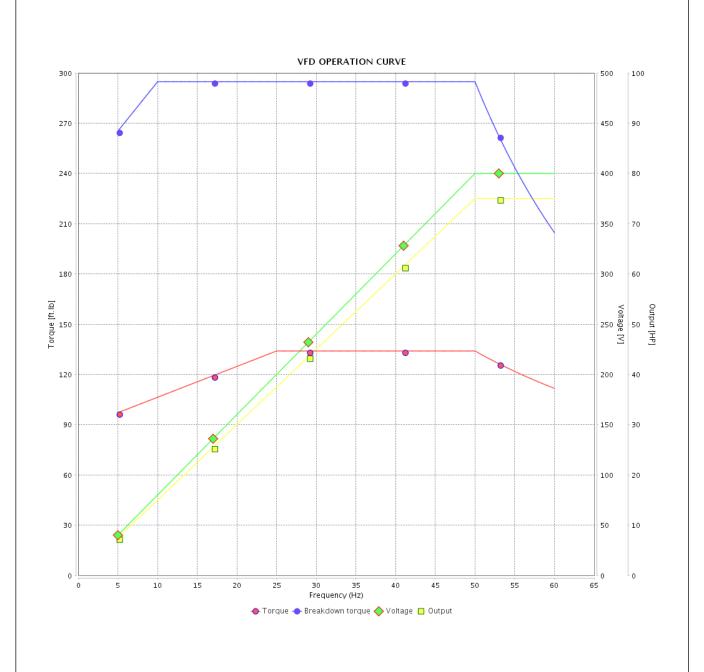
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

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11431378



Performance	: 4	00 V 50 Hz 2P IE1				
Rated current	: 9	4.8 A	Moment of	f inertia (J)	: 11.9 sq.ft.lb	
LRC	: 5	.8	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	34 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 1	75 %	Service fa	ctor	: 1.00	
Breakdown torqu		20 %	Temperature rise		: 105 K	
Rated speed	: 2	940 rpm	Design		: B	
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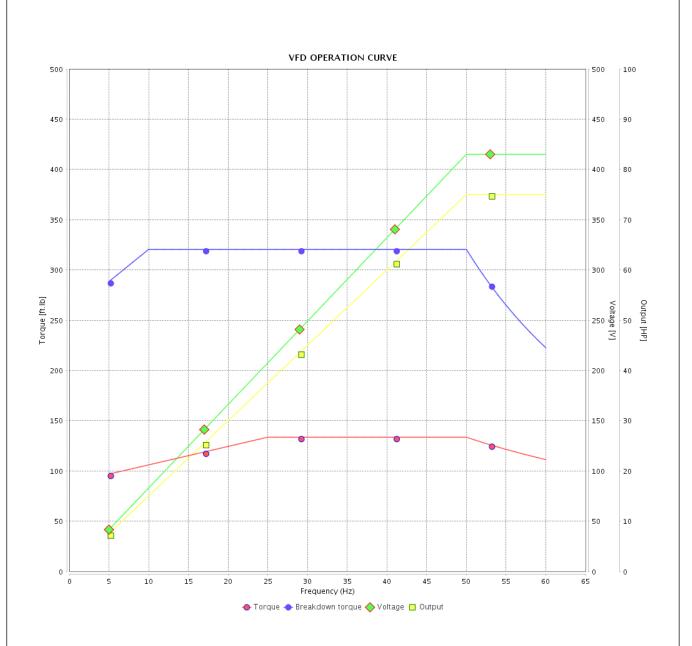
Date

13/04/2022

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 07536ST3QIE365TS-W22

11431378



Performance : 415 V 50 Hz 2P IE1 Rated current : 91.4 A Moment of inertia (J) : 11.9 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) : 134 ft.lb Insulation class : F Rated torque Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 105 K Rated speed : 2950 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page

