DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11431460

Phase

Catalog #: 00218ST3QIE145T-W22

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

Insulation class : F Mounting : F-1
Duty cycle : Cont.(S1) Rotation¹ : Both (

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 Altitude : 57.0 lb : 0.1561 sq.ft.lb Protection degree : IP55 Moment of inertia (J) Design : B Output [HP] 2 1.5 1.5 2 2 1.5 Poles 4 4 4 Frequency [Hz] 60 50 50 50 50 50 50 Rated voltage [V] 380 400 460 380 400 415 415 Rated current [A] 3.33 3.22 2.76 2.57 2.57 2.56 3.14 L. R. Amperes [A] 22.9 21.1 22.4 21.5 20.0 21.3 22.9 8.3x(Code L) 8.2x(Code L) 8.7x(Code 8.4x(Code | 6.0x(Code H) | 6.6x(Code J) | 7.3x(Code K) LRC [A] M) M) No load current [A] 1.63 1.61 1.80 1.97 1.61 1.80 1.97 Rated speed [RPM] 1750 1460 1465 1465 1435 1440 1450 4.33 4.00 Slip [%] 2.78 2.67 2.33 2.33 3.33 Rated torque [ft.lb] 6.00 5.40 5.38 5.38 7.32 7.29 7.24 Locked rotor torque [%] 270 290 320 350 220 229 250 Breakdown torque [%] 240 320 330 380 409 260 290 Service factor 1.25 1.25 1.25 1.25 1.25 1.25 1.25 80 K Temperature rise 80 K 80 K 80 K 80 K 80 K 80 K 27s (cold) Locked rotor time 23s (cold) 32s (cold) 28s (cold) 23s (cold) 21s (cold) 21s (cold) 13s (hot) 18s (hot) 16s (hot) 15s (hot) 13s (hot) 12s (hot) 12s (hot) Noise level² 51.0 dB(A) 49.0 dB(A) 49.0 dB(A) 49.0 dB(A) 49.0 dB(A) 49.0 dB(A) 49.0 dB(A) 25% 85.2 83.5 80.9 80.3 86.7 83.7 83.8 50% 85.5 84.0 82.0 81.4 85.5 84.0 84.0 Efficiency (%) 75% 86.5 84.2 83.5 83.1 84.0 84.0 84.0

84.5

0.27

0.50

0.64

 100%
 0.79
 0.77
 0.73
 0.71

 Drive end
 Non drive end
 Foundation loads

86.5

0.32

0.57

0.70

84.5

0.31

0.55

0.69

Lubricant amount : 4 g 4 g Lubricant type : Mobil Polyrex EM

100%

25%

50%

75%

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.

82.5

0.39

0.66

0.78

0.83

84.0

0.35

0.62

0.74

0.80

84.0

0.32

0.60

0.72

0.79

84.1

0.25

0.47

0.61

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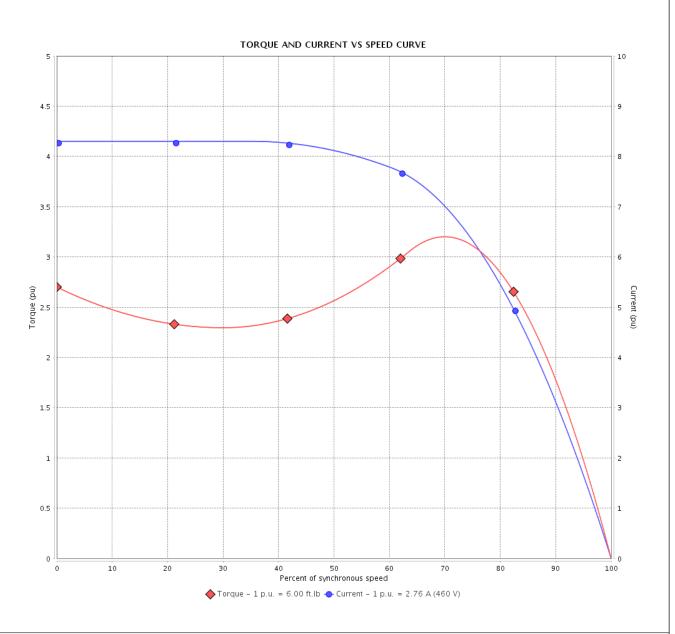


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11431460

Phase

Catalog #: 00218ST3QIE145T-W22



Performance : 460 V 60 Hz 4P Rated current : 2.76 A Moment of inertia (J) : 0.1561 sq.ft.lb **LRC** : 8.3 Duty cycle : Cont.(S1) : F : 6.00 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 270 % : 1.25 : 320 % Breakdown torque Temperature rise : 80 K Rated speed : 1750 rpm Design : B

Locked rotor time : 23s (cold) 13s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11431460 Catalog #: 00218ST3QIE145T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 5.40 ft.lb ◆ Current - 1 p.u. = 2.57 A (380 V) Performance : 380 V 50 Hz 4P IE3 Rated current : 2.57 A Moment of inertia (J) : 0.1561 sq.ft.lb **LRC** : 8.2 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 5.40 ft.lb : 290 % Locked rotor torque Service factor : 1.25 Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 1460 rpm Design : B Locked rotor time : 32s (cold) 18s (hot) Date Rev. Performed Checked **Changes Summary**

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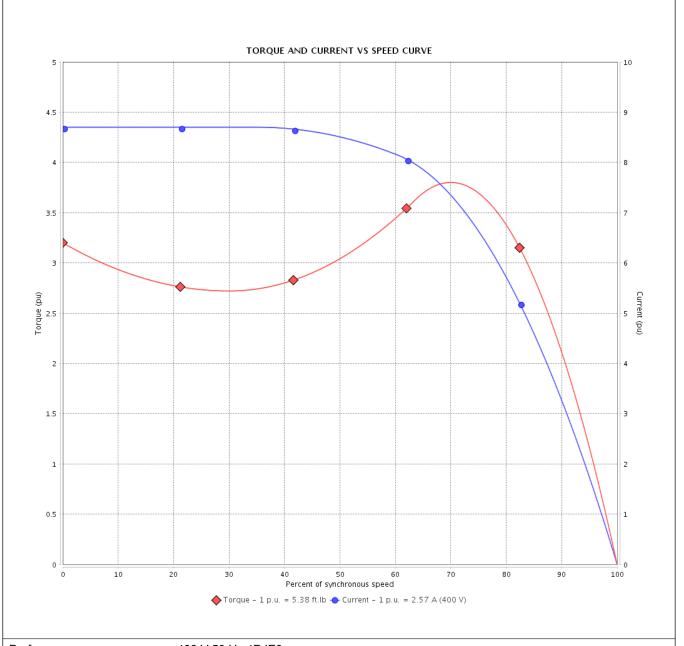
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 11431460

Catalog #: 00218ST3QIE145T-W22



 Performance
 : 400 V 50 Hz 4P IE3

 Rated current
 : 2.57 A
 Moment of inertia (J)
 : 0.1561 sq.ft.lb

 LRC
 : 8.7
 Duty cycle
 : Cont.(S1)

 Rated torque
 : 5.38 ft.lb
 Insulation class
 : F

Locked rotor torque: 320 %Service factor: 1.25Breakdown torque: 380 %Temperature rise: 80 KRated speed: 1465 rpmDesign: B

Locked rotor time : 28s (cold) 16s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11431460 Catalog #: 00218ST3QIE145T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5

3	•			
2.5				
2				
1.5				
1				
0.5				
0 10	20 30	40 50 Percent of synchron que – 1 p.u. = 5.38 ft.lb • Curr		100
rmance	: 415 V 50 H	7 4P IF3		

Rated current	: 2.56 A	Moment of inertia (J)	: 0.1561 sq.ft.lb	
LRC	: 8.4	Duty cycle	: Cont.(S1)	
Rated torque	: 5.38 ft.lb	Insulation class	: F	
Locked rotor torque	: 350 %	Service factor	: 1.25	
Breakdown torque	: 409 %	Temperature rise	: 80 K	
Rated speed	: 1465 rpm	Design	: B	
Locked rotor time	: 27s (cold) 15s (hot)			
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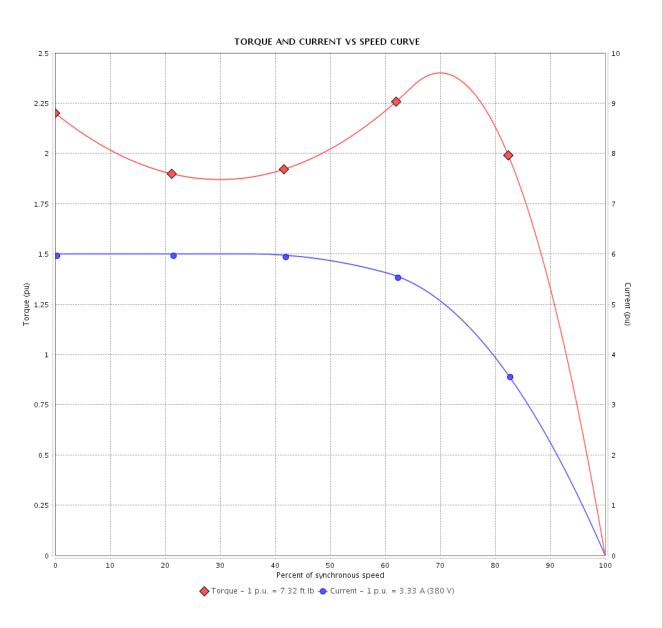


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11431460

Phase

Catalog #: 00218ST3QIE145T-W22



Performance	: 380 V 50 Hz 4P IE1			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.33 A : 6.0 : 7.32 ft.lb : 220 % : 240 % : 1435 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.1561 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Locked rotor time	: 23s (cold) 13s (hot)			

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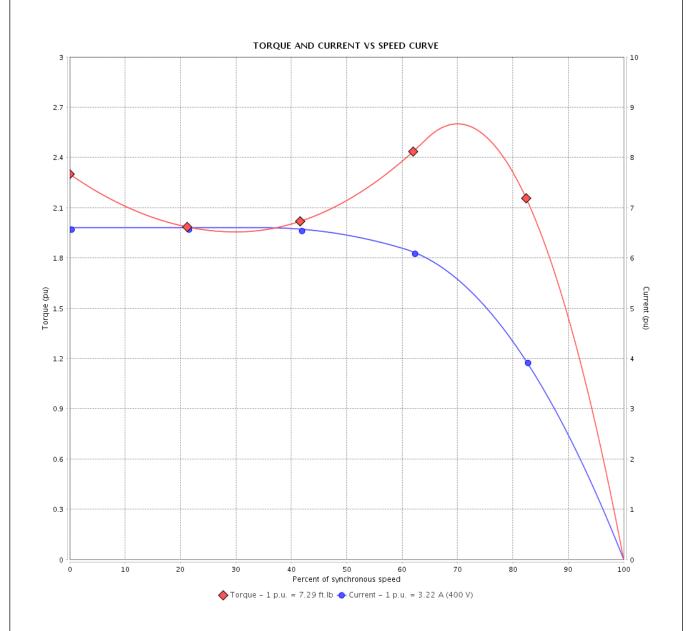
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Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11431460

Catalog # : 00218ST3QIE145T-W22



Performance	: 400 V 50 Hz 4P IE2			
Rated current	: 3.22 A	Moment of inertia (J)	: 0.1561 sq.ft.lb	
LRC	: 6.6	Duty cycle	: Cont.(S1)	
Rated torque	: 7.29 ft.lb	Insulation class	:F	
Locked rotor torque	: 229 %	Service factor	: 1.25	
Breakdown torque	: 260 %	Temperature rise	: 80 K	
Rated speed	: 1440 rpm	Design	: B	
Locked rotor time	: 21s (cold) 12s (hot)			

Locked rotor time : 21s (cold) 12s (hot)

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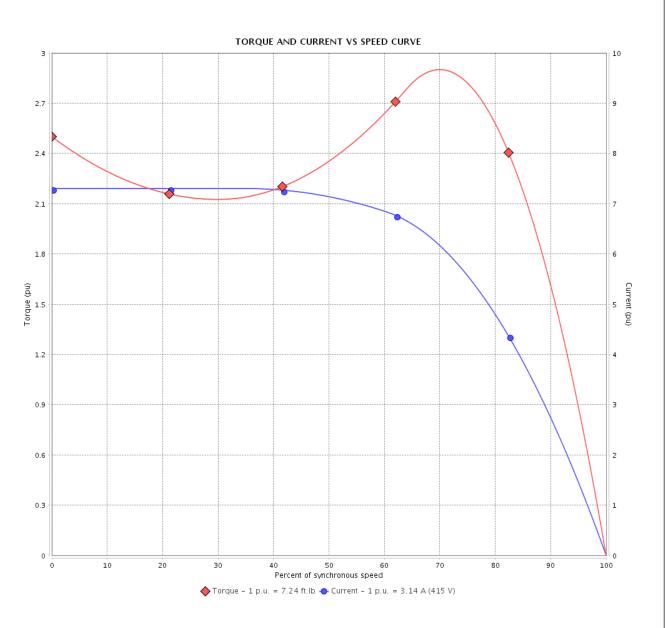


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11431460

Phase

Catalog #: 00218ST3QIE145T-W22



Performance	: 415 V 50 Hz 4P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.14 A : 7.3 : 7.24 ft.lb : 250 % : 290 % : 1450 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.1561 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Locked rotor time	: 21s (cold) 12s (hot)			

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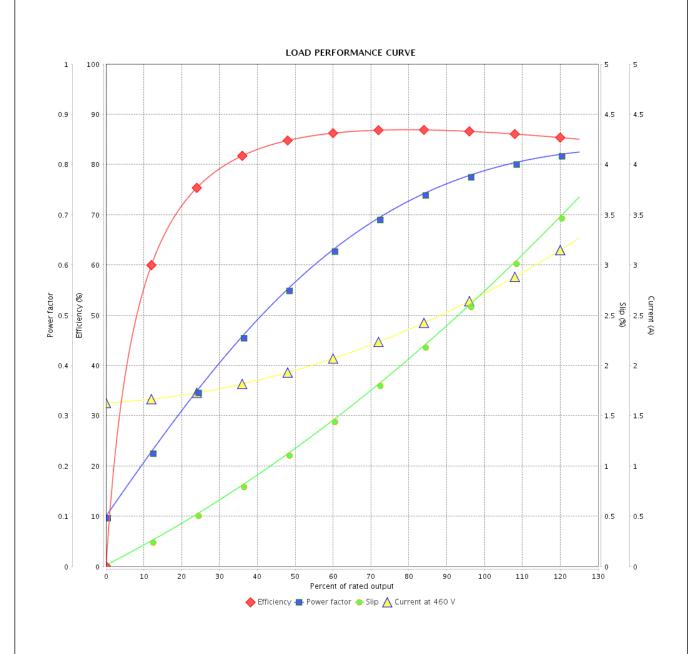
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Performance	: 460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.76 A : 8.3 : 6.00 ft.lb : 270 % : 320 % : 1750 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1561 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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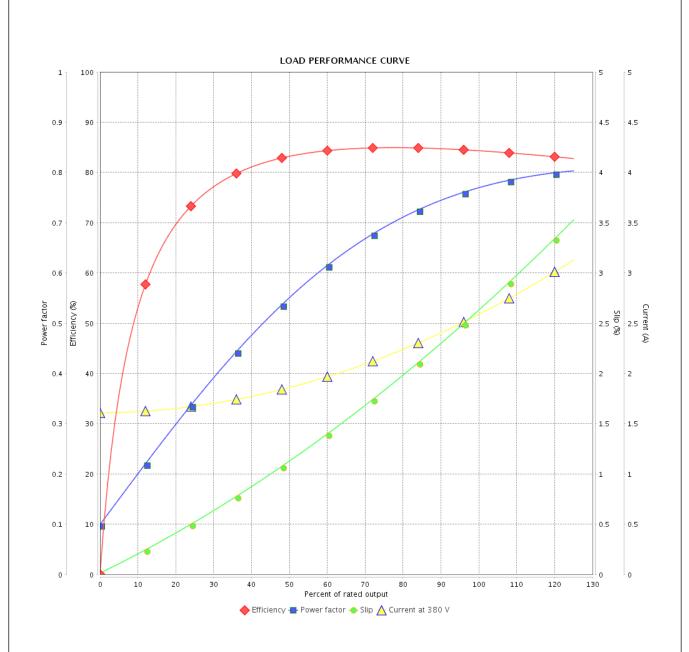
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance	:	380 V 50 Hz 4P IE3	3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : : : : : : :	2.57 A 8.2 5.40 ft.lb 290 % 330 % 1460 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.1561 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
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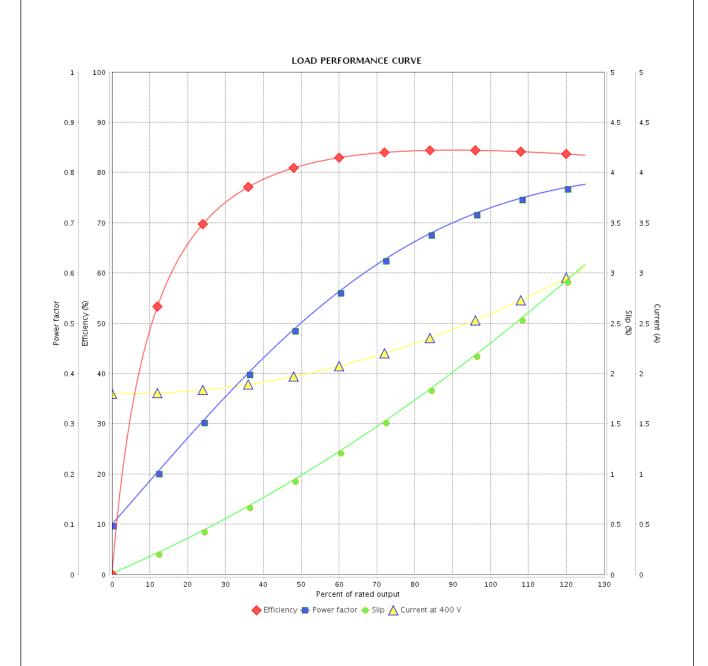
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431460

Phase

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Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.57 A : 8.7 : 5.38 ft.lb : 320 % : 380 % : 1465 rpm	Moment of ir Duty cycle Insulation cla Service facto Temperature Design	ass or	: 0.1561 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
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Phase

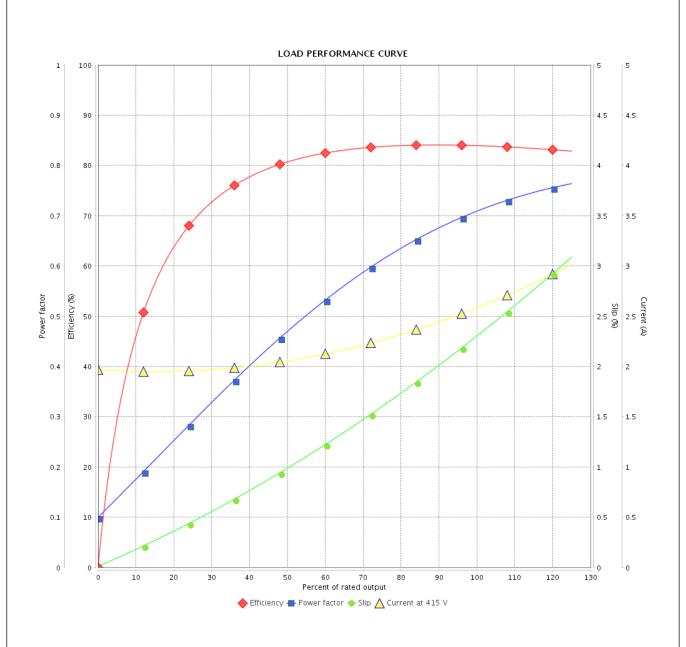
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Performance		: 415 V 50 Hz 4P	PIE3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 2.56 A : 8.4 : 5.38 ft.lb : 350 % : 409 % : 1465 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 0.1561 sq.ft.l : Cont.(S1) : F : 1.25 : 80 K : B	b
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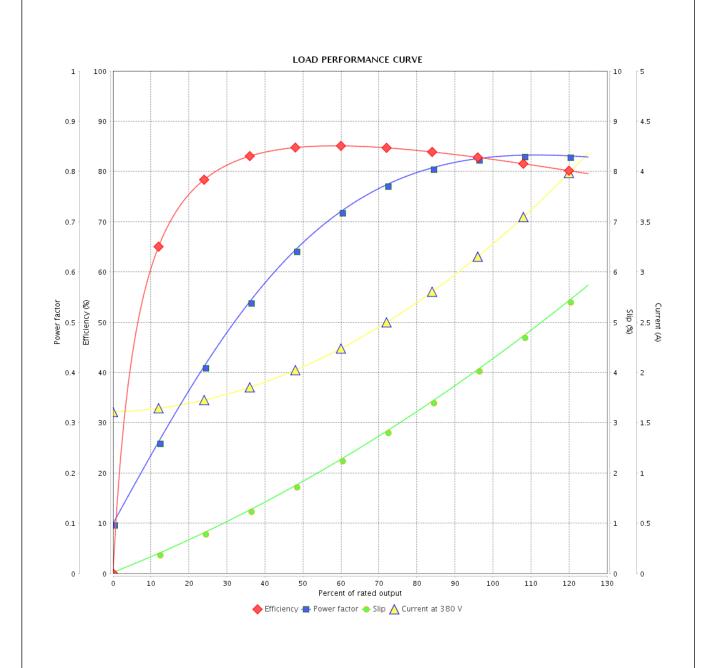
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431460

Phase

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Performance	: 380 V 50 Hz 4P IE1				
Rated current	: 3.33 A	Moment of inertia (J)	: 0.1561 sq.ft.	.lb
LRC	: 6.0	Duty cycle	•	: Cont.(S1)	
Rated torque	: 7.32 ft.lb	Insulation class		: F	
Locked rotor torque	: 220 %	Service factor		: 1.25	
Breakdown torque	: 240 %	Temperature rise		: 80 K	
Rated speed	: 1435 rpm	Design		: B	
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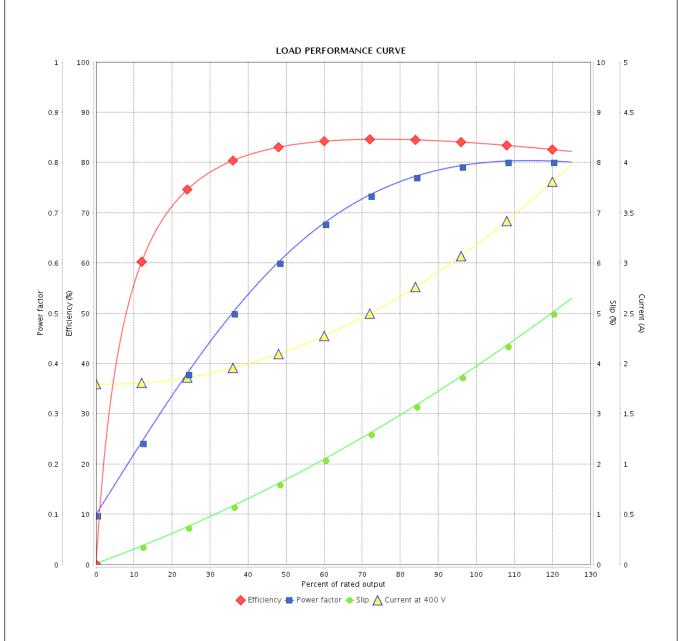
Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 11431460

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Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.22 A : 6.6 : 7.29 ft.lb : 229 % : 260 % : 1440 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 0.1561 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
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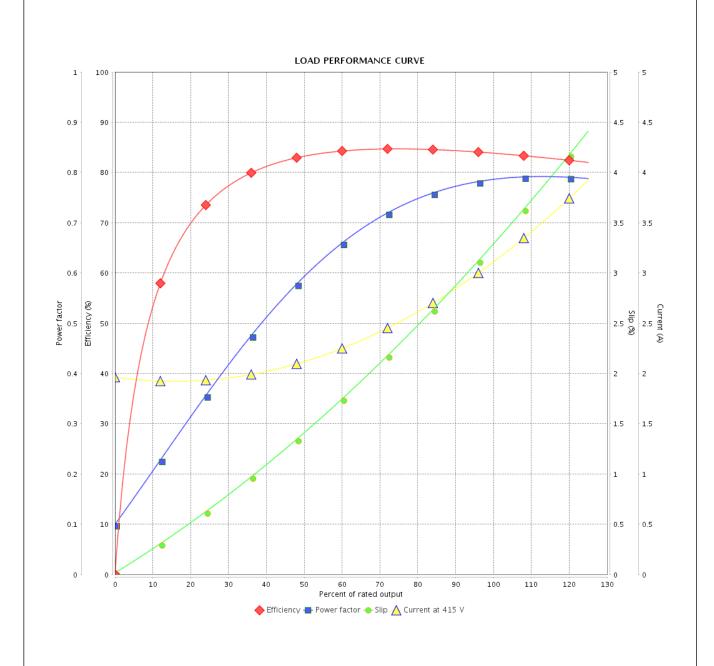


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431460

Phase

Catalog #: 00218ST3QIE145T-W22



Performance	:	415 V 50 Hz 4P IE2				
Rated current	:	3.14 A	Moment o	f inertia (J)	: 0.1561 sq.ft.	.lb
LRC	:	7.3	Duty cycle)	: Cont.(S1)	
Rated torque	:	7.24 ft.lb	Insulation	class	: F	
Locked rotor torque	e ::	250 %	Service fa	ctor	: 1.25	
Breakdown torque	::	290 %	Temperati	ıre rise	: 80 K	
Rated speed	:	1450 rpm	Design		: B	
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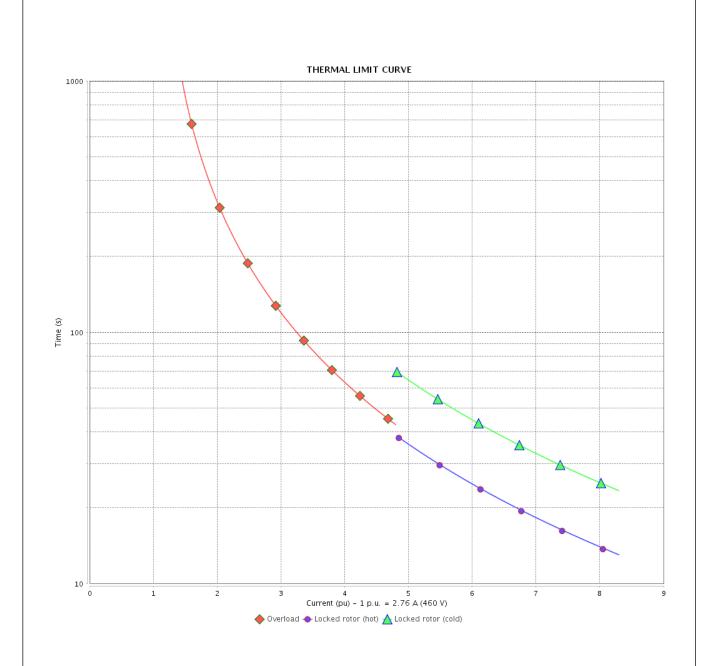


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11431460 00218ST3QI	E145T-W22
Performance		: 460 V 60 Hz 4P				
Rated current LRC		: 2.76 A : 8.3	Duty cycle		: 0.1561 sq.ft.l : Cont.(S1)	b
Rated torque Locked rotor tord		: 6.00 ft.lb : 270 %	Insulation Service fa		: F : 1.25	
Breakdown torqu		: 320 %	Temperat		: 80 K	
Rated speed		: 1750 rpm	Design		: B	
Heating constan						
Cooling constant	Ţ	Changes Summan		Performed	Checked	Date
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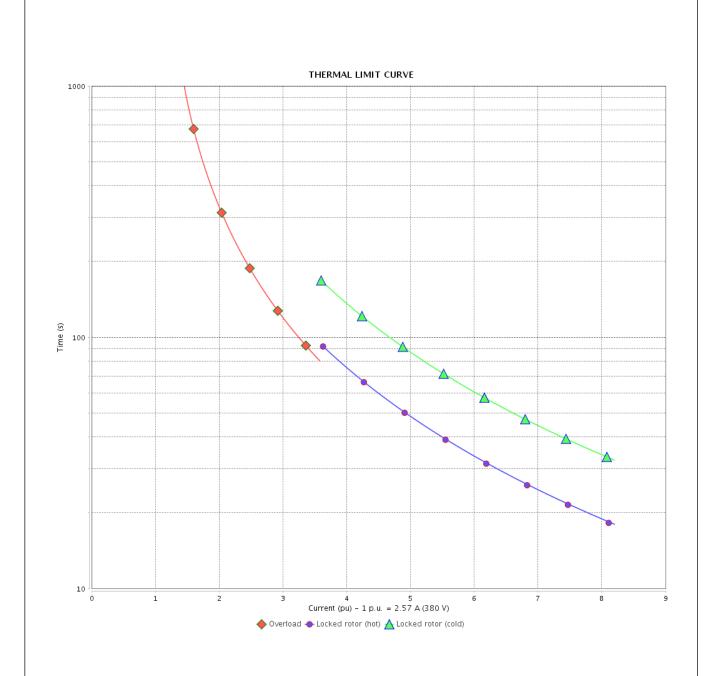


Customer	:				
Product line	: NEMA Premium Efficiency T		Product code :	11431460	
			Catalog # :	00218ST3Q	E1451-W22
Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC	: 2.57 A : 8.2	Moment of Duty cycle		: 0.1561 sq.ft. : Cont.(S1)	lb
Rated torque	: 5.40 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque	: 290 % : 330 %	Service fac Temperatu		: 1.25 : 80 K	
Rated speed	: 1460 rpm	Design		: B	
Heating constant					
Cooling constant					
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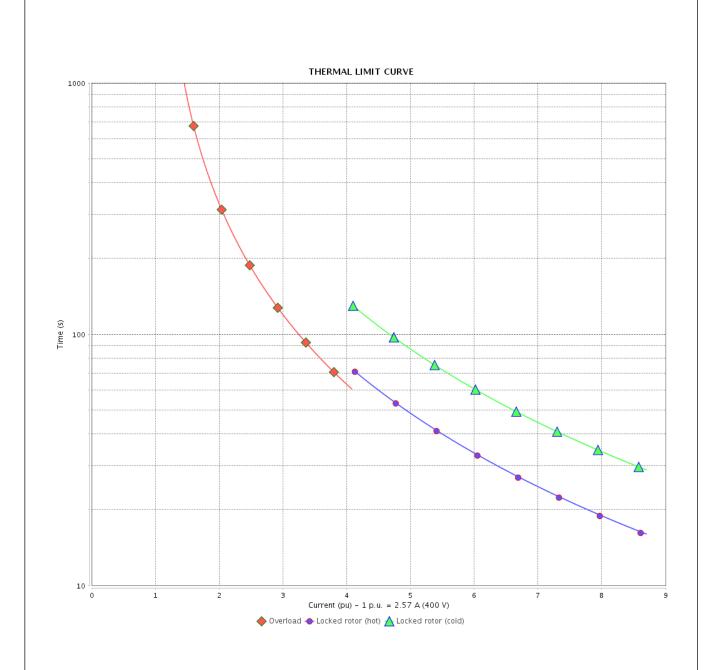


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	11431460	
	P	hase		Catalog # :	00218ST3QI	E145T-W22
Performance		00 V 50 Hz 4P IE3	M	f : (1)	. 0 4504 61	L
Rated current LRC	: 8.		Duty cycle	f inertia (J)	: 0.1561 sq.ft.l : Cont.(S1)	υ
Rated torque Locked rotor torqu		38 ft.lb 20 %	Insulation Service fa	class	: F : 1.25	
Breakdown torque	: 38	30 %	Temperati		: 80 K	
Rated speed	: 14	465 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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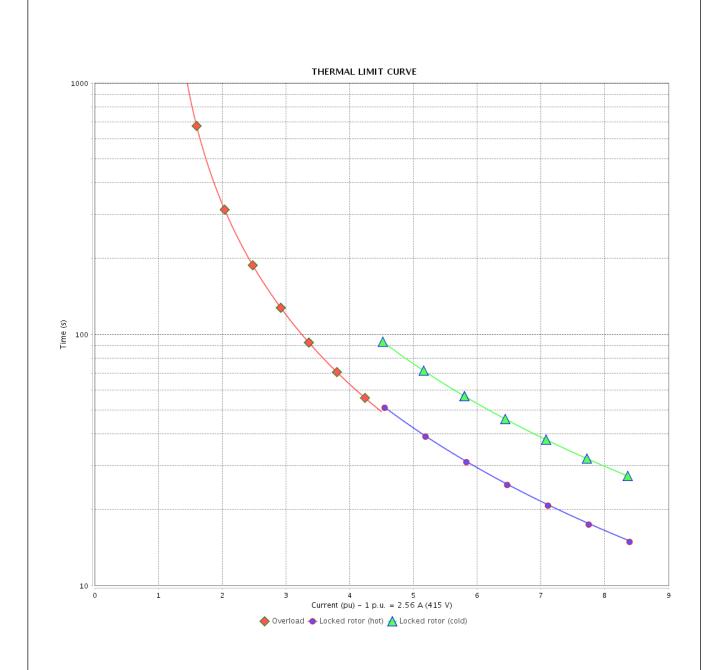


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11431460 00218ST3QII	E145T-W22
				<u> </u>		
Performance		415 V 50 Hz 4P IE3				
Rated current LRC	:	2.56 A 8.4	Duty cycle		: 0.1561 sq.ft.l : Cont.(S1)	b
Rated torque Locked rotor torqu		5.38 ft.lb 350 %	Insulation Service fa		: F : 1.25	
Breakdown torque	e :	409 %	Temperat		: 80 K	
Rated speed		1465 rpm	Design		: B	
Heating constant Cooling constant						
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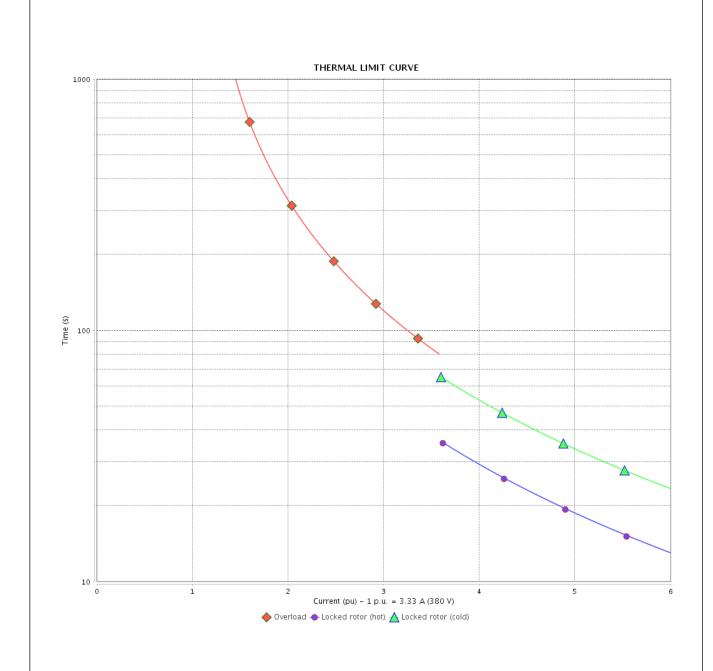


Customer	:				
Product line	: NEMA Premium Efficien Phase		Product code : Catalog # :	11431460 00218ST3Q	E145T-W22
Performance	: 380 V 50 Hz 4P IE1				
Rated current	: 3.33 A	Moment o	of inertia (J)	: 0.1561 sq.ft.	b
LRC Rated torque	: 6.0 : 7.32 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torque Breakdown torque	: 220 % : 240 %	Service fa Temperat		: 1.25 : 80 K	
Rated speed	: 1435 rpm	Design		: B	
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



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Three Phase Induction Motor - Squirrel Cage

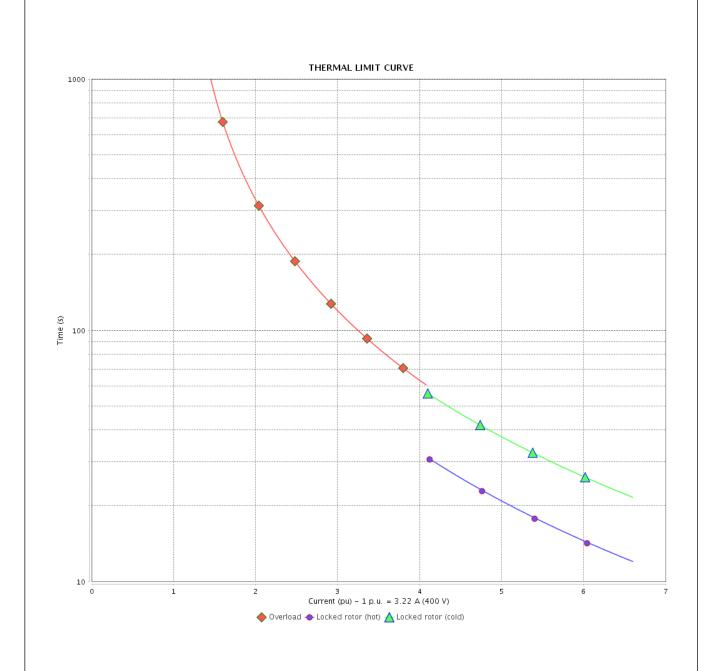


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11431460 00218ST3QI	E145T-W22
				· · · · · · · · · · · · · · · · · · ·		
Performance		: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque	:	: 3.22 A : 6.6 : 7.29 ft.lb	Duty cycle Insulation	class	: 0.1561 sq.ft.l : Cont.(S1) : F	b
Locked rotor tord Breakdown torqu	ue :	: 229 % : 260 %	Service fa Temperat		: 1.25 : 80 K	
Rated speed		: 1440 rpm	Design		: B 	
Heating constant						
Cooling constant		Changes Summary		Performed	Checked	Date
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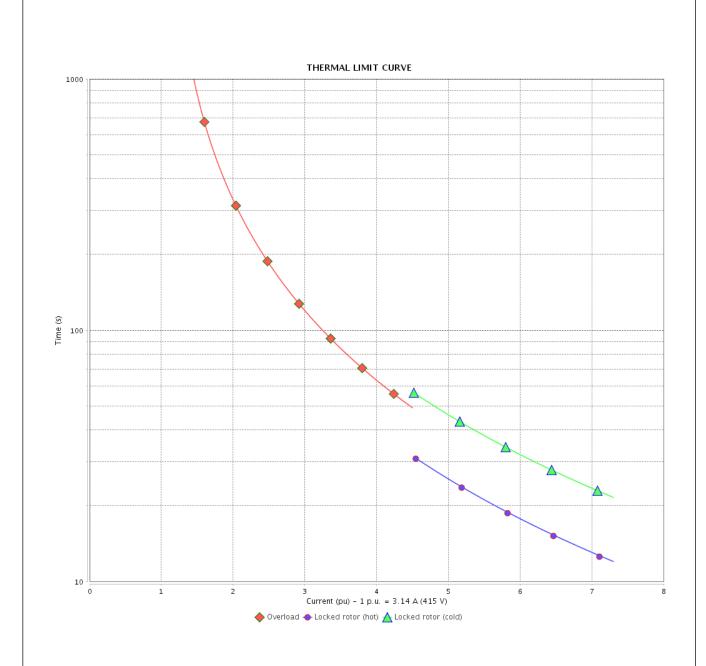


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11431460 00218ST3QI	E145T-W22
				<u></u>		
Performance		: 415 V 50 Hz 4P IE2				
Rated current LRC		: 3.14 A : 7.3	Duty cycle		: 0.1561 sq.ft.l : Cont.(S1)	b
Rated torque Locked rotor tord		: 7.24 ft.lb : 250 %	Insulation Service fa		: F : 1.25	
Breakdown torqu	ue	: 290 %	Temperat		: 80 K	
Rated speed		: 1450 rpm	Design		: B	
Heating constant						
Cooling constant		Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



Customer



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Customer :

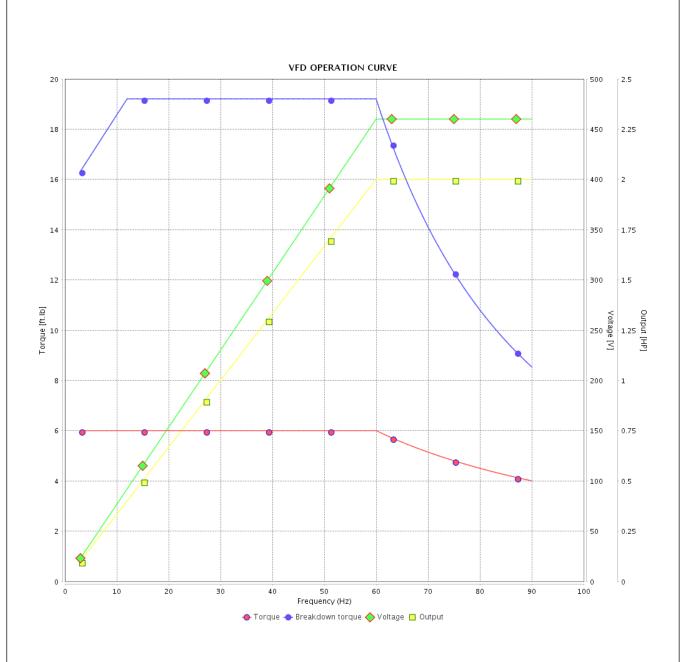
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #:

11431460

00218ST3QIE145T-W22



Performance	: 4	60 V 60 Hz 4P				
Rated current	Rated current : 2.76 A		Moment of	Moment of inertia (J)		.lb
LRC	: 8	3	Duty cycle	` '	: Cont.(S1)	
Rated torque	: 6	00 ft.lb	Insulation		: F	
Locked rotor tord	que : 2	70 %	Service fa	actor	: 1.25	
Breakdown torqu		20 %	Temperat	Temperature rise		
Rated speed	: 1	750 rpm	Design		: B	
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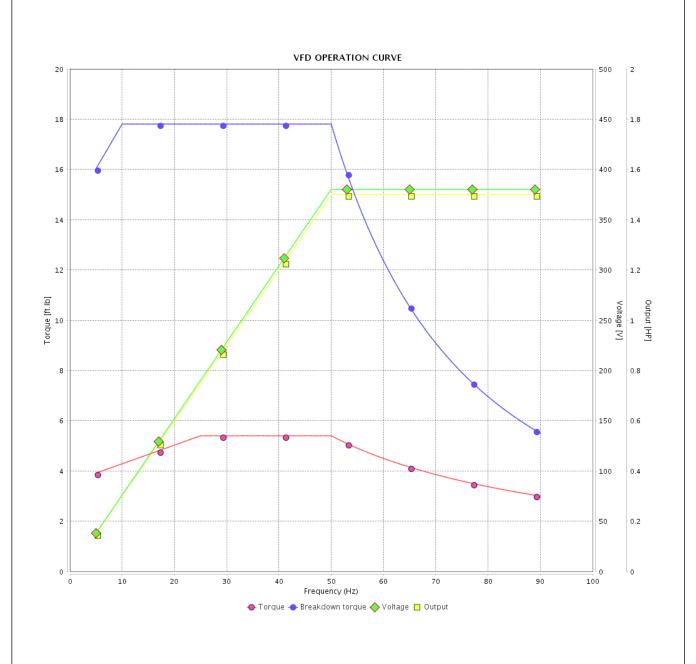


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431460

Phase

Catalog #: 00218ST3QIE145T-W22



Performance	: 3	80 V 50 Hz 4P IE3				
Rated current	Rated current : 2.57 A		Moment o	f inertia (J)	: 0.1561 sq.ft.lb	
LRC	: 8	.2	Duty cycle)	: Cont.(S1)	
Rated torque	: 5	.40 ft.lb	Insulation	class	: F	
Locked rotor torque	e :2	90 %	Service fa	ctor	: 1.25	
Breakdown torque	: 3	30 %	Temperature rise		: 80 K	
Rated speed	: 1	460 rpm	Design		: B	
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Product line : NEMA Premium Efficiency Three-

Phase

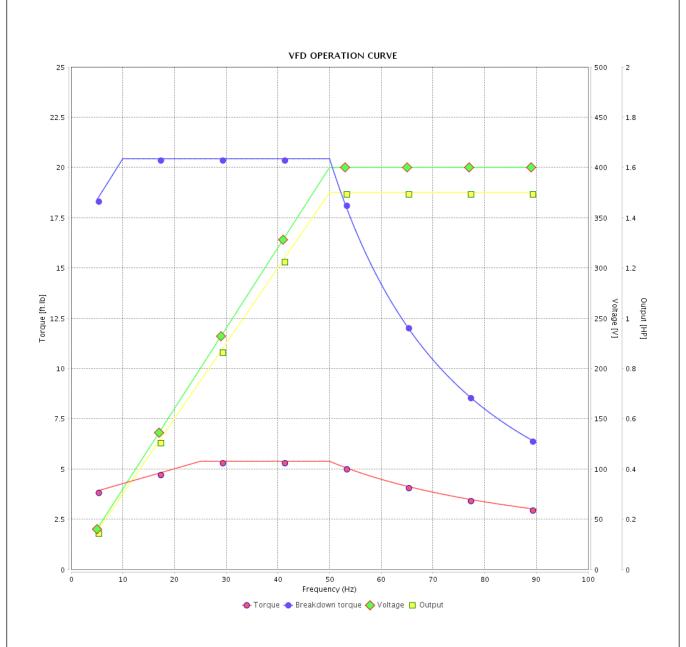
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Revision



Performance : 400 V 50 Hz 4P IE3 Rated current : 2.57 A Moment of inertia (J) : 0.1561 sq.ft.lb **LRC** : 8.7 Duty cycle : Cont.(S1) Insulation class Rated torque : 5.38 ft.lb : F Locked rotor torque : 320 % Service factor : 1.25 Breakdown torque : 380 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage

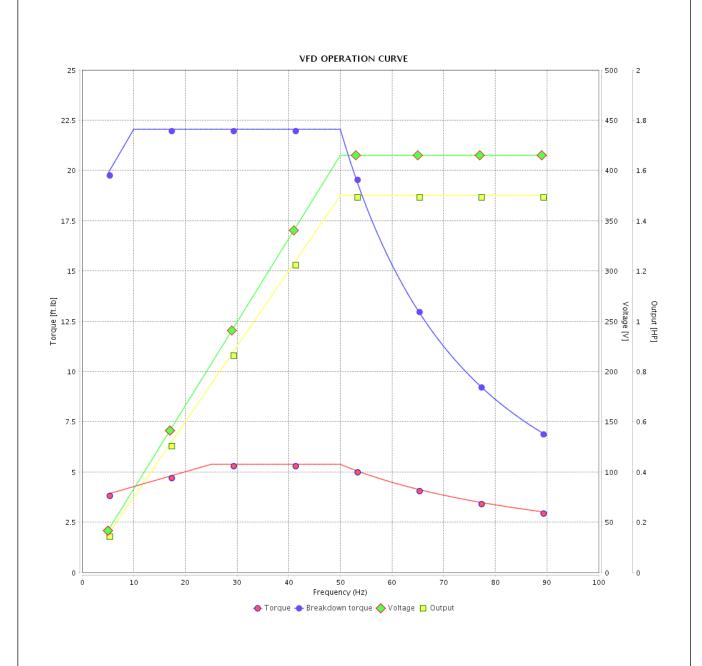


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431460

Phase

Catalog #: 00218ST3QIE145T-W22



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current LRC		: 2.56 A Moment of inertia (J) : 8.4 Duty cycle			: 0.1561 sq.ft.lb	
Rated torque	: 5.	38 ft.lb	Duty cycle Insulation class		: Cont.(S1) : F	
Locked rotor torqu		50 %		Service factor		
Breakdown torque Rated speed		: 409 % Temperature rise Design		: 80 K : B		
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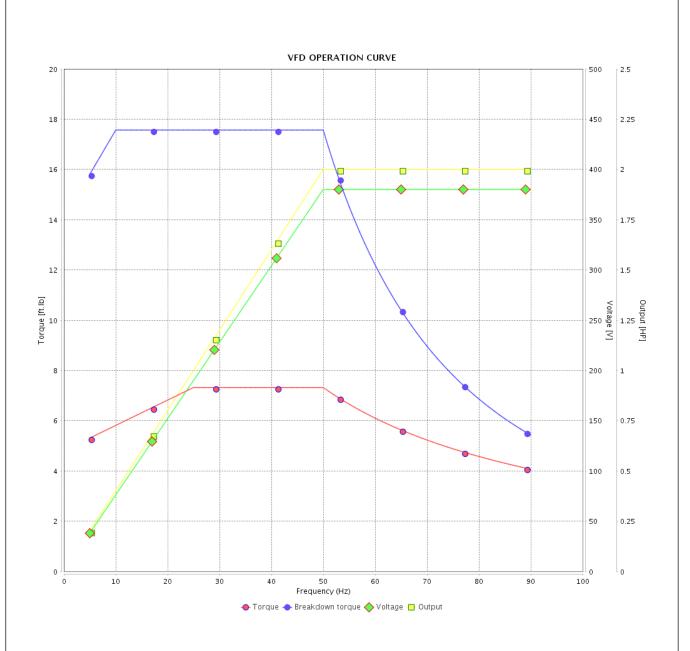
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11431460

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Performance : 380 V 50 Hz 4P IE1 Rated current : 3.33 A Moment of inertia (J) : 0.1561 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 7.32 ft.lb : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1435 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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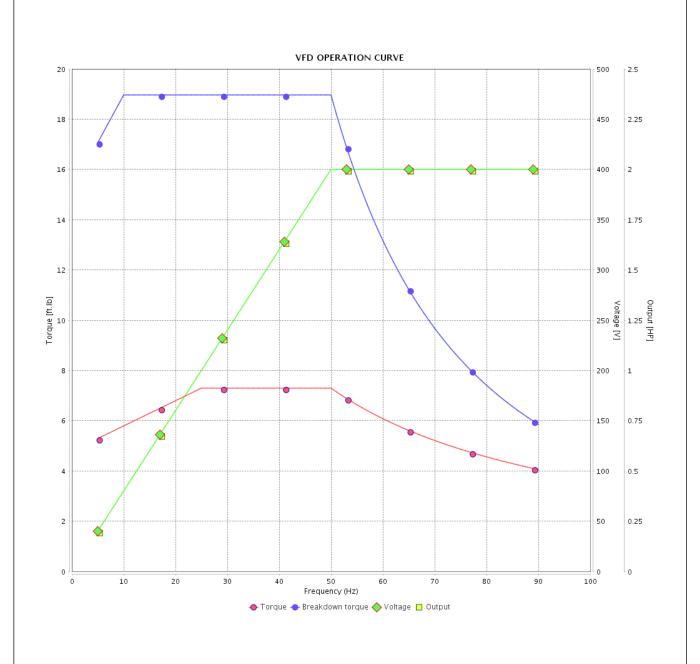


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Product line : NEMA Premium Efficiency Three- Product code : 11431460

Phase

Catalog #: 00218ST3QIE145T-W22



D (001/5011 40150				
Performance	: 4	00 V 50 Hz 4P IE2				
Rated current	: 3.22 A Moment of		f inertia (J)	: 0.1561 sq.ft.	: 0.1561 sq.ft.lb	
LRC	: 6	.6	Duty cycle	;	: Cont.(S1)	
Rated torque	: 7	.29 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2	29 %	Service fa	ctor	: 1.25	
Breakdown torque	e : 2	60 %	Temperature rise		: 80 K	
Rated speed	: 1	440 rpm	Design		: B	
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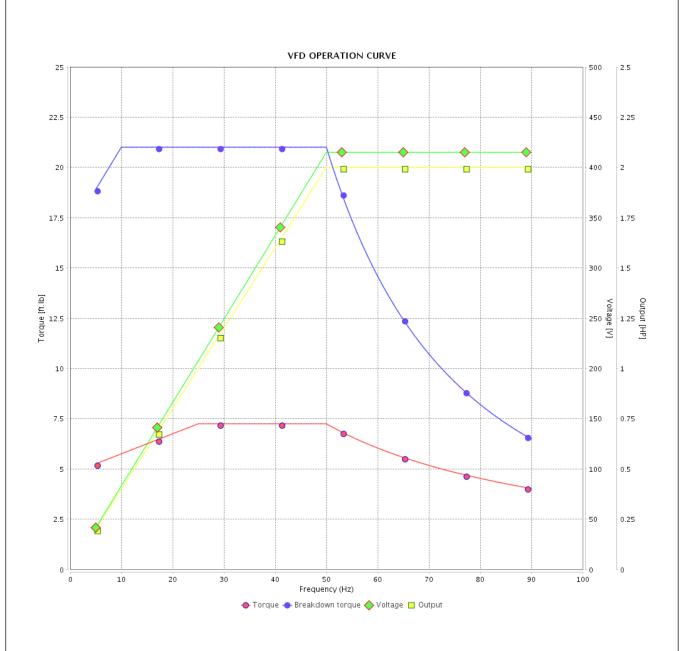
Product line : NEMA Premium Efficiency Three-

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Performance : 415 V 50 Hz 4P IE2 Rated current : 3.14 A Moment of inertia (J) : 0.1561 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 7.3 : 7.24 ft.lb Insulation class Rated torque : F Locked rotor torque : 250 % Service factor : 1.25 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1450 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

