DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11431640

Phase

Catalog # : 01018ST3QIE215T-W22

Frame : 213/5T 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 : 192 lb

Ailitude		. 1000 III.a.	3.1.	Applox	. weight		32 ID	
Protection degree	е	: IP55		Momer	nt of inertia (J)) : 1	.51 sq.ft.lb	
Design		: B						
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)	6.0x(Code
								G)
No load current [A]		5.65	5.60	6.00	6.35	5.60	6.00	6.35
Rated speed [RPM	1]	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 torqu	e [%]	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	80 K	80 K	80 K	80 K	80 K
Locked rotor time		30s (cold)	25s (cold)	25s (cold)	25s (cold)	25s (cold)	25s (cold)	25s (cold)
		17s (hot)	14s (hot)	14s (hot)	14s (hot)	14s (hot)	14s (hot)	14s (hot)
Noise level ²		58.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)
	25%	90.8	90.0	88.8	88.0	91.6	90.7	90.1
Efficiency (%)	50%	91.0	90.0	89.2	88.7	90.3	90.3	90.3
Linciency (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

 0.83
 0.83
 0.80
 0.78

 Drive end
 Non drive end
 Foundation loads

0.34

0.58

0.73

0.32

0.55

0.70

Bearing type : 6308 C3 6207 C3 Max. traction : 452 lb Sealing : Inpro/Seal Inpro/Seal Lubrication interval : 20000 h 20000 h

0.37

0.62

0.76

Lubricant amount : 11 g 7 g Lubricant type : Mobil Polyrex EM

0.40

0.66

0.77

25%

50%

75%

100%

Notes

Power Factor

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.

0.46

0.73

0.82

0.86

0.43

0.69

0.80

0.85

0.40

0.66

0.78

0.84

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Three Phase Induction Motor - Squirrel Cage



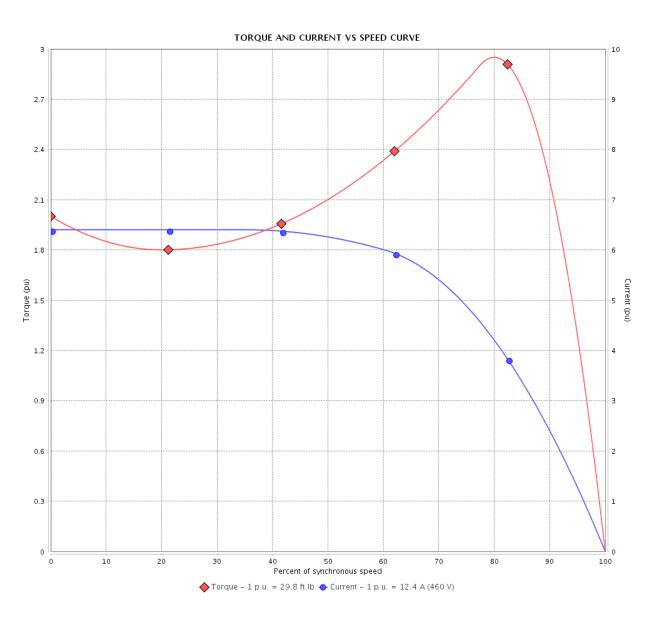
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11431640

Catalog #: 01018ST3QIE215T-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 Service factor Locked rotor torque : 200 % : 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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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11431640 Catalog #: 01018ST3QIE215T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 26.9 ft.lb ◆ Current - 1 p.u. = 11.2 A (380 V) 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) Insulation class Rated torque : 26.9 ft.lb : F : 200 % Locked rotor torque Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B Locked rotor time : 25s (cold) 14s (hot) Date Rev. Performed Checked **Changes Summary**

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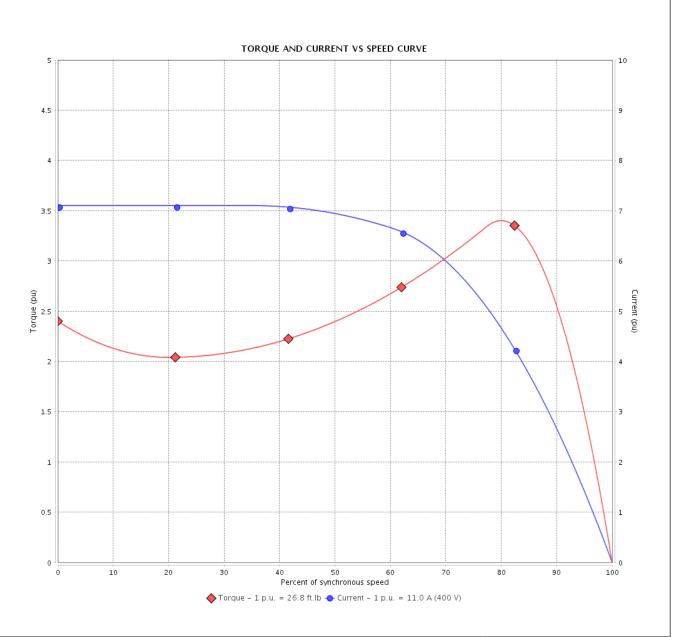


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11431640

Phase

Catalog #: 01018ST3QIE215T-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

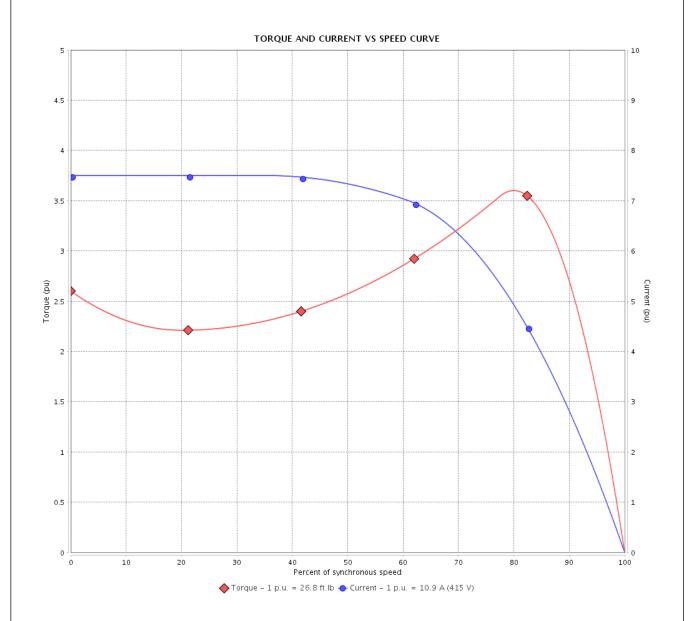
Locked rotor time : 25s (cold) 14s (hot)

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Customer Product line : NEMA Premium Efficiency Three-Product code: 11431640 Catalog #: 01018ST3QIE215T-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) : 26.8 ft.lb Insulation class : F Rated torque : 260 % Locked rotor torque Service factor : 1.15 Breakdown torque : 360 % Temperature rise : 80 K : B Rated speed : 1470 rpm Design Locked rotor time : 25s (cold) 14s (hot)

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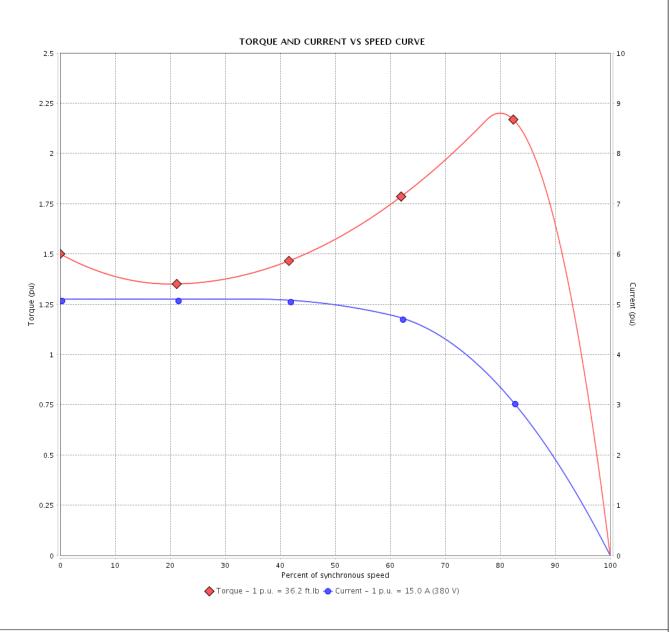
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11431640

Catalog #: 01018ST3QIE215T-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 Service factor Locked rotor torque : 150 % : 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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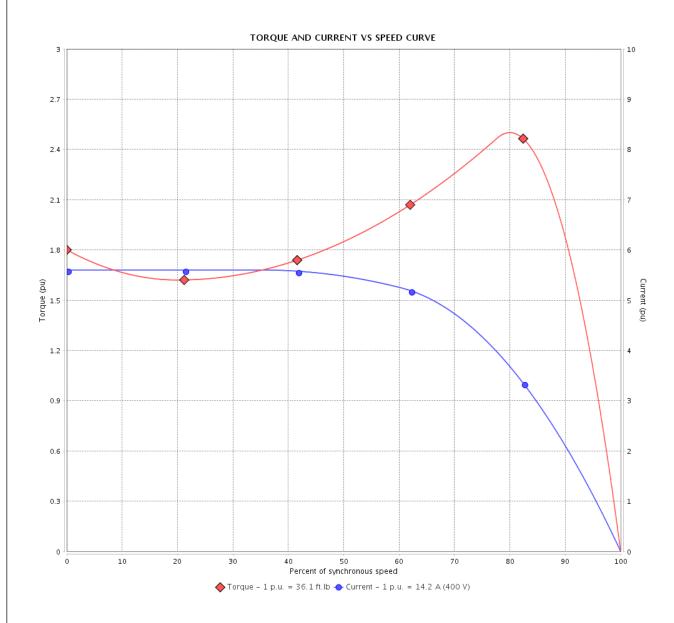
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 11431640

Catalog #: 01018ST3QIE215T-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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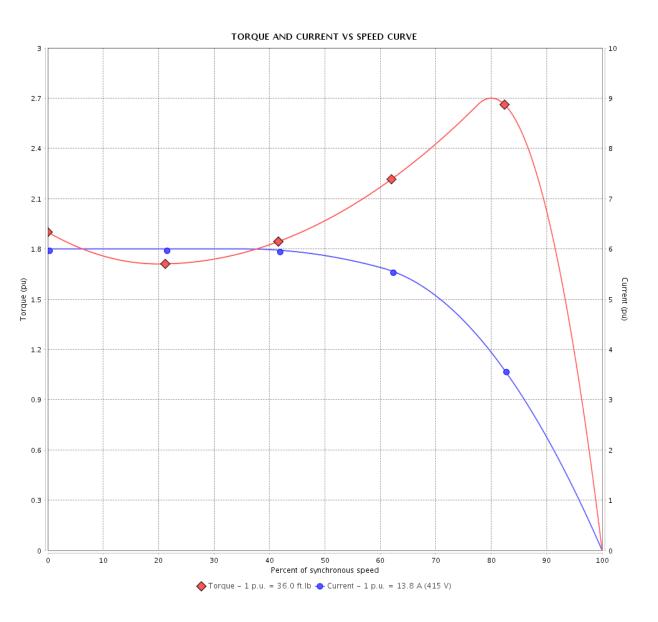


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11431640

Phase

Catalog # : 01018ST3QIE215T-W22



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

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Product line : NEMA Premium Efficiency Three- Product code : 11431640

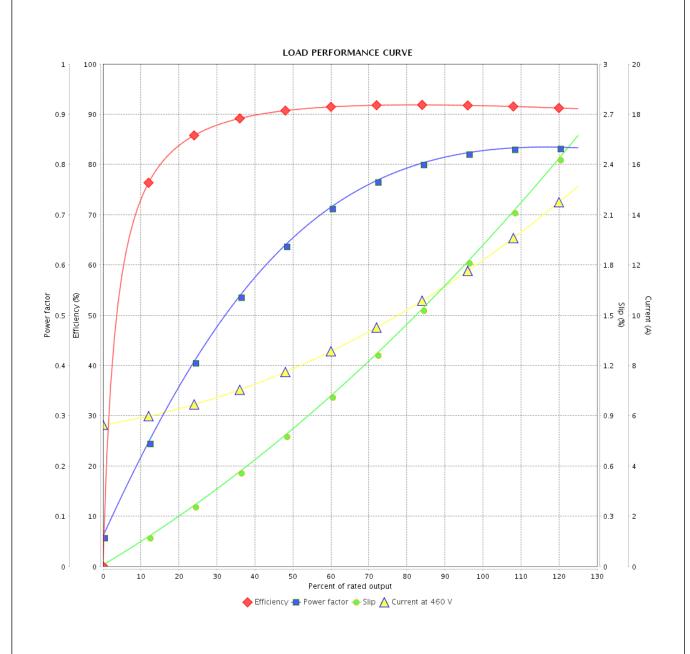
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	: 460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 12.4 A : 6.4 : 29.8 ft.lb : 200 % : 295 % : 1765 rpm	Moment Duty cycl Insulatior Service f Tempera Design	n class actor	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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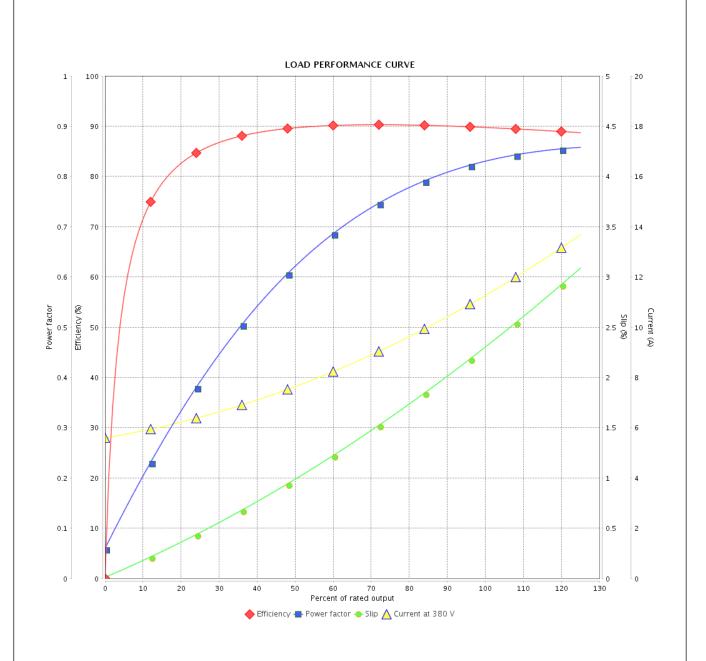
Product line : NEMA Premium Efficiency Three- Product code :

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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 ir Duty cycle Insulation cla Service facto Temperature Design	ass or	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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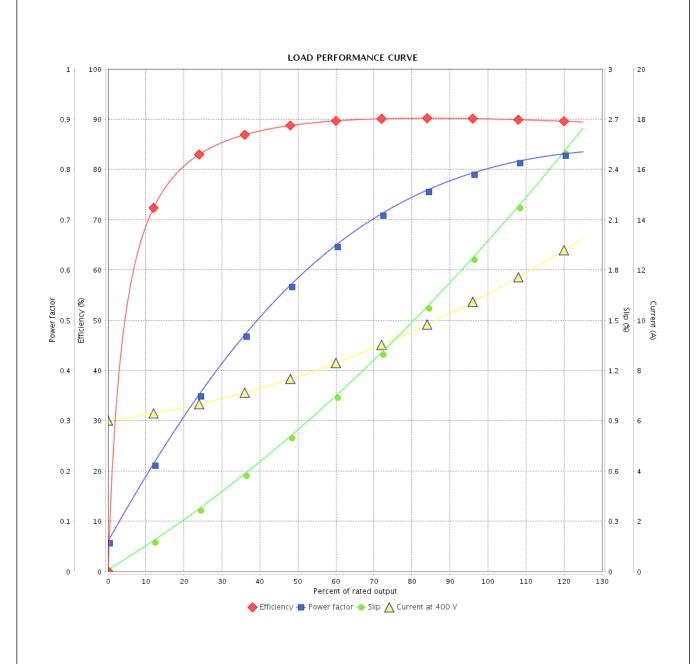
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Product line : NEMA Premium Efficiency Three- Product code : 11431640

Phase

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Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC	: 11.0 A : 7.1	Moment of inert	ia (J)	: 1.51 sq.ft.lb	
Rated torque	: 26.8 ft.lb	Duty cycle Insulation class		: Cont.(S1) : F	
Locked rotor torque	: 240 %	Service factor		: 1.15	
Breakdown torque	: 340 %	Temperature ris	е	: 80 K	
Rated speed	: 1470 rpm	Design		: B	
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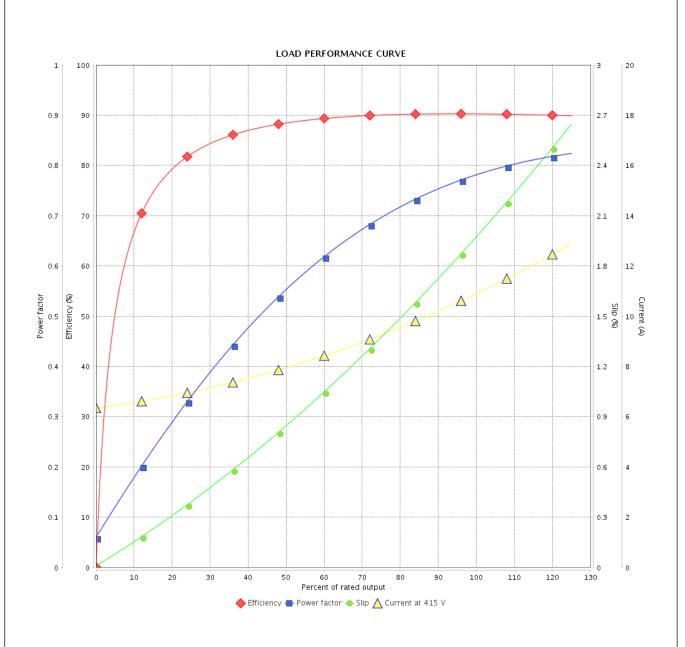
Product line : NEMA Premium Efficiency Three- Pro

Phase

Product code: 11431640

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Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed			: 1.51 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B		
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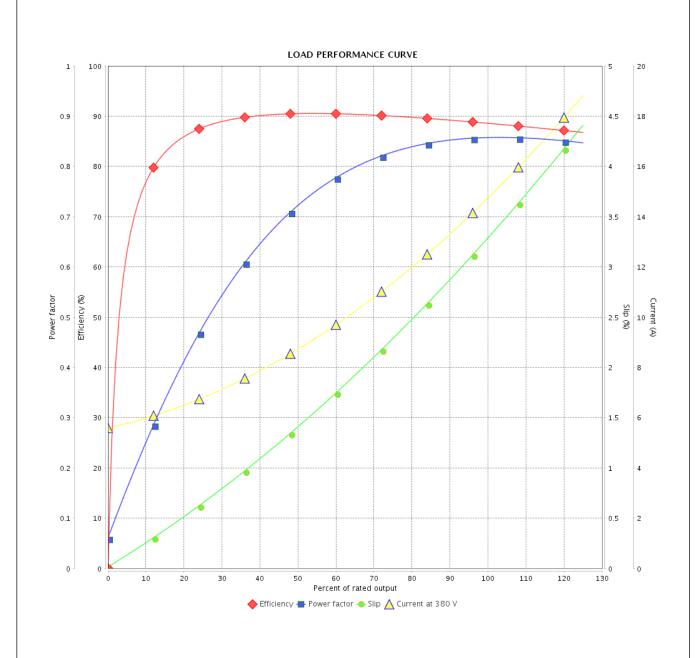
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431640

Phase

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Performance	: 380 V 50 Hz 4P IE1				
Rated current : 15.0 A Moment of inert LRC : 5.1 Duty cycle Rated torque : 36.2 ft.lb Insulation class Service factor Breakdown torque : 220 % Temperature ris Rated speed : 1450 rpm Design		class	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B		
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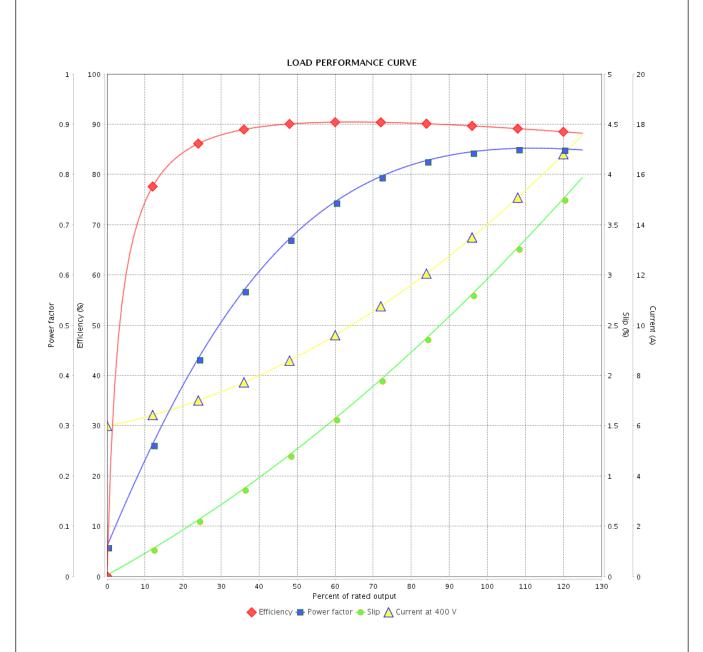
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Performance : 400 V 50 Hz 4P IE2 : 14.2 A Rated current Moment of inertia (J) : 1.51 sq.ft.lb **LRC** : 5.6 Duty cycle : Cont.(S1) : 36.1 ft.lb Insulation class Rated torque : F Locked rotor torque : 180 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1455 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage

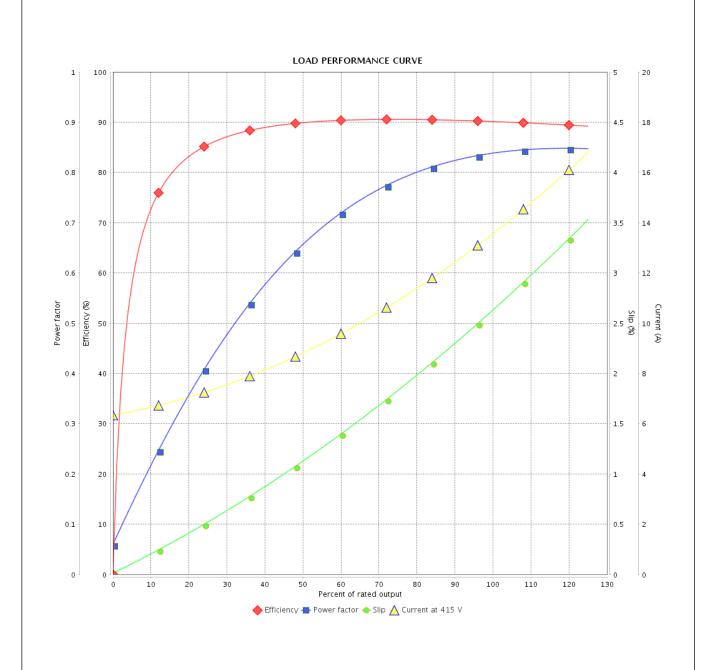


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Product line : NEMA Premium Efficiency Three- Product code : 11431640

Phase

Catalog #: 01018ST3QIE215T-W22



Performance		: 415 V 50 Hz 4P IE2				
Rated current		: 13.8 A	Moment o	f 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 fa	ctor	: 1.15	
Breakdown torque		: 270 %	Temperati	ıre rise	: 80 K	
Rated speed		: 1460 rpm	Design		: B	
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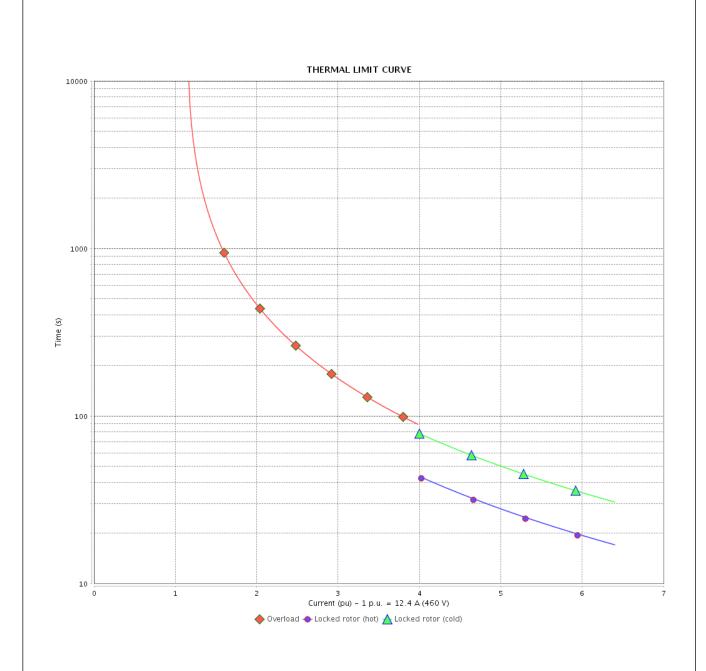


Customer	:					
Product line		NEMA Premium Efficiend hase		Product code :	11431640 01018ST3QIE	E215T-W22
						EZ 131-WZZ
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 12 : 6. : 29 : 20 : 29	60 V 60 Hz 4P 2.4 A 4 9.8 ft.lb 00 % 95 % 765 rpm	Moment o Duty 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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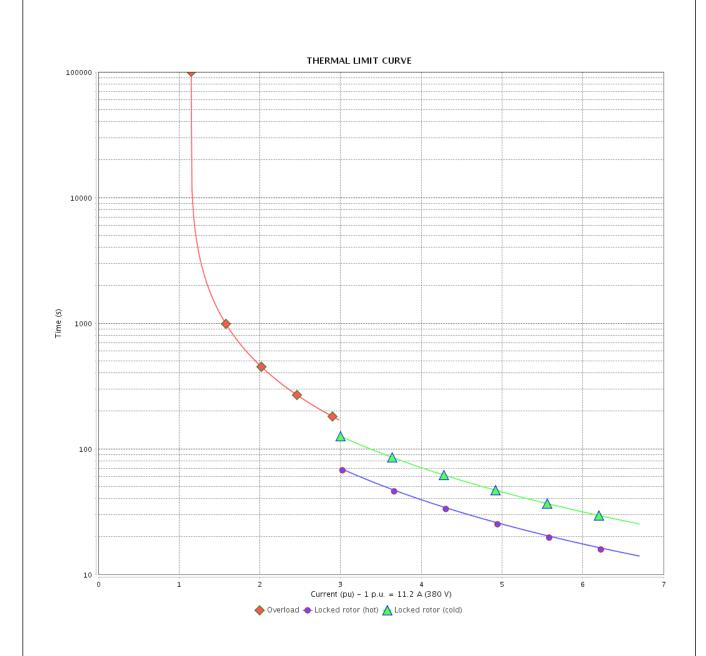


Customer	:				
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Product line	: NEMA Premium Efficiency	Three- P	roduct code :	11431640	
	Phase	C	atalog # :	01018ST3QIE	215T-W22
Performance	: 380 V 50 Hz 4P IE3				
Rated current	: 11.2 A	Moment of	inertia (J)	: 1.51 sq.ft.lb	
LRC	: 6.7	Duty cycle		: Cont.(S1)	
Rated torque Locked rotor torque	: 26.9 ft.lb : 200 %	Insulation of Service fac		: F : 1.15	
Breakdown torque	: 300 %	Temperatur		: 80 K	
Rated speed	: 1465 rpm	Design		: B	
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Cooling constant	Changes Comment		Performed	Checked	Data
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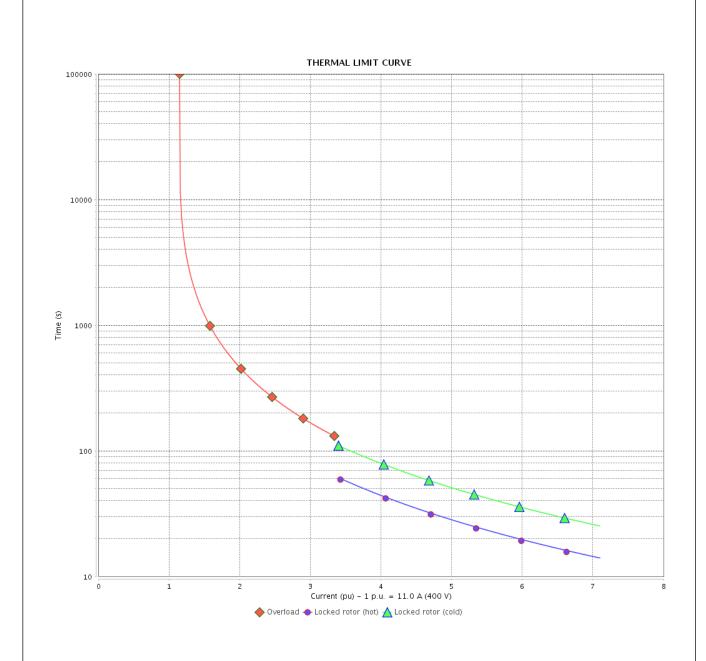


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Product line		NEMA Premium Efficiency hase		Product code :	11431640 01018ST3QIE	215T-W22
Dorformanaa		20 V 50 Hz 4D IE2				
Performance Rated current LRC		00 V 50 Hz 4P IE3 I.0 A 1	Moment of Duty cycle	f inertia (J)	: 1.51 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torqu Breakdown torquo Rated speed	: 26 ue : 24 e : 34	5.8 ft.lb 40 % 40 % 470 rpm	Insulation Service fa Temperatu Design	class ctor	: F : 1.15 : 80 K : B	
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Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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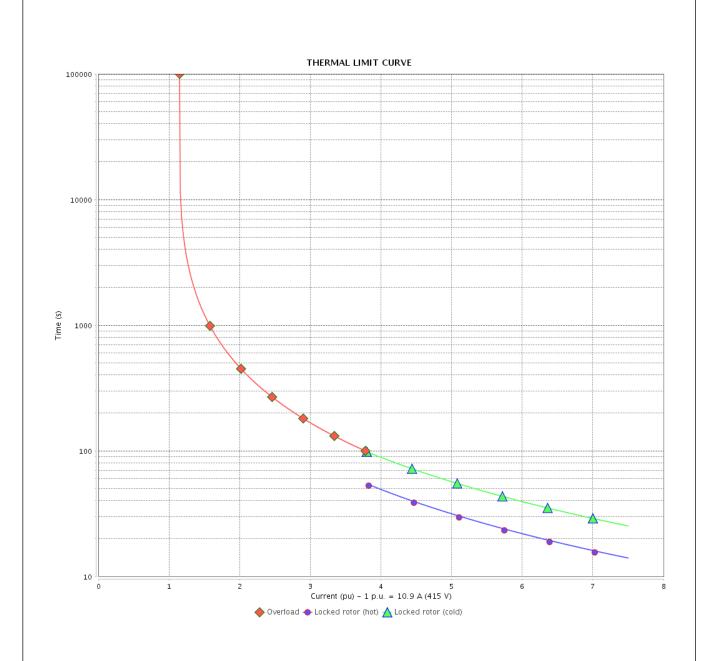


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11431640 01018ST3QIE	:215T W/22
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Derfermen		445 \ / 50 = 40 50				
Performance Rated current		415 V 50 Hz 4P IE3 10.9 A	Moment o	of inertia (J)	: 1.51 sq.ft.lb	
LRC	:	7.5	Duty cycle	Э	: Cont.(S1)	
Rated torque Locked rotor torqu		26.8 ft.lb 260 %	Insulation Service fa		: F : 1.15	
Breakdown torque	e :	360 %	Temperat		: 80 K	
Rated speed	:	1470 rpm	Design		: B	
Heating constant Cooling constant						
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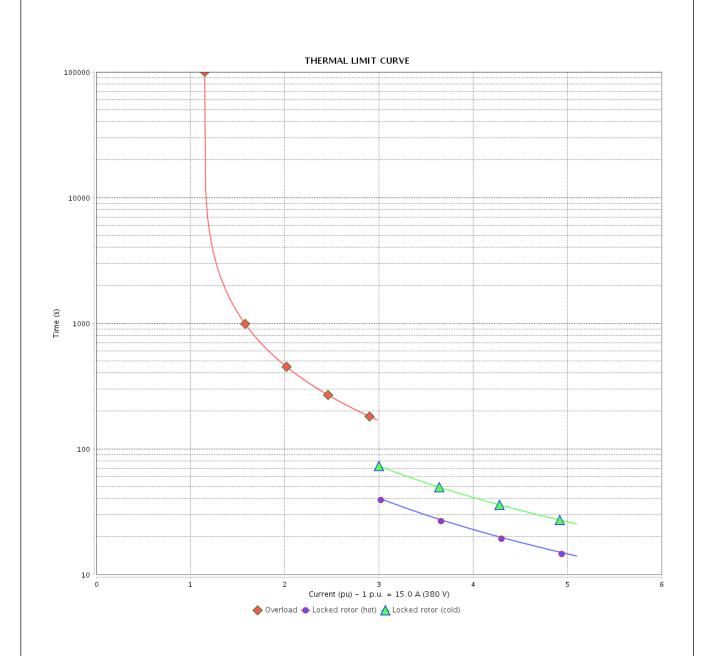


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11431640 01018ST3QIE	:215T-W22
- ·		000 1/ 50 11 40 154				
Performance Rated current		: 380 V 50 Hz 4P IE1 : 15.0 A	Moment o	of inertia (J)	: 1.51 sq.ft.lb	
LRC		: 5.1	Duty cycle	е	: Cont.(S1)	
Rated torque Locked rotor tord		: 36.2 ft.lb : 150 %	Insulation Service fa		: F : 1.15	
Breakdown torqu	ue :	: 220 %	Temperat		: 80 K	
Rated speed		: 1450 rpm	Design		: B	
Heating constant						
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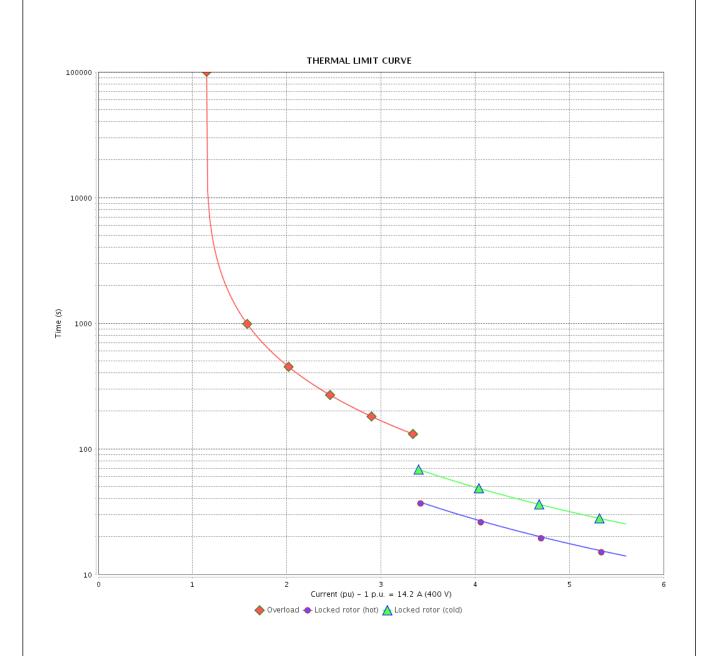


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11431640 01018ST3QIE	E215T-W22
Performance		: 400 V 50 Hz 4P IE2				
Rated current LRC		: 14.2 A : 5.6	Moment of Duty cycle	of inertia (J)	: 1.51 sq.ft.lb : Cont.(S1)	
Rated torque		: 36.1 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 180 % : 250 %	Service fa Temperat		: 1.15 : 80 K	
Rated speed		: 1455 rpm	Design	GIO 1100	: B	
Heating constan						
Cooling constant	t	01 0				
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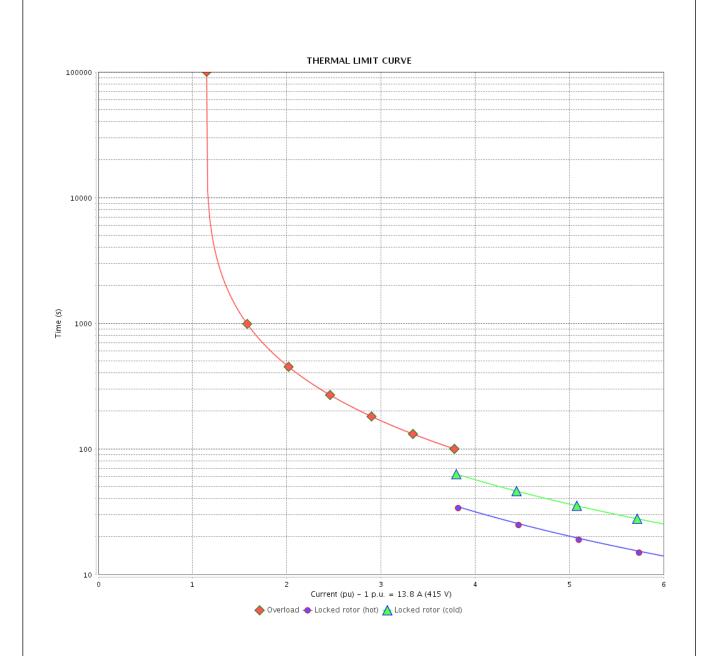


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code :	11431640 01018ST3QIE	E215T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 13 : 6. : 36 : 19 : 27	15 V 50 Hz 4P IE2 3.8 A 0 3.0 ft.lb 90 % 70 % 460 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



Customer :

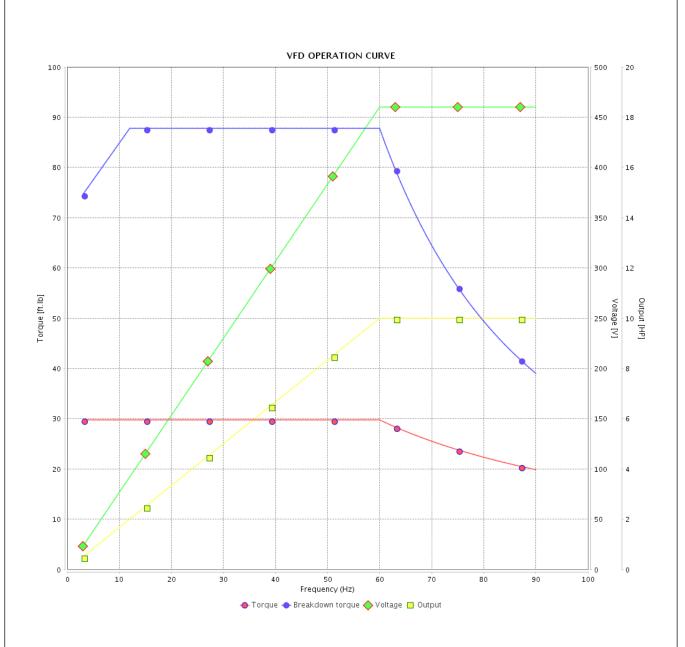
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Product line : NEMA Premium Efficiency Three- P

Phase

Product code: 11431640

Catalog #: 01018ST3QIE215T-W22



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

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Three Phase Induction Motor - Squirrel Cage



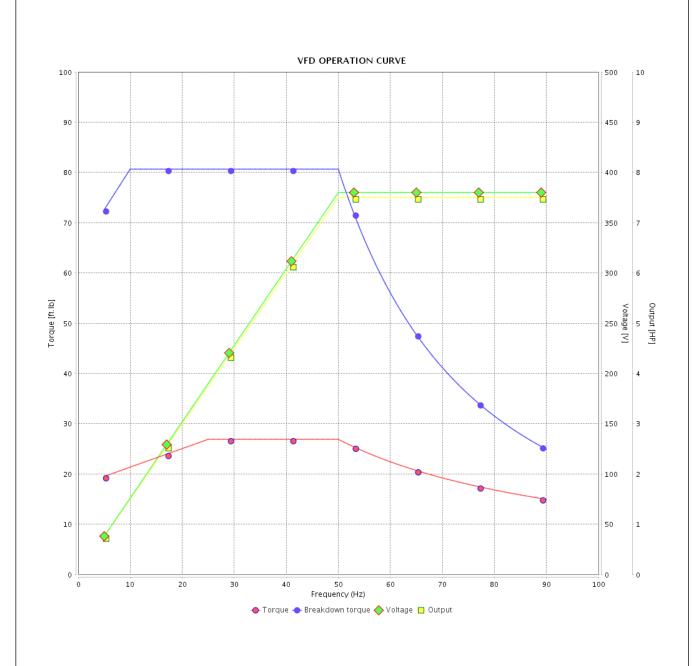
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431640

Phase

Catalog #: 01018ST3QIE215T-W22

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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 inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.51 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



Customer :

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Product line : NEMA Premium Efficiency Three- Produ

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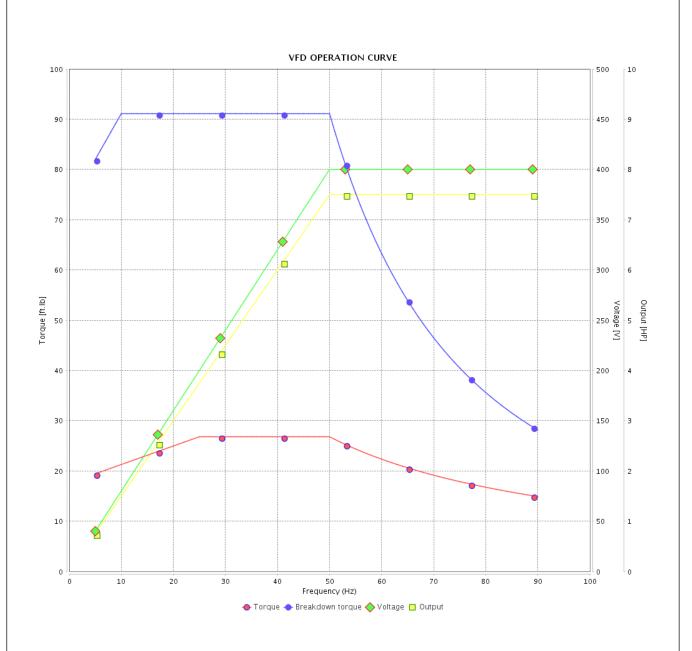
Product code: 11431640

Catalog #: 01018ST3QIE215T-W22

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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

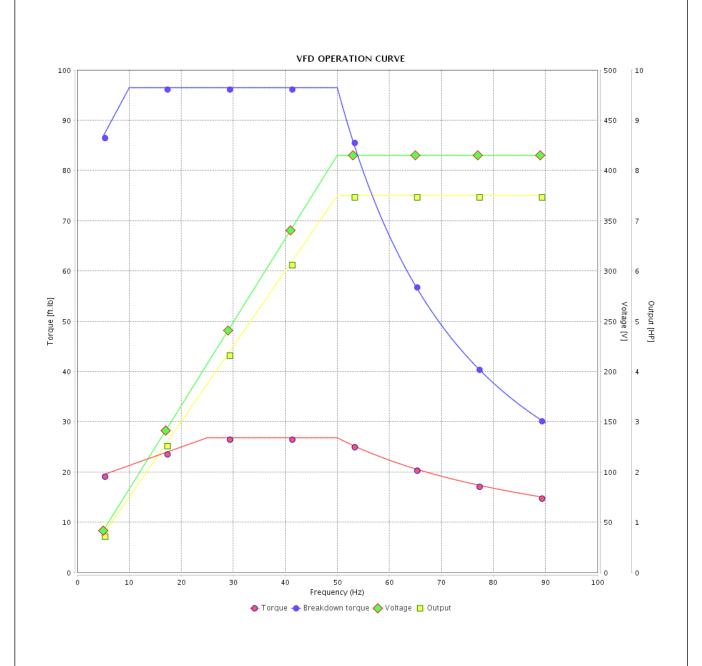


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431640

Phase

Catalog #: 01018ST3QIE215T-W22



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	: 1	: 10.9 A Mon		f inertia (J)	: 1.51 sq.ft.lb	
LRC	: 7	.5			: Cont.(S1)	
Rated torque	: 2	6.8 ft.lb	6.8 ft.lb Insulation class		: F	
Locked rotor torqu	ie : 2	60 %	Service factor		: 1.15	
Breakdown torque	: 3	Temperature rise		: 80 K		
Rated speed	: 1	470 rpm	Design		: B	
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Product line : NEMA Premium Efficiency Three-

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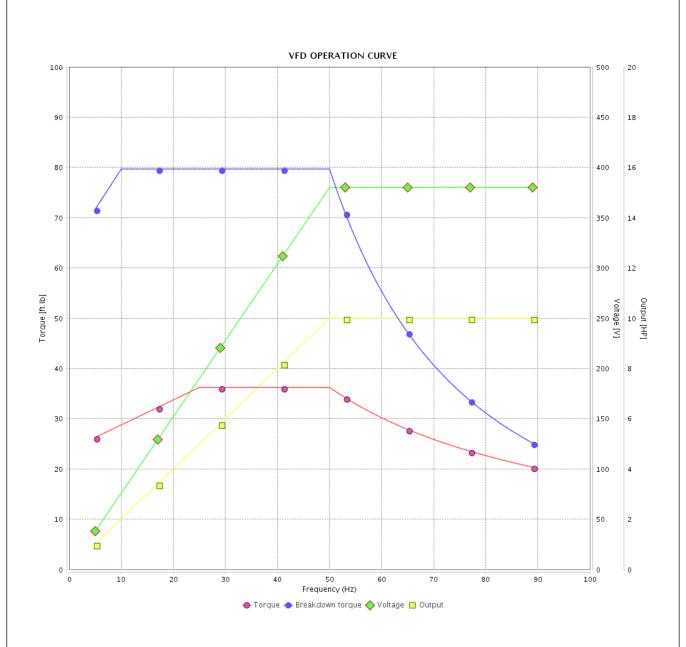
Product code: 11431640

Catalog #: 01018ST3QIE215T-W22

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Revision



Performance : 380 V 50 Hz 4P IE1 : 15.0 A Rated current Moment of inertia (J) : 1.51 sq.ft.lb **LRC** : 5.1 Duty cycle : Cont.(S1) : 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. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage

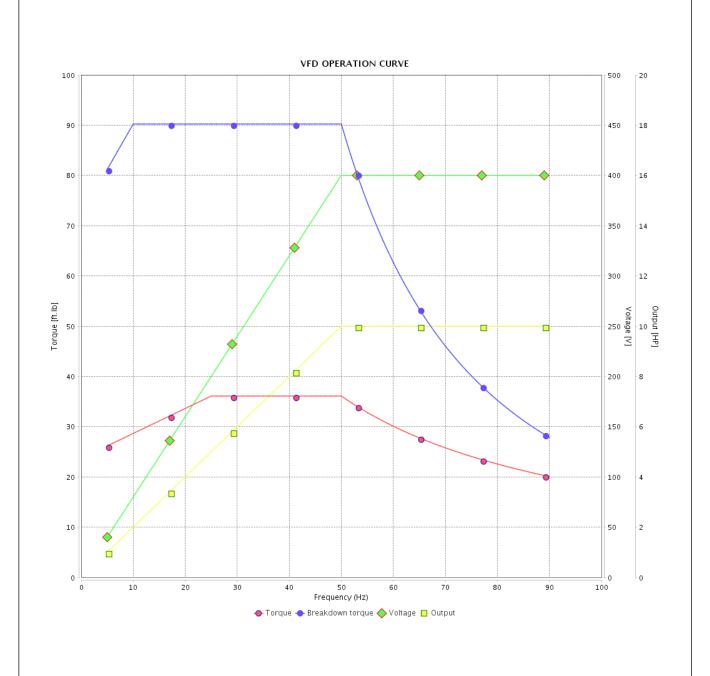


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431640

Phase

Catalog #: 01018ST3QIE215T-W22



Performance	: •	400 V 50 Hz 4P IE2				
Rated current	:	: 14.2 A		Moment of inertia (J)		
LRC	: :	5.6	Duty cycle	•	: Cont.(S1)	
Rated torque	: ;	36.1 ft.lb	Insulation	class	: F	
Locked rotor torq	ue :	180 %	Service fa	ctor	: 1.15	
Breakdown torqu	e ::	250 %	Temperature rise		: 80 K	
Rated speed	:	1455 rpm	Design		: B	
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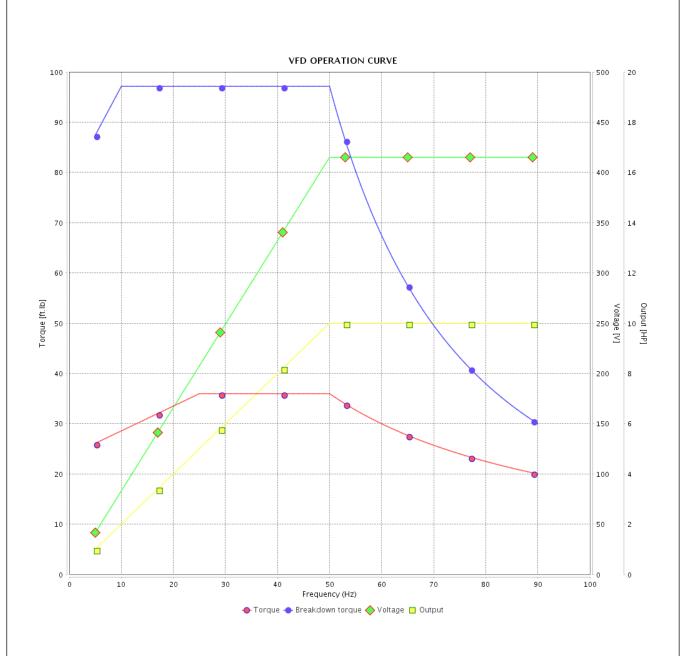
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 01018ST3QIE215T-W22

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Performance	: 4	15 V 50 Hz 4P IE2				
Rated current	: 13.8 A		Moment of	Moment of inertia (J)		
LRC	: 6	.0	Duty cycle	e ` ´	: 1.51 sq.ft.lb : Cont.(S1)	
Rated torque	: 3			Insulation class		
Locked rotor torq	ue : 1	90 %	90 % Service factor		: 1.15	
Breakdown torqu	e : 2	70 %	Temperati	ure rise	: 80 K	
Rated speed	: 1	460 rpm	Design		: B	
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