DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12693285

Catalog #: 15018ST3QIE445TS-W22

Frame : 444/5TS Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

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

Ambient temperature : -20°C to +40°C Starting method : Direct On Line : 1000 m.a.s.l. Approx. weight³ : 1820 lb Altitude

: IP55 Protection degree Moment of inertia (J) : 66.7 sq.ft.lb

Design : B

Output [HP]		150	125	125	125	150	150	150
Poles		4	4	4	4	4	4	4
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		460	380	400	415	380	400	415
Rated current [A]		170	170	163	159	205	194	189
L. R. Amperes [A]		1122	1189	1127	1192	1189	1125	1191
LRC [A]		6.6x(Code	7.0x(Code	6.9x(Code	7.5x(Code H)	5.8x(Code F)	5.8x(Code F)	6.3x(Code
		G)	G)	G)				G)
No load current [A]]	58.0	58.0	61.2	64.0	58.0	61.2	64.0
Rated speed [RPM	1]	1780	1480	1480	1480	1475	1475	1480
Slip [%]		1.11	1.33	1.33	1.33	1.67	1.67	1.33
Rated torque [ft.lb]		443	444	444	444	534	534	532
Locked rotor torqu	e [%]	200	190	220	229	160	180	190
Breakdown torque	[%]	250	240	260	290	200	220	240
Service factor		1.15	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K	105 K	105 K	105 K
Locked rotor time		48s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)
		27s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)
Noise level ²		73.0 dB(A)	69.0 dB(A)	69.0 dB(A)	69.0 dB(A)	69.0 dB(A)	69.0 dB(A)	69.0 dB(A)
	25%	95.3	95.1	95.1	94.6	95.6	95.6	95.3
Efficiency (%)	50%	95.4	95.1	95.1	94.8	95.4	95.4	95.4
Efficiency (70)	75%	95.8	95.5	95.5	95.5	95.4	95.4	95.4
	100%	95.8	95.3	95.3	95.5	95.0	95.0	95.4
	25%	0.49	0.49	0.45	0.43	0.55	0.51	0.49
Power Factor	50%	0.74	0.73	0.70	0.68	0.79	0.76	0.74
FOWEI FACIOI	75%	0.82	0.83	0.81	0.79	0.85	0.83	0.82
	100%	0.85	0.86	0.85	0.84	0.86	0.86	0.85

Drive end Non drive end Foundation loads

6314 C3 Bearing type 6314 C3 Max. traction : 2495 lb Sealing Inpro/Seal Inpro/Seal : 4315 lb Max. compression

Lubrication interval 12000 h 12000 h Lubricant amount 27 g 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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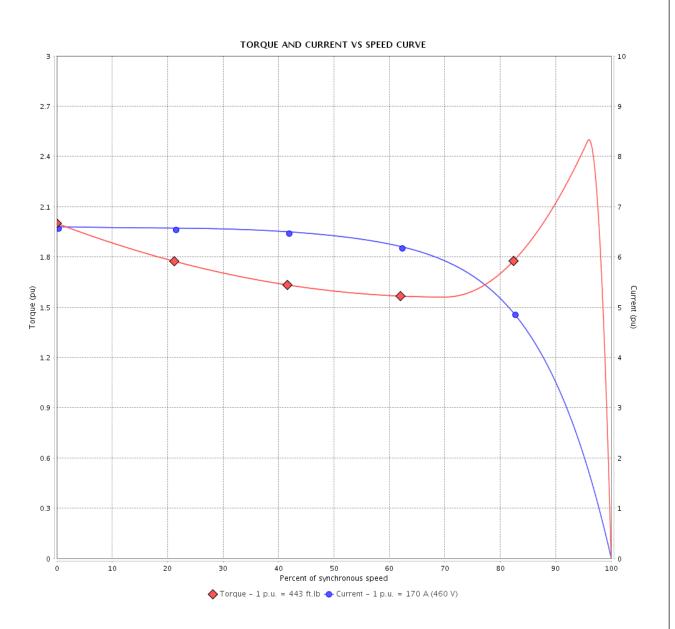
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 15018ST3QIE445TS-W22

12693285



Performance : 460 V 60 Hz 4P Rated current : 170 A Moment of inertia (J) : 66.7 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 443 ft.lb : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B

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

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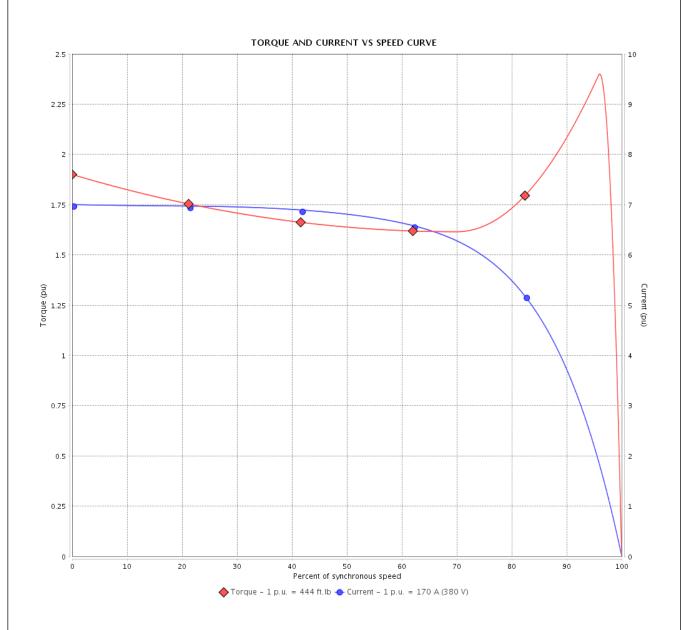
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12693285

Catalog #: 15018ST3QIE445TS-W22



Performance	: 380 V 50 Hz 4P IE3			
Rated current	: 170 A	Moment of inertia (J)	: 66.7 sq.ft.lb	
LRC	: 7.0	Duty cycle	: Cont.(S1)	
Rated torque	: 444 ft.lb	Insulation class	:F	
Locked rotor torque	: 190 %	Service factor	: 1.00	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 1480 rpm	Design	: B	
Locked rotor time	: 32s (cold) 18s (hot)			

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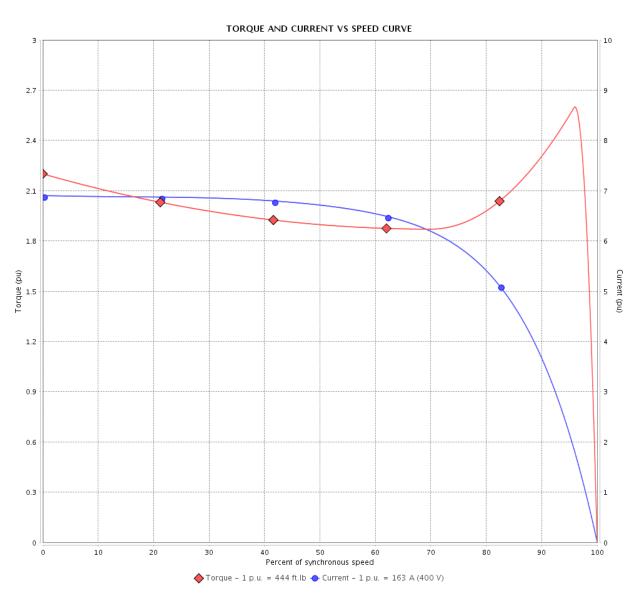


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12693285

Phase

Catalog #: 15018ST3QIE445TS-W22



Rated current LRC	: 163 A : 6.9	Moment of inertia (J) Duty cycle	: 66.7 sq.ft.lb : Cont.(S1)	
Rated torque	: 444 ft.lb	Insulation class	: F	
Locked rotor torque	: 220 %	Service factor	: 1.00	
Breakdown torque	: 260 %	Temperature rise	: 80 K	
Rated speed	: 1480 rpm	Design	: B	
Locked rotor time	: 32s (cold) 18s (hot)			
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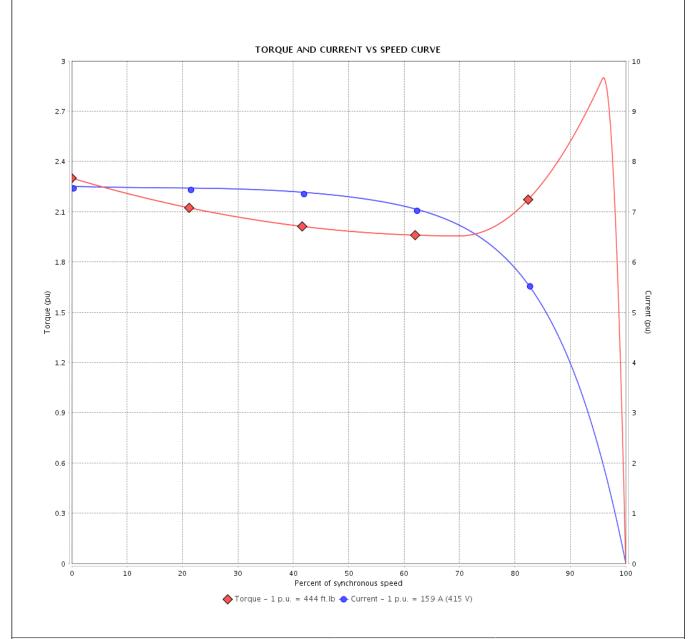
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Customer :

Product line : NEMA Premium Efficiency Three-Product code : 12693285
Phase Catalog # : 15018ST3QIE445TS-W22



Performance : 415 V 50 Hz 4P IE3 Rated current : 159 A Moment of inertia (J) : 66.7 sq.ft.lb **LRC** : 7.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 444 ft.lb : F : 229 % Locked rotor torque Service factor : 1.00 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B Locked rotor time : 32s (cold) 18s (hot)

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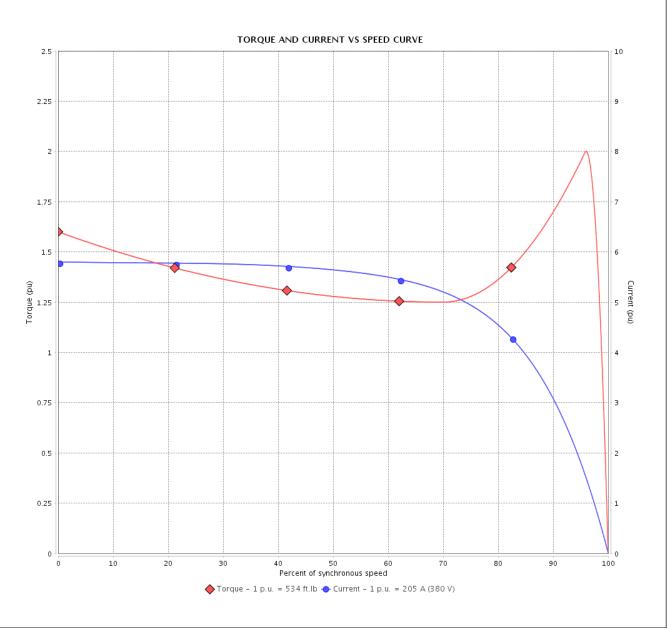


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12693285

Phase

Catalog #: 15018ST3QIE445TS-W22



Performance : 380 V 50 Hz 4P IE2 Rated current : 205 A Moment of inertia (J) : 66.7 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 534 ft.lb : F Locked rotor torque : 160 % Service factor : 1.00 Breakdown torque : 200 % Temperature rise : 105 K Rated speed : 1475 rpm Design : B

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

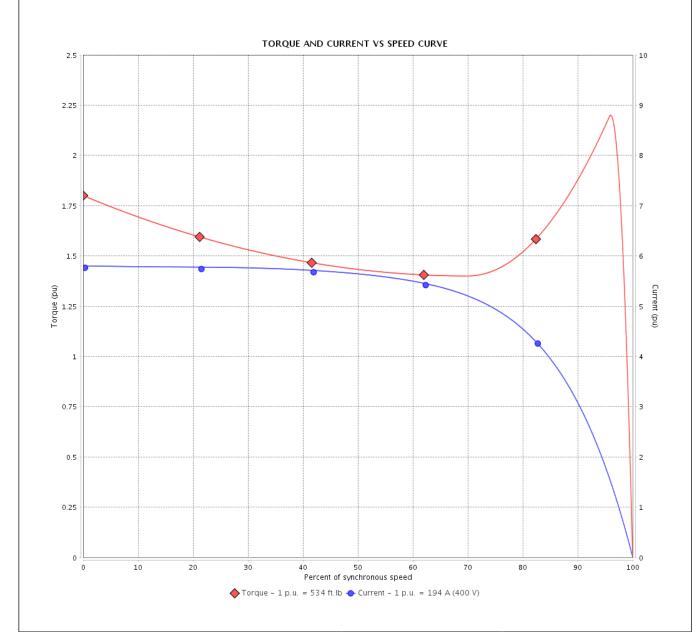
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Customer :

Product line : NEMA Premium Efficiency Three-Product code : 12693285
Phase Catalog # : 15018ST3QIE445TS-W22



Performance : 400 V 50 Hz 4P IE2 Rated current : 194 A Moment of inertia (J) : 66.7 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 534 ft.lb : 180 % Locked rotor torque Service factor : 1.00 : 105 K Breakdown torque : 220 % Temperature rise Rated speed : 1475 rpm Design : B Locked rotor time : 32s (cold) 18s (hot)

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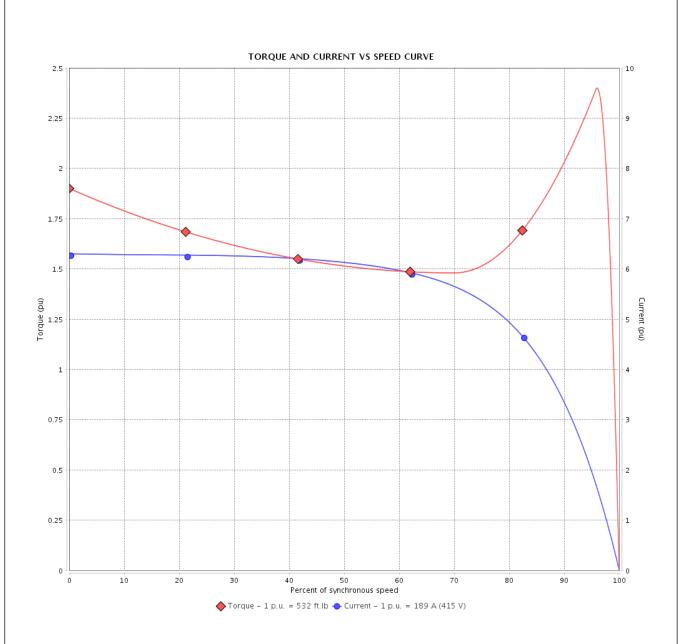


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 15018ST3QIE445TS-W22

12693285



Performance : 415 V 50 Hz 4P IE3 Rated current : 189 A Moment of inertia (J) : 66.7 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 532 ft.lb : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 105 K Rated speed : 1480 rpm Design : B

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

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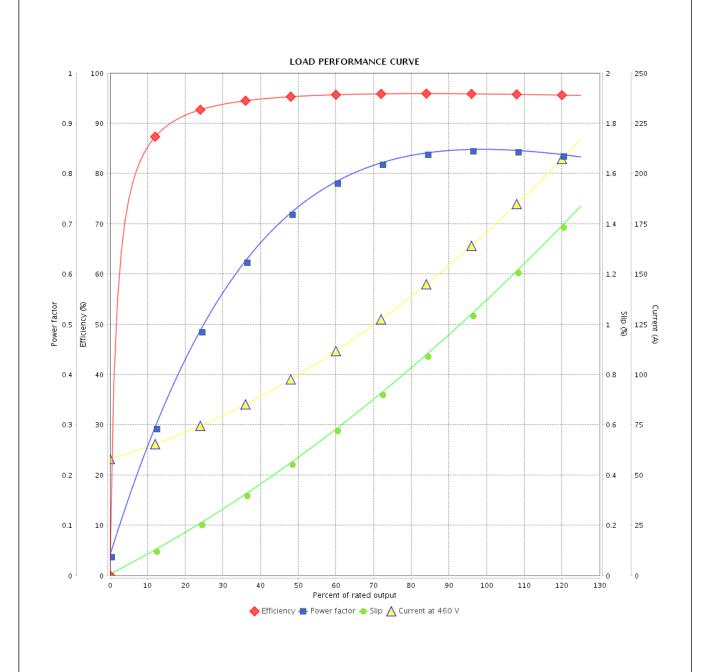


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12693285

Phase

Catalog #: 15018ST3QIE445TS-W22



Performance	: 40	60 V 60 Hz 4P				
Rated current	: 1	70 A	Moment o	f inertia (J)	: 66.7 sq.ft.lb	
LRC	: 6	.6	Duty cycle)	: Cont.(S1)	
Rated torque	: 4	43 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 20	00 %	Service fa	ctor	: 1.15	
Breakdown torque	: 2	50 %	Temperati	ıre rise	: 80 K	
Rated speed	: 1	780 rpm	Design		: B	
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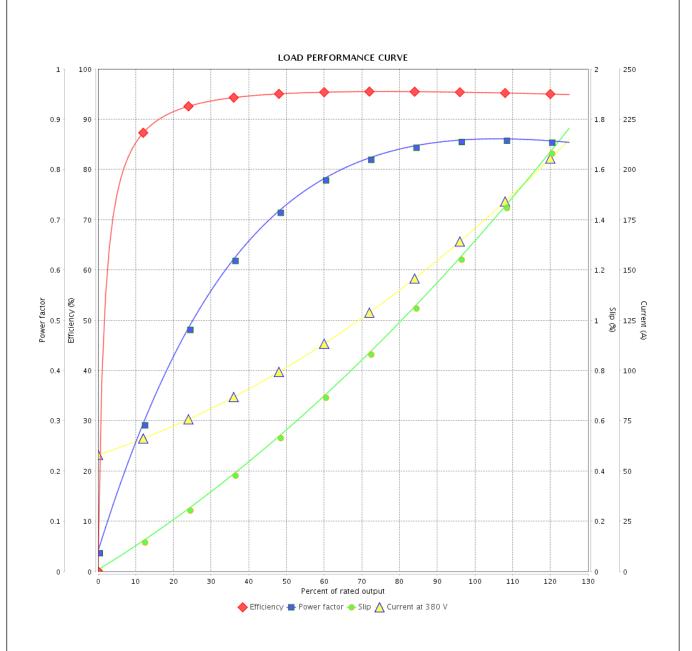
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12693285

Catalog # : 15018ST3QIE445TS-W22



Performance	: 3	380 V 50 Hz 4P IE3	}			
Rated current	: 1	170 A	Moment of	of inertia (J)	: 66.7 sq.ft.lb	
LRC	: 7	7.0	Duty cycle	9	: Cont.(S1)	
Rated torque	: 4	144 ft.lb	Insulation	class	: F	
Locked rotor torqu	ıe : 1	190 %	Service fa	actor	: 1.00	
Breakdown torque	e : 2	240 %	Temperat	ure rise	: 80 K	
Rated speed	: 1	1480 rpm	Design		: B	
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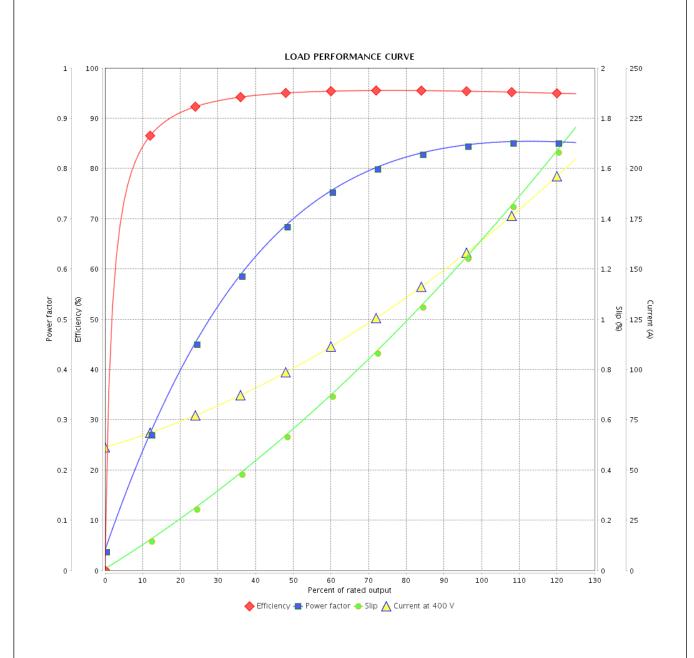
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Product line : NEMA Premium Efficiency Three- Product code : 12693285

Phase

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Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque	: 163 A : 6.9 : 444 ft.lb	Moment o Duty cycle Insulation		: 66.7 sq.ft.lb : Cont.(S1) : F	
Locked rotor torque Breakdown torque Rated speed	: 220 % : 260 % : 1480 rpm	Service fa Temperatu Design		: 1.00 : 80 K : B	
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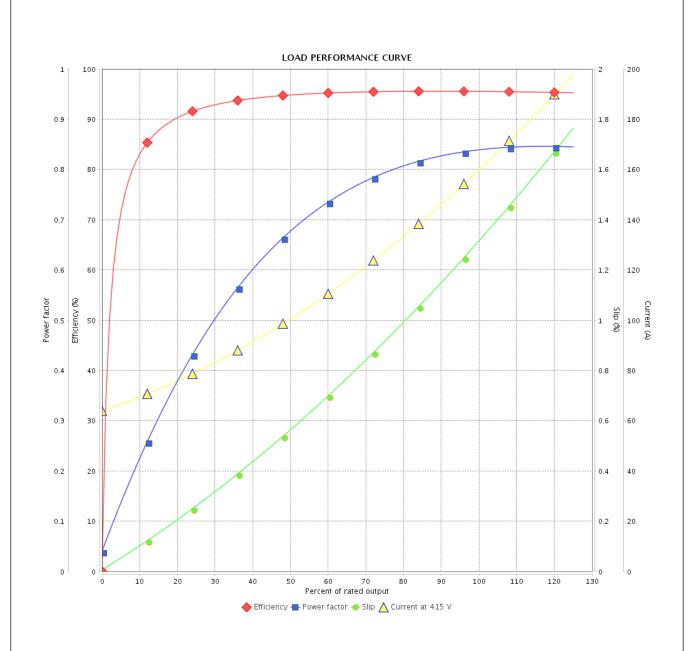
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Phase

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Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 159 A : 7.5 : 444 ft.lb : 229 % : 290 % : 1480 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 66.7 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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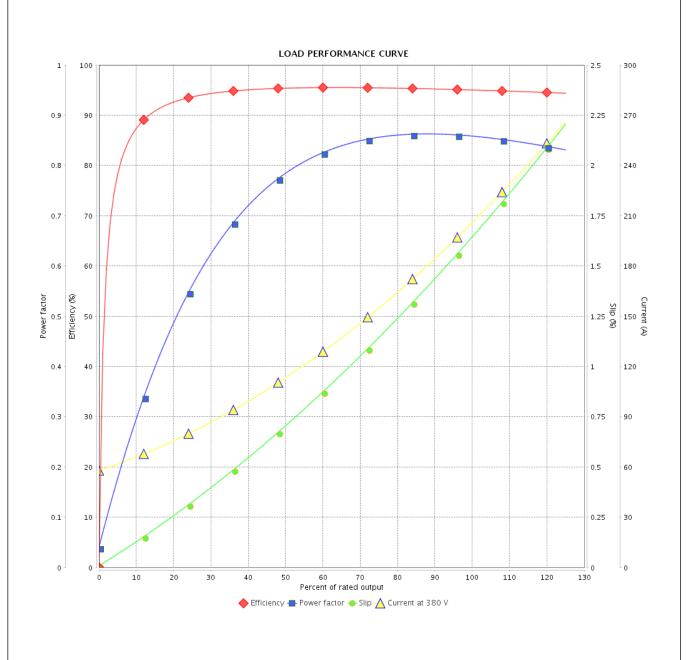


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12693285

Phase

Catalog #: 15018ST3QIE445TS-W22



Performance	:	380 V 50 Hz 4P IE2				
Rated current	:	205 A	Moment o	f inertia (J)	: 66.7 sq.ft.lb	
LRC	:	5.8	Duty cycle)	: Cont.(S1)	
Rated torque	:	534 ft.lb	Insulation	class	:F	
Locked rotor torque	e :	160 %	Service fa	ctor	: 1.00	
Breakdown torque : 200 %		200 %	Temperature rise		: 105 K	
Rated speed	:	1475 rpm	Design		: B	
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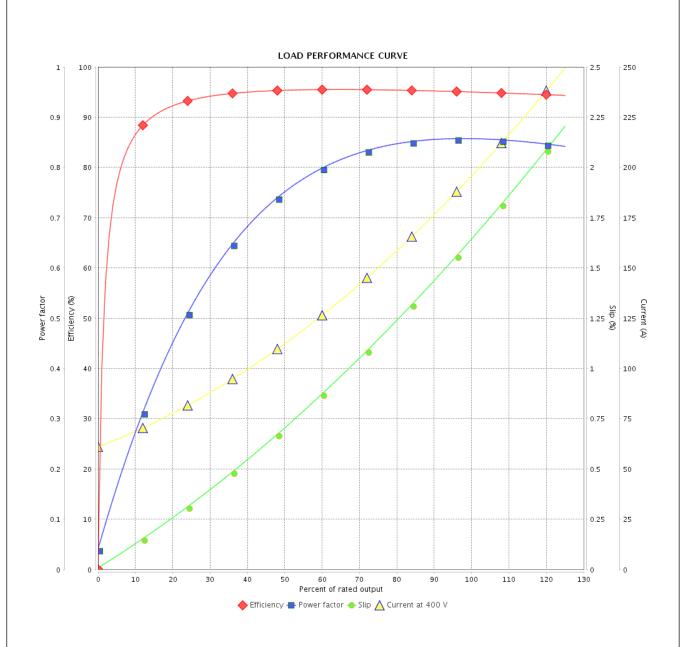
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12693285

Catalog #: 15018ST3QIE445TS-W22

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Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC	: 194 A : 5.8	Duty cycle		: 66.7 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque Breakdown torque	: 534 ft.lb : 180 % : 220 %	Insulation class Service factor Temperature rise Design		: F : 1.00 : 105 K : B	
Rated speed Rev.	: 1475 rpm Changes Summary	Design	Performed	Checked	Date
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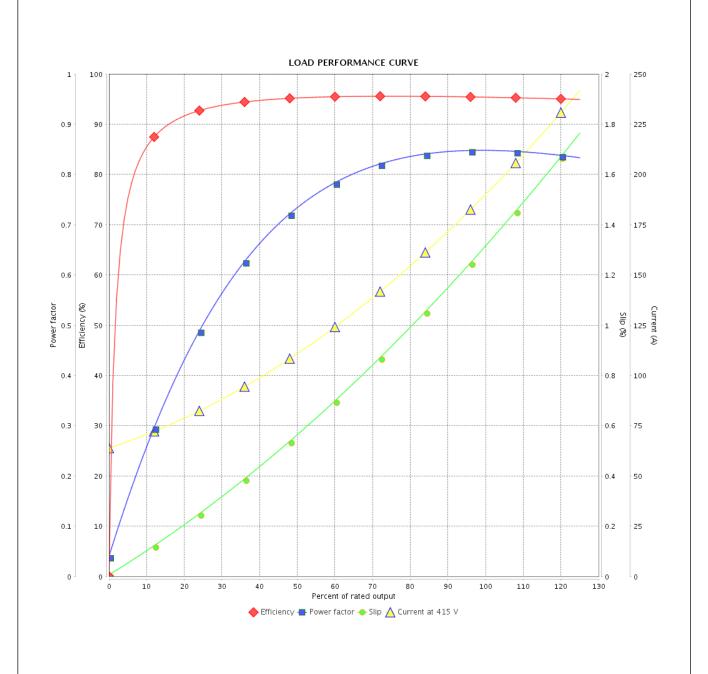


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Product line : NEMA Premium Efficiency Three- Product code : 12693285

Phase

Catalog #: 15018ST3QIE445TS-W22



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	: 18	89 A	Moment o	f inertia (J)	: 66.7 sq.ft.lb	
LRC	: 6	3	Duty cycle)	: Cont.(S1)	
Rated torque	: 53	32 ft.lb	Insulation	class	:F	
Locked rotor torqu	e : 19	90 %	Service fa	ctor	: 1.00	
Breakdown torque		40 %	Temperature rise		: 105 K	
Rated speed	: 14	480 rpm	Design		: B	
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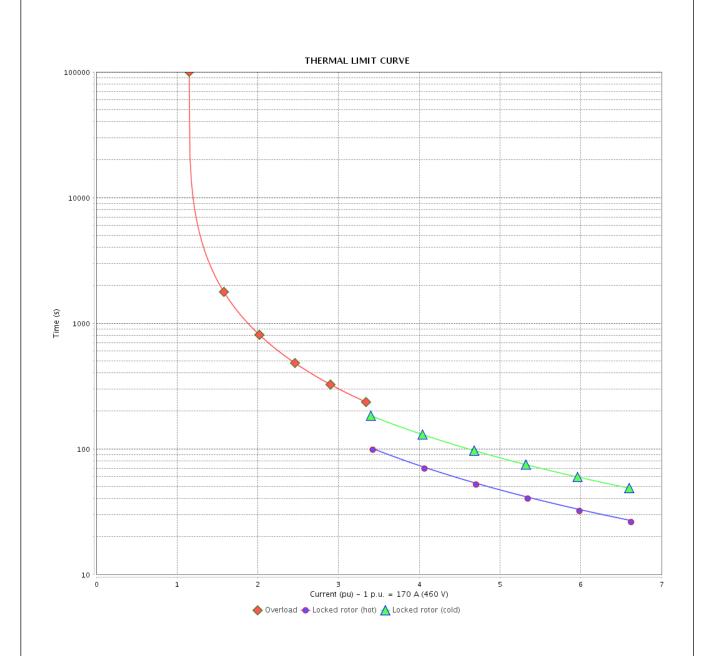


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	12693285	
				Catalog # :	15018ST3QIE	4451S-W22
Performance		: 460 V 60 Hz 4P				
Rated current		: 170 A	Moment of	of inertia (J)	: 66.7 sq.ft.lb	
LRC		: 6.6 : 443 ft.lb	Duty cycle Insulation	е	: Cont.(S1) : F	
Rated torque Locked rotor torc		: 200 %	Service fa		. г : 1.15	
Breakdown torqu	ie	: 250 %	Temperat	ure rise	: 80 K	
Rated speed		: 1780 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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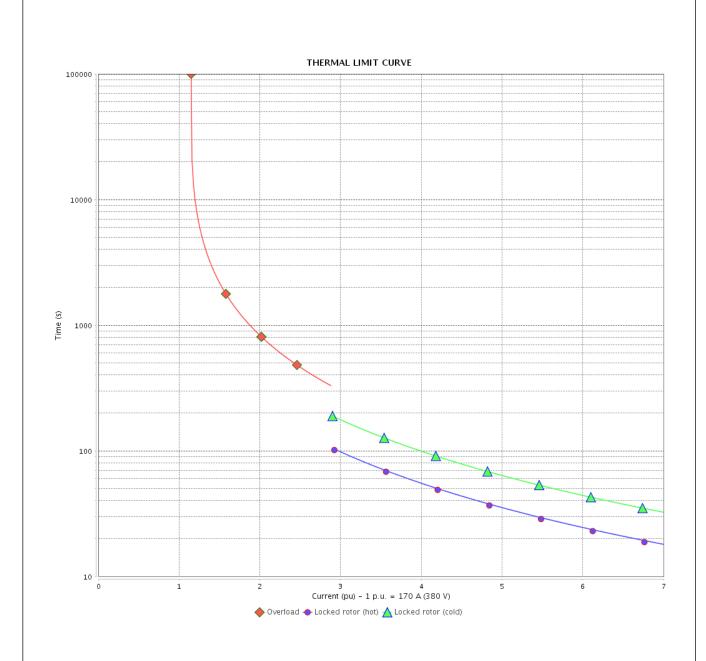


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	12693285	
				Catalog # :	15018ST3QIE	445TS-W22
Performance		: 380 V 50 Hz 4P IE3			007 611	
Rated current LRC		: 170 A : 7.0	Moment o	of inertia (J) e	: 66.7 sq.ft.lb : Cont.(S1)	
Rated torque		: 444 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		: 190 % : 240 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 1480 rpm	Design	a. 5 1100	: B	
Heating constant						
Cooling constant						
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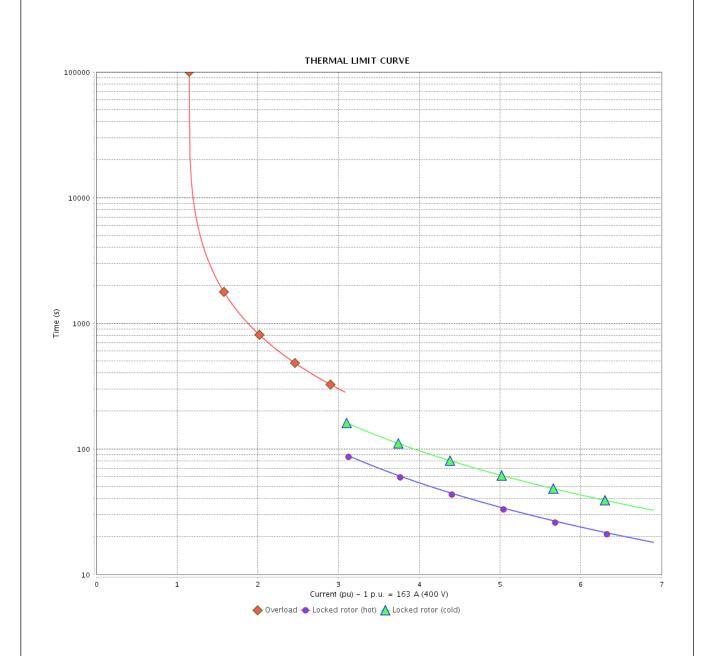


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Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	12693285 15018ST3QIE	445TS-W22
Performance	: 400 V 50 Hz 4P IE3				
Rated current	: 163 A : 6.9	Moment of	f inertia (J)	: 66.7 sq.ft.lb	
Rated torque	: 444 ft.lb : 220 %	Duty cycle Insulation Service fa	class	: Cont.(S1) : F : 1.00	
Breakdown torque	: 260 %	Temperatu		: 80 K	
Rated speed Heating constant	: 1480 rpm	Design		: B	
Cooling constant					
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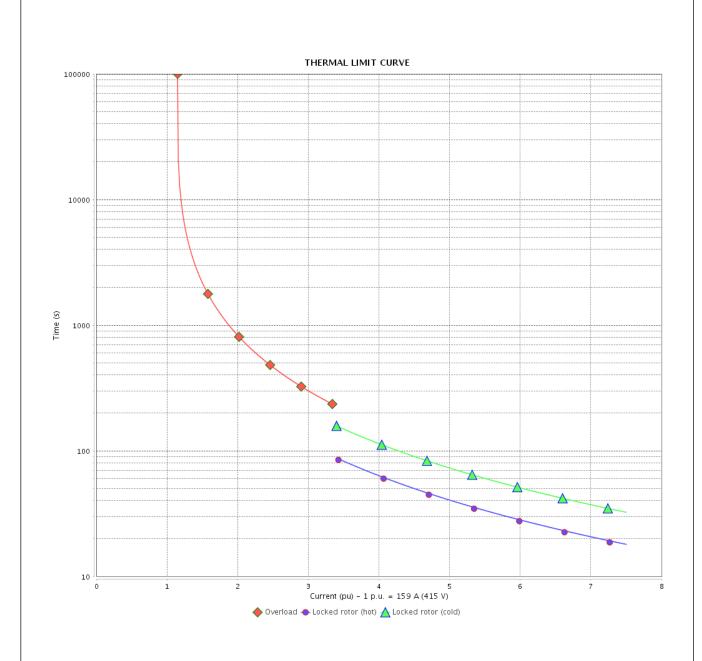


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Product line		: NEMA Premium Efficiency	Three-	Product code :	12693285	
		Phase		Catalog # :	15018ST3QIE	445TS-W22
- ·		445145011 40150				
Performance Rated current		: 415 V 50 Hz 4P IE3 : 159 A	Momont	of inertia (J)	: 66.7 sq.ft.lb	
LRC	:	: 7.5	Duty cycle	Э	: Cont.(S1)	
Rated torque Locked rotor torqu		: 444 ft.lb : 229 %	Insulation Service fa		: F : 1.00	
Breakdown torque		: 290 %	Temperat		: 80 K	
Rated speed		: 1480 rpm	Design		: B	
Heating constant						
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



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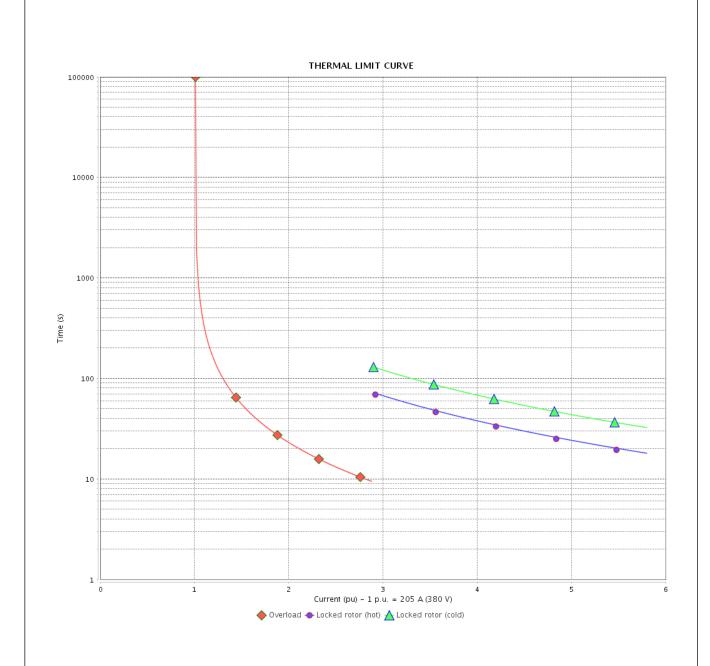


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Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	12693285 15018ST3QIE	E445TS-W22
Performance	: 380 V 50 Hz 4P IE2	Mamonta	finatio (I)	: CC 7 og # lb	
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 205 A : 5.8 : 534 ft.lb : 160 % : 200 % : 1475 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 66.7 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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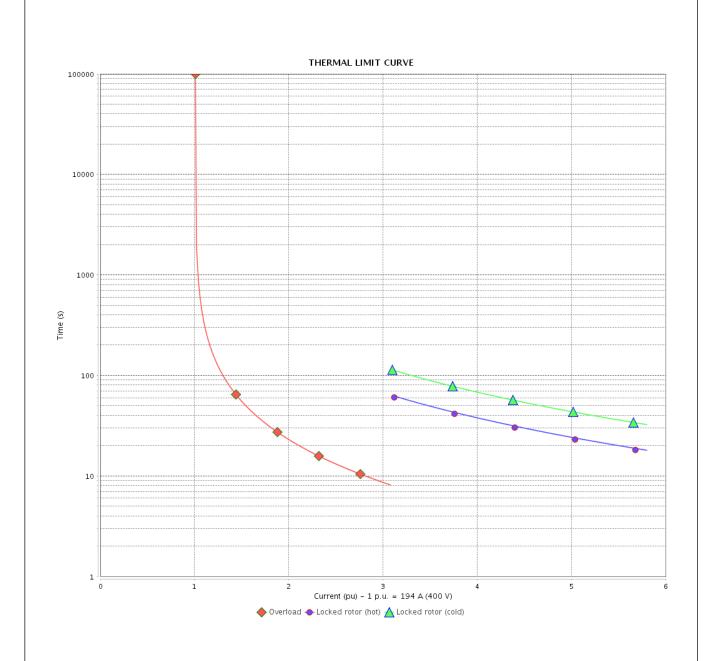


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Product line	: NEMA Premium Efficiency T Phase		12693285	-14570 11/22
		Catalog #:	15018ST3QIE	445TS-W22
Performance	: 400 V 50 Hz 4P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 194 A : 5.8 : 534 ft.lb : 180 % : 220 % : 1475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 66.7 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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Heating constant				
Cooling constant Rev.	Changes Summary	Performed	Checked	Date
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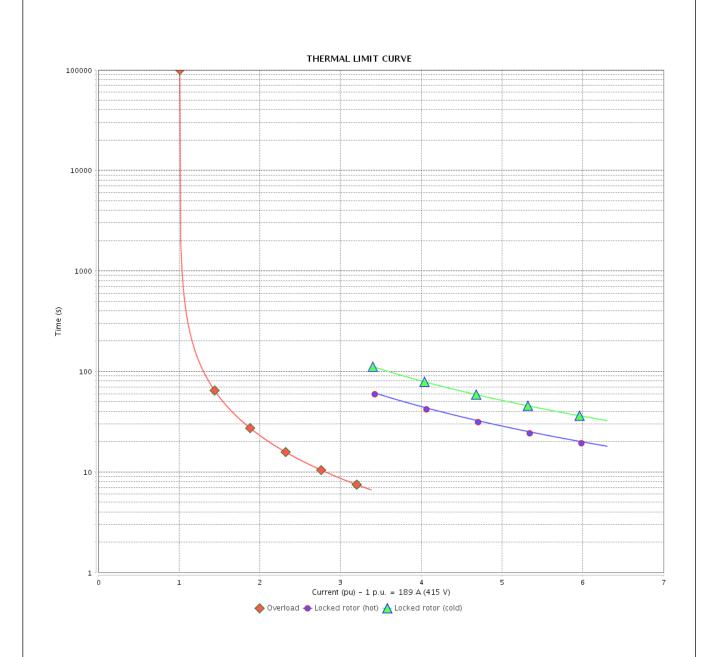


Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	12693285	
		i ilasc		Catalog # :	15018ST3QIE	445TS-W22
Performance		: 415 V 50 Hz 4P IE3				
Rated current		: 189 A	Moment of	of inertia (J)	: 66.7 sq.ft.lb	
LRC		: 6.3	Duty cycle	е	: Cont.(S1)	
Rated torque Locked rotor torc		: 532 ft.lb : 190 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ie	: 240 %	Temperat		: 105 K	
Rated speed		: 1480 rpm	Design		: B	
Heating constant						
Cooling constant Rev.	t .	Changes Summani		Performed	Checked	Doto
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Product line : NEMA Premium Efficiency Three-

Phase

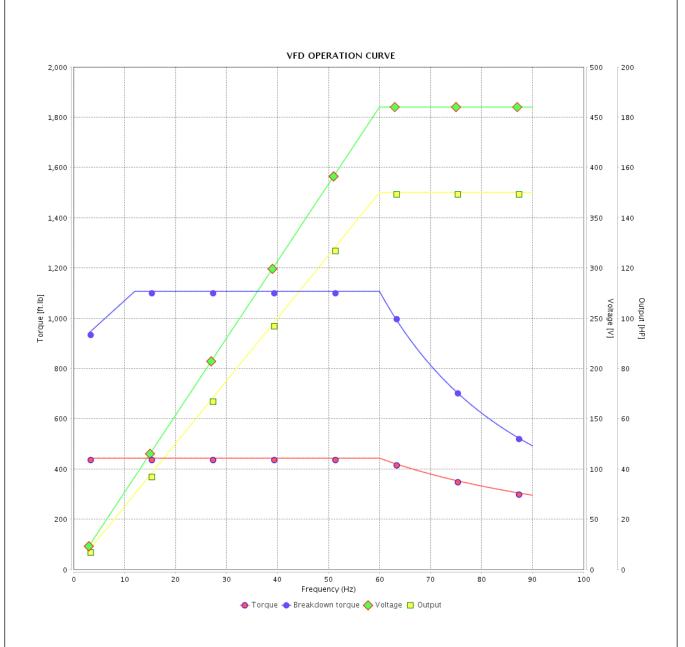
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Performance	: 4	60 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 4 jue : 2 ie : 2	70 A 6.6 43 ft.lb 200 % 250 % 780 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 66.7 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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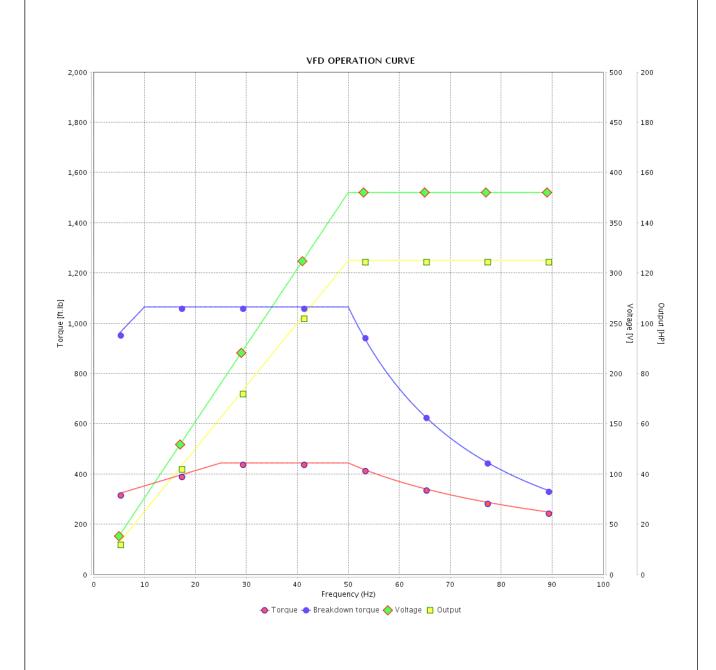


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Performance	: 38	80 V 50 Hz 4P IE3				
Rated current	: 17	: 170 A		f inertia (J)	: 66.7 sq.ft.lb	
LRC	: 7.	0	Duty cycle	;	: Cont.(S1)	
Rated torque	: 44	14 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 19	90 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 24	10 %	Temperature rise		: 80 K	
Rated speed	: 14	180 rpm	Design		: B	
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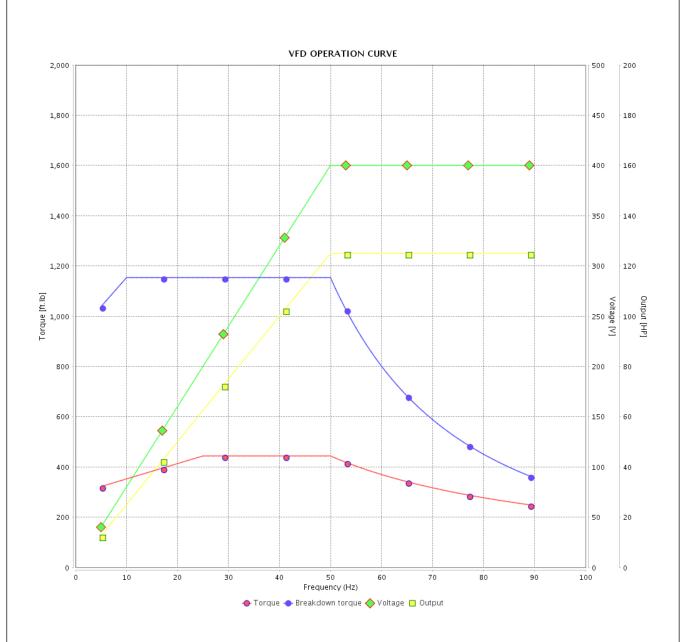
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Performance		: 400 V 50 Hz 4P	IE3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	lue le	: 163 A : 6.9 : 444 ft.lb : 220 % : 260 % : 1480 rpm	Duty of Insular Service	tion class e factor erature rise	: 66.7 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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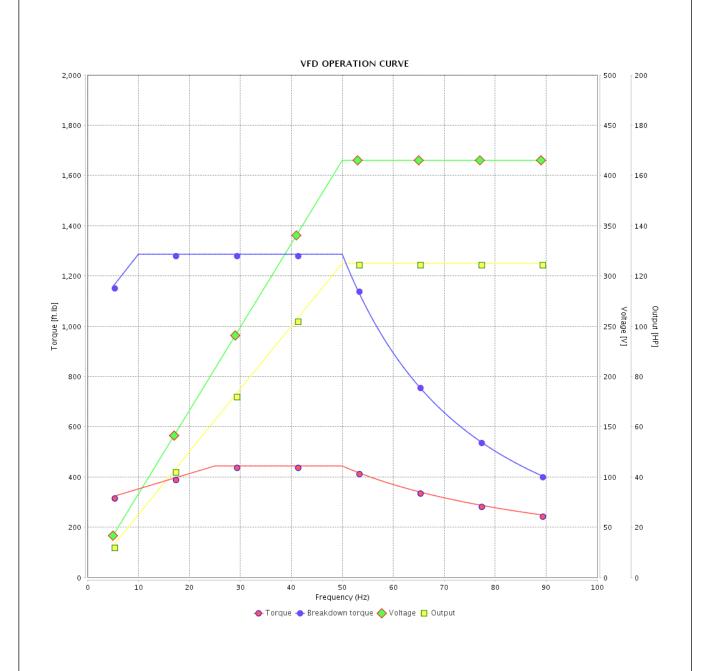


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Phase

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Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	: 1	59 A Moment of inertia (J)		f inertia (J)	: 66.7 sq.ft.lb	
LRC	: 7	.5	Duty cycle	}	: Cont.(S1)	
Rated torque	: 4	44 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	29 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	90 %	Temperati	Temperature rise		
Rated speed	: 1	480 rpm	Design		: B	
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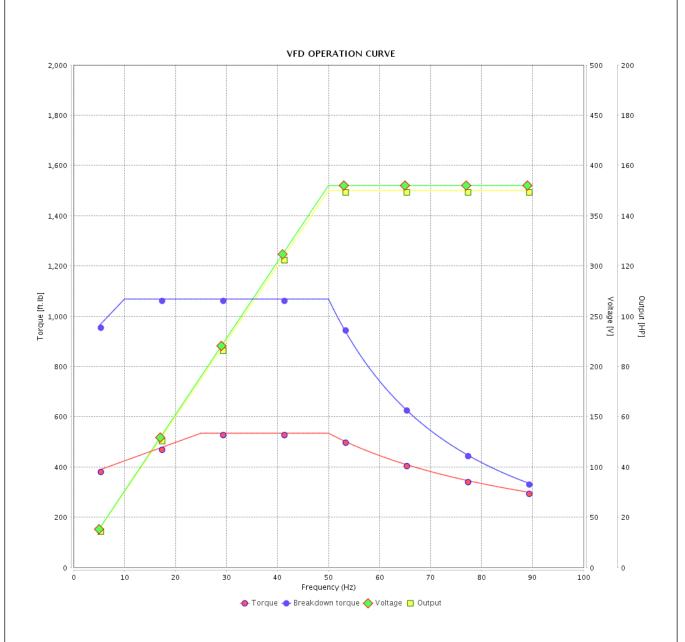
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Performance	::	380 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	jue : :	205 A 5.8 534 ft.lb 160 % 200 % 1475 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 66.7 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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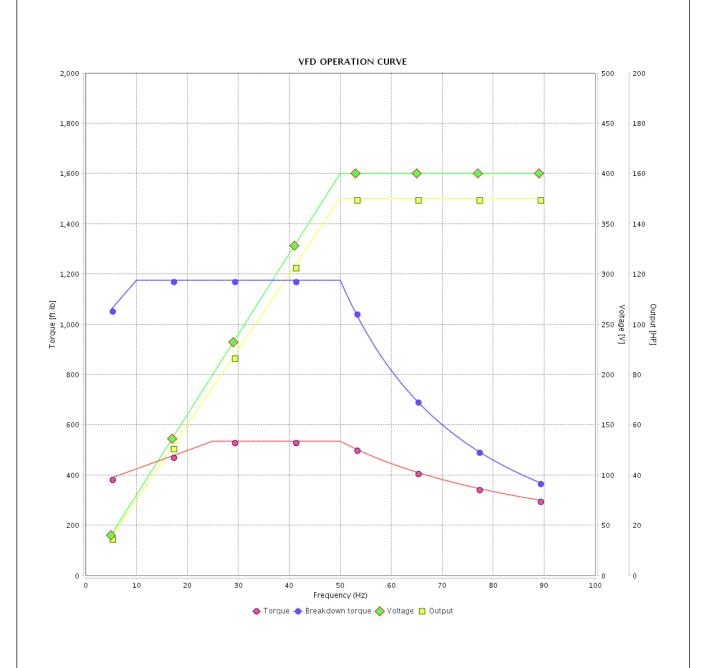


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Performance	: 40	00 V 50 Hz 4P IE2				
Rated current	: 1	94 A Moment of ine		f inertia (J)	: 66.7 sq.ft.lb	
LRC	: 5	.8	Duty cycle	;	: Cont.(S1)	
Rated torque	: 53	34 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 18	80 %	Service fa	ctor	: 1.00	
Breakdown torqu	e : 2:	20 %	Temperature rise		: 105 K	
Rated speed	: 14	475 rpm	Design		: B	
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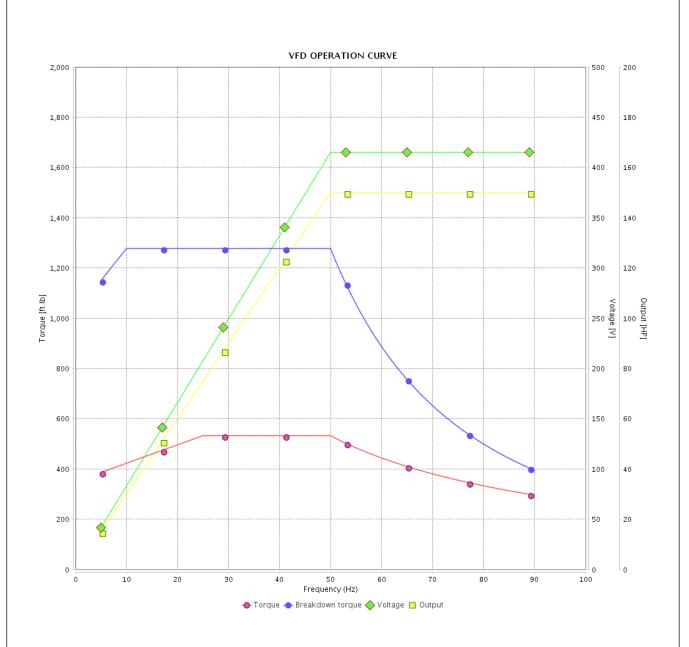
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Performance		415 V 50 Hz 4P IE3					
LRC Rated torque Locked rotor torque		39 A 3 32 ft.lb 90 % 40 % 480 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 66.7 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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