DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11416577

Phase

Catalog #: 00218ET3E145T-W22

Frame : 143/5T 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 : 50.0 lb
Protection degree : IP55 Moment of inertia (J) : 0.1561 sq.ft.lb

/ tititude		. 1000 111.4.	J.I.	/ \ppi 0/	. weigit	. 0	. 00.0 10				
Protection degree	е	: IP55		Momer	nt of inertia (J) : 0	.1561 sq.ft.lb				
Design		: B									
Output [HP]		2	1.5	1.5	1.5	2	2	2			
Poles		4	4	4	4	4	4	4			
Frequency [Hz]		60	50	50	50	50	50	50			
Rated voltage [V]		230/460	380	400	415	380	400	415			
Rated current [A]		5.52/2.76	2.57	2.57	2.56	3.33	3.22	3.14			
L. R. Amperes [A]		45.8/22.9	21.1	22.4	21.5	20.0	21.3	22.9			
LRC [A]		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)			
				M)	M)						
No load current [A]]	3.26/1.63	1.61	1.80	1.97	1.61	1.80	1.97			
Rated speed [RPM	Rated speed [RPM]		1460	1465	1465	1435	1440	1450			
Slip [%]		2.78	2.67	2.33	2.33	4.33	4.00	3.33			
Rated torque [ft.lb]		6.00	5.40	5.38	5.38	7.32	7.29	7.24			
Locked rotor torqu	ocked rotor torque [%]		290	320	350	220	229	250			
Breakdown torque	[%]	320	330	380	409	240	260	290			
Service factor		1.25	1.25	1.25	1.25	1.25	1.25	1.25			
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K			
Locked rotor time		23s (cold)	32s (cold)	28s (cold)	27s (cold)	23s (cold)	21s (cold)	21s (cold)			
		13s (hot)	18s (hot)	16s (hot)	15s (hot)	13s (hot)	12s (hot)	12s (hot)			
Noise level ²		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			
Efficiency (%)	50%	85.5	84.0	82.0	81.4	85.5	84.0	84.0			
Linciency (70)	75%	86.5	84.2	83.5	83.1	84.0	84.0	84.0			
100%		86.5	84.5	84.5	84.1	82.5	84.0	84.0			
25%		0.32	0.31	0.27	0.25	0.39	0.35	0.32			
Power Factor	50%	0.57	0.55	0.50	0.47	0.66	0.62	0.60			
FOWEI FACIOI	75%	0.70	0.69	0.64	0.61	0.78	0.74	0.72			
	100%	0.79	0.77	0.73	0.71	0.83	0.80	0.79			

<u>Drive end</u> <u>Non drive end</u> Foundation loads

Bearing type : 6205 ZZ 6204 ZZ Max. traction : 158 lb Sealing : V'Ring V'Ring Max. compression : 208 lb

Lubricant amount : - - Lubricant type : Mobil Polyrex EM

Notes

Lubrication interval

USABLE @208V 5.85A SF 1.15 SFA 6.73A

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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Three Phase Induction Motor - Squirrel Cage

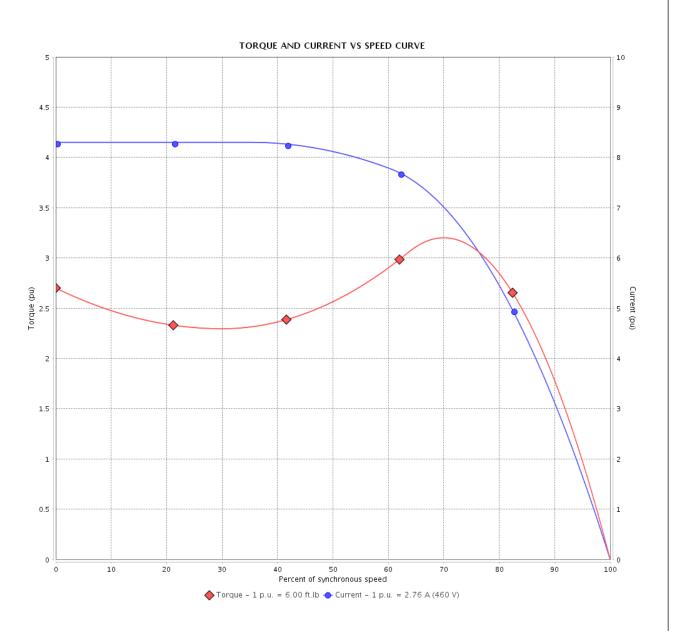


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 00218ET3E145T-W22

11416577



Performance : 230/460 V 60 Hz 4P Rated current : 5.52/2.76 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 Breakdown torque : 320 % 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: 11416577 Catalog #: 00218ET3E145T-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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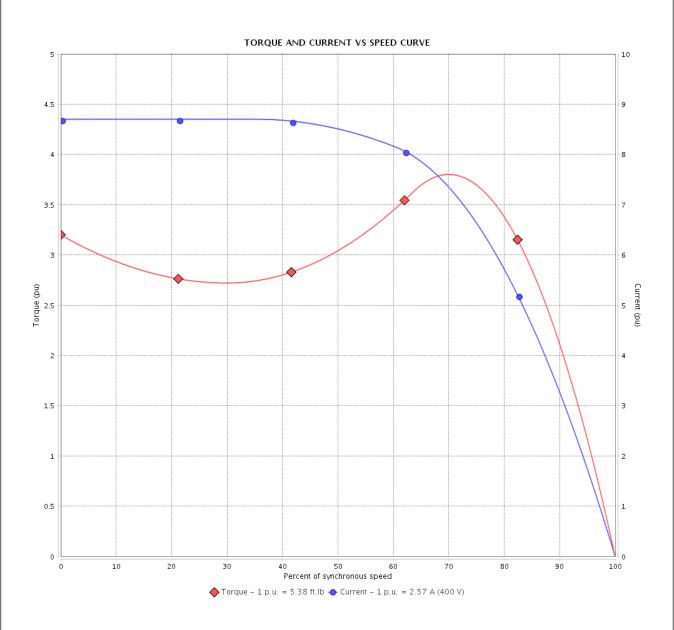


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 11416577

Catalog #: 00218ET3E145T-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) : F : 5.38 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 320 % : 1.25 Breakdown torque : 380 % Temperature rise : 80 K Rated speed : 1465 rpm Design : 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: 11416577 Catalog #: 00218ET3E145T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5

3 -					\						
											6
nd) an 2.5											urrent
Torque (pu)									\\		Current (pu)
2 -											- 4
1.5											3
1											- 2
0.5 -											1
0 1	0 10	2	0 30			50 nchronous spee		0 8	; 30 9	00 1	00
			♦ To	rque - 1 p.u. =	5.38 ft.lb	◆ Current - 1 p	o.u. = 2.56 A (41	.5 V)			
Performa	nce	:	415 V 50 H	Hz 4P IE3							
Rated cur LRC	rent		2.56 A 8.4			Moment of Duty cycle	inertia (J)	: C : C).1561 sq.f Cont.(S1)	t.lb	

Locked rotor torque Breakdown torque		5.38 ft.lb 350 % 409 % 465 rpm 27s (cold) 15s (hot	Insulation Service fa Temperatu Design	class ctor	: F : 1.25 : 80 K : B	
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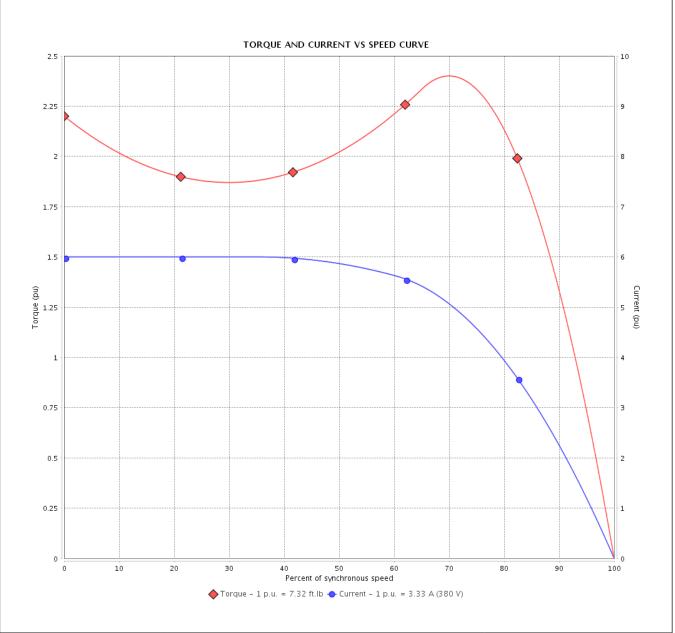
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Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 11416577

Catalog #: 00218ET3E145T-W22



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) : F : 7.32 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 220 % : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1435 rpm Design : B

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

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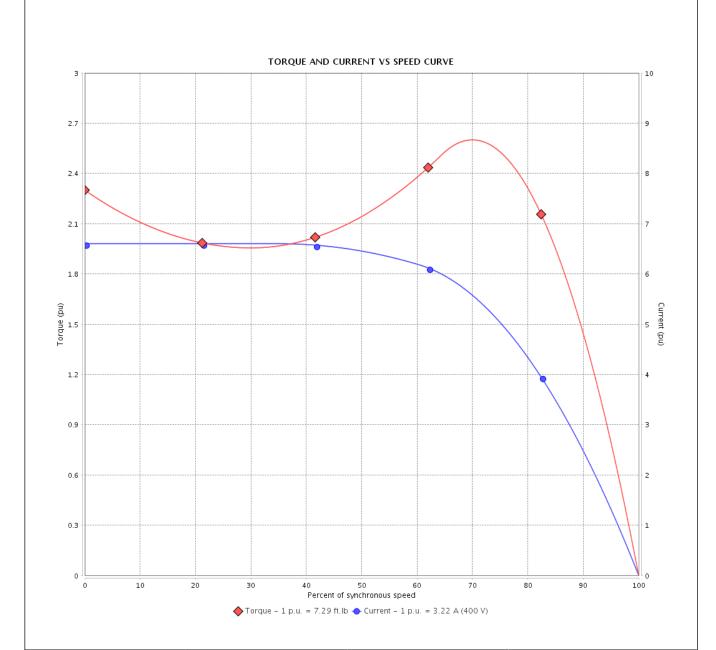


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Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11416577

Catalog #:



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) : 7.29 ft.lb Insulation class : F Rated torque 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)

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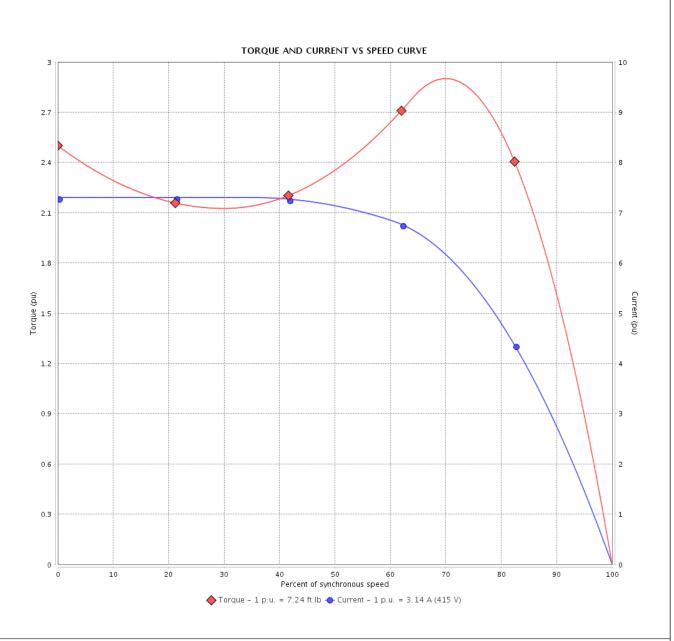
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11416577

Catalog #: 00218ET3E145T-W22



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

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

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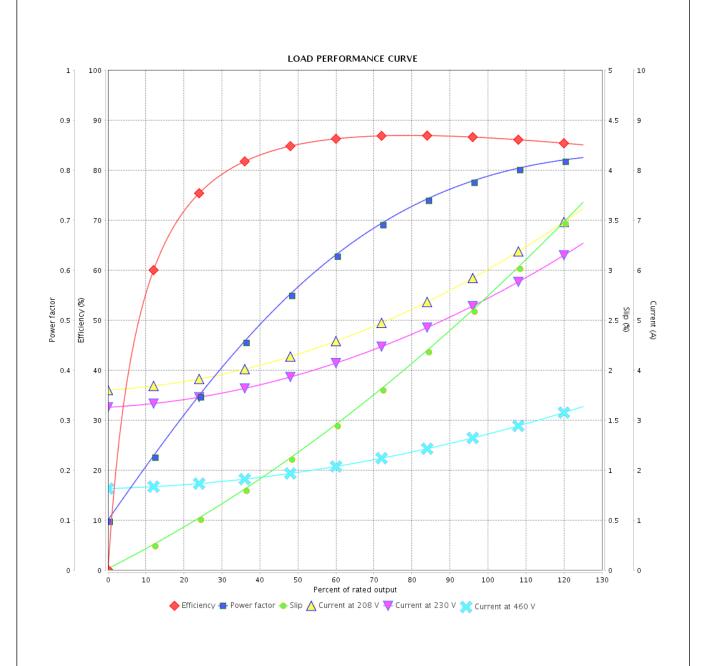


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11416577

Phase

Catalog #: 00218ET3E145T-W22



Performance	. 2	30/460 V 60 Hz 4P						
Rated current : 5.5		.52/2.76 A	Moment o	f inertia (J)	: 0.1561 sq.ft.	lb		
LRC	: 8	.3	Duty cycle)	: Cont.(S1)			
Rated torque	: 6	.00 ft.lb	Insulation class		: F			
Locked rotor torque	e : 2º	70 %	Service factor : 1.25					
•		20 %	Temperature rise : 80 K					
Rated speed		· ·		Design				
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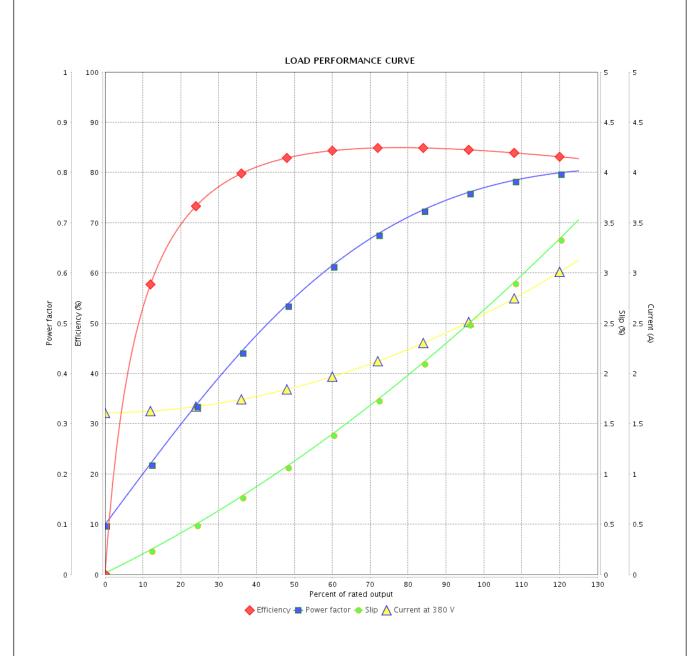
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00218ET3E145T-W22

11416577

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Performance	: 380 V 50 Hz 4P IE3				
Rated current	: 2.57 A	Moment of inertia (J)		: 0.1561 sq.ft.	lb
LRC Rated torque	: 8.2 : 5.40 ft.lb	Duty cycle Insulation class		: Cont.(S1) : F	
Locked rotor torque	: 290 %	Service factor		: 1.25	
Breakdown torque	: 330 %	Temperature rise Design		: 80 K : B	
Rated speed	: 1460 rpm				
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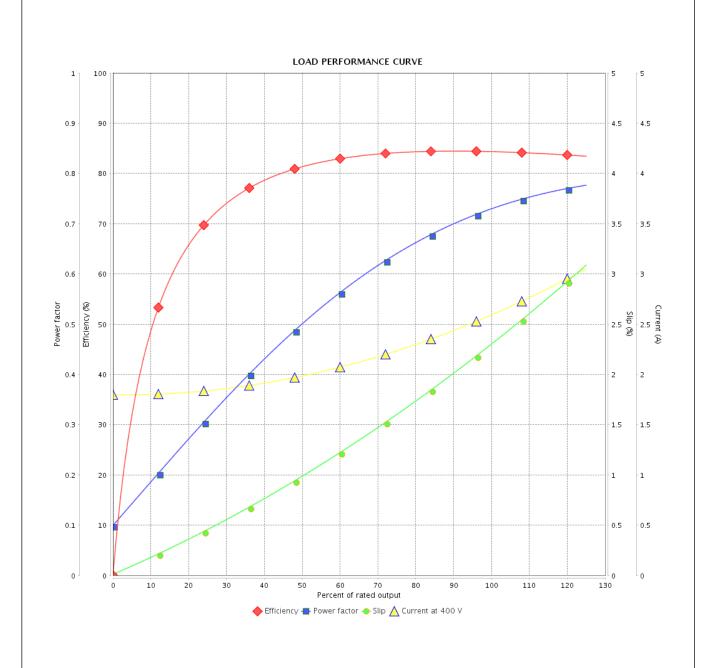
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Performance	: 400 V 50 Hz 4P IE3				
Rated current	: 2.57 A	Moment of inertia	ı (J)	: 0.1561 sq.ft.	lb
LRC	: 8.7	Duty cycle		: Cont.(S1)	
Rated torque	: 5.38 ft.lb	Insulation class		: F	
Locked rotor torque : 320 %		Service factor		: 1.25	
Breakdown torque	: 380 %	Temperature rise Design		: 80 K : B	
Rated speed	: 1465 rpm				
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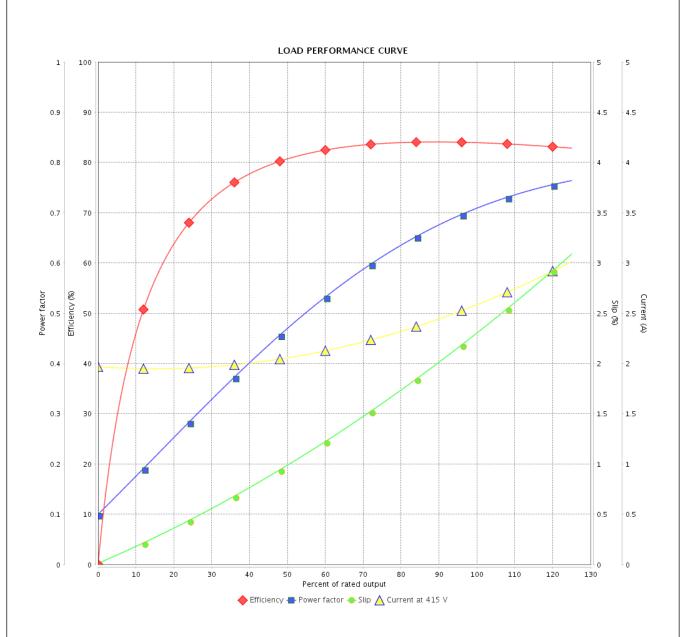
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Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11416577

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erformance : 415 V 50 Hz 4P IE3					
Rated current	: 2.56 A	Moment of inertia	(J)	: 0.1561 sq.ft.	lb
LRC	-RC : 8.4			: Cont.(S1)	
Rated torque	: 5.38 ft.lb	Duty cycle Insulation class		: F	
Locked rotor torque	: 350 %	Service factor		: 1.25	
Breakdown torque	: 409 %	Temperature rise		: 80 K	
Rated speed	: 1465 rpm	Design		: B	
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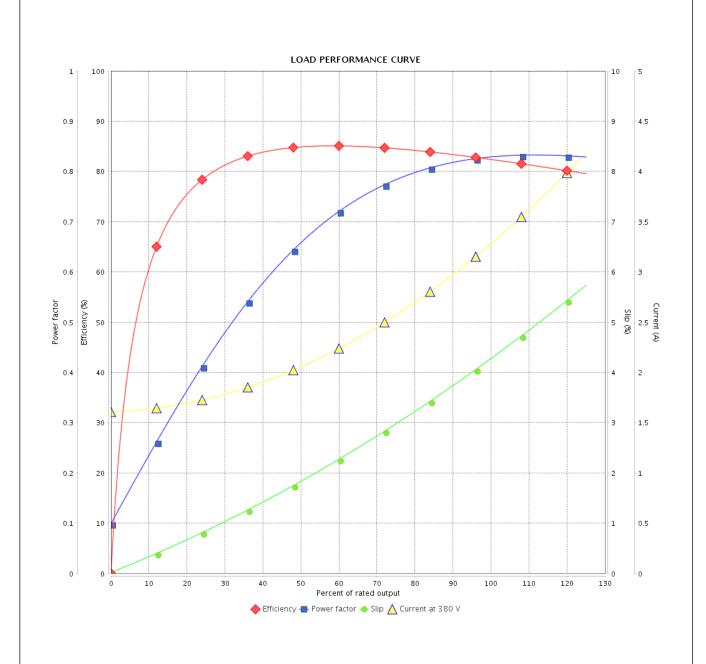
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11416577

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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 i Duty cycle Insulation of Service fact Temperature Design	lass	: 0.1561 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
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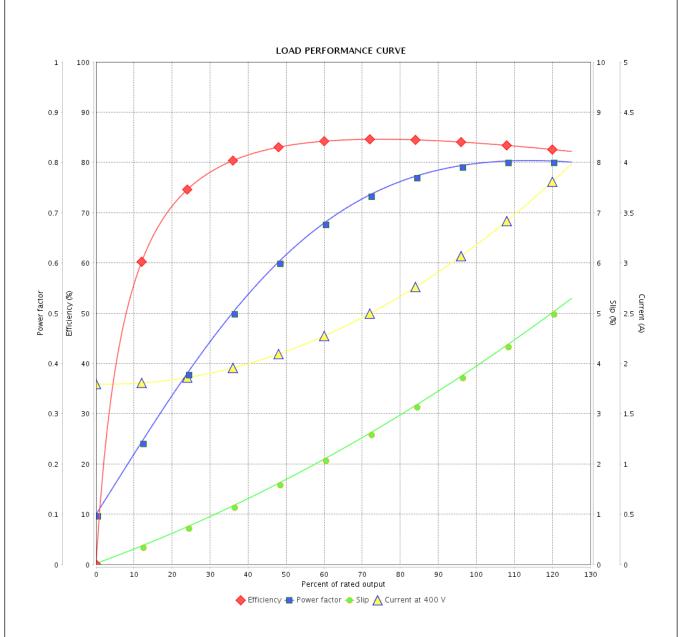
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Phase

Product code: 11416577

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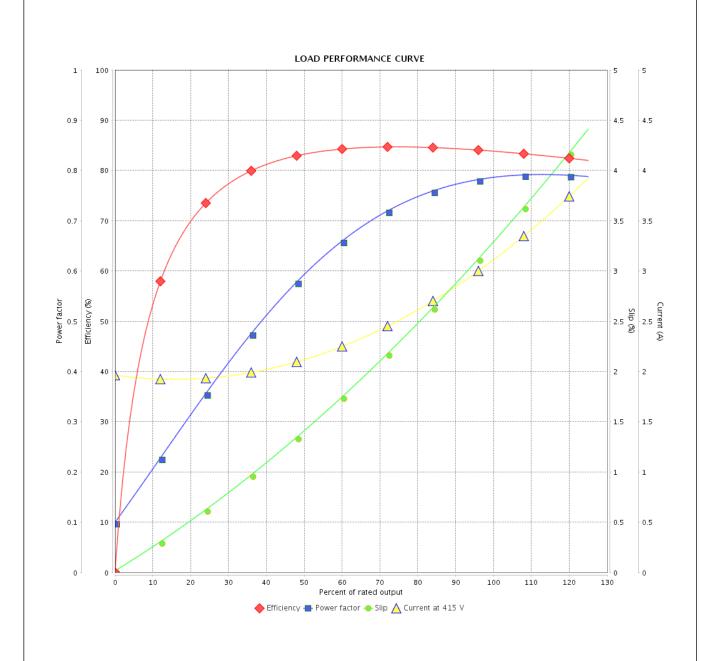


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11416577

Phase

Catalog #: 00218ET3E145T-W22



Performance	rformance : 415 V 50 Hz 4P IE2					
Rated current : 3.14 A		3.14 A	Moment of	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 tord	que :	250 %	Service fa	ctor	: 1.25	
Breakdown torqu	ie :	290 %	Temperati	Temperature rise		
Rated speed	:	1450 rpm	Design		: B	
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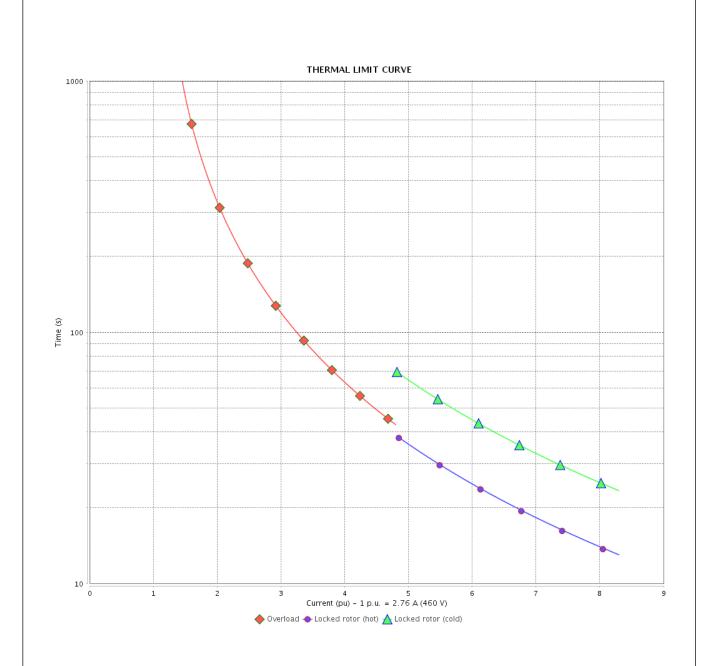


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Product line		NEMA Premium Efficiency ⁻ Phase		Product code : Catalog # :	11416577 00218ET3E1	45T-W22
				Catalog # .	00216E13E1	451-WZZ
Performance Rated current LRC Rated torque Locked rotor toro Breakdown torque Rated speed Heating constant Cooling constant	: 8 : 8 : 9 que : 2 : 2	230/460 V 60 Hz 4P 5.52/2.76 A 3.3 6.00 ft.lb 270 % 320 % 1750 rpm	Moment or Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.1561 sq.ft.l : Cont.(S1) : F : 1.25 : 80 K : B	b
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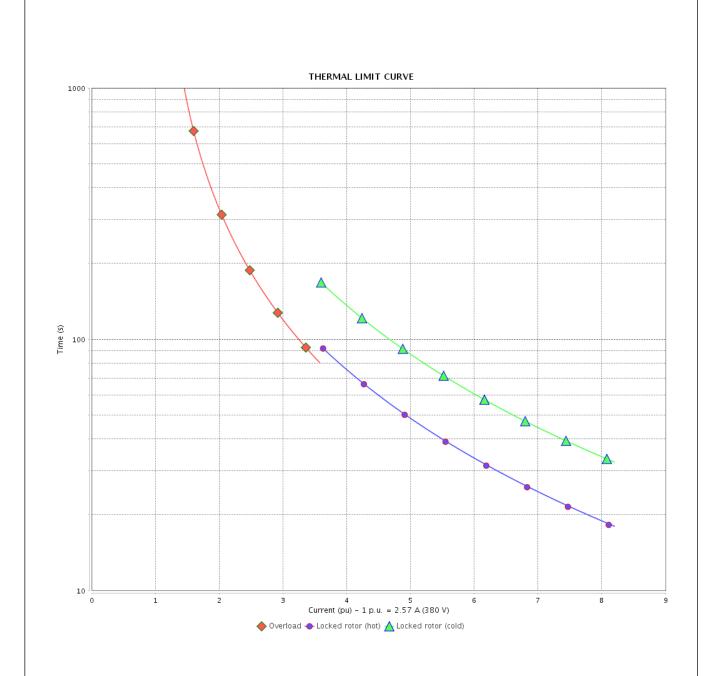


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Product line	: NEMA Premium Efficiency Phase	Three-	Product code :	11416577	
	Pridse		Catalog # :	00218ET3E1	45T-W22
Performance	: 380 V 50 Hz 4P IE3	Mamanta	finantia (I)	. 0 4504 #1	L
Rated current LRC	: 2.57 A : 8.2	Duty cycle	f inertia (J)	: 0.1561 sq.ft.l : Cont.(S1)	υ
Rated torque Locked rotor torque	: 5.40 ft.lb : 290 %	Insulation Service fa		: F : 1.25	
Breakdown torque	: 330 %	Temperatu		: 80 K	
Rated speed	: 1460 rpm	Design		: B	
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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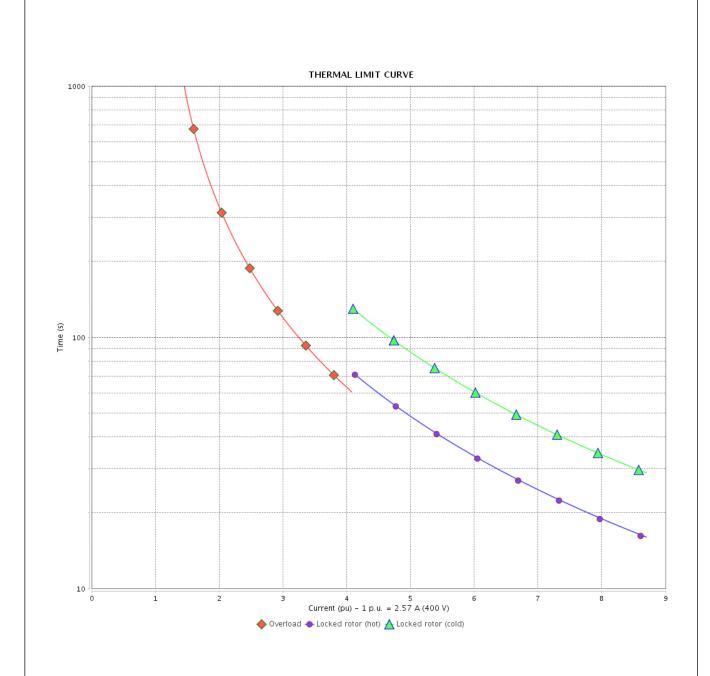


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Product line	: NEMA Premiu Phase	ım Efficiency Three-	Product code :	11416577	
	1 11000		Catalog # :	00218ET3E1	45T-W22
Performance	: 400 V 50 Hz 4F	P IE3			
Rated current	: 2.57 A	Moment	of inertia (J)	: 0.1561 sq.ft.l	b
LRC	: 8.7 : 5.38 ft.lb	Duty cyc Insulation		: Cont.(S1) : F	
Rated torque Locked rotor torqu		Service		. г : 1.25	
Breakdown torque	: 380 %		ature rise	: 80 K	
Rated speed	: 1465 rpm	Design		: B	
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Cooling constant Rev.	Changes Sui	mmarv	Performed	Checked	Date
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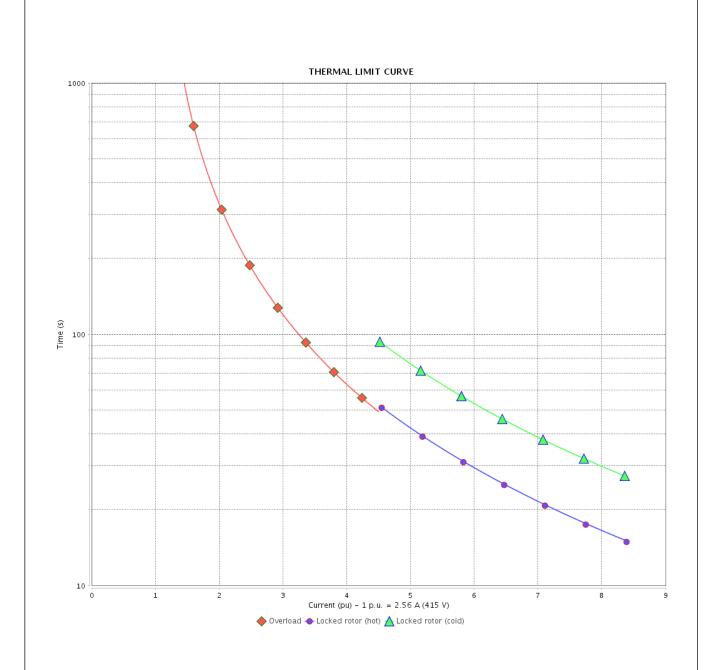


				
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Product line	: NEMA Premium Efficiency Phase	Three- Product code :	11416577	
		Catalog #:	00218ET3E145T-W22	2
Performance	: 415 V 50 Hz 4P IE3			
Rated current	: 2.56 A	Moment of inertia (J)	: 0.1561 sq.ft.lb	
LRC Rated torque	: 8.4 : 5.38 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F	
Locked rotor torque	: 350 %	Service factor	. г : 1.25	
Breakdown torque	: 409 %	Temperature rise	: 80 K	
Rated speed	: 1465 rpm	Design	: B	
Heating constant				
Cooling constant	Oh ara ara a Orr	D- ()	Charles d	
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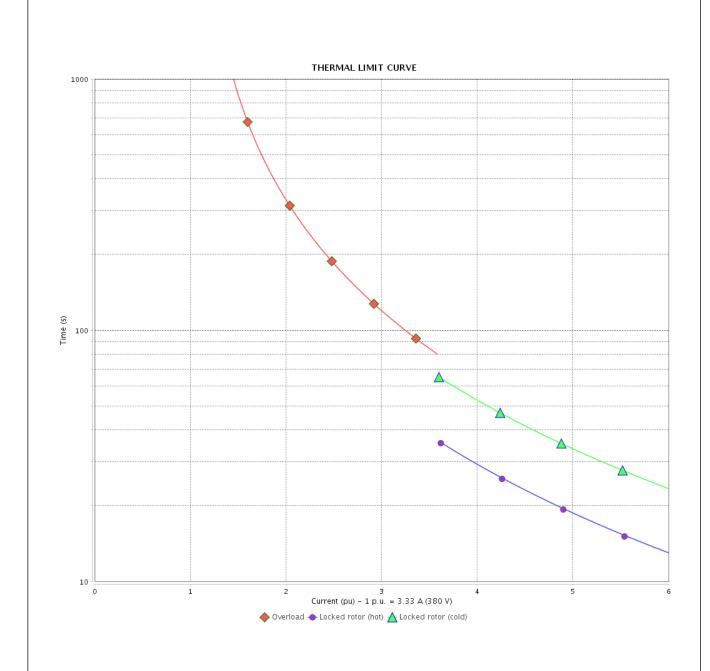


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11416577 00218ET3E1	45T-W22
Performance	:	: 380 V 50 Hz 4P IE1				
Rated current LRC		: 3.33 A : 6.0	Moment o	of inertia (J)	: 0.1561 sq.ft.l	b
Rated torque	:	: 7.32 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor tord		: 220 % : 240 %	Service fa		: 1.25 : 80 K	
Breakdown torqu Rated speed		: 1435 rpm	Temperat Design	ui C 119C	: B	
Heating constan						
Cooling constant	t					_
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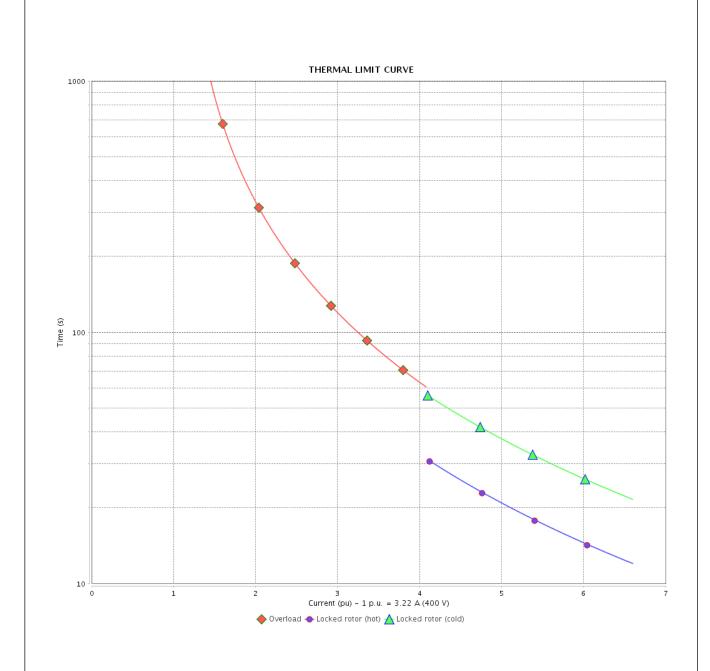


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Product line		NEMA Premium Efficiency	Three-	Product code :	11416577	
	P	hase		Catalog # :	00218ET3E1	45T-W22
Performance		00 V 50 Hz 4P IE2	1			
Rated current LRC	: 3. : 6.	.22 A .6	Moment o Duty cycle	f inertia (J)	: 0.1561 sq.ft.l : Cont.(S1)	b
Rated torque	: 7.	.29 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		29 % 60 %	Service fa Temperatu		: 1.25 : 80 K	
Rated speed		440 rpm	Design	110 1130	: B	
Heating constant						
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



Customer



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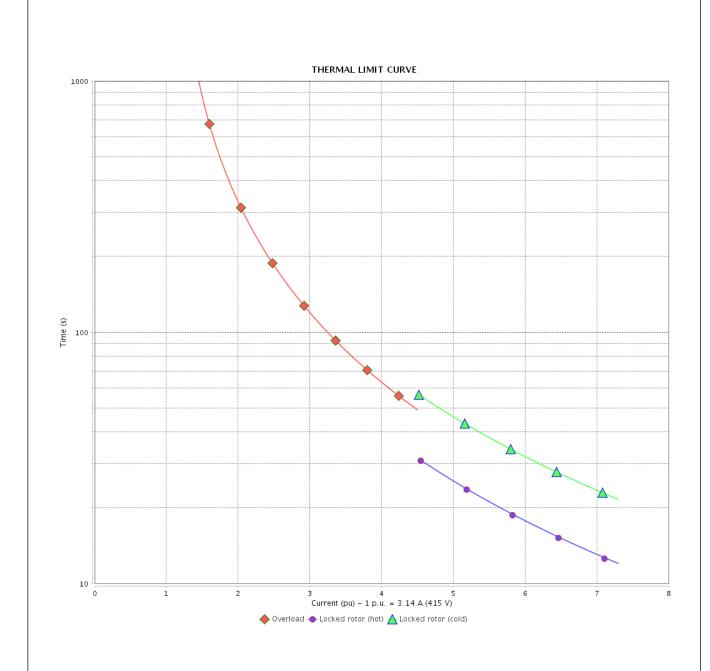


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11416577 00218ET3E1	45T-W22
Performance		: 415 V 50 Hz 4P IE2				
Rated current LRC		: 3.14 A : 7.3	Moment of Duty cycle	of inertia (J) e	: 0.1561 sq.ft.l : Cont.(S1)	b
Rated torque		: 7.24 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 250 % : 290 %	Service fa Temperat		: 1.25 : 80 K	
Rated speed		: 1450 rpm	Design		: B	
Heating constan						
Cooling constant	t	Changes Summani		Performed	Checked	Date
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Customer



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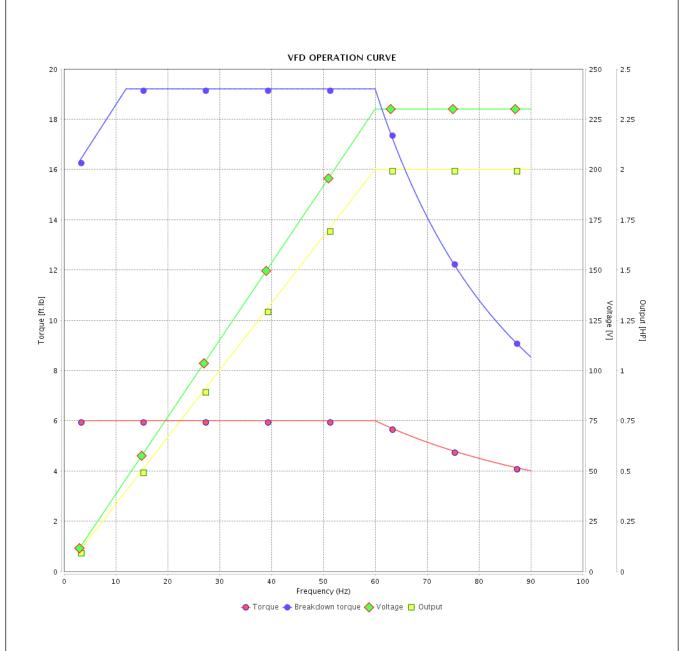
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11416577

Catalog #: 00218ET3E145T-W22



Performance		: 230/460 V 60 Hz 4	.P			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 5.52/2.76 A : 8.3 : 6.00 ft.lb : 270 % : 320 % : 1750 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class actor	: 0.1561 sq.ft : Cont.(S1) : F : 1.25 : 80 K : B	lb
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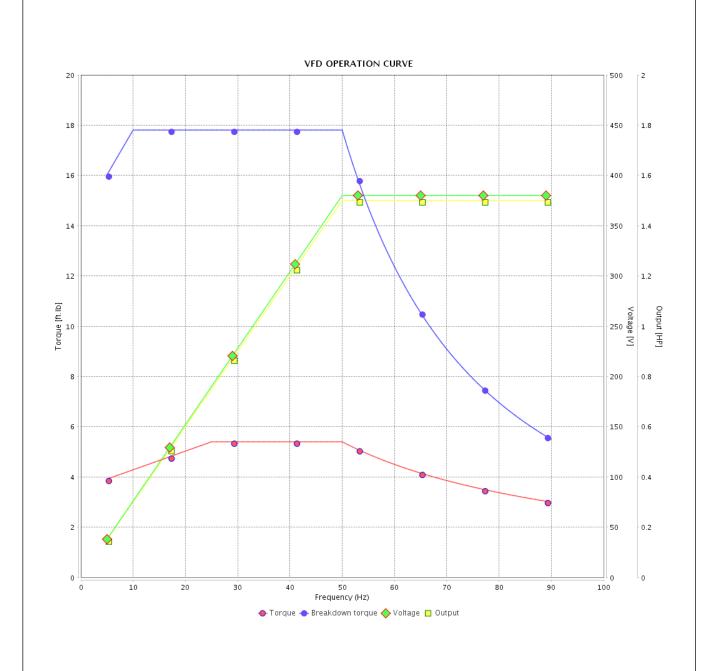


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11416577

Phase

Catalog #: 00218ET3E145T-W22



Performance	: 3	80 V 50 Hz 4P IE3				
Rated current	: 2	2.57 A Moment of inertia (J)		f inertia (J)	: 0.1561 sq.ft.	b
LRC	: 8	.2	Duty cycle	;	: Cont.(S1)	
Rated torque	: 5	.40 ft.lb	Insulation	class	: F	
Locked rotor torqu	e :2	90 %	Service fa	ctor	: 1.25	
Breakdown torque	: 3	30 %	Temperati	ıre rise	: 80 K	
Rated speed	: 1	460 rpm	Design		: B	
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Customer :

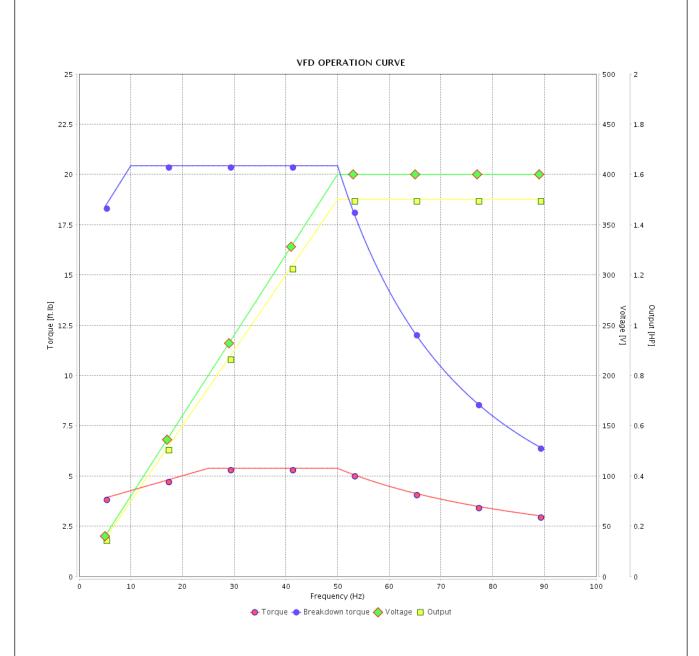
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance	: 400 V 50 Hz 4P IE3			
Rated current	ted 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	: 1.25	
Breakdown torque	: 380 %	Temperature rise		
Rated speed	: 1465 rpm	Design	: B	
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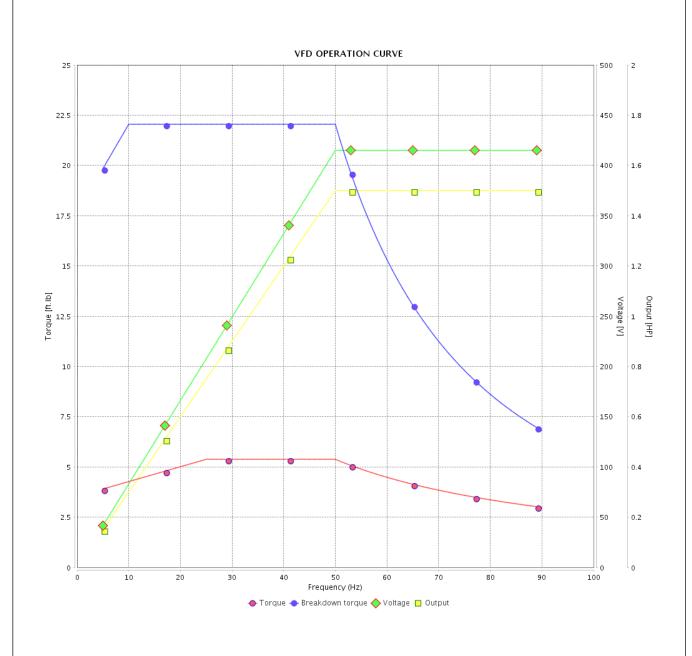
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11416577

Phase

Catalog #: 00218ET3E145T-W22

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Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.56 A : 8.4 : 5.38 ft.lb : 350 % : 409 % : 1465 rpm	Moment o 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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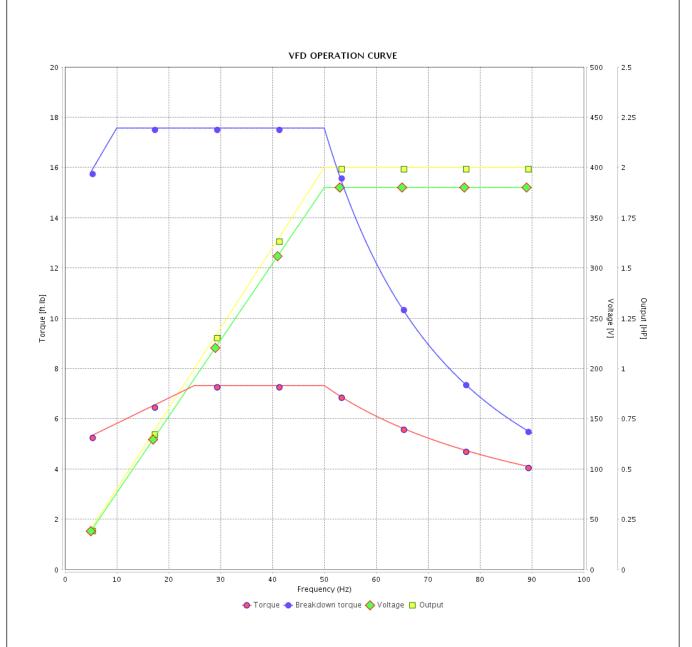
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11416577

Catalog #: 00218ET3E145T-W22



					,	
Performance	:	: 380 V 50 Hz 4P IE ⁻	1			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	jue ie	3.33 A 6.0 7.32 ft.lb 220 % 240 % 1435 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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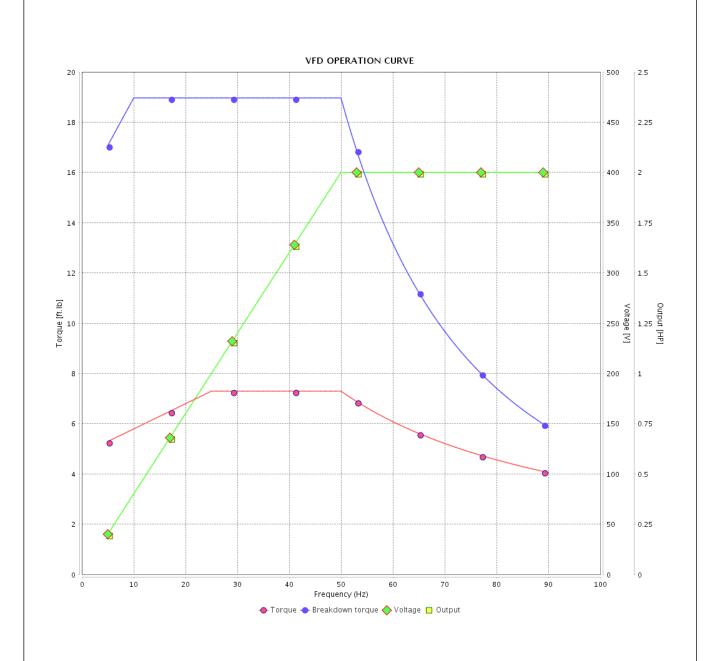
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 11416577

Catalog #: 00218ET3E145T-W22



Performance		: 400 V 50 Hz 4P IE2				
Rated current	: 3.22 A		Moment o	Moment of inertia (J)		.lb
LRC		6.6	Duty cycle	;	: Cont.(S1)	
Rated torque		7.29 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie :	229 %	Service fa	ctor	: 1.25	
Breakdown torque)	260 %	Temperati	ıre rise	: 80 K	
Rated speed		1440 rpm	Design		: B	
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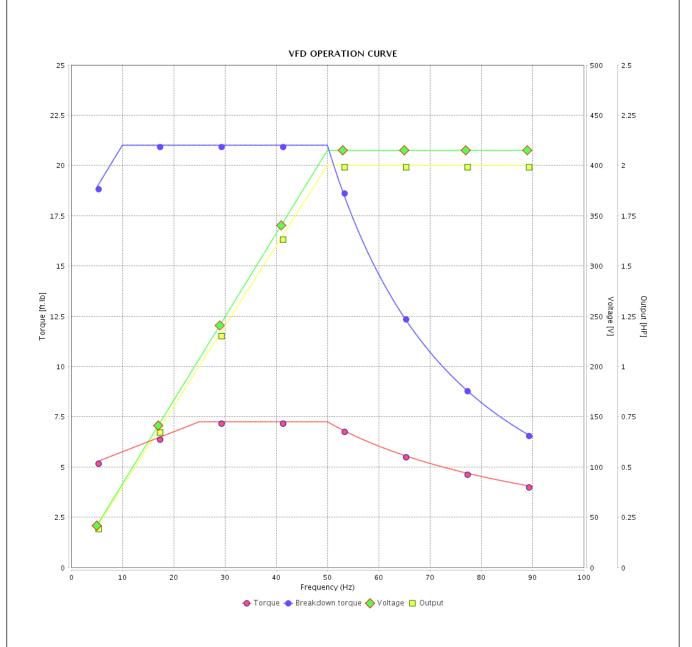
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11416577

Catalog #: 00218ET3E145T-W22



D. (445.7750.11 40.150			
Performance	: 415 V 50 Hz 4P IE2			
Rated current LRC	: 3.14 A : 7.3	Moment of inertia (J) Duty cycle		.lb
Rated torque Locked rotor torque	: 7.24 ft.lb : 250 %	Insulation class Service factor	: Cont.(S1) : F : 1.25	
Breakdown torque Rated speed	: 290 % : 1450 rpm	Temperature rise Design	: 80 K : B	
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