DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11437961

Three-Phase

Catalog #: 01018ET3E215T-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 : 176 lb
Protection degree : IP55 Moment of inertia (J) : 1.51 sq.ft.lb

, untado			O	, .pp. 0,				
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]		230/460	380	400	415	380	400	415
Rated current [A]		24.8/12.4	11.2	11.0	10.9	15.0	14.2	13.8
L. R. Amperes [A]		159/79.4	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]		11.3/5.65	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
Liliciency (70)	75%	91.7	90.0	89.9	89.8	90.2	90.2	90.2
	100%	91.7	89.8	90.1	90.3	88.5	89.5	90.2
	25%	0.40	0.37	0.34	0.32	0.46	0.43	0.40
Power Factor	50%	0.66	0.62	0.58	0.55	0.73	0.69	0.66
1 OWEL FACIOI	75%	0.77	0.76	0.73	0.70	0.82	0.80	0.78
	100%	0.83	0.83	0.80	0.78	0.86	0.85	0.84

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

Bearing type : 6308 ZZ 6207 ZZ Max. traction : 460 lb Sealing : V'Ring V'Ring Max. compression : 636 lb Lubrication interval : -

Lubricant amount : - - Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 27.4A SF 1.15 SFA 31.5A

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



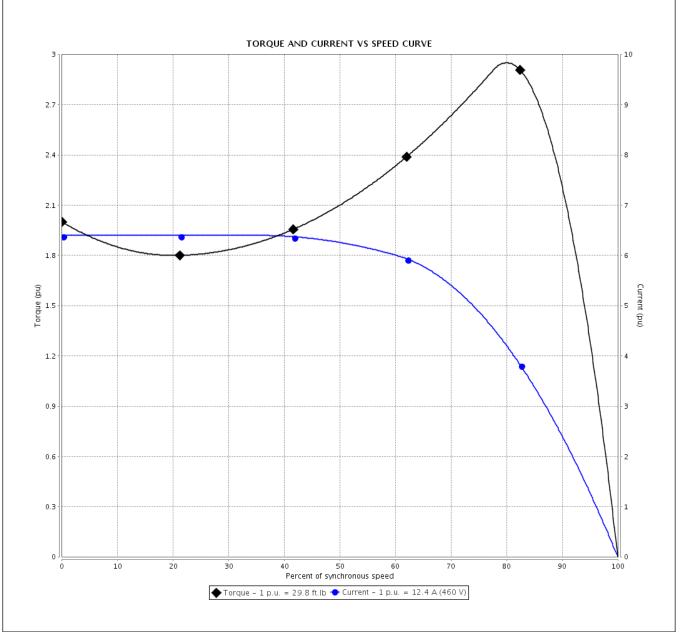
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11437961

Catalog #: 01018ET3E215T-W22



: 230/460 V 60 Hz 4P Performance Rated current : 24.8/12.4 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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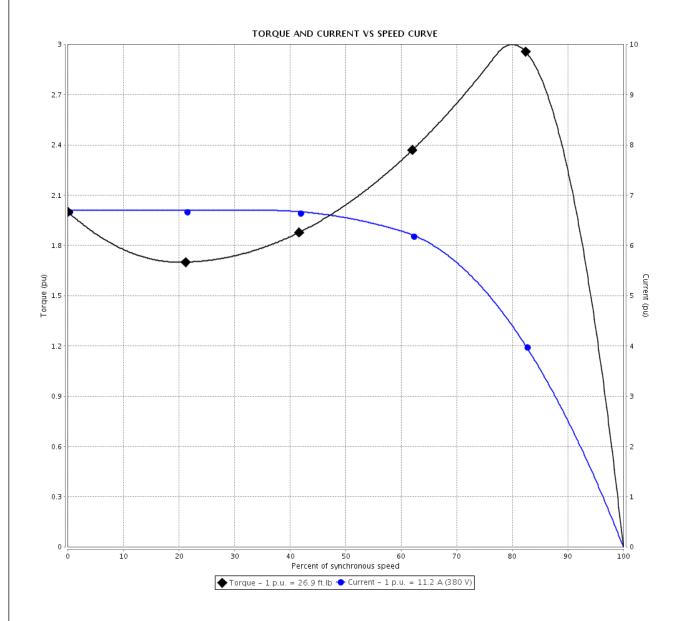
Customer

Product line : W22 NEMA Premium Efficiency Product code:

Three-Phase

11437961

Catalog #: 01018ET3E215T-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) : 26.9 ft.lb Insulation class Rated torque : 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)

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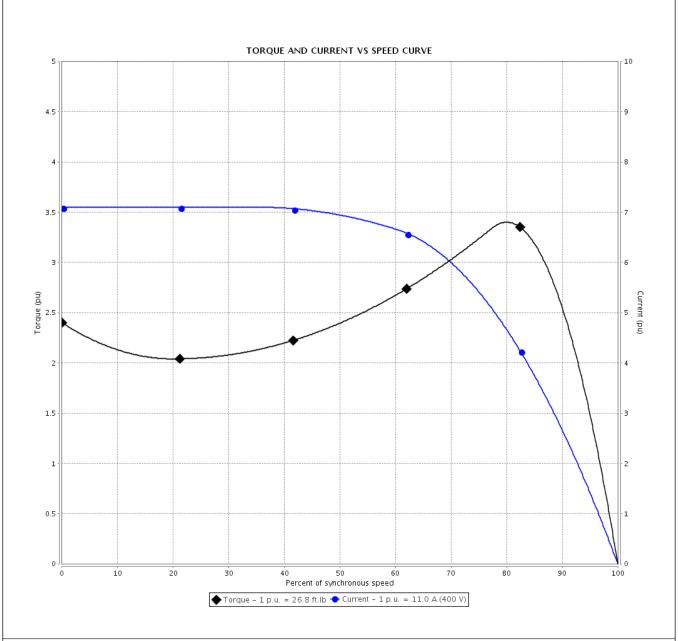
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11437961

Catalog #: 01018ET3E215T-W22



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

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

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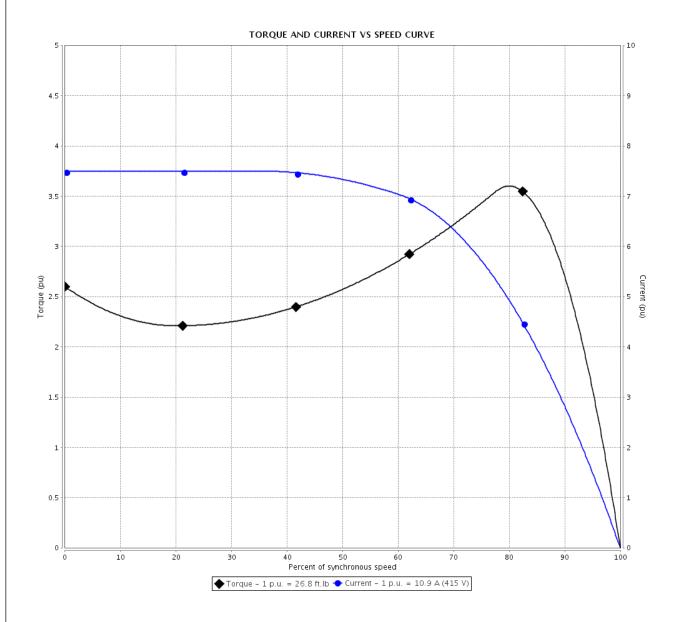
Customer

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11437961

Catalog #: 01018ET3E215T-W22



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

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

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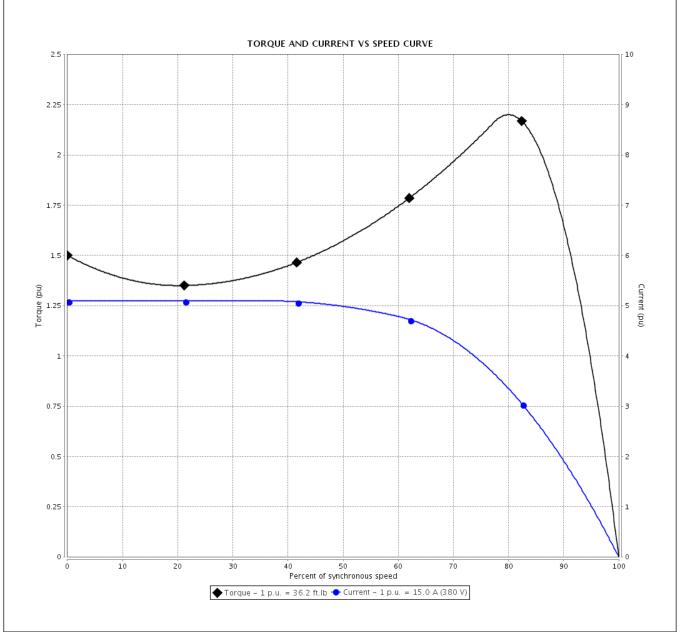
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11437961

Catalog #: 01018ET3E215T-W22



: 380 V 50 Hz 4P IE1 Performance 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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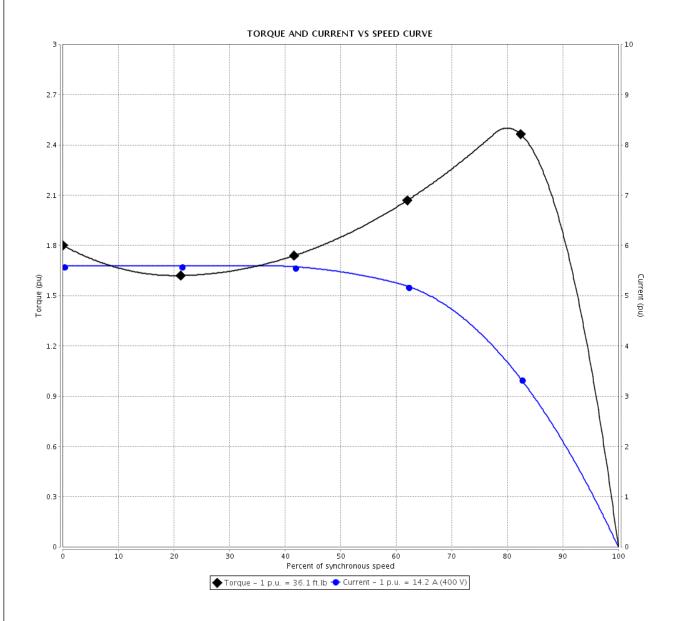
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Three-Phase

Product code: 11437961

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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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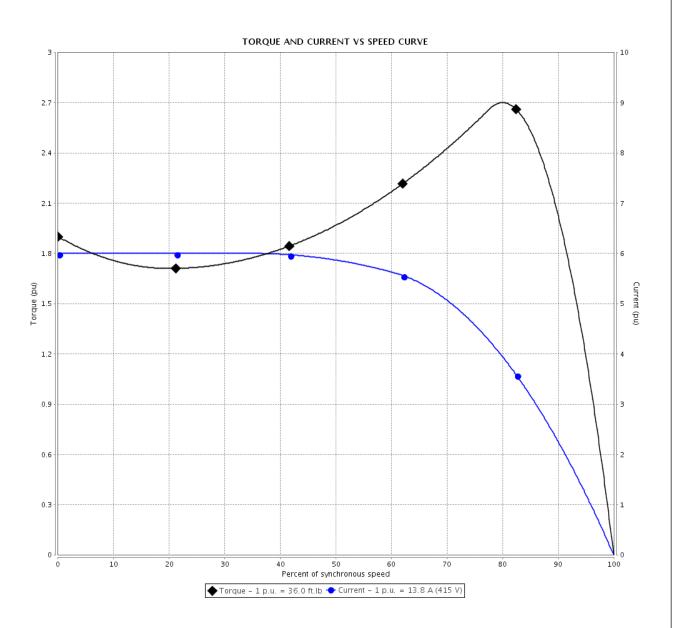
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11437961

Catalog #: 01018ET3E215T-W22



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

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

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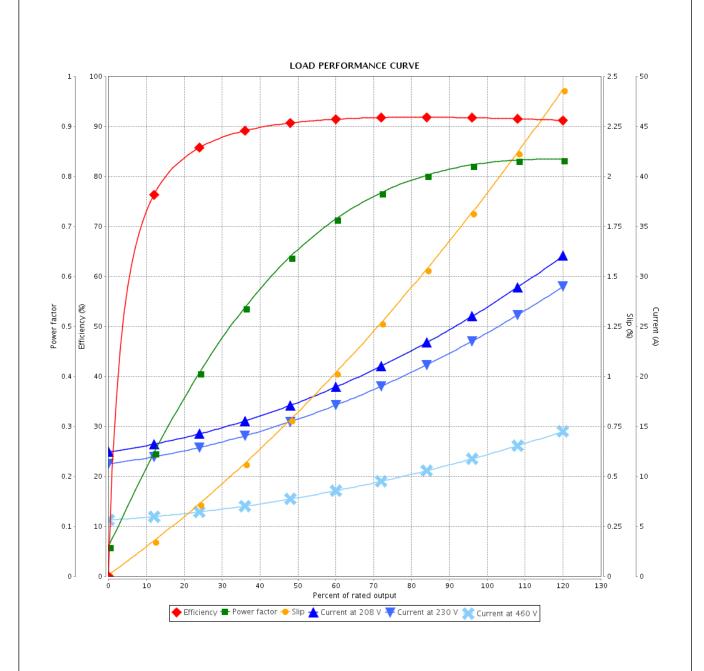
Customer

Product line : W22 NEMA Premium Efficiency Product code : 11437961

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Performance	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 24.8/12.4 A : 6.4 : 29.8 ft.lb : 200 % : 295 % : 1765 rpm	Moment of iner Duty cycle Insulation class Service factor Temperature ri Design	S	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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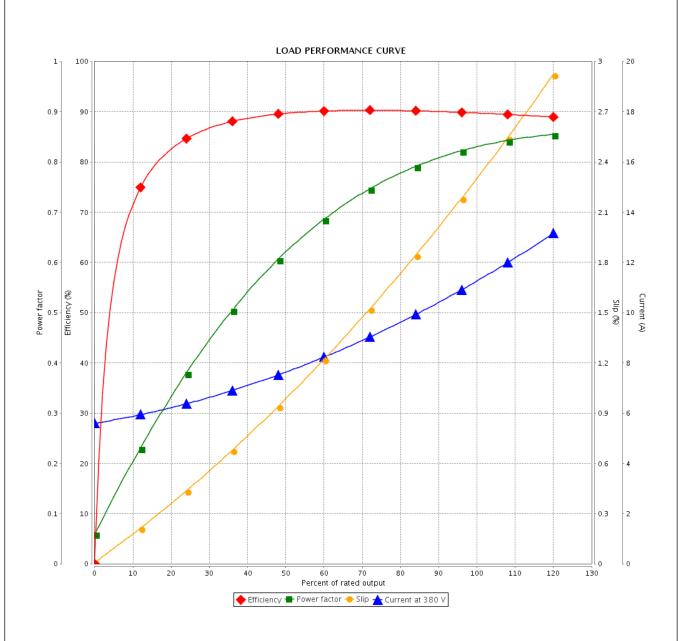
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11437961

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Performance	: 380 V 50 Hz 4P IE3				
Rated current	: 11.2 A	Moment of	f inertia (J)	: 1.51 sq.ft.lb	
LRC	: 6.7	Duty cycle)	: Cont.(S1)	
Rated torque	: 26.9 ft.lb	Insulation	class	: F	
Locked rotor torque	: 200 %	Service fa	ctor	: 1.15	
Breakdown torque	: 300 %	Temperati	ıre rise	: 80 K	
Rated speed	: 1465 rpm	Design		: B	
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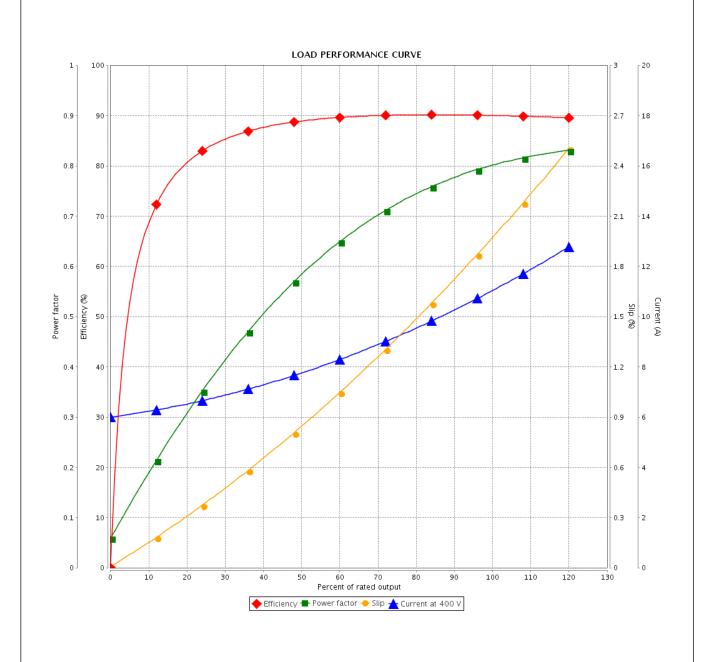
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Three-Phase

Product code: 11437961

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Performance	: 40	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 7: : 2: ie : 2:	5.8 ft.lb Insulation class 40 % Service factor 40 % Temperature rise		: 1.51 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K		
Rated speed	: 1470 rpm		Design	Design		
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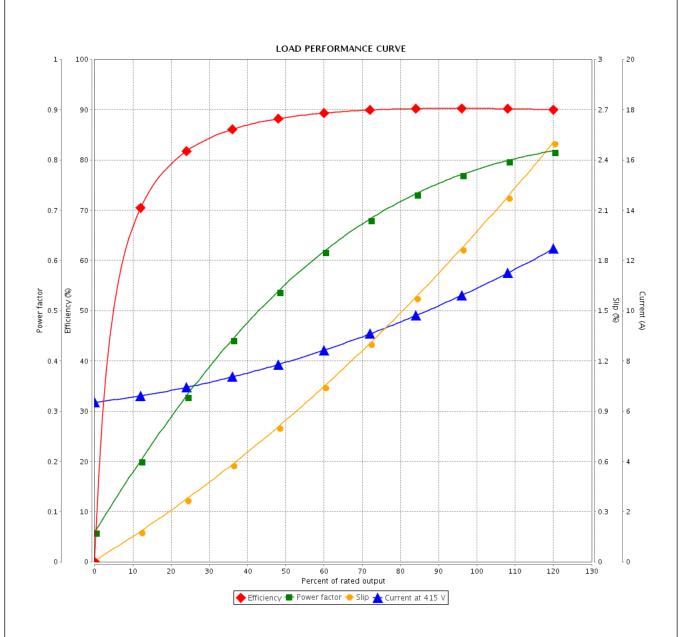
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Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 10.9 A : 7.5 : 26.8 ft.lb : 260 % : 360 % : 1470 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	: Cont.(S1) : F : 1.15 : 80 K	
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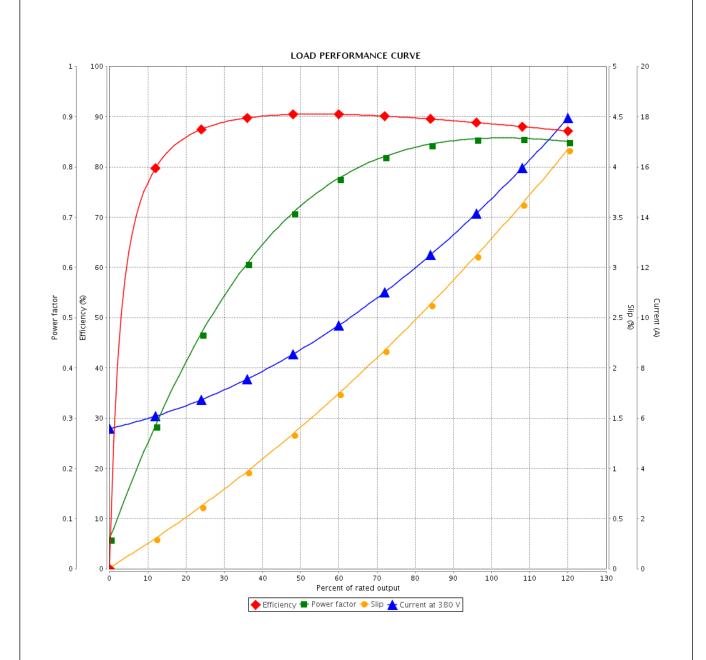
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Product line : W22 NEMA Premium Efficiency Product code :

Three-Phase

roduct code: 11437961

Catalog #: 01018ET3E215T-W22



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

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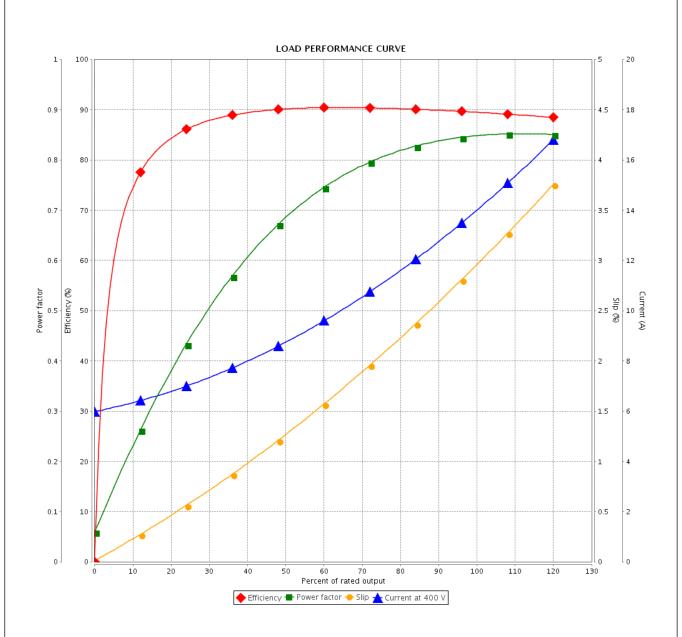
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11437961

Catalog #: 01018ET3E215T-W22



Performance					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.2 A : 5.6 : 36.1 ft.lb : 180 % : 250 % : 1455 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		le : Cont.(S1) n class : F actor : 1.15	
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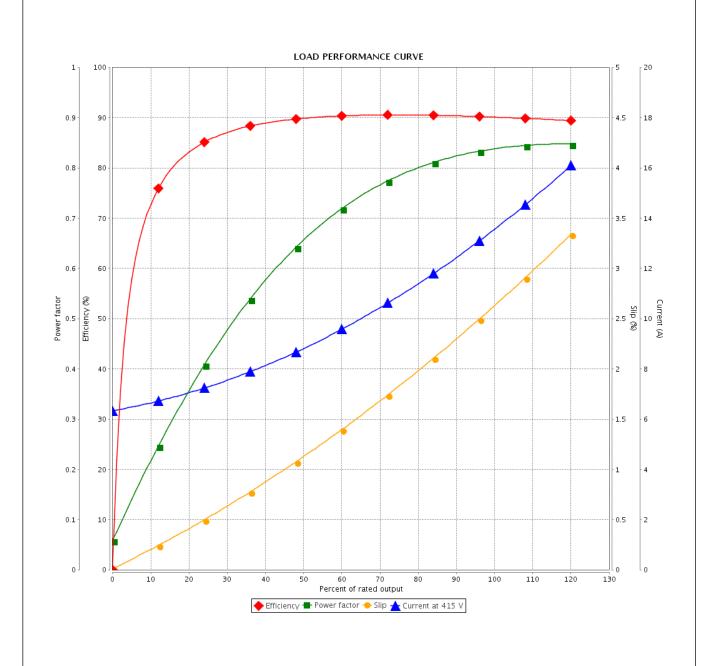
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Product line : W22 NEMA Premium Efficiency Pr

Three-Phase

Product code: 11437961

Catalog #: 01018ET3E215T-W22



Performance	ance : 415 V 50 Hz 4P IE2					
Rated current : 13.8 A		Moment of	f inertia (J)	: 1.51 sq.ft.lb		
LRC	: 6	.0	Duty cycle	;	: Cont.(S1)	
Rated torque	: 3	6.0 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 1	90 %	Service fa	ctor	: 1.15	
Breakdown torque : 270 %		70 %	Temperati	Temperature rise		
Rated speed	: 1	160 rpm Design			: B	
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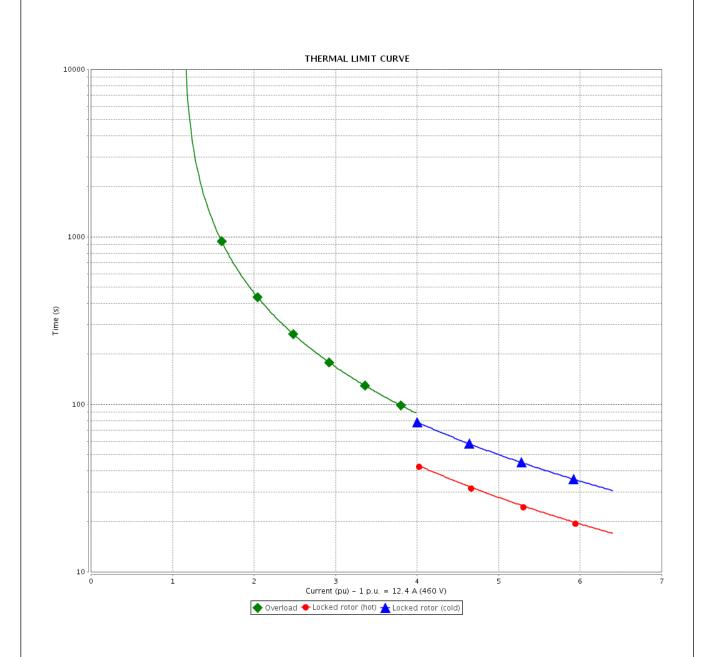


Customer	:				
Product line	: W22 NEMA Premium Efficie Three-Phase	ency I	Product code :	11437961	
			Catalog # :	01018ET3E2	15T-W22
	: 230/460 V 60 Hz 4P : 24.8/12.4 A	Mamonta	finartia (I)	. 1 E1 og ft lb	
LRC	: 6.4	Duty cycle	f inertia (J)	: 1.51 sq.ft.lb : Cont.(S1)	
	: 29.8 ft.lb : 200 %	Insulation Service fa		: F : 1.25	
Breakdown torque	: 295 %	Temperatu		: 80 K	
	: 1765 rpm	Design		: B	
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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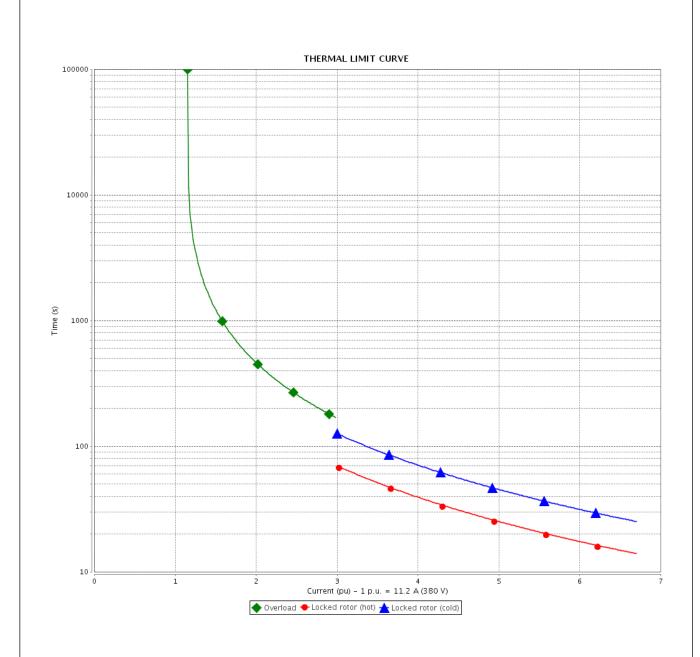


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Product line		N22 NEMA Premium Effici nree-Phase	ency I	Product code :	11437961	
		liee-Filase	(Catalog # :	01018ET3E21	15T-W22
Performance		30 V 50 Hz 4P IE3	Mamonta	finantia (I)	. 4 54 on # 16	
Rated current LRC	: 6.		Duty cycle	f inertia (J)	: 1.51 sq.ft.lb : Cont.(S1)	
Rated torque		6.9 ft.lb	Insulation	class	: F : 1.15	
Locked rotor torque Breakdown torque		00 % 00 %	Service fa		: 1.15 : 80 K	
Rated speed		165 rpm	Design		: B	
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Cooling constant		Changes Commercial		Dorform1	Charles	Data
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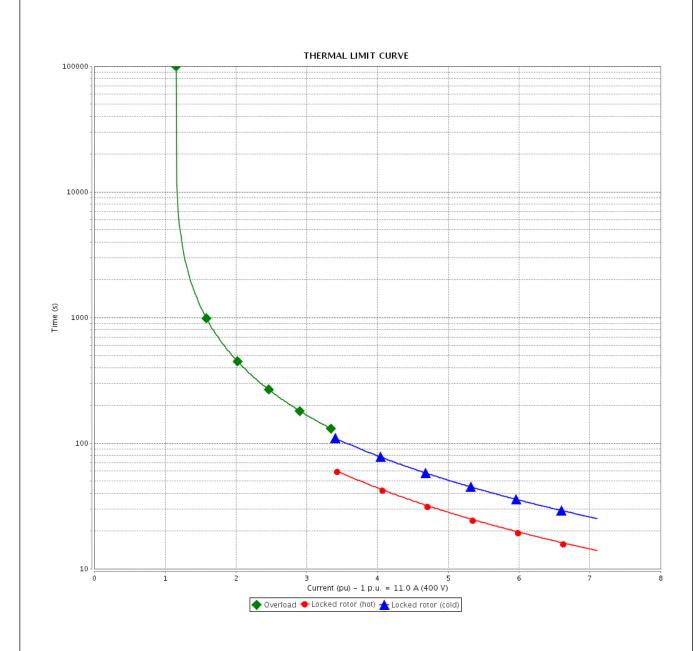


Customer	:				
Product line	: W22 NEMA Premium Three-Phase	Efficiency	Product code :	11437961	
	Tillee-Filase		Catalog # :	01018ET3E2	15T-W22
Denfermen	. 400 \/ 50 \ - 40 \ 50				
Performance Rated current	: 400 V 50 Hz 4P IE3 : 11.0 A	Moment of	of inertia (J)	: 1.51 sq.ft.lb	
LRC	: 7.1	Duty cycl	e	: Cont.(S1)	
Rated torque Locked rotor torque	: 26.8 ft.lb : 240 %	Insulation Service fa		: F : 1.15	
Breakdown torque	: 340 %	Temperat		: 80 K	
Rated speed	: 1470 rpm	Design		: B	
Heating constant Cooling constant					
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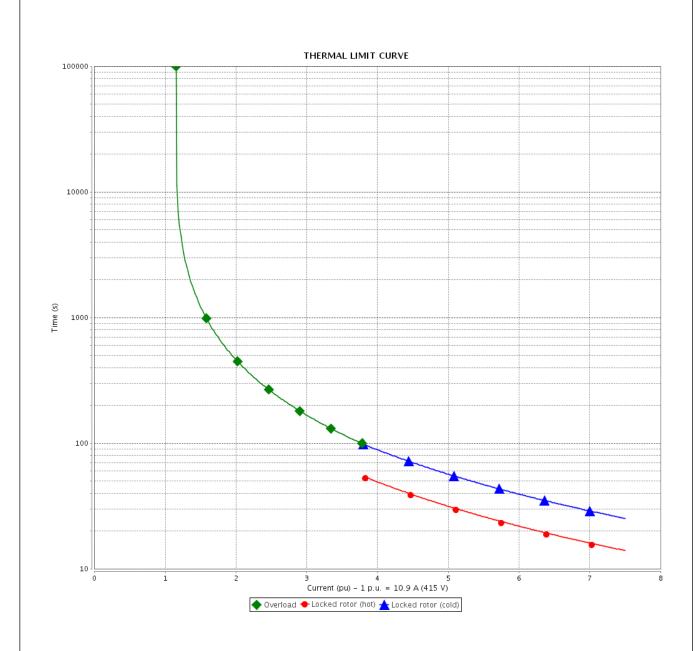


Customer		:				
Product line		: W22 NEMA Premium Efficie Three-Phase		Product code : Catalog # :	11437961 01018ET3E21	5T-W22
Performance	:	415 V 50 Hz 4P IE3				
Rated current LRC Rated torque	:	10.9 A 7.5 26.8 ft.lb	Moment on Duty cycle Insulation		: 1.51 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord	que :	260 %	Service fa	ctor	: 1.15	
Breakdown torqu Rated speed		: 360 % : 1470 rpm	Temperatu Design	ıre rise	: 80 K : B	
Heating constant						
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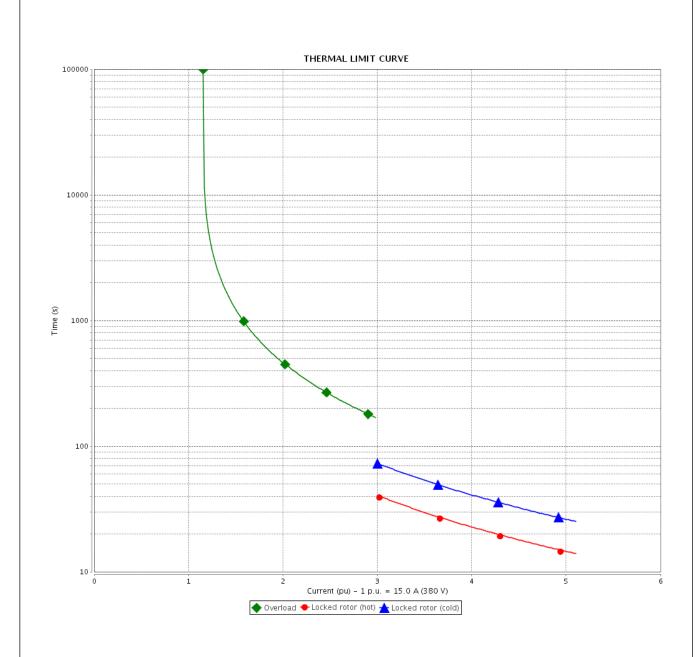


Customer		:				
Product line		: W22 NEMA Premium Effici Three-Phase	ency	Product code :	11437961	
		THICC-I Hasc		Catalog # :	01018ET3E21	15T-W22
Performance		: 380 V 50 Hz 4P IE1				
Rated current		: 15.0 A	Moment o	of inertia (J)	: 1.51 sq.ft.lb	
LRC Rated torque		: 5.1 : 36.2 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que :	: 150 %	Service fa	actor	: 1.15	
Breakdown torqu		: 220 % : 1450 rpm	Temperat	ure rise	: 80 K : B	
Rated speed		. 1 10 0 (pii)	Design			
Heating constant Cooling constant						
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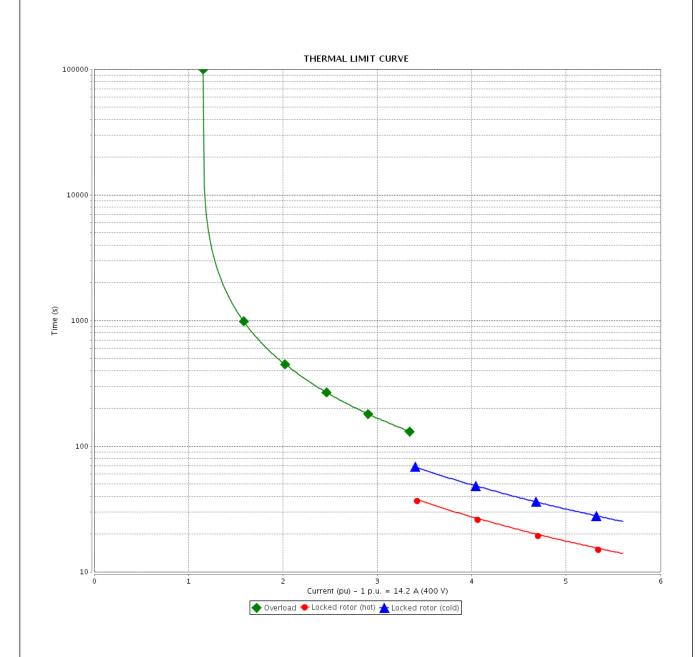


Customer	:					
Product line	:	W22 NEMA Premium Efficion Three-Phase		Product code :	11437961 01018ET3E2	15T-W22
Performance		400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: (: (ue : : e : :	14.2 A 5.6 36.1 ft.lb 180 % 250 % 1455 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant						
Cooling constant		Changes Cummani		Dorformad	Charkad	Doto
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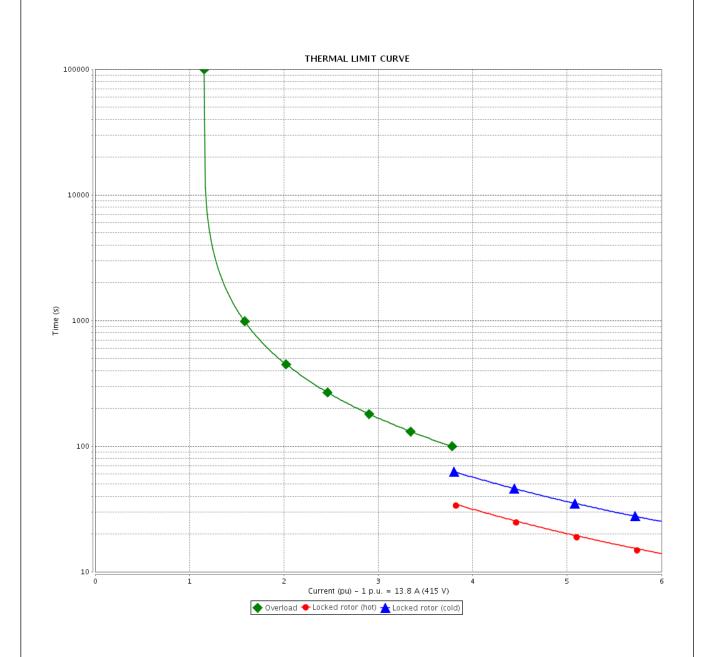


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Product line	:	W22 NEMA Premium Efficie Three-Phase		Product code :	11437961 01018ET3E2 ²	15T-W22
				Jatalog # :	01018E13E2	151-W22
Performance	: 4	415 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6 : 3 ue : 7 e : 2	13.8 A 6.0 36.0 ft.lb 190 % 270 % 1460 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant Cooling constant						
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Customer :

Date

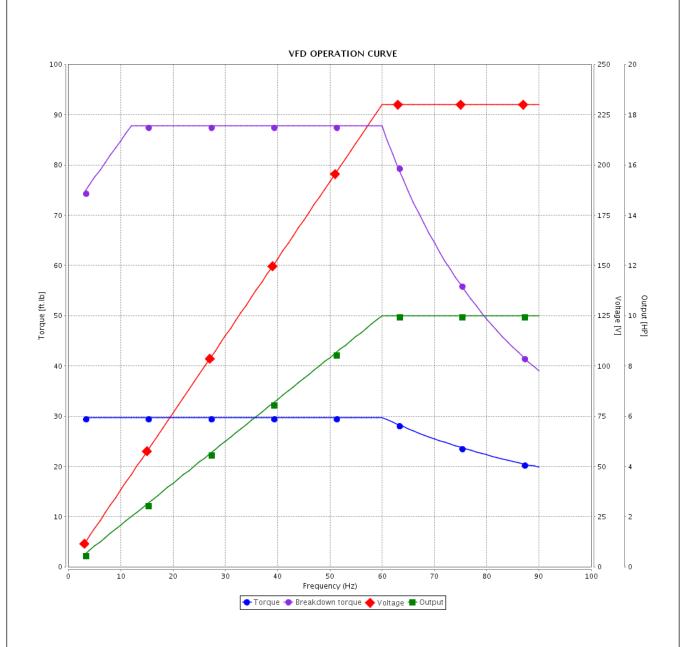
22/03/2021

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11437961

Catalog #: 01018ET3E215T-W22



Performance : 230/460 V 60 Hz 4P Rated current : 24.8/12.4 A Moment of inertia (J) : 1.51 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 29.8 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 295 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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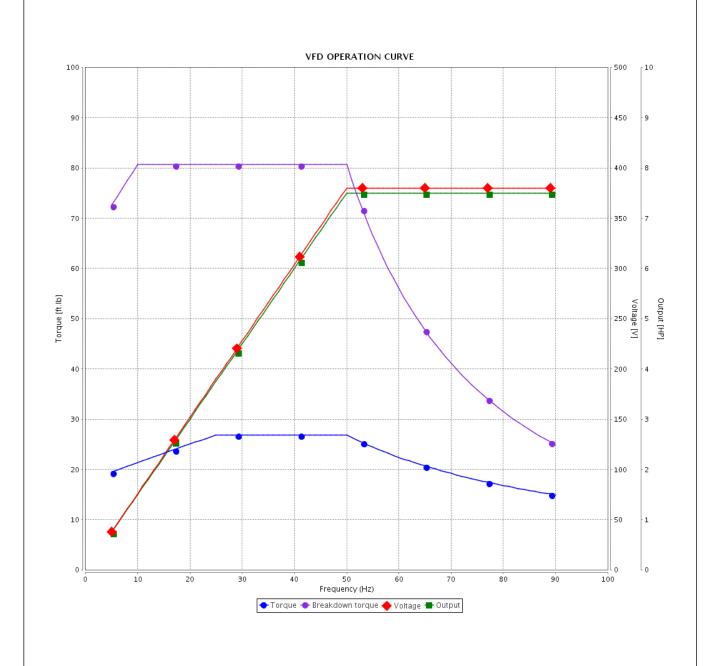
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11437961

Catalog #: 01018ET3E215T-W22



Performance	: 3	80 V 50 Hz 4P IE3				
Rated current : 11.2 A		Moment of	Moment of inertia (J)			
LRC	: 6	.7	, ,		: Cont.(S1)	
Rated torque	: 2	6.9 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2	00 %	Service fa	ctor	: 1.15	
Breakdown torque			ure rise	: 80 K		
Rated speed	: 1	465 rpm	Design		: B	
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Product line : W22 NEMA Premium Efficiency

Three-Phase

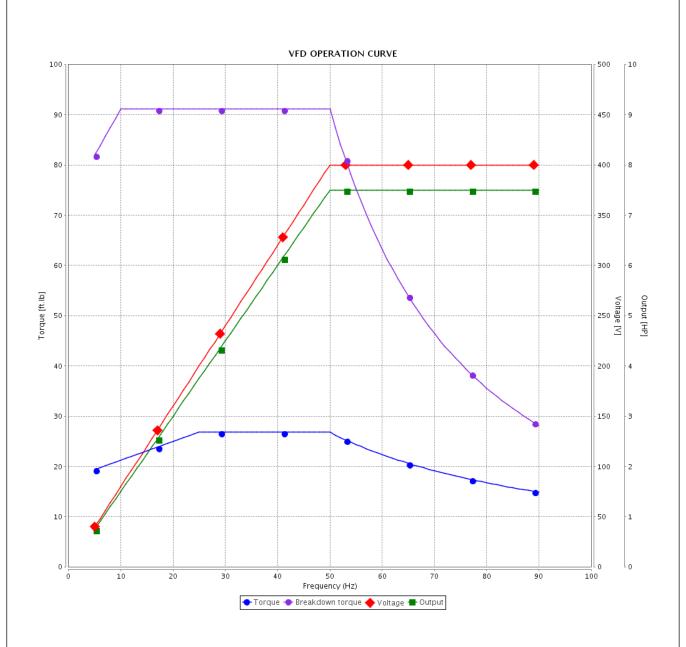
Product code: 11437961

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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



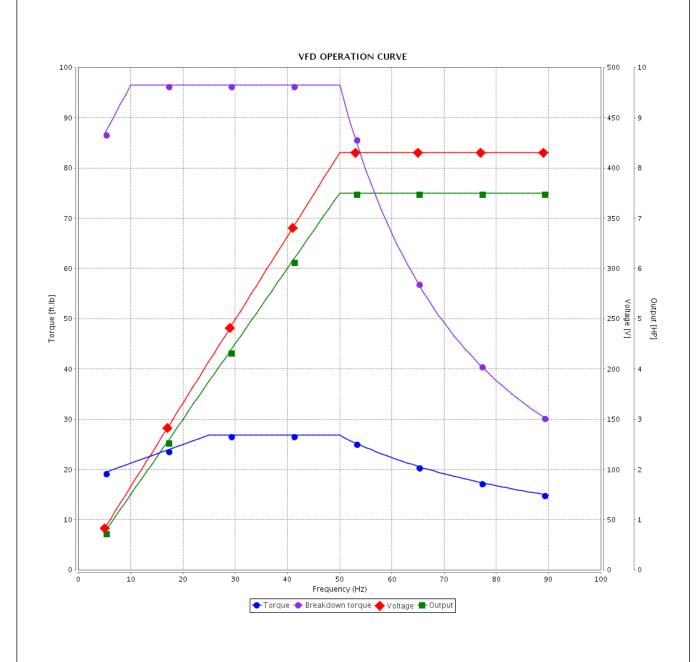
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Product line : W22 NEMA Premium Efficiency P

Three-Phase

Product code: 11437961

Catalog #: 01018ET3E215T-W22



Performance	: 415 V 50 Hz 4P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 10.9 A : 7.5 : 26.8 ft.lb : 260 % : 360 % : 1470 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		Duty cycle : Cont.(S1) B ft.lb Insulation class : F Service factor : 1.15 Temperature rise : 80 K		
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Three Phase Induction Motor - Squirrel Cage



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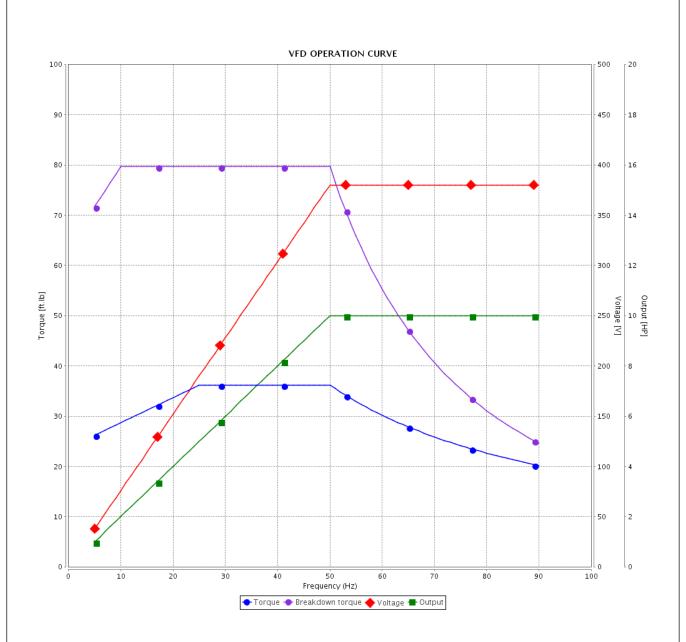
22/03/2021

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11437961

Catalog #: 01018ET3E215T-W22



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 Page Checked by Revision

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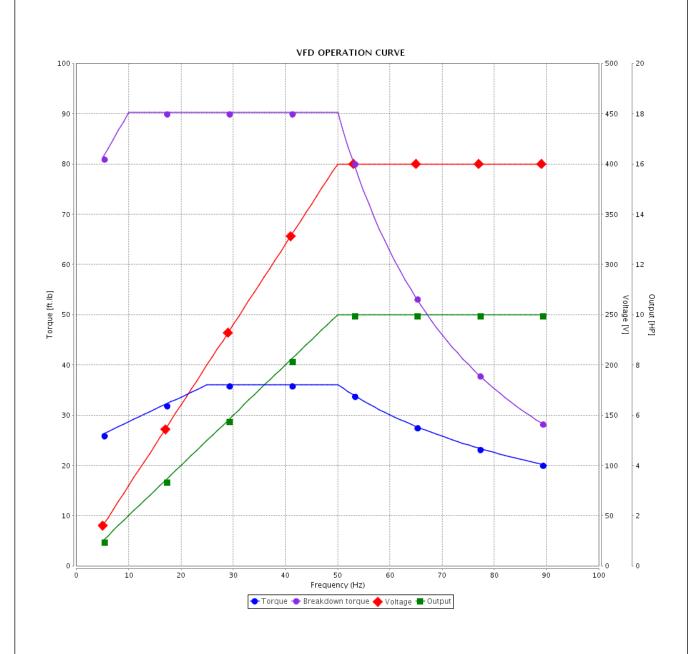
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Product line : W22 NEMA Premium Efficiency Produ

Three-Phase

Product code: 11437961

Catalog #: 01018ET3E215T-W22



Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.2 A : 5.6 : 36.1 ft.lb : 180 % : 250 % : 1455 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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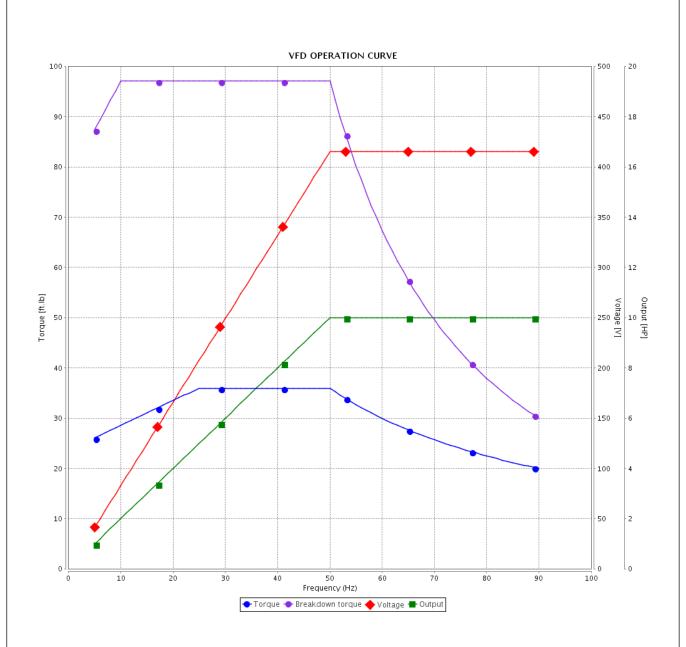
22/03/2021

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11437961

Catalog #: 01018ET3E215T-W22



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

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