DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11416577

Three-Phase

Catalog #: 00218ET3E145T-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

Altitude : 1000 m.a.s.l. Approx. weight³ : 50.0 lb

7 111114440			o	, .pp. 0,		. 0	0.0 .0	
Protection degre	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 [RPN	/ 1]	1755	1460	1465	1465	1435	1440	1450
Slip [%]		2.50	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	e [%]	270	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		19s (cold)	19s (cold)	19s (cold)	19s (cold)	19s (cold)	19s (cold)	19s (cold)
		11s (hot)	11s (hot)	11s (hot)	11s (hot)	11s (hot)	11s (hot)	11s (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
Liliciency (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
FUWEI 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 Lubrication interval : -

Lubricant amount : - - Lubricant type : Mobil Polyrex EM

Notes

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



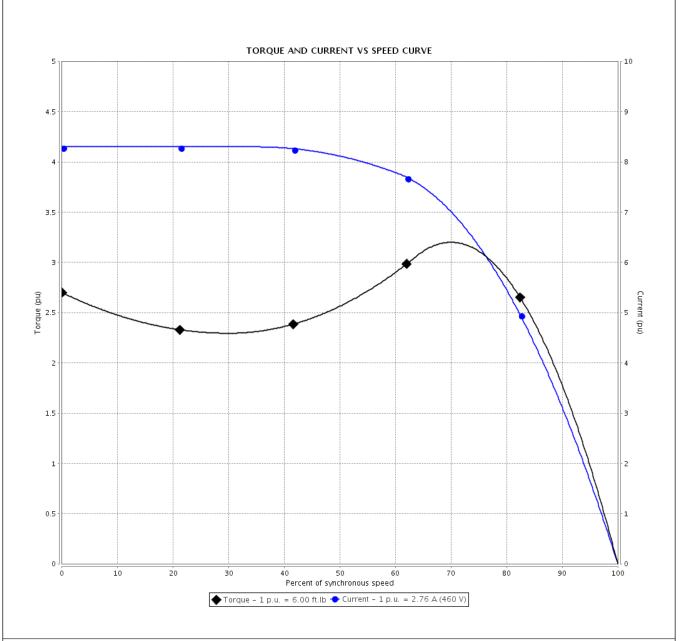
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11416577

Catalog #: 00218ET3E145T-W22



: 230/460 V 60 Hz 4P Performance 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 : 1755 rpm Design : B

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Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 NEMA Premium Efficiency Product code: 11416577 Three-Phase Catalog #: 00218ET3E145T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 Torque (pu) Current (pu) 0.5 100 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 : 19s (cold) 11s (hot) Rev. **Changes Summary** Performed Checked Date

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Three Phase Induction Motor - Squirrel Cage



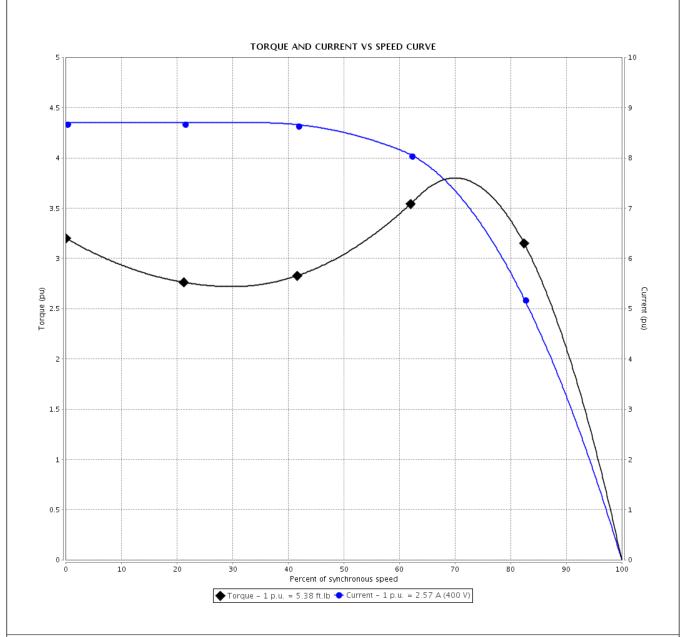
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11416577

Catalog #: 00218ET3E145T-W22



: 400 V 50 Hz 4P IE3 Performance 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

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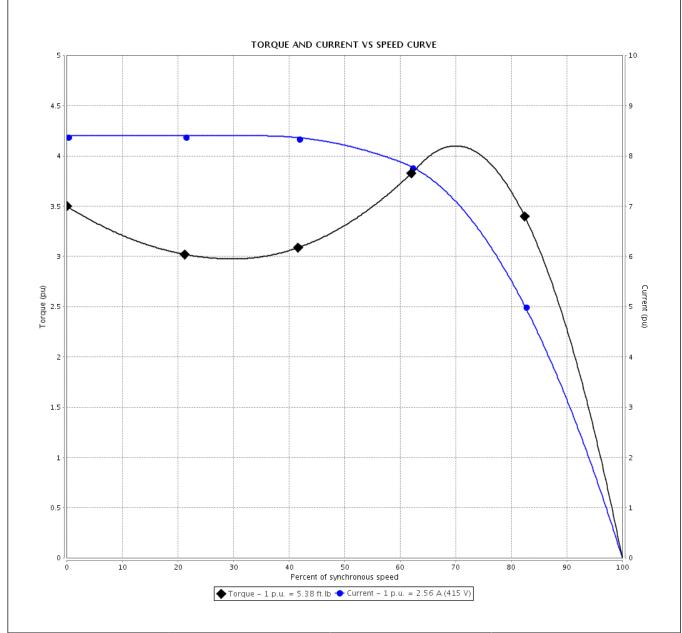


Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11416577

Three-Phase

Catalog #: 00218ET3E145T-W22



Performance	: 415 V 50 Hz 4P IE3		
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
Looked roter time	: 10s (sold) 11s (bot)	L	

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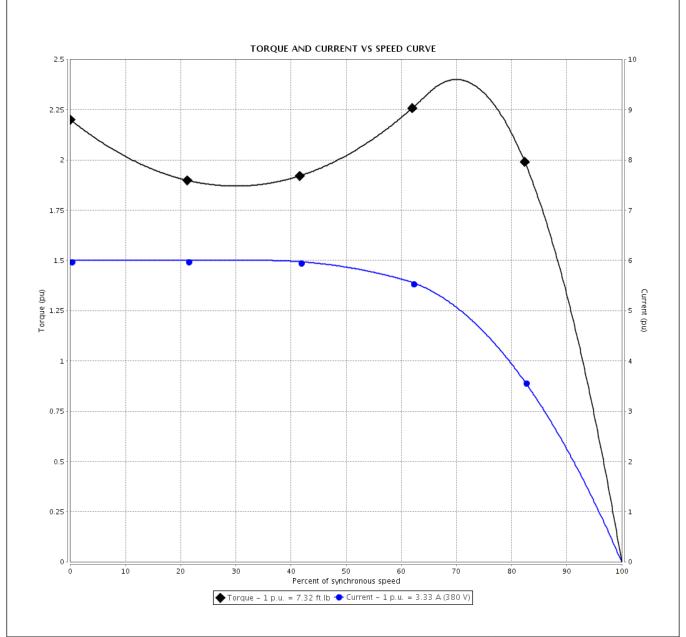
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11416577

Catalog #: 00218ET3E145T-W22



: 380 V 50 Hz 4P IE1 Performance 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

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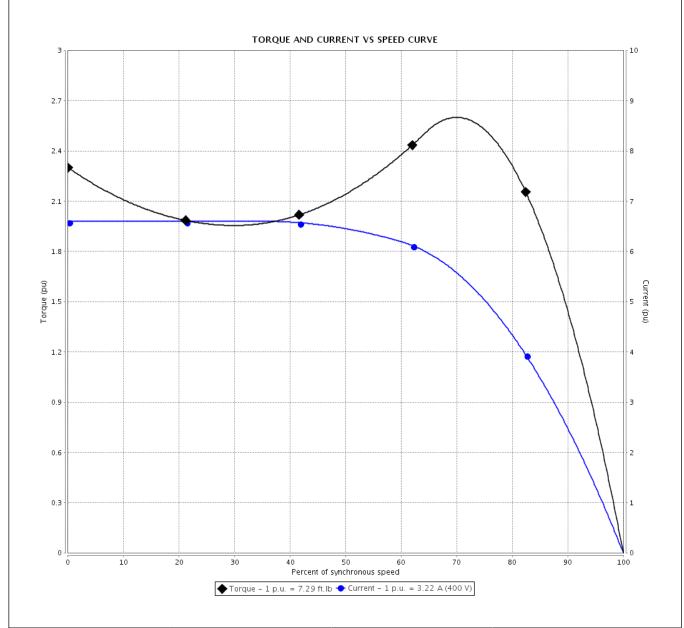
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Three-Phase

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** : 6.6 Duty cycle : Cont.(S1) : 7.29 ft.lb Insulation class : F Rated torque : 1.25 Locked rotor torque : 229 % Service factor Breakdown torque : 260 % Temperature rise : 80 K : B Rated speed : 1440 rpm Design

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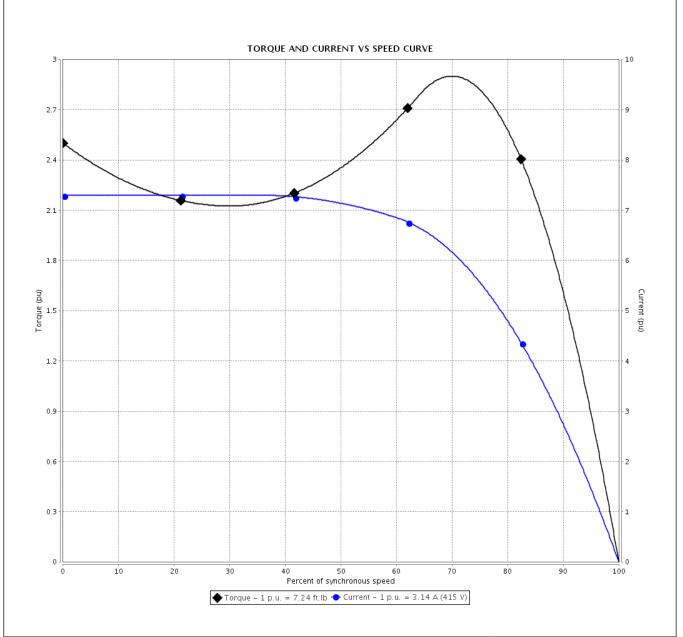
Customer

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11416577

Catalog #: 00218ET3E145T-W22



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

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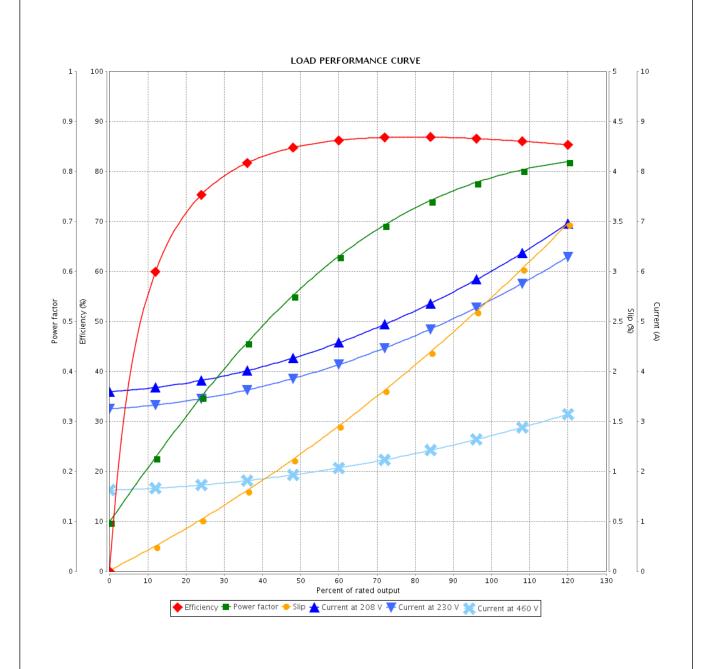
Customer

Product line : W22 NEMA Premium Efficiency Product code:

Three-Phase

Catalog #: 00218ET3E145T-W22

11416577



Performance	: 2	230/460 V 60 Hz 4P				
Rated current	ated current : 5.52/2.76 A Moment		Moment o	f inertia (J)	: 0.1561 sq.ft.lb	
LRC	: 8	3.3	Duty cycle	;	: Cont.(S1)	
Rated torque	: 6	6.00 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 2	270 %	Service fa	ctor	: 1.25	
Breakdown torque Rated speed		320 %	, and a second s		: 80 K	
		1755 rpm			: B	
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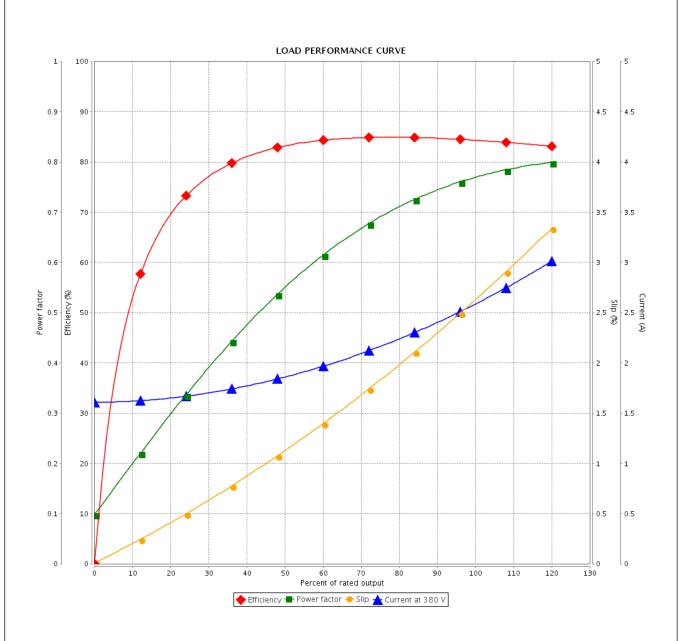
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11416577

Catalog #: 00218ET3E145T-W22



Performance	: 380 V 50 Hz 4P IE3				
Rated current	: 2.57 A	Moment of	of inertia (J)	: 0.1561 sq.ft.lb	
LRC	: 8.2	Duty cycle	Э	: Cont.(S1)	
Rated torque	: 5.40 ft.lb	Insulation	class	: F	
Locked rotor torque	: 290 %	Service fa	ictor	: 1.25	
Breakdown torque	: 330 %	10		: 80 K	
Rated speed	: 1460 rpm			: B	
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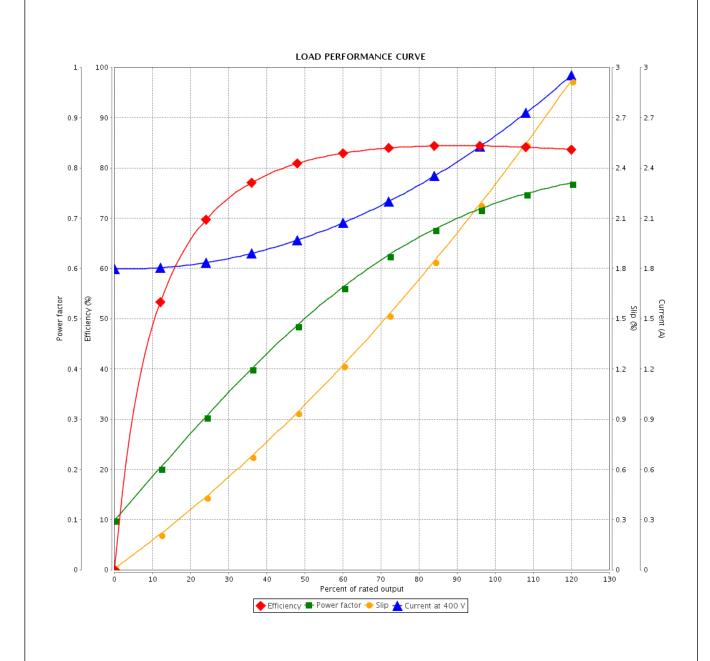
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Product line : W22 NEMA Premium Efficiency Product

Three-Phase

Product code: 11416577

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Performance		: 400 V 50 Hz 4P IE3				
Rated current	Rated current : 2.57 A		Moment o	Moment of inertia (J)		.lb
LRC		: 8.7	Duty cycle)	: Cont.(S1)	
Rated torque		: 5.38 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue	: 320 %	Service fa	ctor	: 1.25	
Breakdown torque	е	: 380 %	Temperatu	Temperature rise		
Rated speed		: 1465 rpm	Design		: B	
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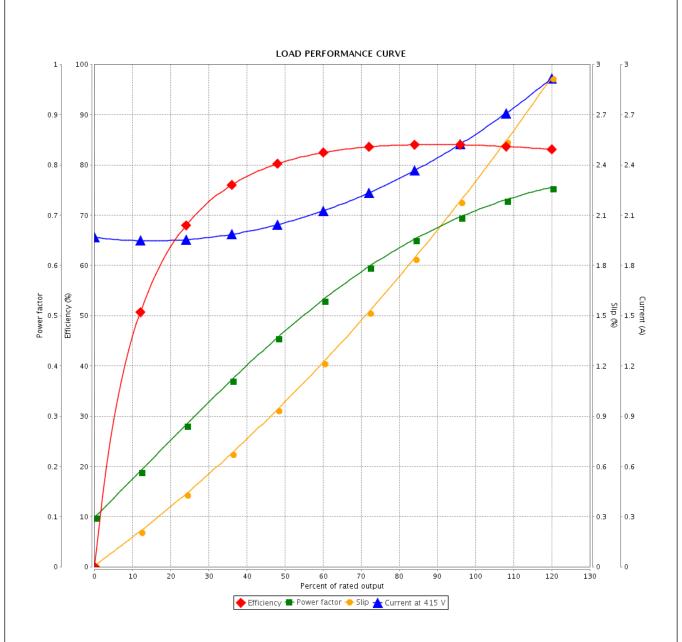
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11416577

Catalog #: 00218ET3E145T-W22



Performance	: 415 V 50 Hz 4P IE3				
Rated current	: 2.56 A	Moment o	f inertia (J)	: 0.1561 sq.ft.	lb
LRC	: 8.4	Duty cycle	;	: Cont.(S1)	
Rated torque	: 5.38 ft.lb Insulation class		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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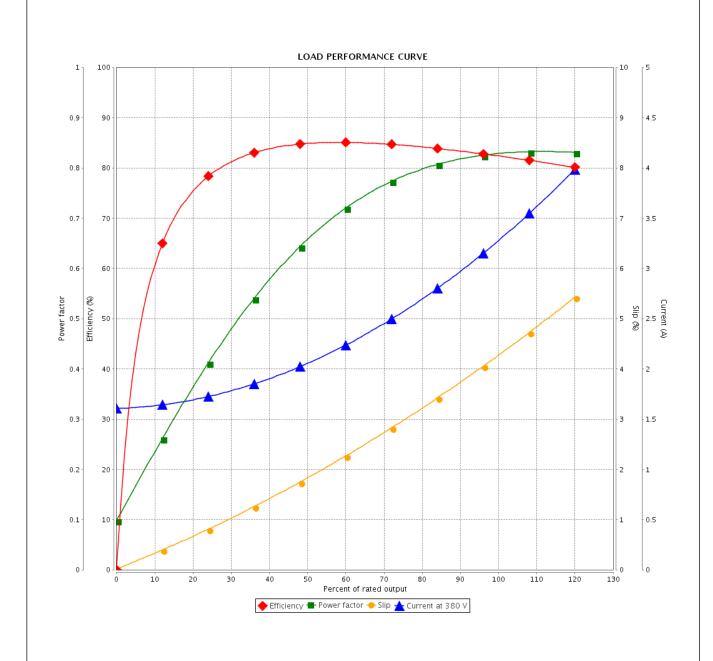
Customer

Product line : W22 NEMA Premium Efficiency Prod

Three-Phase

Product code: 11416577

Catalog #: 00218ET3E145T-W22



Performance	:	380 V 50 Hz 4P IE1				
Rated current	:	3.33 A	Moment o	f 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 torqu	ue :	220 %	Service fa	ctor	: 1.25	
Breakdown torque : 240 %		Temperati	Temperature rise			
Rated speed	:	1435 rpm	Design		: B	
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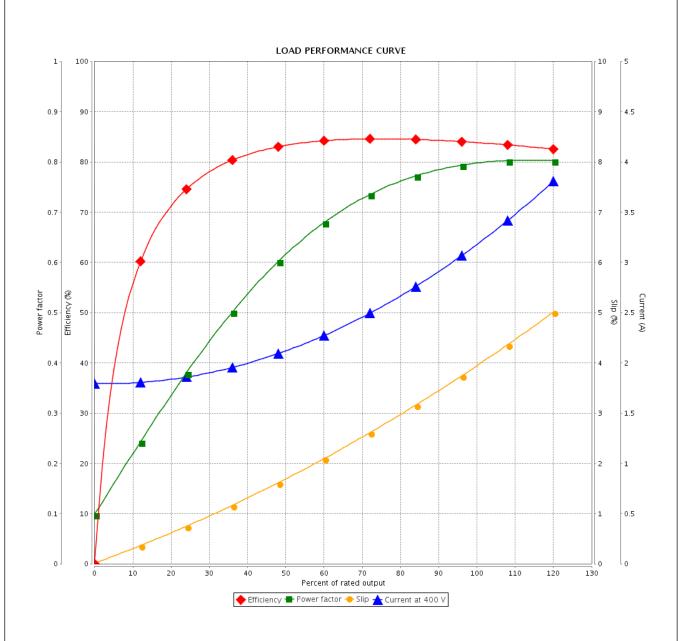
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11416577

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Performance	: 400 V 50 Hz 4P IE2				
Rated current	: 3.22 A Moment of inertia (of inertia (J)	: 0.1561 sq.ft.	.lb
LRC	: 6.6	Duty cycle		: Cont.(S1)	
Rated torque : 7.29 ft.lb		Insulation class : F		: 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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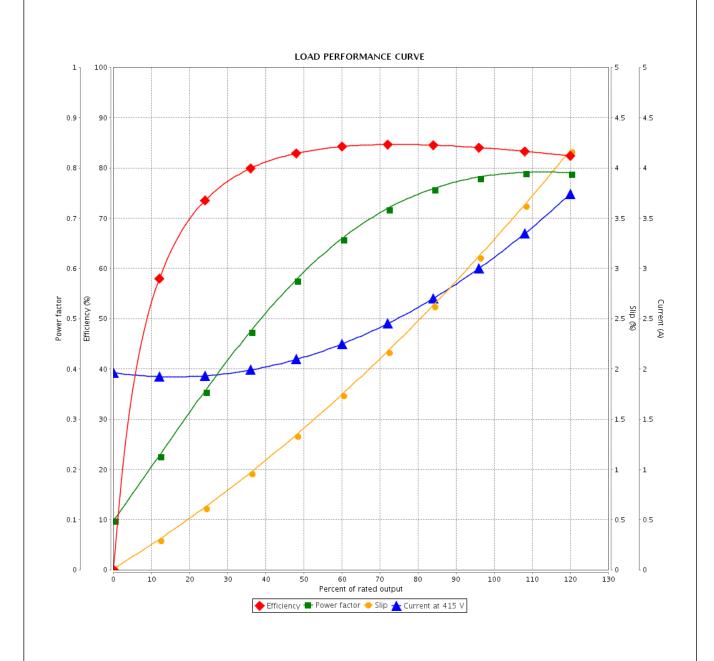
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11416577

Catalog #: 00218ET3E145T-W22



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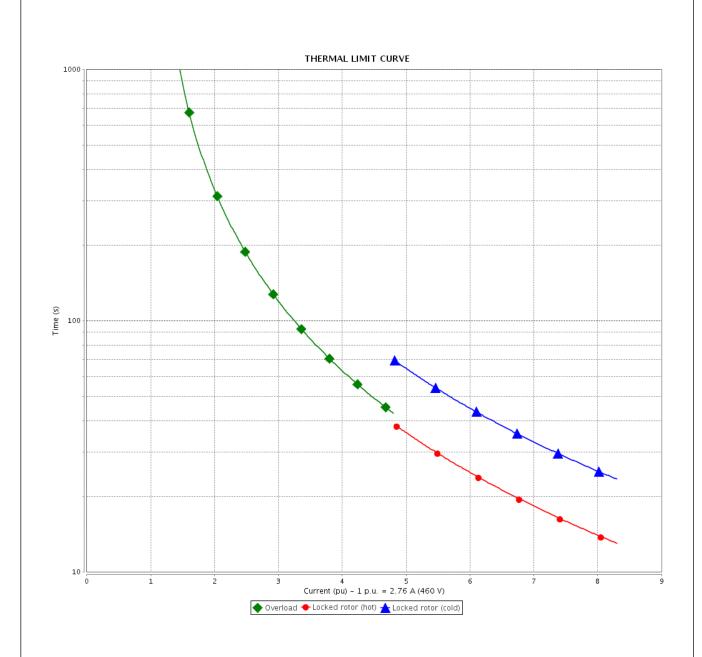


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Product line		W22 NEMA Premium Effici hree-Phase	ency I	Product code :	11416577	
	.,	illee-i ilase	(Catalog # :	00218ET3E1	45T-W22
Performance		30/460 V 60 Hz 4P				
Rated current LRC	: 5. : 8.	.52/2.76 A .3	Moment of Duty cycle	f inertia (J)	: 0.1561 sq.ft.l : Cont.(S1)	b
Rated torque	: 6.	.00 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		70 % 20 %	Service far Temperatu		: 1.25 : 80 K	
Rated speed		755 rpm	Design		: B	
Heating constant						
Cooling constant		Changes Commercial		Dorform	Charles -	Data
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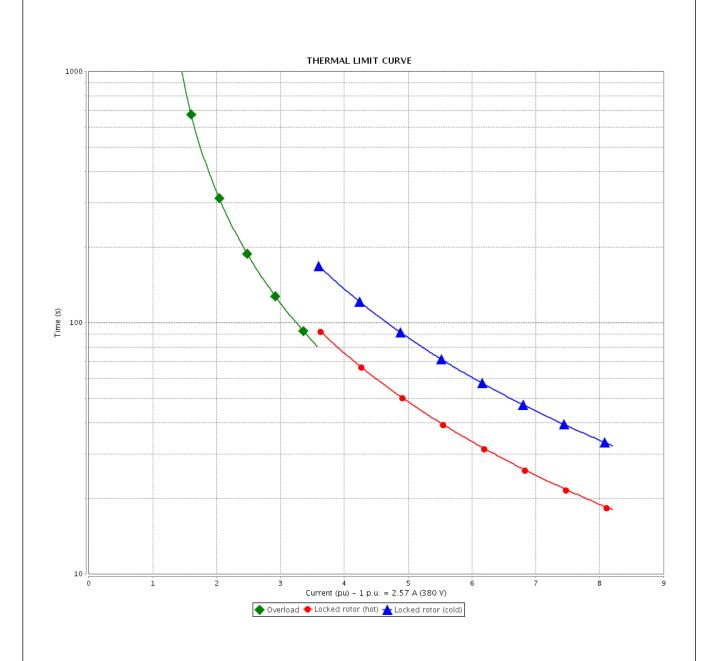


Customer		:				
Product line		: W22 NEMA Premium Effici Three-Phase	ency	Product code :	11416577	
		Three-Phase		Catalog # :	00218ET3E1	45T-W22
Performance		: 380 V 50 Hz 4P IE3				
Rated current		: 2.57 A	Moment of	of inertia (J)	: 0.1561 sq.ft.l	b
LRC	:	: 8.2	Duty cycle	Э	: Cont.(S1)	
Rated torque Locked rotor torc		: 5.40 ft.lb : 290 %	Insulation Service fa		: F : 1.25	
Breakdown torqu	ie :	: 330 %	Temperat		: 80 K	
Rated speed		: 1460 rpm	Design		: B	
Heating constant						
Cooling constant	t ·					
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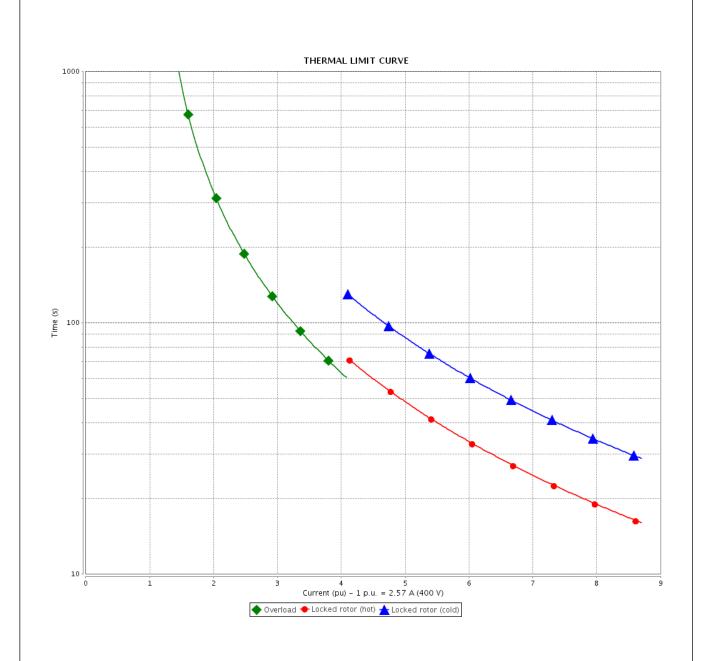


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Product line		· W/22 NEMA Promium Effici	onov	Product code :	11/16577	
Product line		: W22 NEMA Premium Effici Three-Phase			11416577	
				Catalog # :	00218ET3E1	45T-W22
Performance		: 400 V 50 Hz 4P IE3				
Rated current		: 2.57 A	Moment of	of inertia (J)	: 0.1561 sq.ft.l	b
LRC		: 8.7	Duty cycle	Э	: Cont.(S1)	
Rated torque Locked rotor torc		: 5.38 ft.lb : 320 %	Insulation Service fa		: F : 1.25	
Breakdown torqu	ie	: 380 %	Temperat		: 80 K	
Rated speed		: 1465 rpm	Design		: B	
Heating constant						
Cooling constant	t					
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Three Phase Induction Motor - Squirrel Cage



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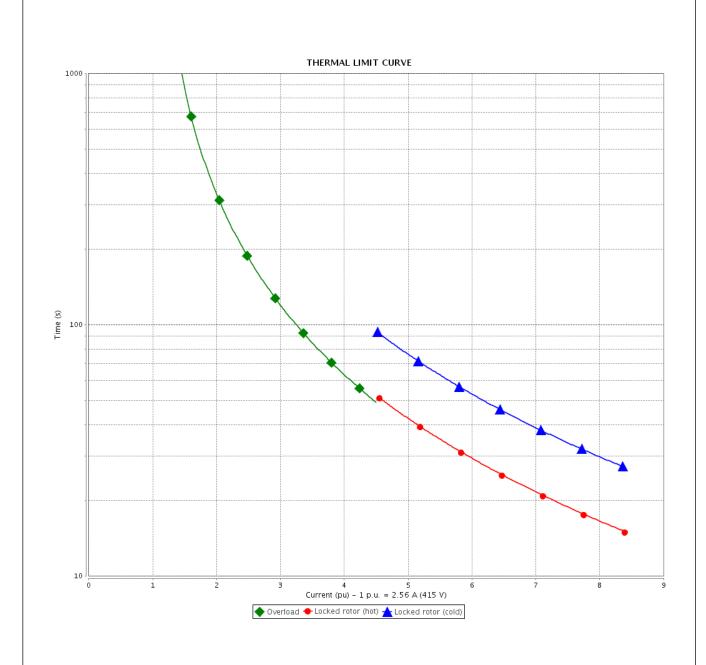


Customer		:				
Product line		: W22 NEMA Premium Efficie Three-Phase		Product code : Catalog # :	11416577 00218ET3E1	45T-W22
Performance		: 415 V 50 Hz 4P IE3				
Rated current		: 2.56 A	Moment o	f inertia (J)	: 0.1561 sq.ft.ll)
LRC	:	: 8.4	Duty cycle	;	: Cont.(S1)	
Rated torque Locked rotor tord		: 5.38 ft.lb : 350 %	Insulation Service fa		: F : 1.25	
Breakdown torqu Rated speed	ie :	: 409 % : 1465 rpm	Temperatu Design		: 80 K : B	
Heating constant		100 Ipin	Design		. 5	
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



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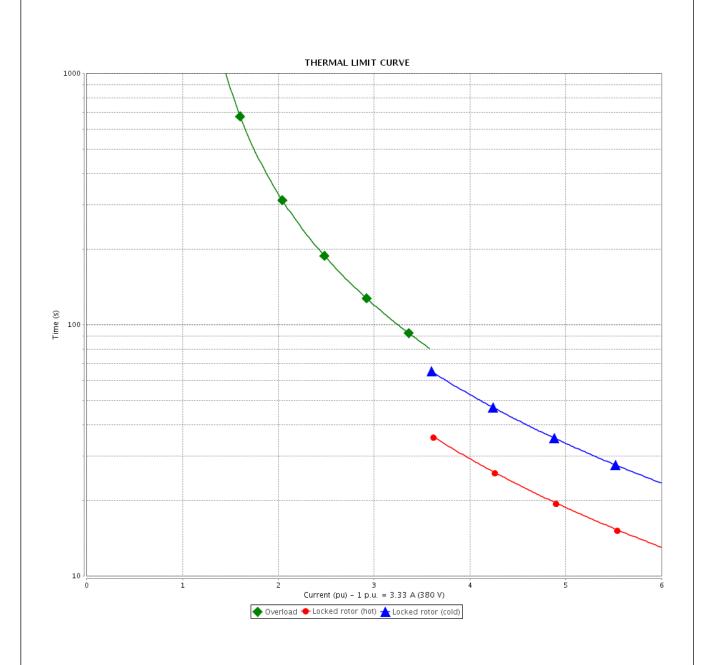


Customer	:	:				
Decide (IP)		MOO NEMA Description Emilia		D	44440577	
Product line		: W22 NEMA Premium Efficie Three-Phase	ency	Product code :	11416577	
			1	Catalog # :	00218ET3E1	45T-W22
Performance		380 V 50 Hz 4P IE1				
Rated current LRC		3.33 A 6.0	Moment o Duty cycle	f inertia (J)	: 0.1561 sq.ft.l : Cont.(S1)	b
Rated torque	: 7	7.32 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		220 % 240 %	Service fa Temperatu		: 1.25 : 80 K	
Rated speed		1435 rpm	Design	ire rise	: B	
Heating constan	 t					
Cooling constant						
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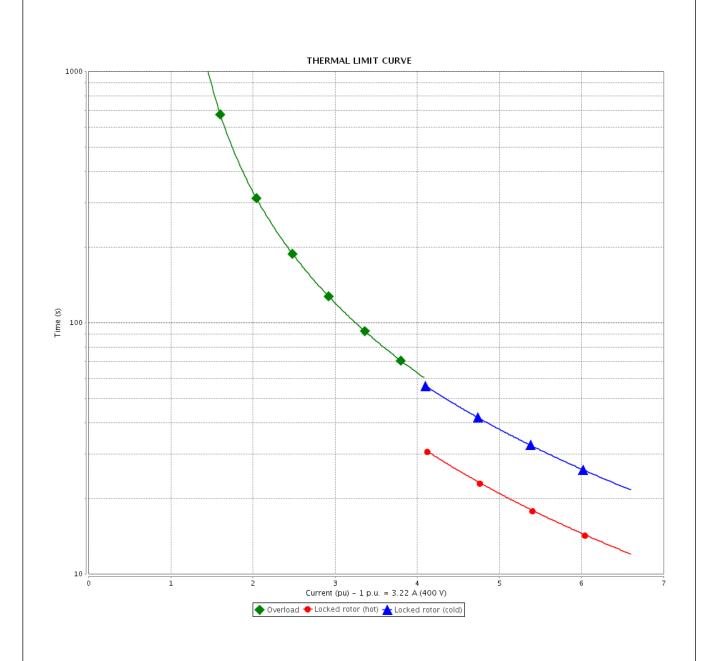


Customer	:			
Product line	: W22 NEMA Premium Effici Three-Phase			44ET 1000
		Catalog # :	00218ET3E	145T-W22
Performance	: 400 V 50 Hz 4P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.22 A : 6.6 : 7.29 ft.lb : 229 % : 260 % : 1440 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.1561 sq.ft : Cont.(S1) : F : 1.25 : 80 K : B	lb
Heating constant		-		
Cooling constant				
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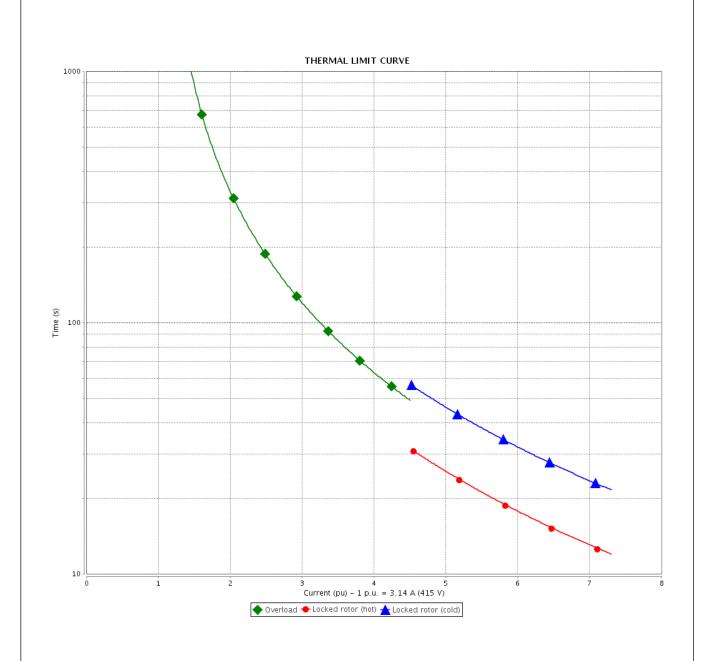


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Product line	<u>:</u>	W22 NEMA Premium Efficie	ency	Product code :	11416577	
	Т	hree-Phase		Catalog # :	00218ET3E1	45T-W22
Performance	· 1	15 V 50 Hz 4P IE2				
Rated current		3.14 A	Moment o	f inertia (J)	: 0.1561 sq.ft.l	b
LRC	: 7	7.3	Duty cycle	;	: Cont.(S1)	
Rated torque		7.24 ft.lb	Insulation		: F	
Locked rotor torq Breakdown torqu		250 % 290 %	Service fa Temperatu		: 1.25 : 80 K	
	ر · م	ا ∪ن.		110 1100		
Rated speed		450 rpm	Design		: B	
Heating constant	: 1		Design		: B	
Heating constant	: 1		Design	Performed	: B	Date
Heating constant Cooling constant Rev.	: 1	450 rpm	Design	Performed		Date
Heating constant	: 1	450 rpm	Design	Performed		Date Revision

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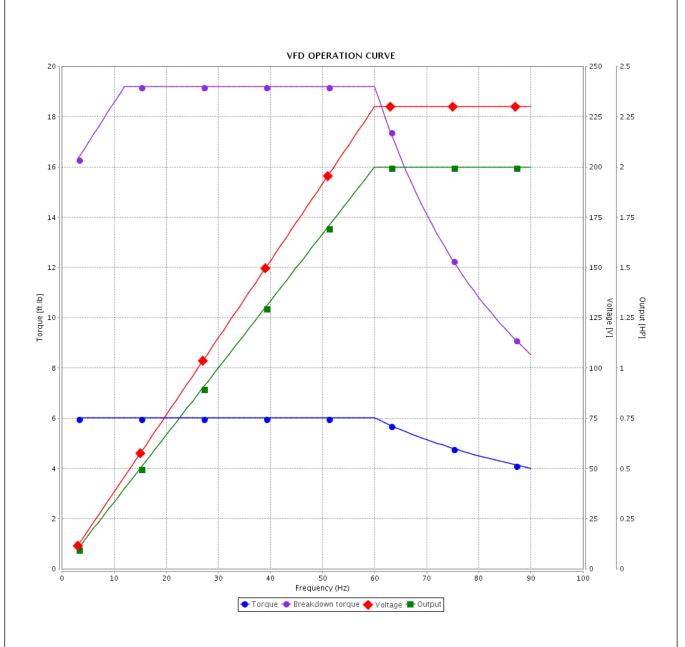
Product line : W22 NEMA Premium Efficiency

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Performance	: 230/460 V 60 Hz 4P				
Rated current LRC	: 5.52/2.76 A : 8.3	Moment of inertia (J) Duty cycle		: 0.1561 sq.ft. : Cont.(S1)	lb
Rated torque Locked rotor torque Breakdown torque	: 6.00 ft.lb : 270 % : 320 %	Insulation class Service factor Temperature rise		: F : 1.25 : 80 K	
Rated speed	: 1755 rpm	Design		: B	
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Product line : W22 NEMA Premium Efficiency Product

Three-Phase

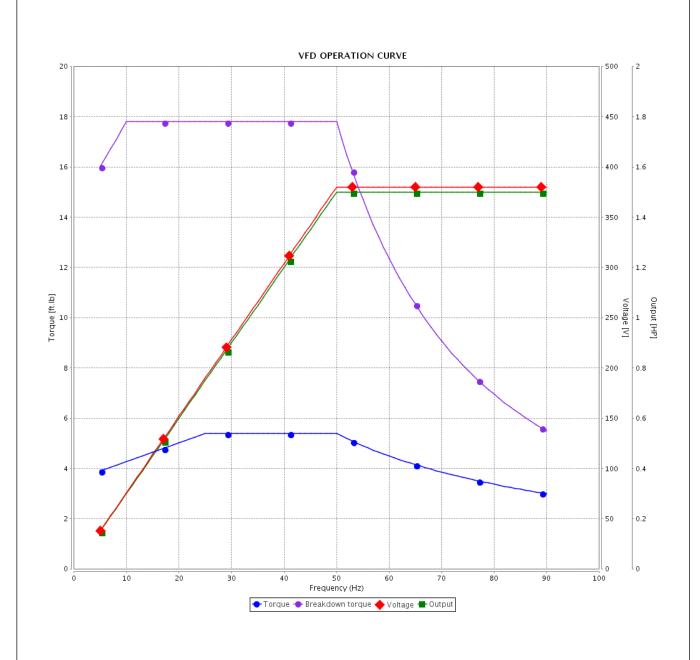
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Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torqu Breakdown torque Rated speed		: 8.2 Duty cycle : 5.40 ft.lb Insulation class : 290 % Service factor : 330 % Temperature rise		: 0.1561 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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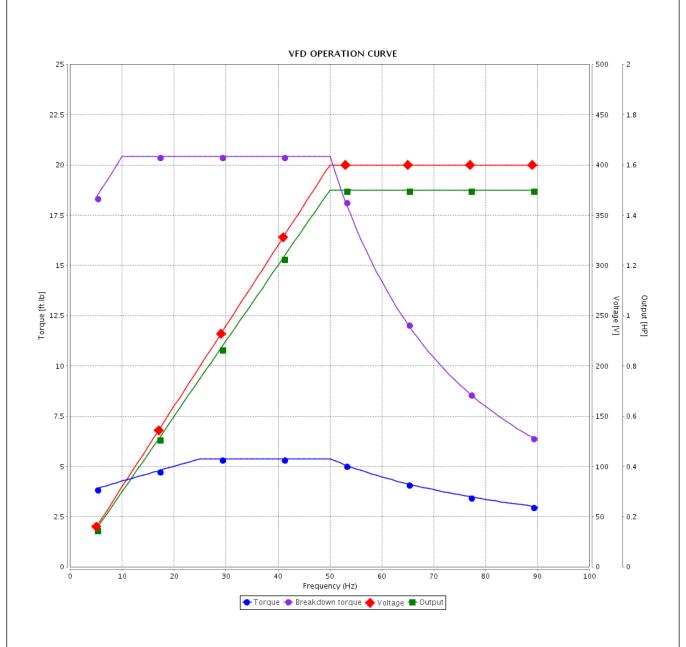
Product line : W22 NEMA Premium Efficiency

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Performance	: 400 V 50 Hz 4P IE3						
Rated current	: 2.57 A	Moment of inertia (J)		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		: 80 K			
Rated speed	: 1465 rpm	Design		: B			
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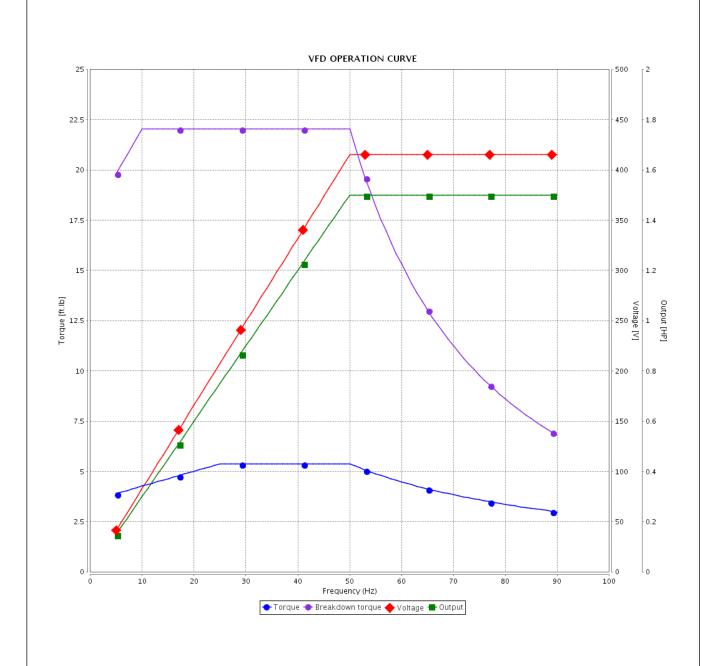
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11416577

Catalog #: 00218ET3E145T-W22



Performance	: 4	: 415 V 50 Hz 4P IE3				
Rated current	: 2	: 2.56 A		Moment of inertia (J)		lb
LRC	: 8	.4	Duty cycle)	: Cont.(S1)	
Rated torque	: 5	.38 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 3	50 %	Service fa	ctor	: 1.25	
Breakdown torque	: 4	09 %	Temperature rise		: 80 K	
Rated speed	: 1465 rpm Design			: B		
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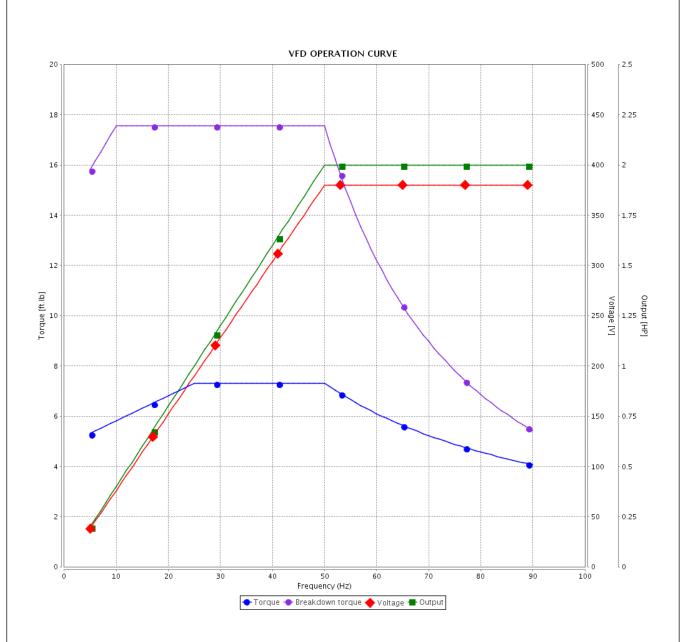
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Performance	: 380 V 50 Hz 4P IE1				
Rated current : 3.33 A		Moment of inertia (J)		: 0.1561 sq.ft.lb	
LRC	: 6.0	Duty cycle	!	: Cont.(S1)	
Rated torque	: 7.32 ft.lb	Insulation	class	: F	
Locked rotor torque	: 220 %	Service fa	ctor	: 1.25	
Breakdown torque	: 240 %	Temperature rise		: 80 K	
Rated speed	: 1435 rpm	Design		: B	
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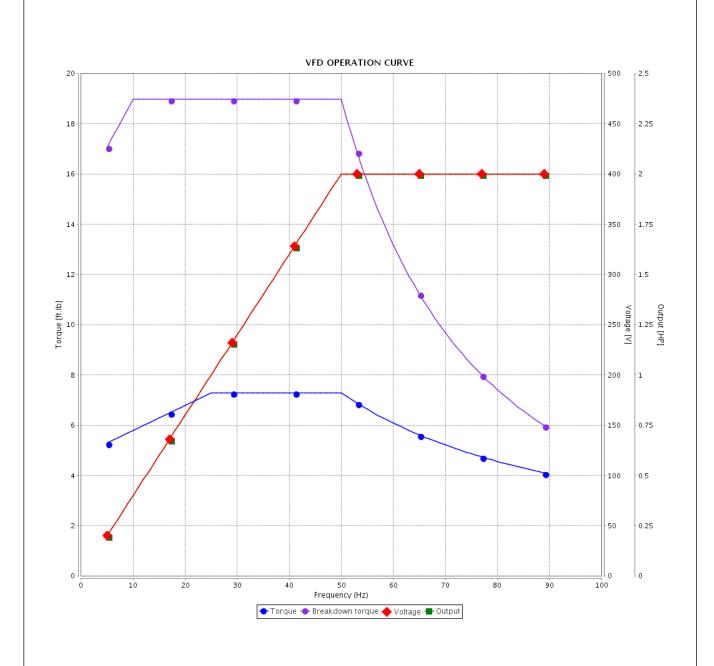
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Product line : W22 NEMA Premium Efficiency

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Performance	: 4	00 V 50 Hz 4P IE2				
Rated current	: 3	: 3.22 A Mor		f 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 torqu	e : 2	29 %	Service fa	ctor	: 1.25	
Breakdown torque	: 2	60 %	% Temperature rise		: 80 K	
Rated speed	eed : 1440 rpm		Design		: B	
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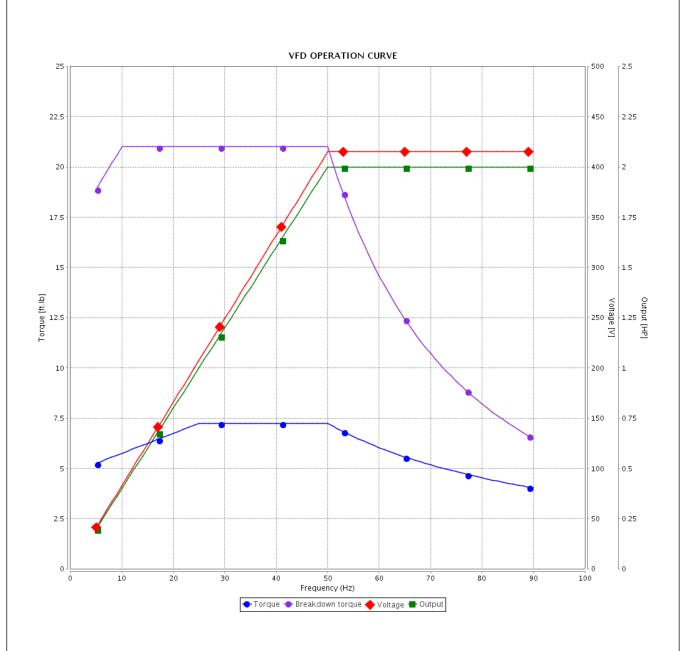
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11416577

Catalog #: 00218ET3E145T-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 Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.1561 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
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