DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11766896

Phase

Catalog #: 00112ST3QIE145TC-W22

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

Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

Ambient temperature : -20°C to +40°C Starting method : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight³ : 63.9 lb

Aititude		: 1000 m.a.	S.I.	Approx	weight	: 0	13.9 ID	
Protection degre	е	: IP55		Momer	nt of inertia (J)	: C	.1595 sq.ft.lb	
Design		: B						
Output [HP]		1	0.75	0.75	0.75	1	1	1
Poles		6	6	6	6	6	6	6
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		460	380	400	415	380	400	415
Rated current [A]		1.73	1.60	1.62	1.66	1.96	1.94	1.95
L. R. Amperes [A]		10.7	9.28	9.88	10.5	9.41	10.1	10.7
LRC [A]		6.2x(Code K)	5.8x(Code K)	6.1x(Code L)	6.3x(Code	4.8x(Code	5.2x(Code H)	5.5x(Code J)
					M)	G)		
No load current [A]	1.20	1.18	1.28	1.36	1.18	1.28	1.36
Rated speed [RPN	/ 1]	1160	960	970	970	940	950	950
Slip [%]		3.33	4.00	3.00	3.00	6.00	5.00	5.00
Rated torque [ft.lb]		4.53	4.10	4.06	4.06	5.59	5.53	5.53
Locked rotor torqu	e [%]	260	280	300	320	200	229	250
Breakdown torque	[%]	300	310	330	340	220	260	280
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	80 K	80 K	80 K
Locked rotor time		50s (cold)	36s (cold)	36s (cold)	36s (cold)	36s (cold)	36s (cold)	36s (cold)
		28s (hot)	20s (hot)	20s (hot)	20s (hot)	20s (hot)	20s (hot)	20s (hot)
Noise level ²		50.0 dB(A)	45.0 dB(A)	45.0 dB(A)	45.0 dB(A)	45.0 dB(A)	45.0 dB(A)	45.0 dB(A)
	25%	76.0	73.6	71.6	68.6	77.6	76.1	73.4
Efficiency (%)	50%	77.0	74.8	73.2	70.7	77.0	75.5	74.0
Liliciency (70)	75%	82.0	78.4	77.5	75.8	80.0	80.0	78.5
	100%	82.5	79.3	78.9	77.9	78.5	78.5	78.5
	25%	0.25	0.24	0.22	0.21	0.30	0.27	0.25
Power Factor	50%	0.45	0.44	0.41	0.38	0.53	0.49	0.46
1 OWEL FACIOI	75%	0.57	0.57	0.53	0.50	0.66	0.62	0.59
	100%	0.66	0.66	0.62	0.59	0.74	0.71	0.68

Drive end No

Non drive end Foundation loads

Bearing type
Sealing
Lubrication interval

6205 C3 6204 C3 Inpro/Seal Inpro/Seal 20000 h 20000 h

Max. traction : 103 lb Max. compression : 166 lb

Lubricant amount : 4 g 4 g
Lubricant 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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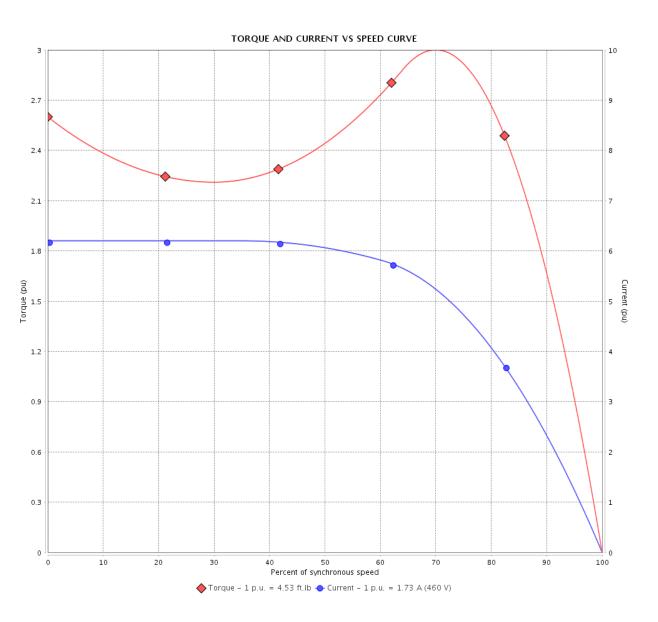


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11766896

Phase

Catalog #: 00112ST3QIE145TC-W22



Performance	: 460 V 60 Hz 6P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.73 A : 6.2 : 4.53 ft.lb : 260 % : 300 % : 1160 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.1595 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Locked rotor time	: 50s (cold) 28s (hot)			

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11766896 Catalog #: 00112ST3QIE145TC-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 4.10 ft.lb ◆ Current - 1 p.u. = 1.60 A (380 V) Performance : 380 V 50 Hz 6P IE3 Rated current : 1.60 A Moment of inertia (J) : 0.1595 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 4.10 ft.lb : 280 % Locked rotor torque Service factor : 1.00 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 960 rpm Design : B Locked rotor time : 36s (cold) 20s (hot) Date Rev. Performed Checked **Changes Summary** Performed by

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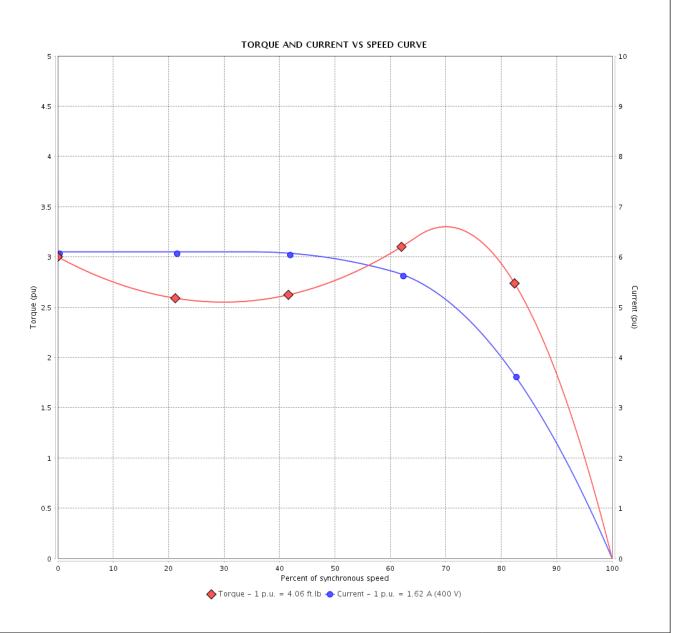


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11766896

Phase

Catalog #: 00112ST3QIE145TC-W22



Performance : 400 V 50 Hz 6P IE3 Rated current : 1.62 A Moment of inertia (J) : 0.1595 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 4.06 ft.lb : F Locked rotor torque : 300 % Service factor : 1.00 Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 970 rpm Design : B

Locked rotor time : 36s (cold) 20s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11766896 Catalog #: 00112ST3QIE145TC-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 4.06 ft.lb ◆ Current - 1 p.u. = 1.66 A (415 V) Performance : 415 V 50 Hz 6P IE3 Rated current : 1.66 A Moment of inertia (J) : 0.1595 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) : 4.06 ft.lb Insulation class : F Rated torque : 320 % Locked rotor torque Service factor : 1.00 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 970 rpm Design : B Locked rotor time : 36s (cold) 20s (hot) Date Rev. Performed Checked **Changes Summary** Performed by

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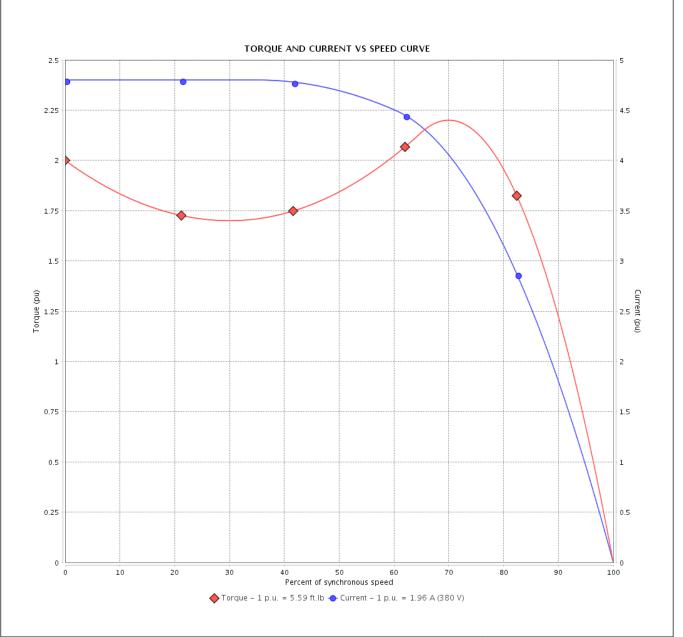


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11766896

Phase

Catalog #: 00112ST3QIE145TC-W22



Performance	: 380 V 50 Hz 6P IE2		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.96 A : 4.8 : 5.59 ft.lb : 200 % : 220 % : 940 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.1595 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B
Locked reter time	: 36s (cold) 20s (bot)		

Locked rotor time : 36s (cold) 20s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11766896 Catalog #: 00112ST3QIE145TC-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ♦ Torque – 1 p.u. = 5.53 ft.lb ♦ Current – 1 p.u. = 1.94 A (400 V) Performance : 400 V 50 Hz 6P IE2 Rated current : 1.94 A Moment of inertia (J) : 0.1595 sq.ft.lb **LRC** : 5.2 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 5.53 ft.lb : 229 % : 1.00 Locked rotor torque Service factor : 80 K Breakdown torque : 260 % Temperature rise Rated speed : 950 rpm : B Design

Locked rotor time	e : 36	6s (cold) 20s (hot)	1			
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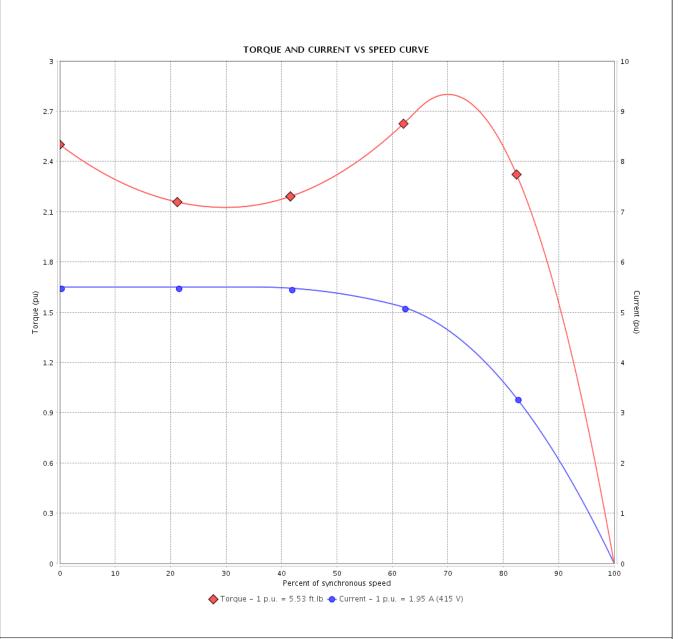
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Phase

Product code: 11766896

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Performance	: 415 V 50 Hz 6P IE2		
Rated current LRC	: 1.95 A : 5.5	Moment of inertia (J) Duty cycle	: 0.1595 sq.ft.lb : Cont.(S1)
Rated torque	: 5.53 ft.lb	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque Rated speed	: 280 % : 950 rpm	Temperature rise Design	: 80 K : B
Nateu speeu	. 900 Ipili	Design	. Б
Looked reter time	: 26c (cold) 20c (bot)		

Locked rotor time : 36s (cold) 20s (hot)

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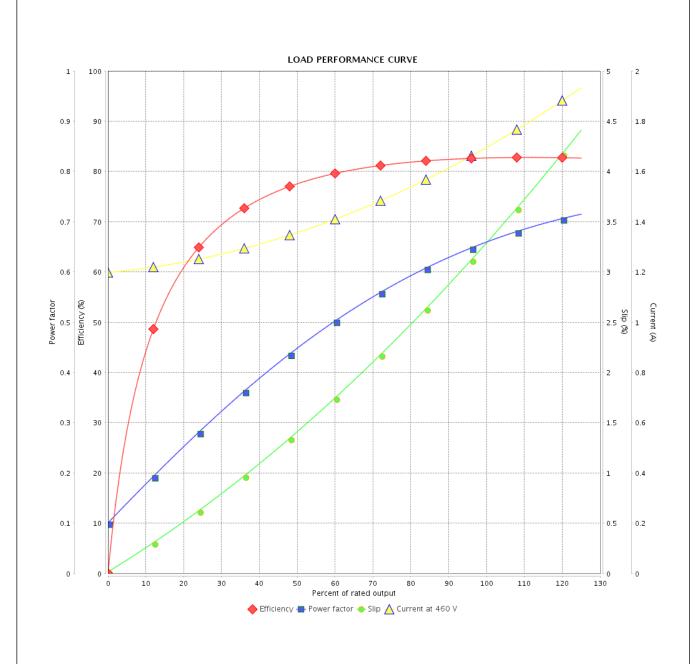
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Product line : NEMA Premium Efficiency Three- Product code : 11766896

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Performance	: 460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.73 A : 6.2 : 4.53 ft.lb : 260 % : 300 % : 1160 rpm	Moment of in Duty cycle Insulation clustrice factors Temperature Design	ass or	: 0.1595 sq.ft.l : Cont.(S1) : F : 1.25 : 80 K : B	lb
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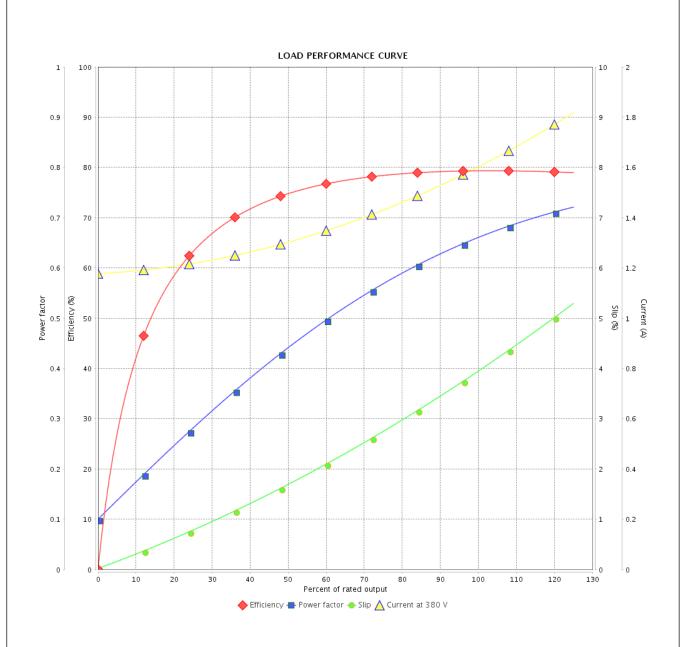
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Performance	::	380 V 50 Hz 6P IE	3				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu	ue ::	1.60 A 5.8 4.10 ft.lb 280 % 310 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: Cont.(S1) : F : 1.00 : 80 K	: F : 1.00 : 80 K	
Rated speed	: !	960 rpm	Design		: B		
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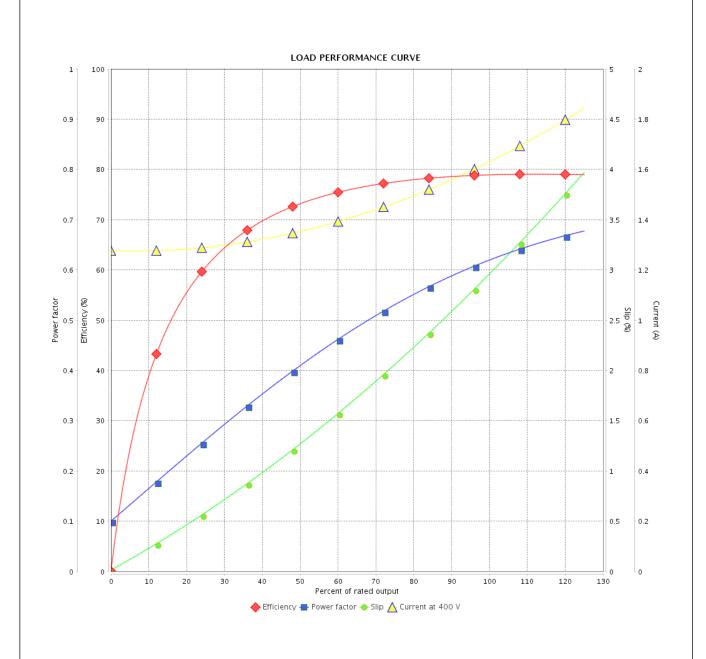
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Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.62 A : 6.1 : 4.06 ft.lb : 300 % : 330 % : 970 rpm	Moment of inertia (J) : 0.1595 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B)	
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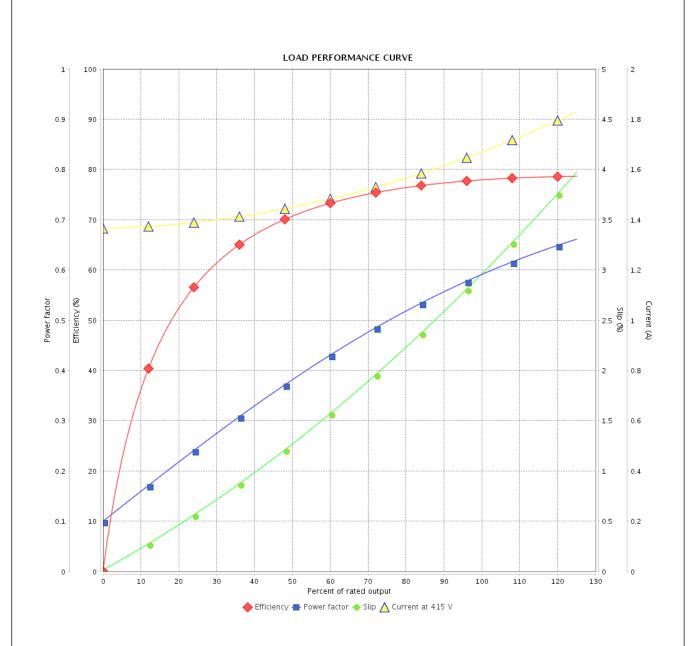
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Product line : NEMA Premium Efficiency Three- Product code :

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Catalog #: 00112ST3QIE145TC-W22

11766896



Performance : 415 V 50 Hz 6P IE3 : 1.66 A Rated current Moment of inertia (J) : 0.1595 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.3 : 4.06 ft.lb Insulation class Rated torque : F Locked rotor torque : 320 % Service factor : 1.00 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 970 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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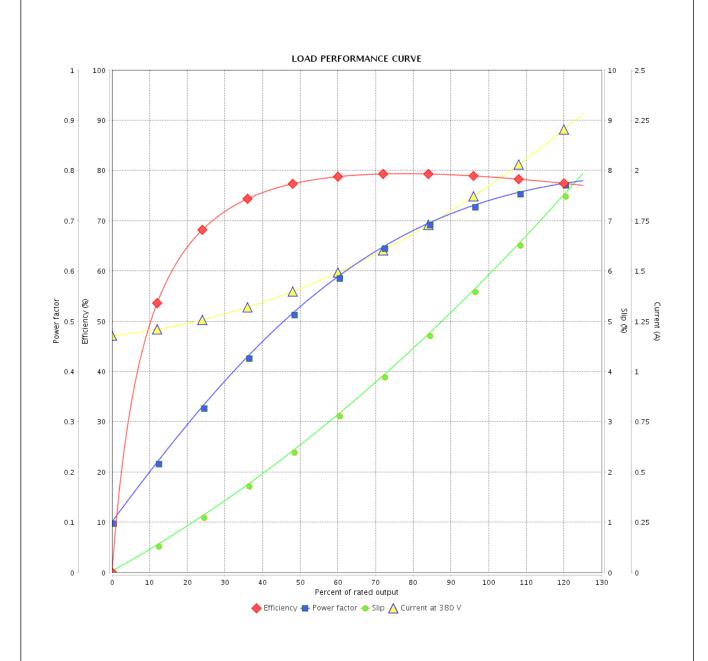
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Product line : NEMA Premium Efficiency Three- Product code : 11766896

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Performance	: 380 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.96 A : 4.8 : 5.59 ft.lb : 200 % : 220 % : 940 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 0.1595 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : B	lb
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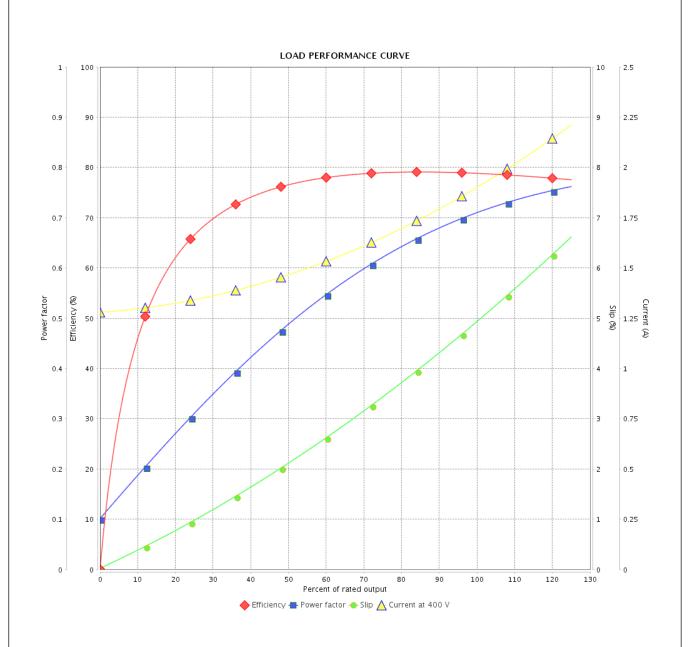
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Performance	: 400 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 1.94 A : 5.2 : 5.53 ft.lb : 229 % : 260 % : 950 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 0.1595 sq.ft.I : Cont.(S1) : F : 1.00 : 80 K : B	b
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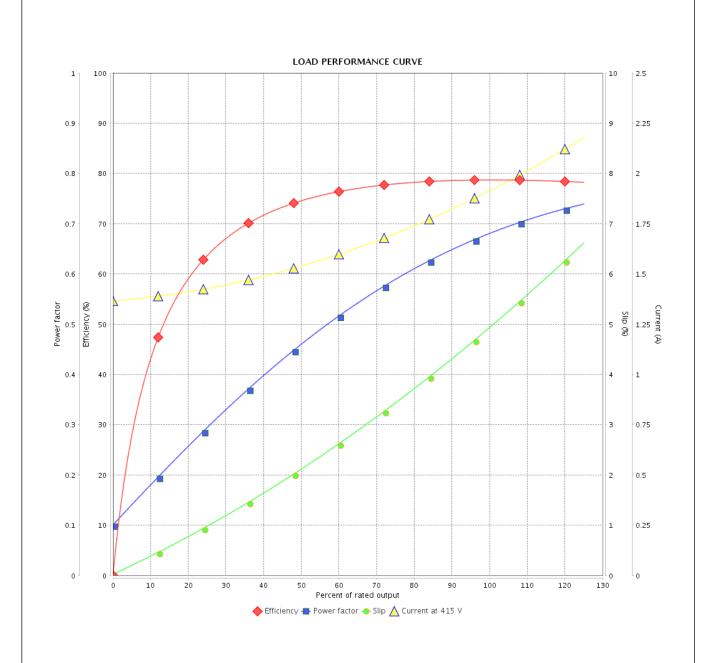
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Performance	: 415 V 50 Hz 6P IE2				
Rated current LRC Rated torque	: 1.95 A : 5.5 : 5.53 ft.lb	Moment of inertia (J) Duty cycle Insulation class		: 0.1595 sq.ft.lb : Cont.(S1) : F	
Locked rotor torque Breakdown torque Rated speed	: 250 % : 280 % : 950 rpm	Service factor Temperature rise Design		: 1.00 : 80 K : B	
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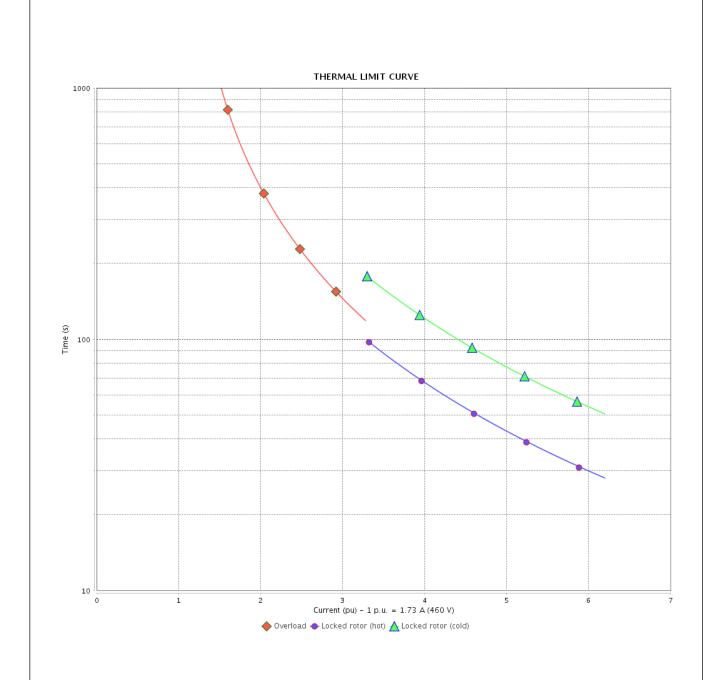


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11766896 00112ST3QIE	=145TC W22
				Taking # .		
Performance		: 460 V 60 Hz 6P	Τ			
Rated current LRC		: 1.73 A : 6.2	Moment of Duty cycle	of inertia (J)	: 0.1595 sq.ft.ll : Cont.(S1)	b
Rated torque		: 4.53 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 260 % : 300 %	Service fa Temperat		: 1.25 : 80 K	
Rated speed		: 1160 rpm	Design		: B	
Heating constan						
Cooling constant	<u>t</u>	Characa Communication		Dout	Ohl !	Data
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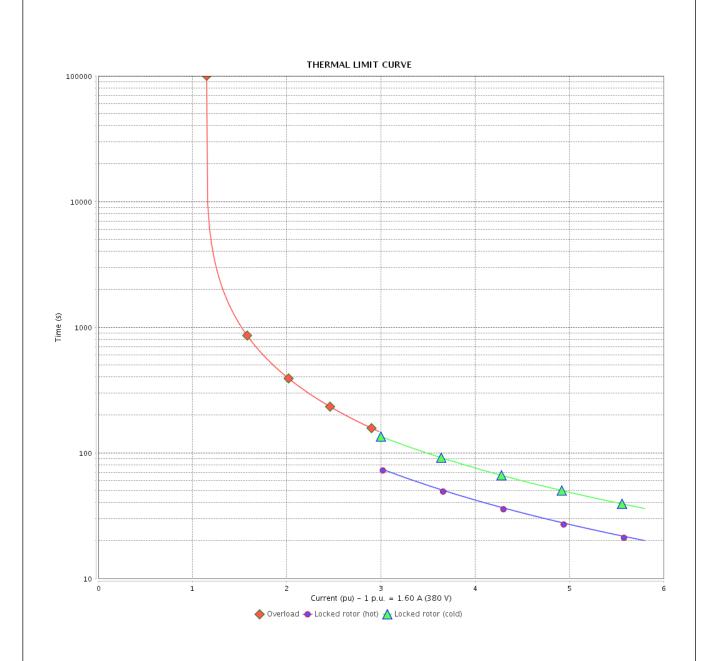


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	11766896	T445TO W00
				Catalog # :	00112513QII	E145TC-W22
Performance		: 380 V 50 Hz 6P IE3	Т			
Rated current LRC		: 1.60 A : 5.8	Moment of Duty cycle	of inertia (J)	: 0.1595 sq.ft.l : Cont.(S1)	b
Rated torque		: 4.10 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 280 % : 310 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 960 rpm	Design	uro 1100	: B	
Heating constan	t					
Cooling constant	t					
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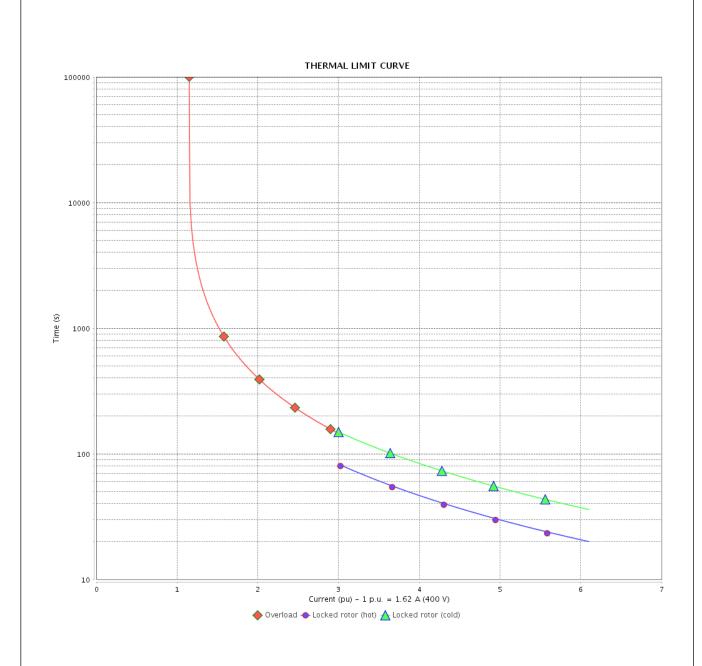


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11766896 00112ST3QIE	=145TC-\W22
					00112010Q11	_14010-1122
Performance		: 400 V 50 Hz 6P IE3				
Rated current LRC		: 1.62 A : 6.1	Moment of Duty cycle	of inertia (J)	: 0.1595 sq.ft.ll : Cont.(S1)	b
Rated torque		: 4.06 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 300 % : 330 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 970 rpm	Design	u. 0 1100	: B	
Heating constan						
Cooling constant	t					
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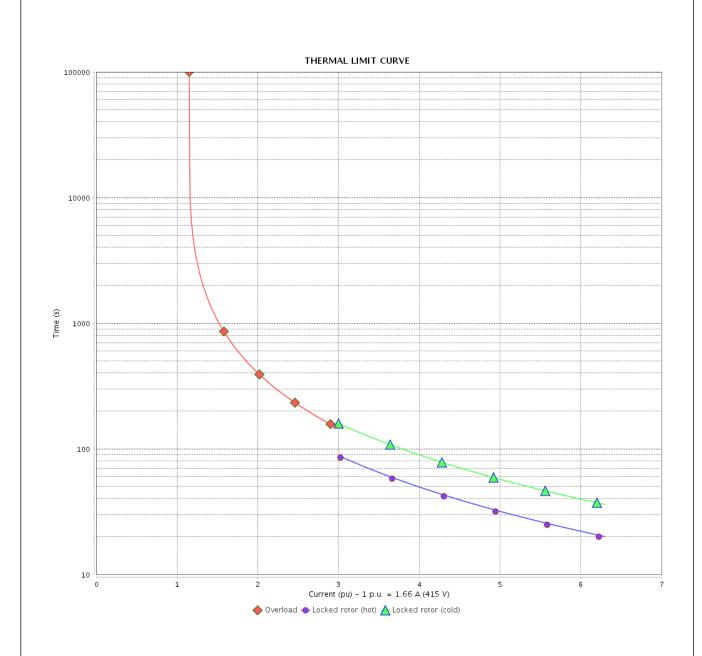


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11766896	E145TC-W22
				Catalog # .	00112313Q11	14510-7722
Performance		: 415 V 50 Hz 6P IE3				
Rated current		: 1.66 A	Moment o	of inertia (J)	: 0.1595 sq.ft.l	b
LRC Rated torque	:	: 6.3 : 4.06 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que :	: 320 %	Service fa	ictor	: 1.00	
Breakdown torqu Rated speed		: 340 % : 970 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constan						
Cooling constant						
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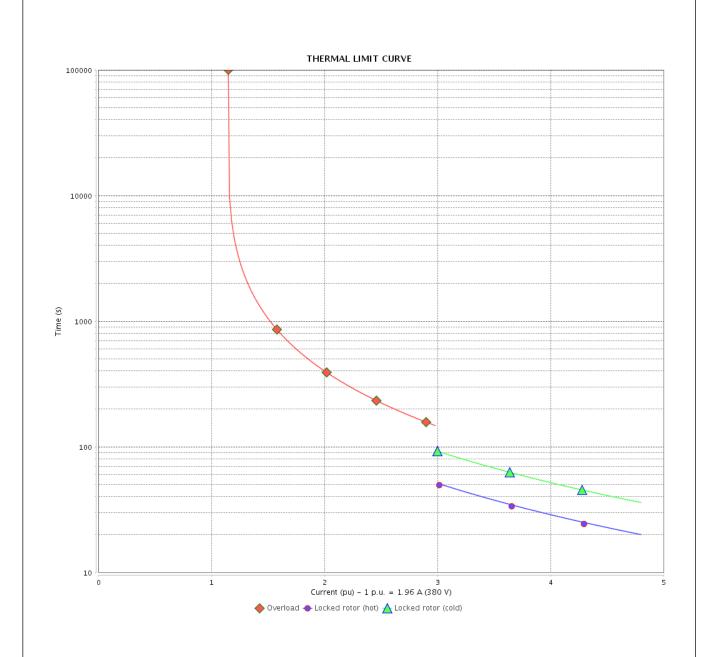


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Product line		NEMA Premium Efficiency hase		Product code :	11766896 00112ST3QII	E145TC-W22
Performance Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 1. : 4. : 5. ue : 20 e : 22 : 94	30 V 50 Hz 6P IE2 96 A 8 59 ft.lb 00 % 20 % 40 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 0.1595 sq.ft.I : Cont.(S1) : F : 1.00 : 80 K : B	b
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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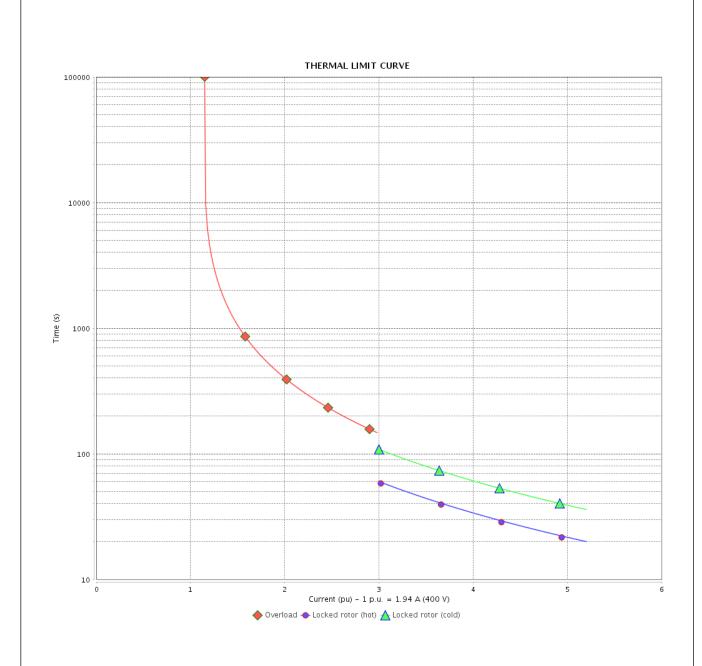


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Product line		: NEMA Premium Efficiency ⁻ Phase		Product code :	11766896 00112ST3QI	E145TC-W22
				Catalog #:	00112S13Q1	E1451C-W22
Performance Rated current LRC Rated torque Locked rotor toro Breakdown torque Rated speed	: : : : : : : : : : : : : : : : : : :	400 V 50 Hz 6P IE2 1.94 A 5.2 5.53 ft.lb 229 % 260 % 950 rpm	Moment or Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.1595 sq.ft.l : Cont.(S1) : F : 1.00 : 80 K : B	b
Heating constant Cooling constant Rev.	t	Changes Summary		Performed	Checked	Date
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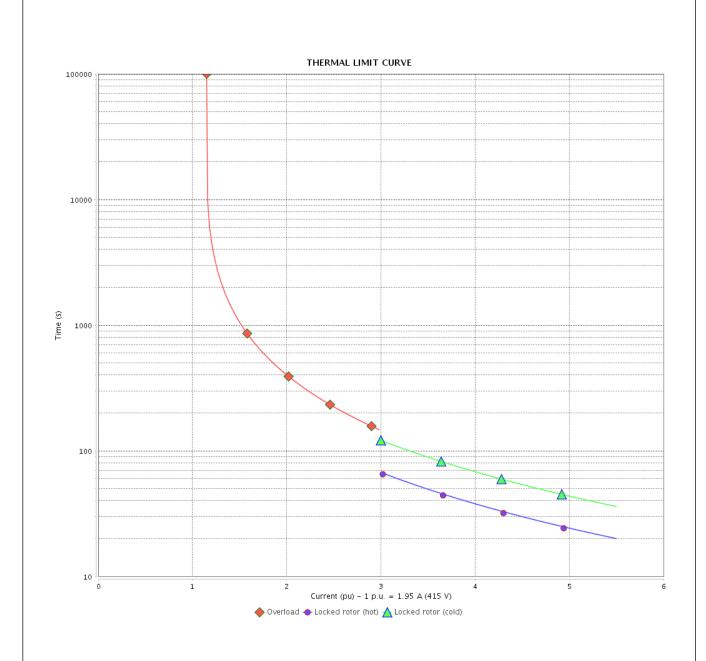


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Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11766896	≣145TC-W22
					331,2313411	
Performance	· · · · · · · · · · · · · · · · · · ·	: 415 V 50 Hz 6P IE2				
Rated current LRC		: 1.95 A : 5.5	Moment of Duty cycle	of inertia (J)	: 0.1595 sq.ft.l : Cont.(S1)	b
Rated torque		: 5.53 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 250 % : 280 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 950 rpm	Design		: B	
Heating constant						
Cooling constant	l	Changes Summary		Performed	Checked	Date
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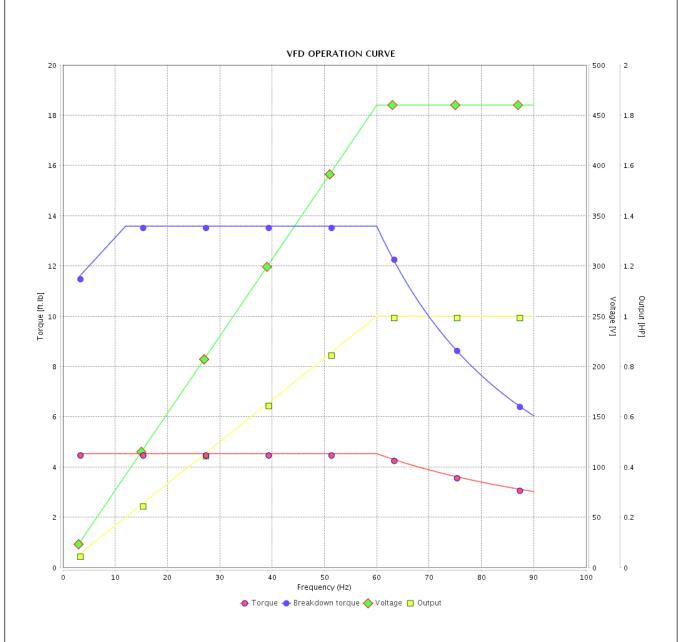
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11766896

Catalog # : 00112ST3QIE145TC-W22

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Performance	: 460 V 60 Hz 6P	460 V 60 Hz 6P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	RC : 6.2 Duty cycle Insulation class Service factor eakdown torque : 300 % Temperature rise		: 0.1595 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B		
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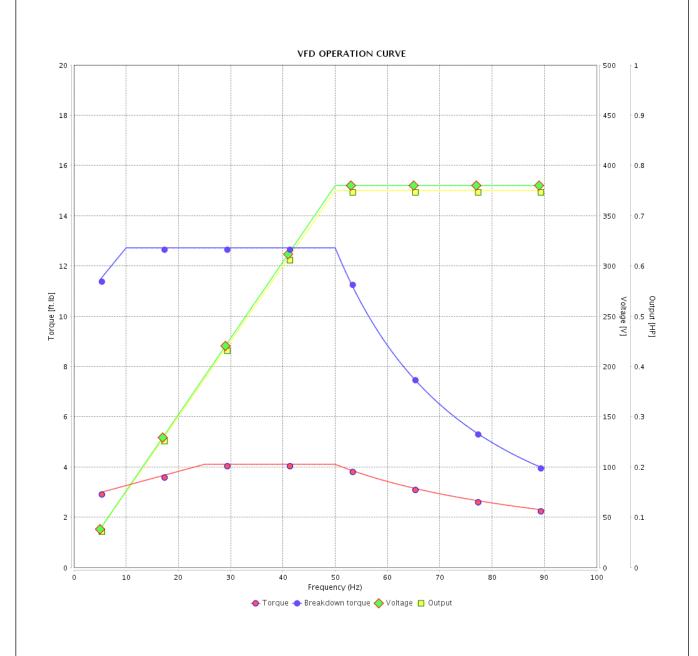


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Product line : NEMA Premium Efficiency Three- Product code : 11766896

Phase

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Performance	: 380 V 50 Hz 6P IE3				
Rated current	: 1.60 A	Moment of	f inertia (J)	: 0.1595 sq.ft.lb)
LRC	: 5.8	Duty cycle)	: Cont.(S1)	
Rated torque	: 4.10 ft.lb	Insulation	class	: F	
Locked rotor torque : 280 %		Service factor		: 1.00	
Breakdown torque	: 310 %	Temperate	ure rise	: 80 K	
Rated speed	: 960 rpm	Design		: B	
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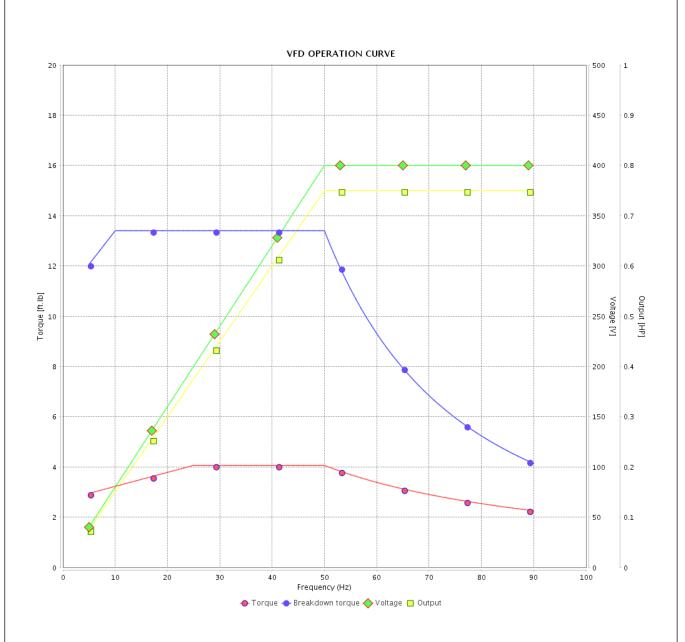
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Performance	: 4	00 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 4 que : 3 ue : 3	.62 A .1 .06 ft.lb 00 % 30 % 70 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 0.1595 sq.ft.I : Cont.(S1) : F : 1.00 : 80 K : B	b
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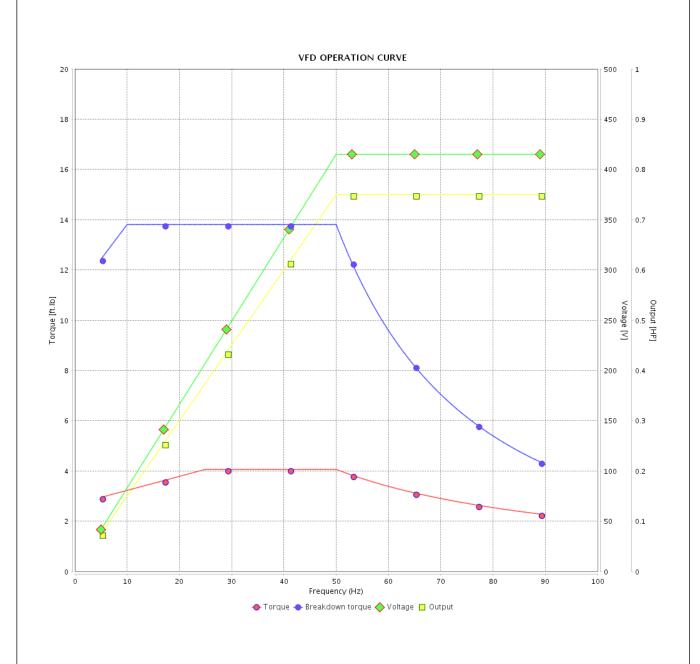


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Product line : NEMA Premium Efficiency Three- Product code : 11766896

Phase

Catalog #: 00112ST3QIE145TC-W22



Performance	: 41	15 V 50 Hz 6P IE3				
Rated current	: 1.	66 A	66 A Moment of ine		: 0.1595 sq.ft.	.lb
LRC	: 6.	3	Duty cycle	9	: Cont.(S1)	
Rated torque	: 4.	06 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 32	20 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 34	40 %	Temperati	ure rise	: 80 K	
Rated speed	: 97	70 rpm	Design		: B	
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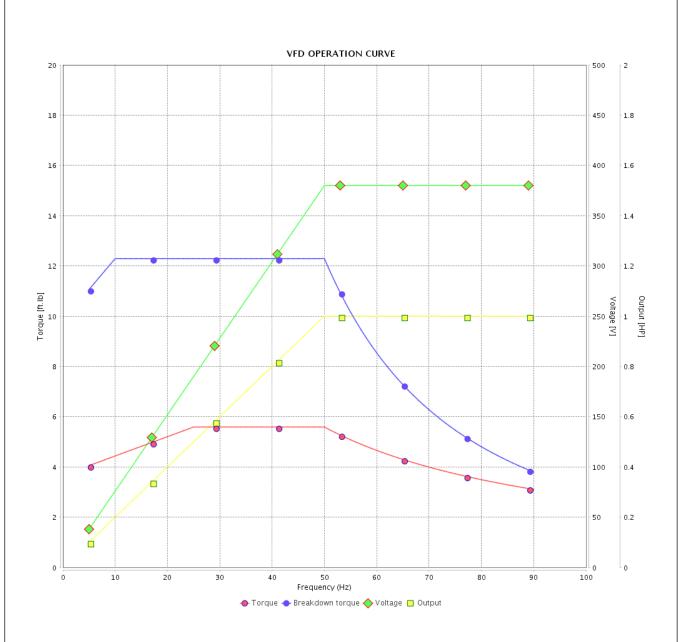
Product line : NEMA Premium Efficiency Three-

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Performance	: 380 V 50 Hz 6P IE2						
Rated current LRC	: 1.96 A : 4.8	Moment of inertia (J) Duty cycle		Moment of inertia (J) Duty cycle		: 0.1595 sq.ft. : Cont.(S1)	lb
Rated torque Locked rotor torque Breakdown torque Rated speed	: 5.59 ft.lb : 200 % : 220 % : 940 rpm	Insulation class Service factor Temperature rise		Service factor : 1.00			
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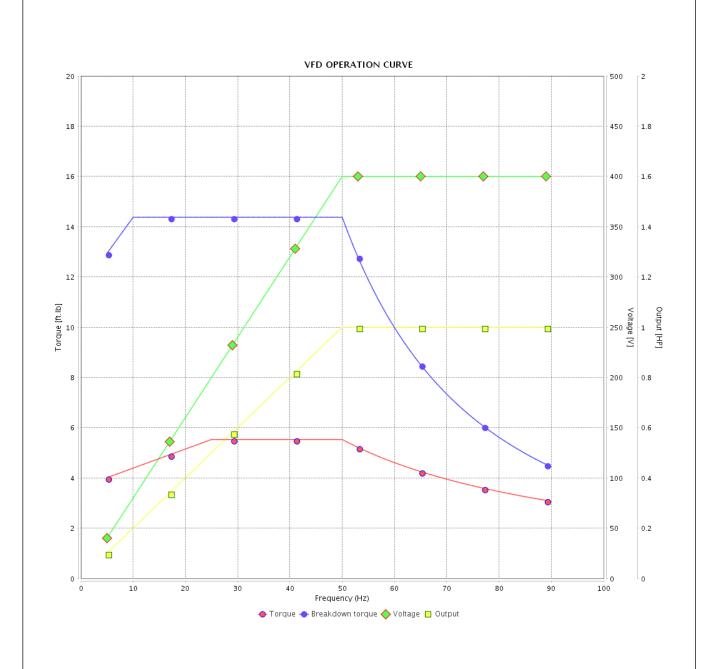
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Product line : NEMA Premium Efficiency Three- Product code : 11766896

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Performance	: 400 V 50 Hz 6P IE2						
Rated current	: 1.94 A	Moment of inertia (J)		: 0.1595 sq.ft.lb			
LRC	: 5.2	Duty cycle		: Cont.(S1)			
Rated torque	: 229 % Se	Insulation cla	Insulation class		: F		
Locked rotor torque		Service factor Temperature rise Design		: 1.00 : 80 K : B			
Breakdown torque							
Rated speed	: 950 rpm						
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Product line : NEMA Premium Efficiency Three-

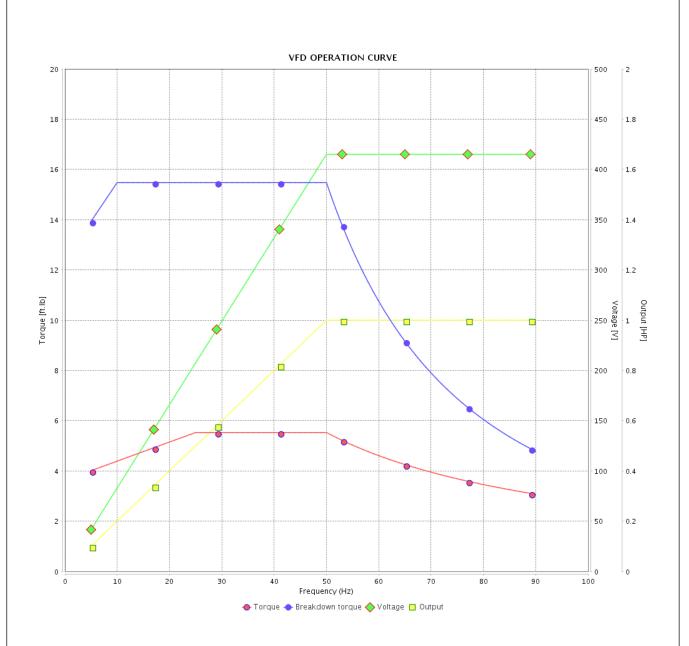
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Performance	:	415 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: que :	1.95 A 5.5 5.53 ft.lb 250 % 280 % 950 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1595 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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