DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11431991

01018ST3QIE215TC-W22 Catalog #:

Frame : 213/5TC Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

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

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

: 1000 m.a.s.l. Approx. weight³ : 191 lb Altitude Moment of inertia (J) : 1.51 sq.ft.lb

: IP55 Protection degree

Design : B

Design		. Б						
Output [HP]		10	7.5	7.5	7.5	10	10	10
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]		12.4	11.2	11.0	10.9	15.0	14.2	13.8
L. R. Amperes [A]		79.4	75.0	78.1	81.7	76.5	79.5	82.8
LRC [A]		6.4x(Code H)	6.7x(Code H)	7.1x(Code J)	7.5x(Code J)	5.1x(Code F)	5.6x(Code F)	
								G)
No load current [A]		5.65	5.60	6.00	6.35	5.60	6.00	6.35
Rated speed [RPM]		1765	1465	1470	1470	1450	1455	1460
Slip [%]		1.94	2.33	2.00	2.00	3.33	3.00	2.67
Rated torque [ft.lb]		29.8	26.9	26.8	26.8	36.2	36.1	36.0
Locked rotor torque [%]		200	200	240	260	150	180	190
Breakdown torque	[%]	295	300	340	360	220	250	270
Service factor		1.25	1.15	1.15	1.15	1.15	1.15	1.15
Temperature rise		80 K	80 K					
Locked rotor time		30s (cold)	25s (cold)					
		17s (hot)	14s (hot)					
Noise level ²		58.0 dB(A)	56.0 dB(A)					
	25%							
Efficiency (%)	50%	91.0	90.0	89.2	88.7	90.3	90.3	90.3
Liliciency (70)	75%	91.7	90.0	89.9	89.8	90.2	90.2	90.2
100%		91.7	89.8	90.1	90.3	88.5	89.5	90.2
	25%							
Power Factor	50%	0.66	0.62	0.58	0.55	0.73	0.69	0.66
1 OWEL FACIOI	75%	0.77	0.76	0.73	0.70	0.82	0.80	0.78

100% 0.83 0.83 0.80 0.78 Drive end Non drive end Foundation loads

20000 h

6308 C3 Bearing type 6207 C3 Max. traction : 452 lb Sealing Inpro/Seal Inpro/Seal : 643 lb Max. compression

20000 h

Lubricant amount 11 g 7 g Mobil Polyrex EM Lubricant type

Notes

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.

0.86

0.85

0.84

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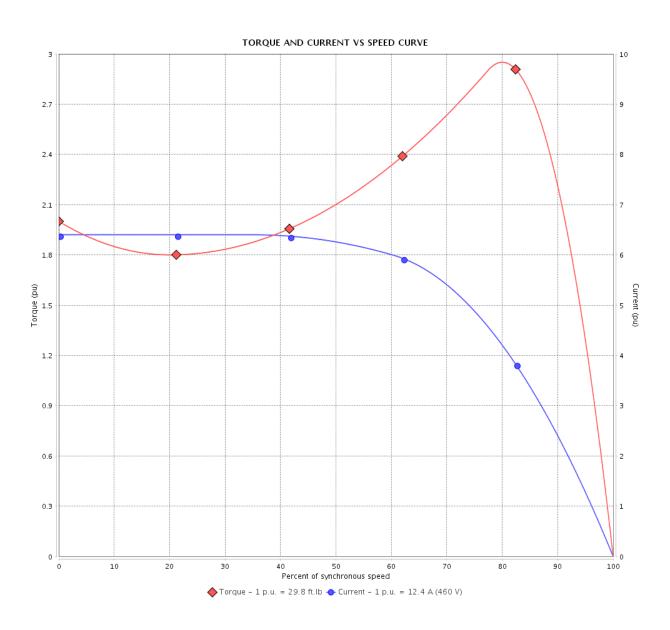
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11431991

Catalog #: 01018ST3QIE215TC-W22



Performance : 460 V 60 Hz 4P Rated current : 12.4 A Moment of inertia (J) : 1.51 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 29.8 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 295 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B

Locked rotor time : 30s (cold) 17s (hot)

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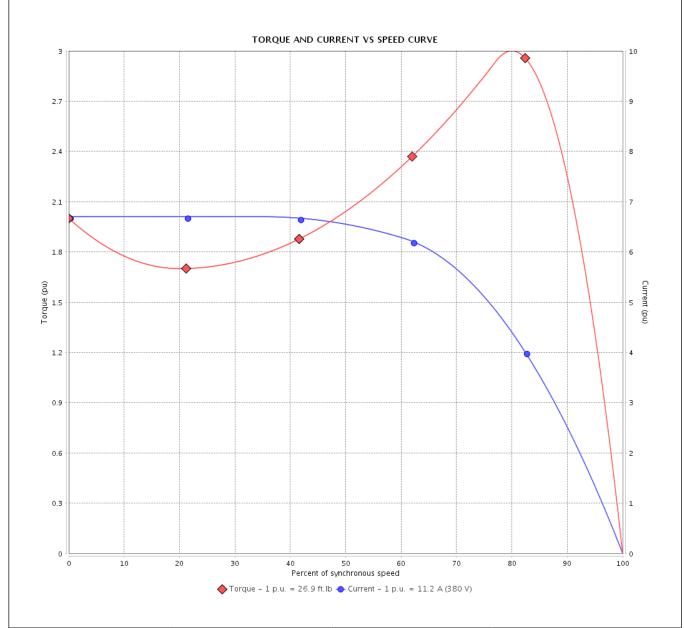


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11431991

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Catalog #: 01018ST3QIE215TC-W22



Performance	: 380 V 50 Hz 4P IE3			
Rated current	: 11.2 A	Moment of inertia (J)	: 1.51 sq.ft.lb	
LRC	: 6.7	Duty cycle	: Cont.(S1)	
Rated torque	: 26.9 ft.lb	Insulation class	: F	
Locked rotor torque	: 200 %	Service factor	: 1.15	
Breakdown torque	: 300 %	Temperature rise	: 80 K	
Rated speed	: 1465 rpm	Design	: B	
Locked roter time	: 25s (cold) 14s (bot)	I		

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

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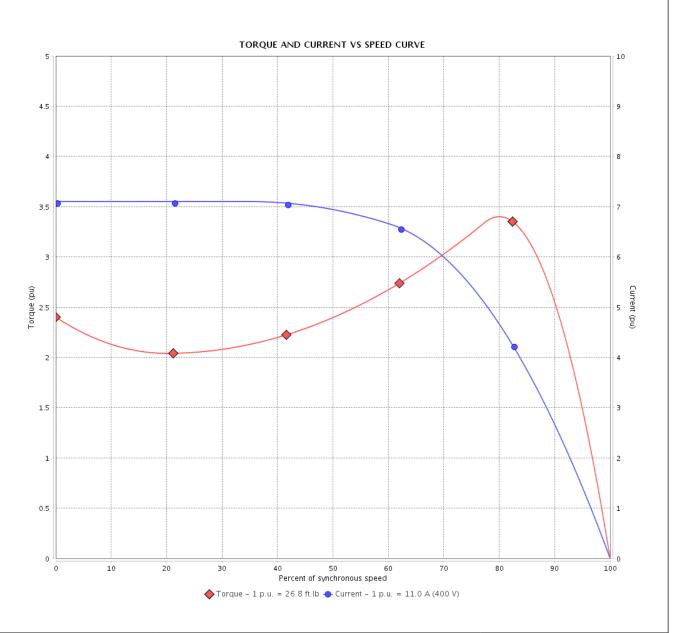


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11431991

Phase

Catalog #: 01018ST3QIE215TC-W22



Performance : 400 V 50 Hz 4P IE3 Rated current : 11.0 A Moment of inertia (J) : 1.51 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 26.8 ft.lb : F Locked rotor torque : 240 % Service factor : 1.15 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 1470 rpm Design : B

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

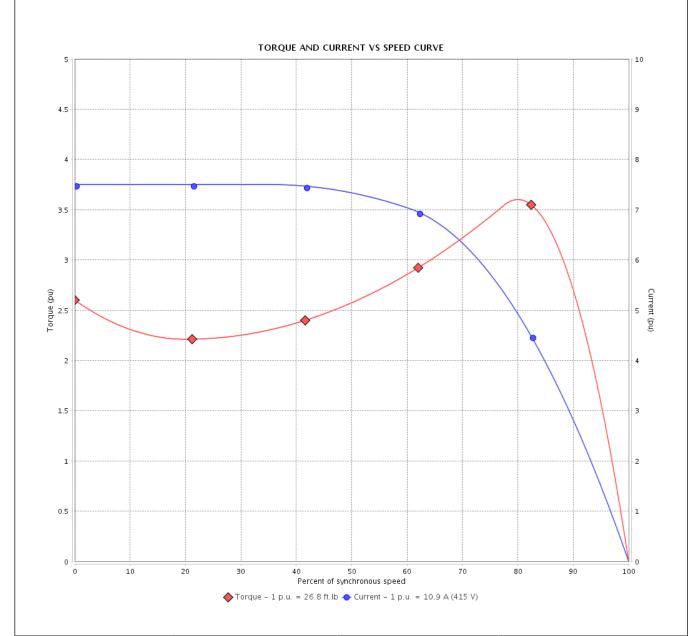
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Customer :

Product line : NEMA Premium Efficiency Three-Product code : 11431991
Phase Catalog # : 01018ST3QIE215TC-W22



Performance : 415 V 50 Hz 4P IE3 Rated current : 10.9 A Moment of inertia (J) : 1.51 sq.ft.lb **LRC** : 7.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 26.8 ft.lb : F : 260 % Locked rotor torque Service factor : 1.15 Breakdown torque : 360 % Temperature rise : 80 K Rated speed : 1470 rpm Design : B Locked rotor time : 25s (cold) 14s (hot)

Three Phase Induction Motor - Squirrel Cage



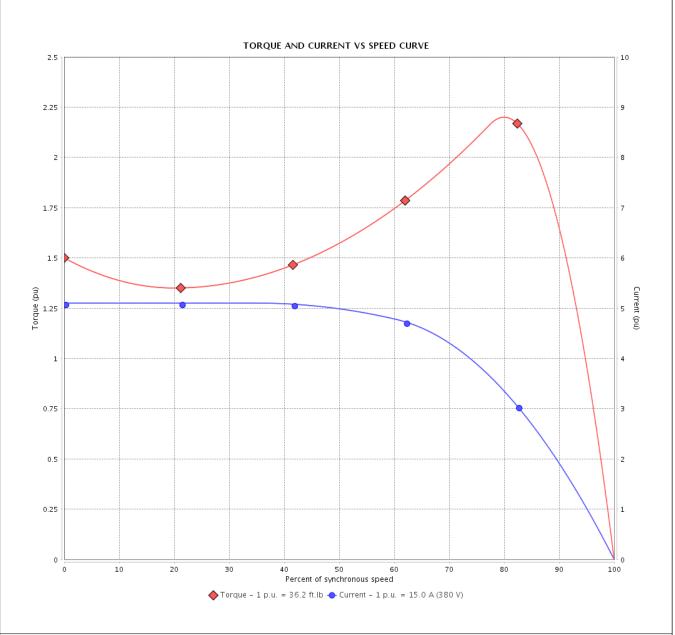
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Product line : NEMA Premium Efficiency Three- Product of

Phase

Product code: 11431991

Catalog #: 01018ST3QIE215TC-W22



Performance : 380 V 50 Hz 4P IE1 Rated current : 15.0 A Moment of inertia (J) : 1.51 sq.ft.lb **LRC** : 5.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 36.2 ft.lb : F Locked rotor torque : 150 % Service factor : 1.15 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 1450 rpm Design : B

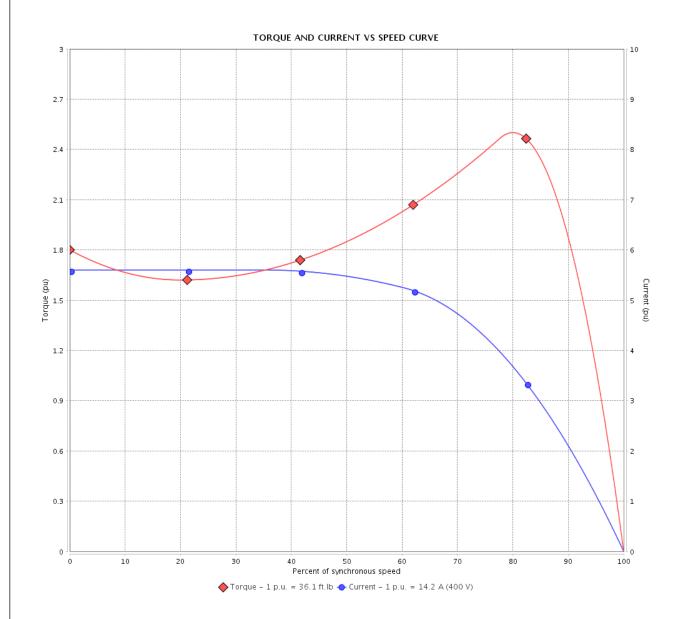
Locked rotor time : 25s (cold) 14s (hot)

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Customer Product line : NEMA Premium Efficiency Three-Product code: 11431991 Catalog #: 01018ST3QIE215TC-W22



Performance : 400 V 50 Hz 4P IE2 Rated current : 14.2 A Moment of inertia (J) : 1.51 sq.ft.lb **LRC** : 5.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 36.1 ft.lb : F Locked rotor torque : 180 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1455 rpm Design : B Locked rotor time : 25s (cold) 14s (hot)

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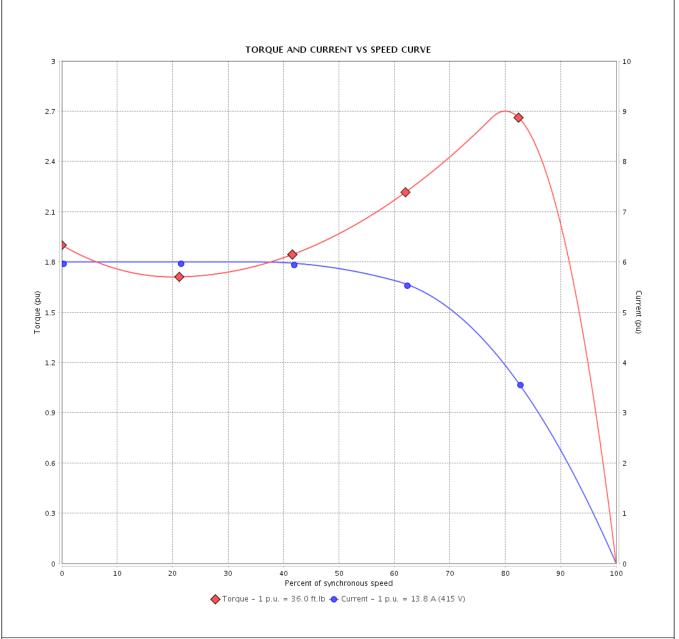


Customer

Product line : NEMA Premium Efficiency Three-Product code:

11431991

Catalog #: 01018ST3QIE215TC-W22



Performance : 415 V 50 Hz 4P IE2 Rated current : 13.8 A Moment of inertia (J) : 1.51 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) : 36.0 ft.lb Insulation class Rated torque : F Locked rotor torque : 190 % Service factor : 1.15 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1460 rpm Design : B Locked rotor time : 25s (cold) 14s (hot)

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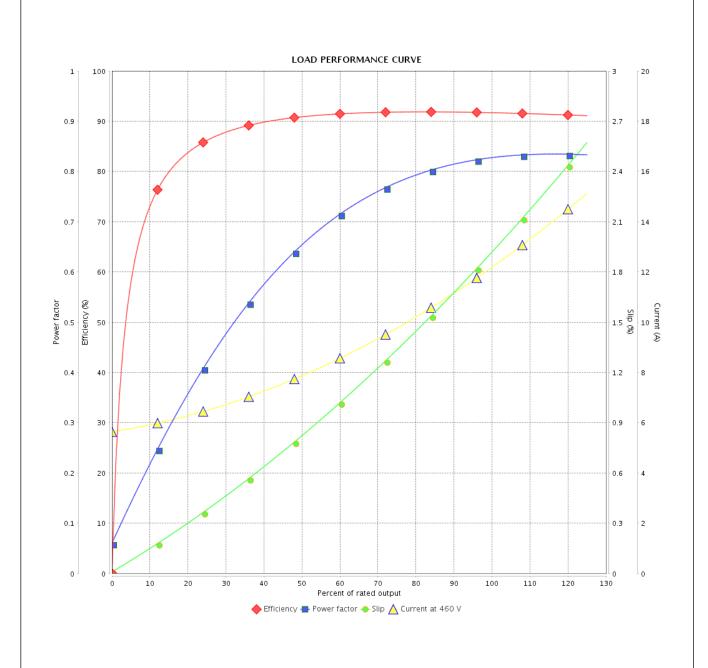
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11431991

01018ST3QIE215TC-W22 Catalog #:



Performance	: 4	60 V 60 Hz 4P				
Rated current :		2.4 A	Moment o	f inertia (J)	: 1.51 sq.ft.lb	
LRC : 6.		6.4	Duty cycle)	: Cont.(S1)	
Rated torque : 29		9.8 ft.lb	Insulation	class	: F	
Locked rotor torque : 2		200 %	Service fa	ctor	: 1.25	
Breakdown torque		95 %	Temperati	ıre rise	: 80 K	
Rated speed	: 1	765 rpm	m Design		: B	
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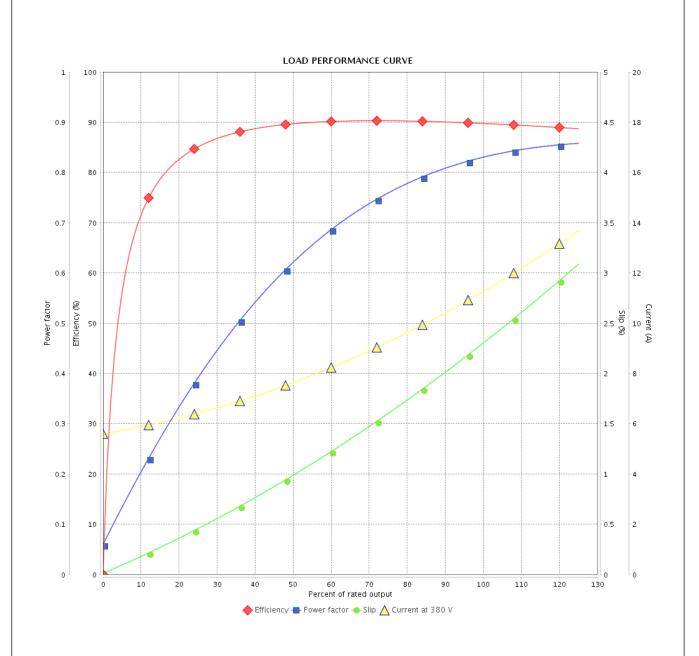
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Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 11.2 A : 6.7 : 26.9 ft.lb : 200 % : 300 % : 1465 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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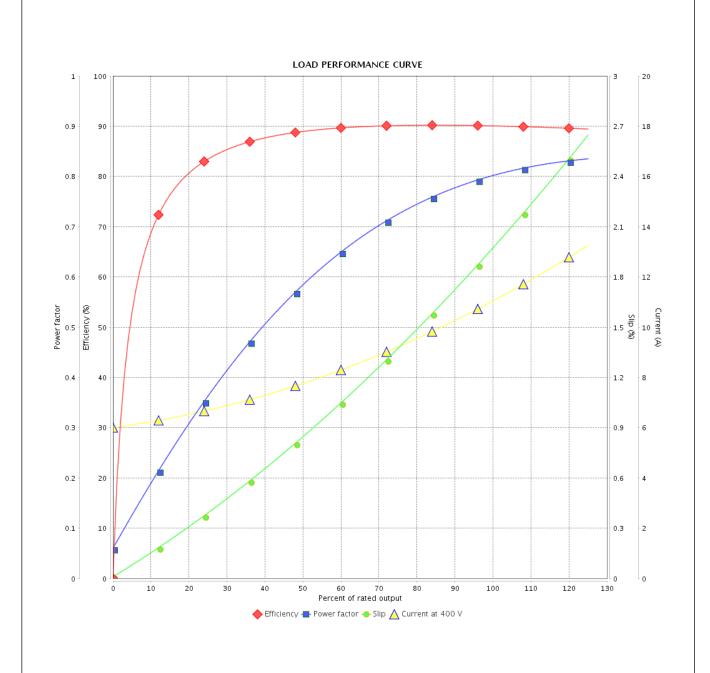
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Performance	:	400 V 50 Hz 4P IE3				
Rated current	:	11.0 A	1.0 A Moment of inertia (J)		: 1.51 sq.ft.lb	
LRC	:	7.1	Duty cycle)	: Cont.(S1)	
Rated torque	:	26.8 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	240 %	Service fa	ctor	: 1.15	
Breakdown torque	:	: 340 % Temperature ri		re rise : 80 K		
Rated speed	:	1470 rpm	Program Design		: B	
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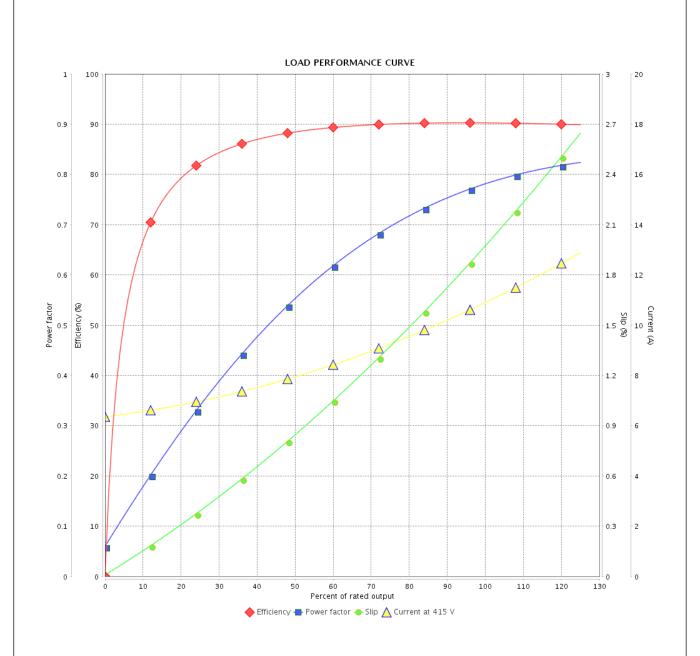
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Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 10.9 A : 7.5 : 26.8 ft.lb : 260 % : 360 % : 1470 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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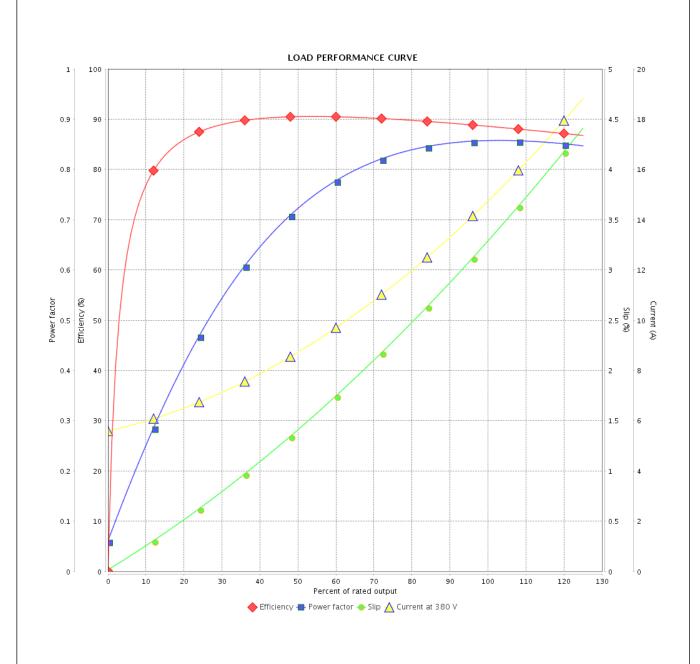
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Performance : 380 V 50 Hz 4P IE1					
Rated current	: 15.0 A	Moment of inert	ia (J)	: 1.51 sq.ft.lb	
LRC	: 5.1	Duty cycle		: Cont.(S1)	
Rated torque	: 36.2 ft.lb	Insulation class		: F	
Locked rotor torque	: 150 %	Service factor		Service factor : 1.15	
Breakdown torque	: 220 %	Temperature rise Design		: 80 K	
Rated speed	: 1450 rpm			: B	
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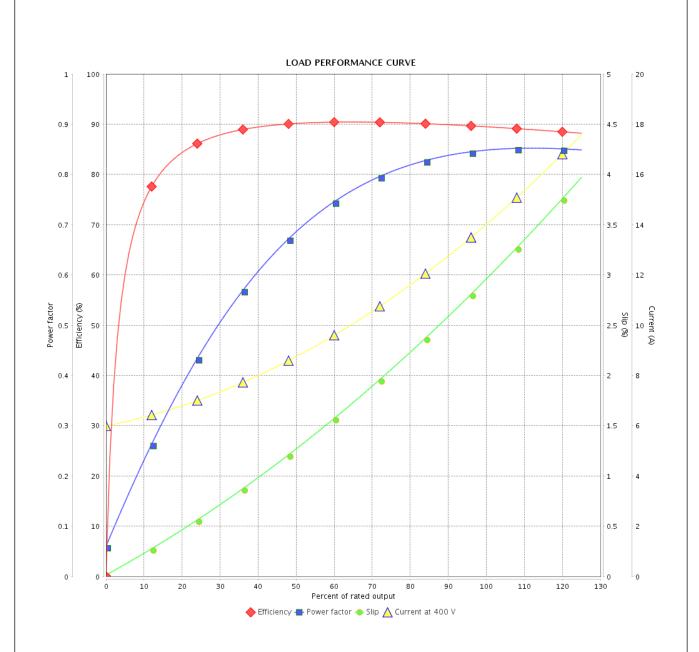
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Performance	: 400 V 50 Hz 4P IE2					
Rated current : 14.2 A Moment of in LRC : 5.6 Duty cycle Rated torque : 36.1 ft.lb Insulation cla Locked rotor torque : 180 % Service facto Breakdown torque : 250 % Temperature Rated speed : 1455 rpm Design		class	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B			
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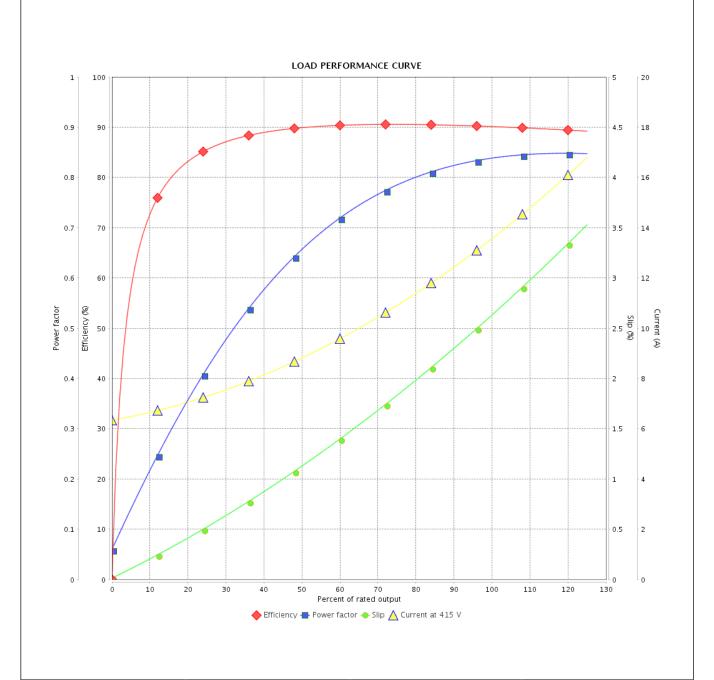


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11431991

Phase

Catalog #: 01018ST3QIE215TC-W22



Performance : 415 V 50 Hz 4P IE2						
Rated current	: 1	3.8 A	Moment o	Moment of inertia (J)		
LRC	: 6	.0	Duty cycle	` '	: 1.51 sq.ft.lb : Cont.(S1)	
Rated torque	: 3	6.0 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 1	90 %	Service fa	ctor	: 1.15	
Breakdown torqu	e : 2	70 %	Temperati	Temperature rise		
Rated speed	: 1	460 rpm	Design		: B	
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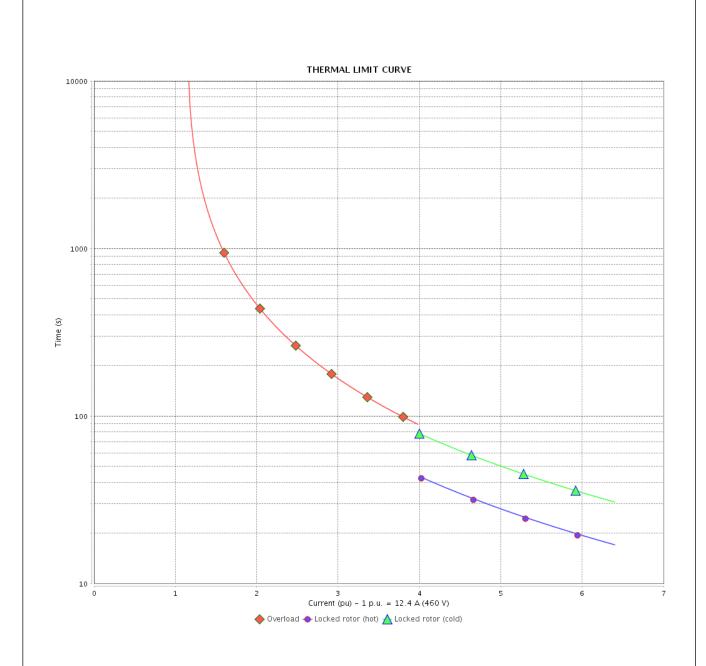


Customer	:				
Product line	: NEMA Premium Efficienc Phase		Product code : Catalog # :	11431991 01018ST3QIE	E215TC-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 460 V 60 Hz 4P : 12.4 A : 6.4 : 29.8 ft.lb : 200 % : 295 % : 1765 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 1.51 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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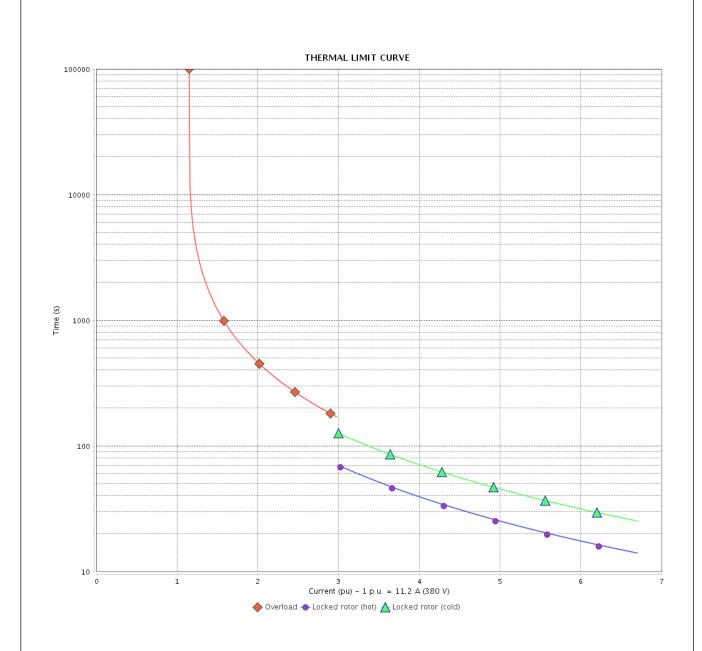


Customer	:				
Product line	: NEMA Premium Efficienc Phase		Product code : Catalog # :	11431991 01018ST3QIE	E215TC-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 380 V 50 Hz 4P IE3 : 11.2 A : 6.7 : 26.9 ft.lb : 200 % : 300 % : 1465 rpm	Moment of Duty cycle Insulation Service far Temperation Design	class ctor	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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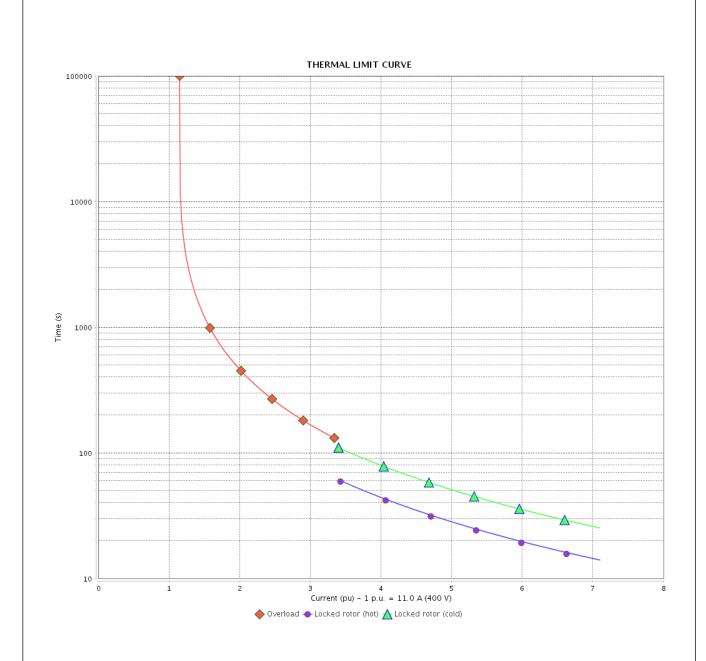


Customer	:				
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Product line	: NEMA Premium Efficiency	Three-	Product code :	11431991	
	Phase		Catalog # :	01018ST3QIE	215TC W22
			Catalog # .	01010313Q1E	21010-1122
Performance	: 400 V 50 Hz 4P IE3	Monsont -	finartia (I)	. 1 51 55 51	
Rated current LRC	: 11.0 A : 7.1	Duty cycle	f inertia (J)	: 1.51 sq.ft.lb : Cont.(S1)	
Rated torque	: 26.8 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque	: 240 % : 340 %	Service fa Temperatu		: 1.15 : 80 K	
Rated speed	: 1470 rpm	Design	3 3	: B	
Heating constant					
Cooling constant					
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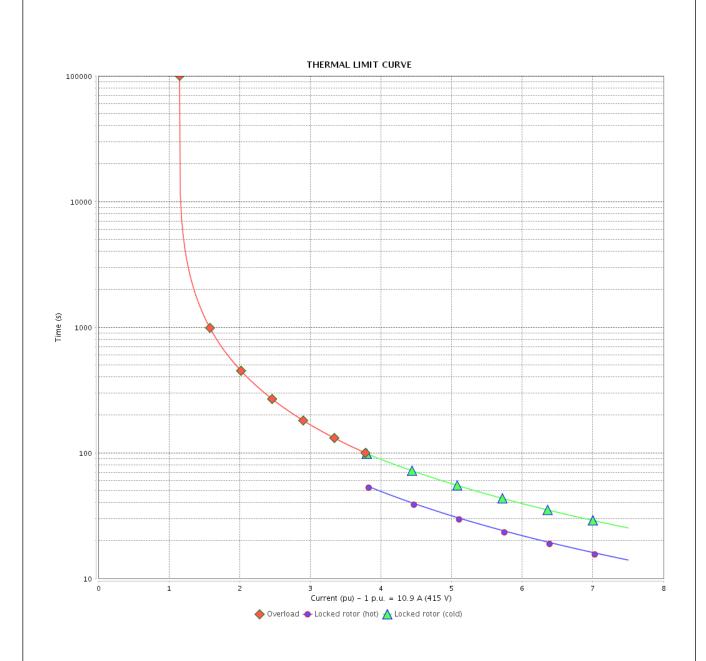


Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	11431991	
		11000		Catalog # :	01018ST3QIE	215TC-W22
Performance		: 415 V 50 Hz 4P IE3				
Rated current		: 10.9 A	Moment of	of inertia (J)	: 1.51 sq.ft.lb	
LRC Rated torque		: 7.5 : 26.8 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que	: 260 %	Service fa	actor	: 1.15	
Breakdown torqu		: 360 %	Temperat	ure rise	: 80 K : B	
Rated speed		: 1470 rpm	Design		. Б	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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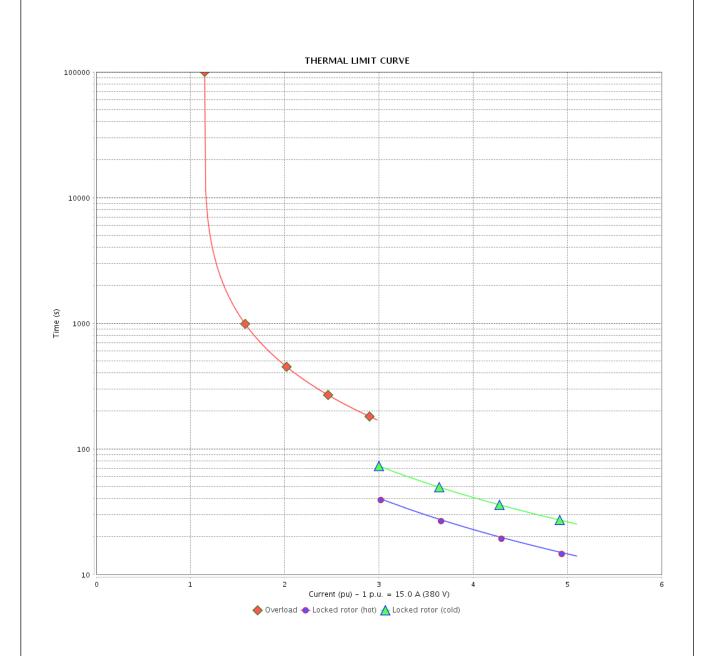


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Product line		NEMA Premium Efficiency ⁻ Phase		Product code :	11431991 01018ST3QI	E215TC-W22
Performance Rated current LRC Rated torque Locked rotor toro Breakdown torqu	: : : { : (; ; ()	380 V 50 Hz 4P IE1 15.0 A 5.1 36.2 ft.lb 150 % 220 %	Moment or Duty cycle Insulation Service far Temperatu	class ctor	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K	
Rated speed Heating constant Cooling constant	: ´	1450 rpm	Design		: B	
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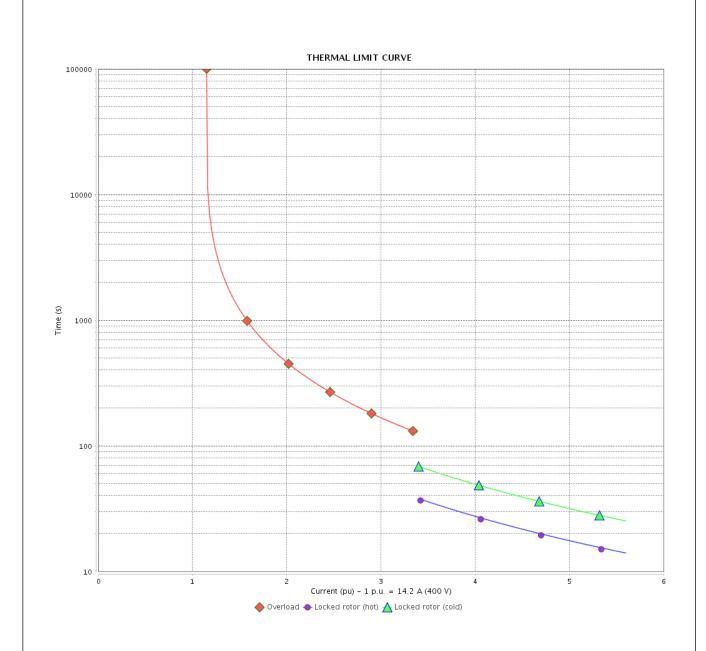


Customer	:					
Product line		EMA Premium Efficiency ase		Product code :	11431991 01018ST3QIE	215TC-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14. : 5.6 : 36. : 18 : 25	6 .1 ft.lb 0 %	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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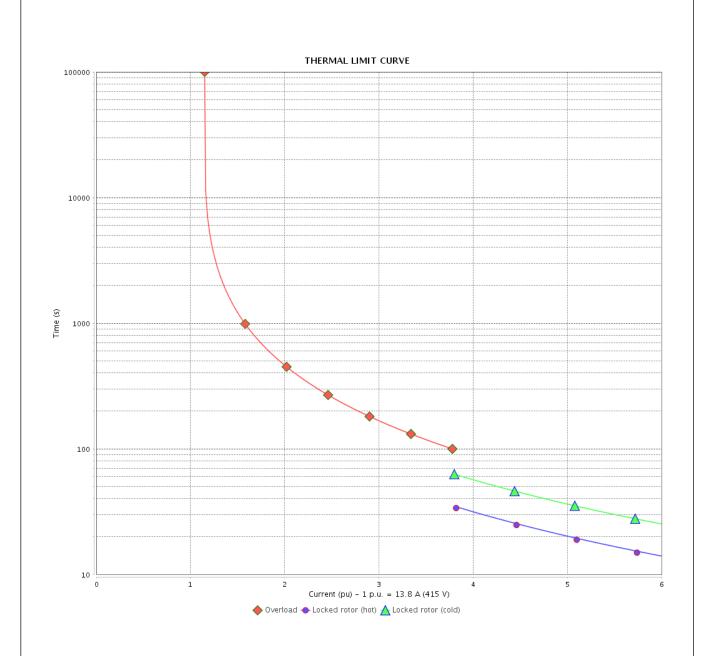


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code :	11431991	-045TO W00
			Catalog # :	01018ST3QI	=2151C-W22
Derference	. 445 V 50 H= 4D IF0				
Performance Rated current	: 415 V 50 Hz 4P IE2 : 13.8 A	Moment	f inertia (I)	· 1 51 ca ft lb	
LRC	: 13.8 A : 6.0	Duty cycle	f inertia (J)	: 1.51 sq.ft.lb : Cont.(S1)	
Rated torque	: 36.0 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque	: 190 % : 270 %	Service fa Temperatu		: 1.15 : 80 K	
Rated speed	: 1460 rpm	Design	ii C 113C	: B	
Heating constant		_			
Cooling constant					
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Product line : NEMA Premium Efficiency Three- F

Phase

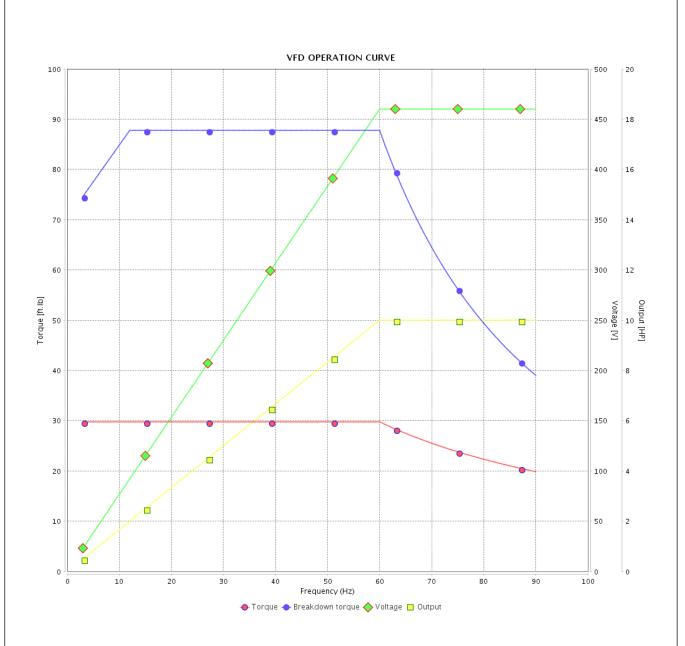
Product code: 11431991

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Revision



Performance : 460 V 60 Hz 4P : 12.4 A Rated current Moment of inertia (J) : 1.51 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) Insulation class Rated torque : 29.8 ft.lb : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 295 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage

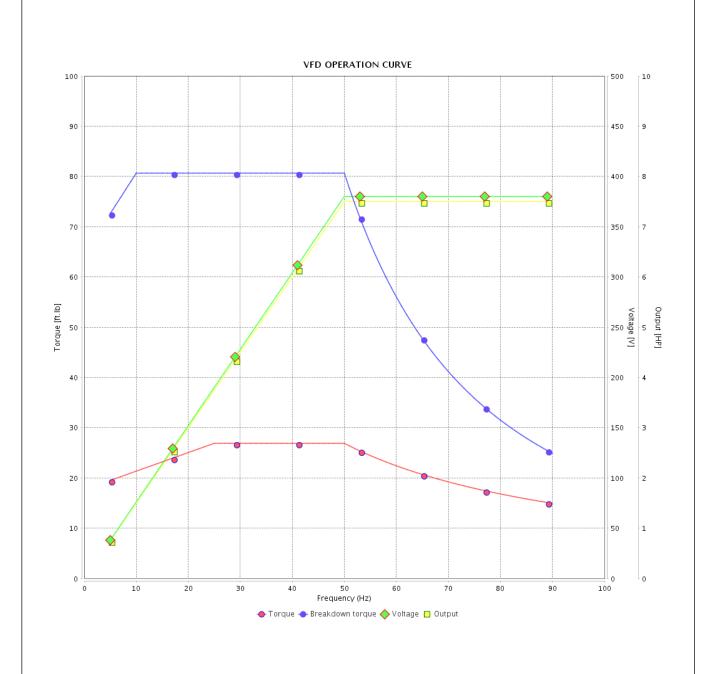


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431991

Phase

Catalog #: 01018ST3QIE215TC-W22



			,		,	
Performance		380 V 50 Hz 4P IE3				
Rated current	:	11.2 A	Moment of	f inertia (J)	: 1.51 sq.ft.lb	
LRC	:	6.7	Duty cycle)	: Cont.(S1)	
Rated torque	:	26.9 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	200 %	Service fa	Service factor		
Breakdown torque	:	300 %	Temperature rise		: 80 K	
Rated speed	:	1465 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



Customer :

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Product line : NEMA Premium Efficiency Three- Product code :

Phase

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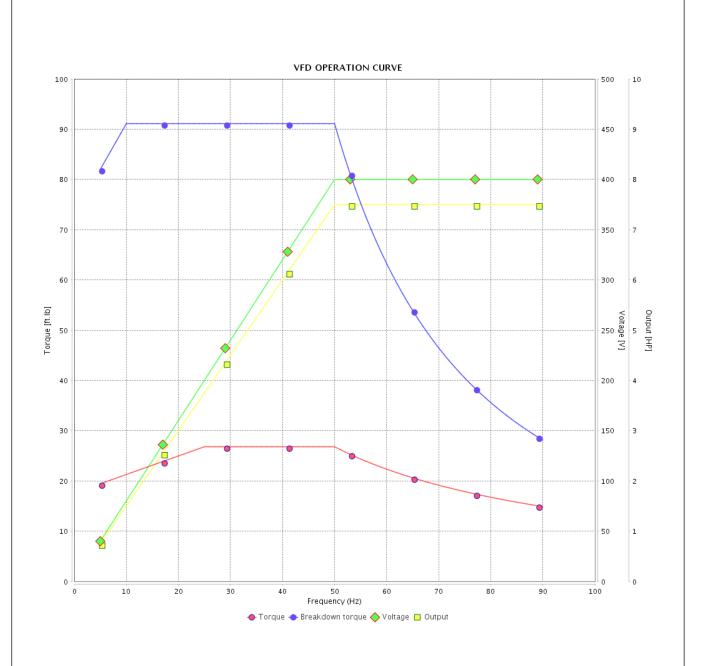
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Revision

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Performance : 400 V 50 Hz 4P IE3 : 11.0 A Rated current Moment of inertia (J) : 1.51 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) : 26.8 ft.lb Insulation class : F Rated torque Locked rotor torque : 240 % Service factor : 1.15 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 1470 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage

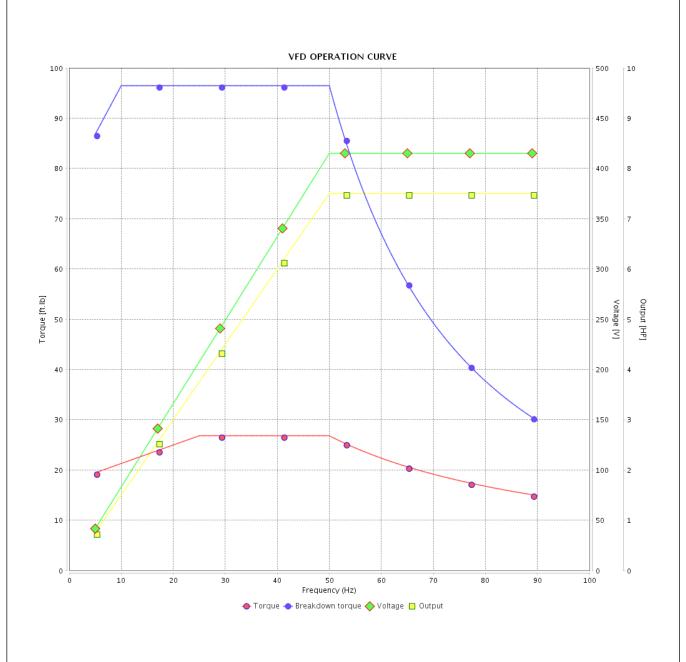


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431991

Phase

Catalog #: 01018ST3QIE215TC-W22



Performance	: 4	115 V 50 Hz 4P IE3				
Rated current : 10.9 A		Moment o	Moment of inertia (J)			
LRC	: 7	7.5	Duty cycle	;	: Cont.(S1)	
Rated torque	: 2	26.8 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	260 %	Service factor		: 1.15	
Breakdown torque	: 3	: 360 % Temperature rise		: 80 K		
Rated speed	: 1	1470 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



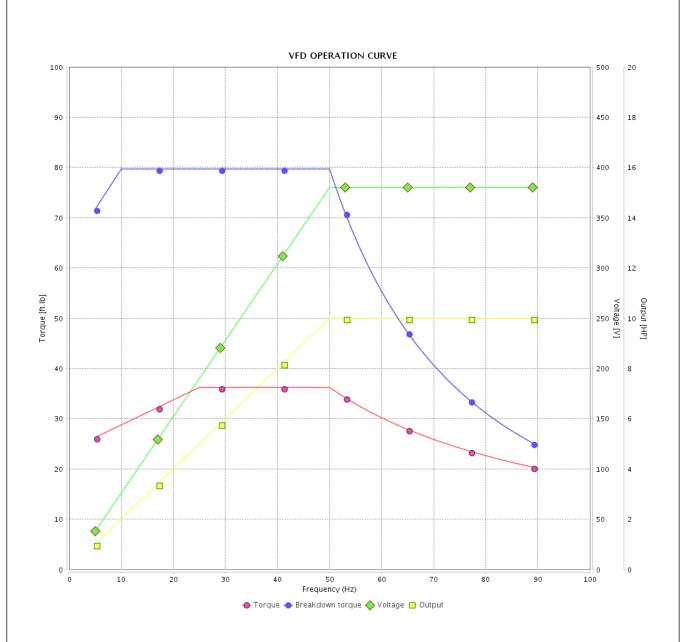
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11431991

Catalog #: 01018ST3QIE215TC-W22



Performance : 380 V 50 Hz 4P IE1 : 15.0 A Rated current Moment of inertia (J) : 1.51 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.1 : 36.2 ft.lb Insulation class : F Rated torque Locked rotor torque : 150 % Service factor : 1.15 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 1450 rpm Design : B Rev. Changes Summary Performed Checked Date

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Three Phase Induction Motor - Squirrel Cage

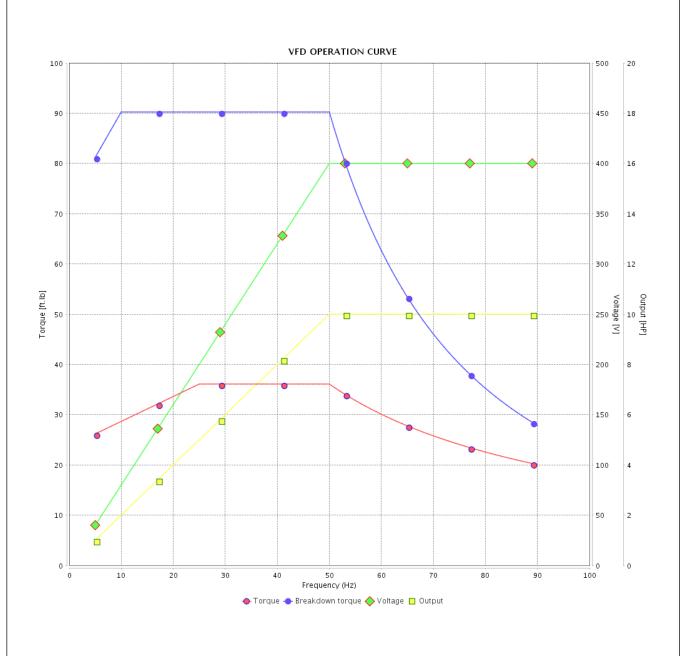


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431991

Phase

Catalog #: 01018ST3QIE215TC-W22



Performance	:	400 V 50 Hz 4P IE2				
Rated current : 14.2 A		Moment o	f inertia (J)	: 1.51 sq.ft.lb		
LRC	:	5.6	Duty cycle)	: Cont.(S1)	
Rated torque	:	36.1 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	180 %	Service factor		: 1.15	
Breakdown torque : 250 %		Temperati	Temperature rise			
Rated speed	:	1455 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



Customer :

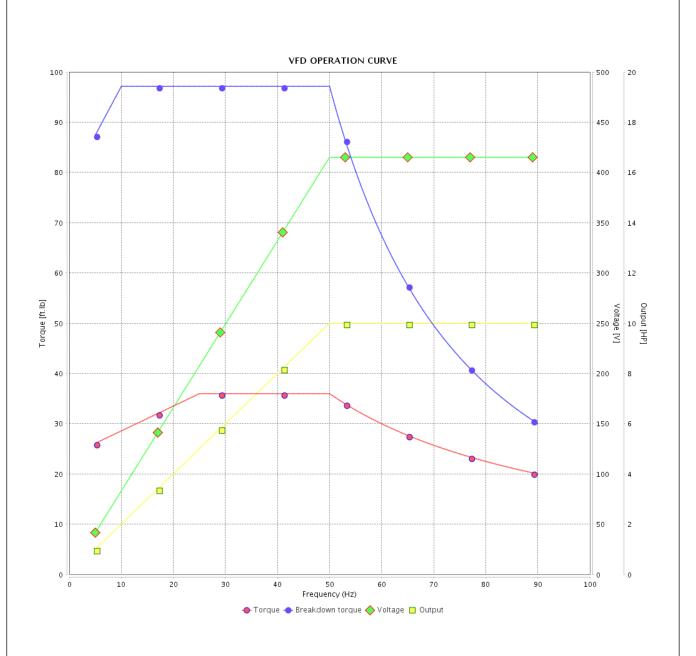
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 01018ST3QIE215TC-W22

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11431991



Performance	: 415 V 50 Hz 4P IE2				
Rated current	: 13.8 A	: 13.8 A Moment of inertia (J)		: 1.51 sq.ft.lb	
LRC	: 6.0	Duty cycle	;	: Cont.(S1)	
Rated torque	: 36.0 ft.lb	Insulation class		: F	
Locked rotor torque	: 190 %	Service factor Temperature rise Design		: 1.15	
Breakdown torque	: 270 %			: 80 K	
Rated speed	: 1460 rpm			: B	
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