DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11437961

Catalog #: 01018ET3E215T-W22

Frame : 213/5T Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) : -20°C to +40°C Ambient temperature Starting method : Direct On Line

: 1000 m.a.s.l. Altitude Approx. weight3 : 177 lb

Ailliude		. 1000 III.a.	5.1.	Approx	. weignt		77 10	
Protection degre	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	No load current [A]		5.60	6.00	6.35	5.60	6.00	6.35
Rated speed [RPM]		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]	Rated torque [ft.lb]		26.9	26.8	26.8	36.2	36.1	36.0
Locked rotor torqu		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
Lilloleticy (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

0.83 0.83 0.80 0.78 Non drive end Drive end Foundation loads

0.58

0.73

0.55

0.70

6308 ZZ Bearing type 6207 ZZ Max. traction : 459 lb Sealing V'Ring V'Ring : 636 lb Max. compression Lubrication interval

0.62

0.76

Lubricant amount Lubricant type Mobil Polyrex EM

0.66

0.77

Notes

Power Factor

USABLE @208V 27.4A SF 1.15 SFA 31.5A

50%

75%

100%

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

0.73

0.82

0.86

0.69

0.80

0.85

0.66

0.78

0.84

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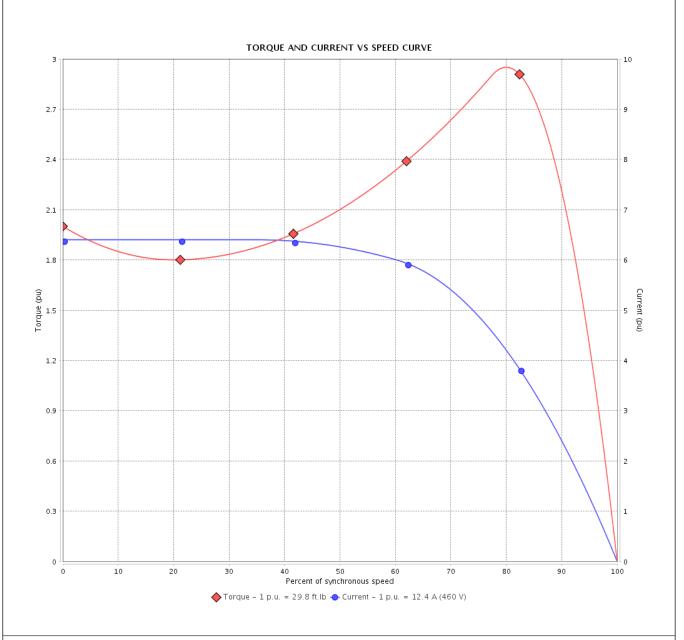
Customer :

Product line : 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 Service factor Locked rotor torque : 200 % : 1.25 Breakdown torque : 295 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B

Locked rotor time : 30s (cold) 17s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11437961 Catalog #: 01018ET3E215T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 26.9 ft.lb ◆ Current - 1 p.u. = 11.2 A (380 V)

Performance : 380 V 50 Hz 4P IE3 Rated current : 11.2 A Moment of inertia (J) : 1.51 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 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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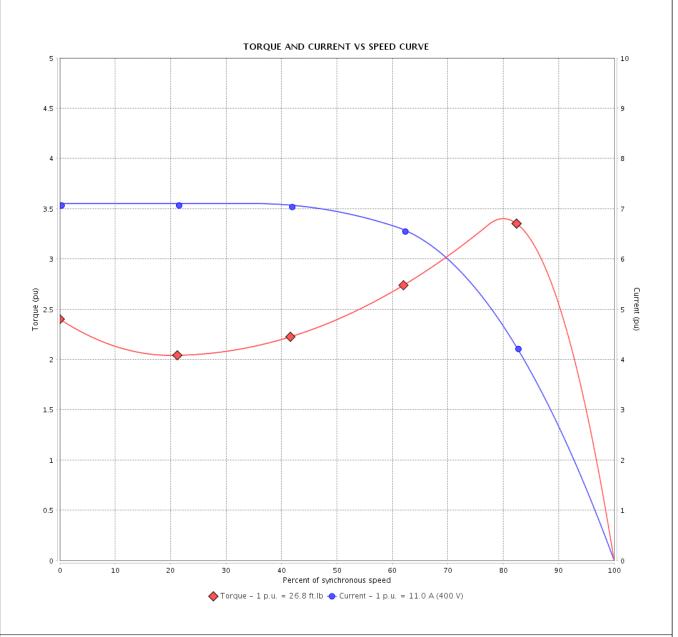


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11437961

Phase

Catalog #: 01018ET3E215T-W22



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

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

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11437961 01018ET3E215T-W22 Catalog #: TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) 40 50 6. Percent of synchronous speed ◆ Torque - 1 p.u. = 26.8 ft.lb ◆ Current - 1 p.u. = 10.9 A (415 V) Performance : 415 V 50 Hz 4P IE3 : 10.9 A Rated current Moment of inertia (J) : 1.51 sq.ft.lb

LRC Rated torque Locked rotor torq Breakdown torqu Rated speed Locked rotor time	ue : 26 e : 36 : 14	5 6.8 ft.lb 60 % 60 % 470 rpm 5s (cold) 14s (ho	Duty cycle Insulation class Service factor Temperature rise Design ot)		: Cont.(S1) : F : 1.15 : 80 K : B		
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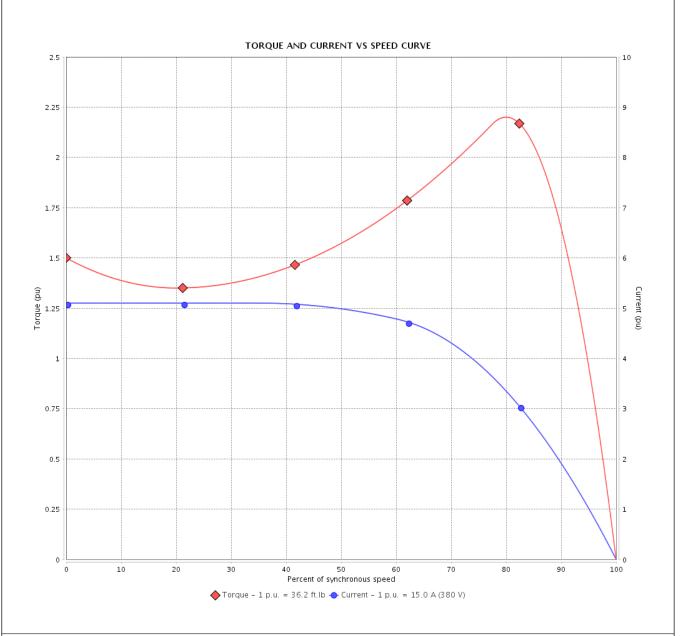
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11437961

Catalog #: 01018ET3E215T-W22



Performance : 380 V 50 Hz 4P IE1 Rated current : 15.0 A Moment of inertia (J) : 1.51 sq.ft.lb **LRC** : 5.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 36.2 ft.lb : F Service factor Locked rotor torque : 150 % : 1.15 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 1450 rpm Design : B

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

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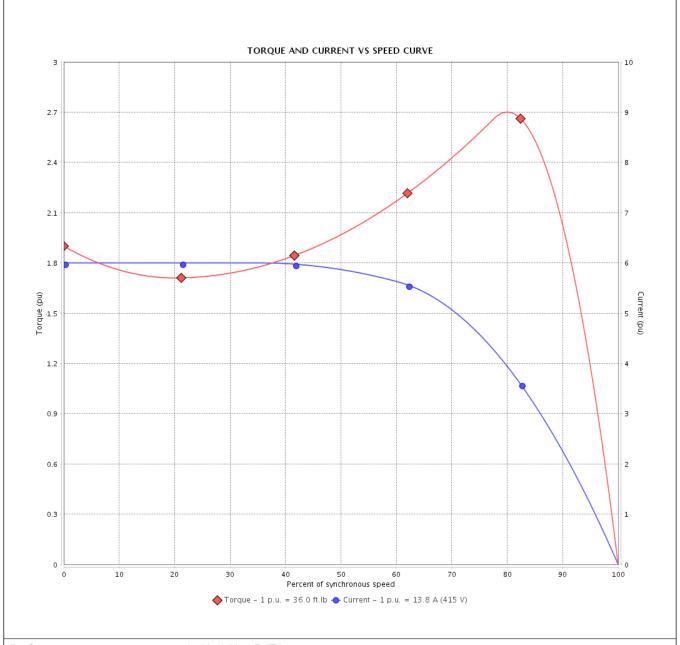


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 01018ET3E215T-W22

11437961



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) : 36.0 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 190 % : 1.15 Breakdown torque : 270 % Temperature rise : 80 K Rated speed

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

: 1460 rpm

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Design

: B

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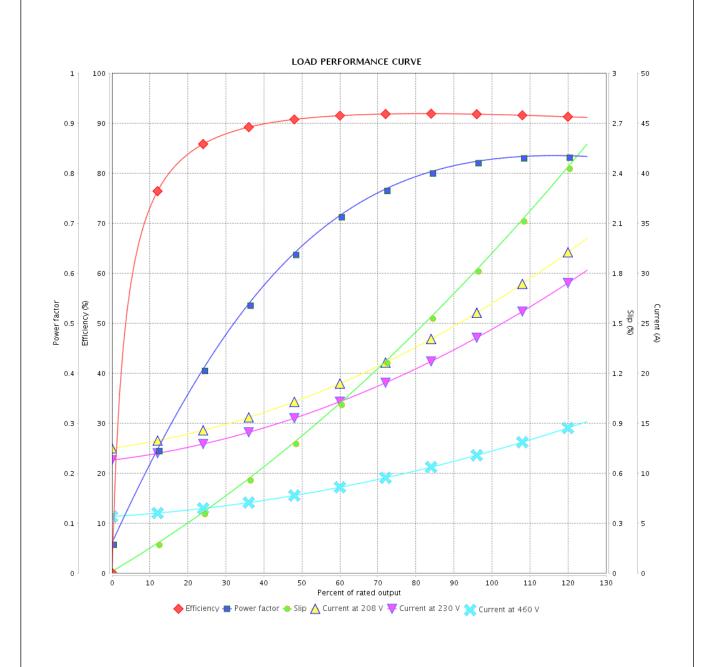
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Product line : NEMA Premium Efficiency Three- Product code : 11437961

Phase

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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	Duty cycle Insulation class Service factor Temperature rise		: 1.51 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	: Cont.(S1) : F : 1.25 : 80 K	
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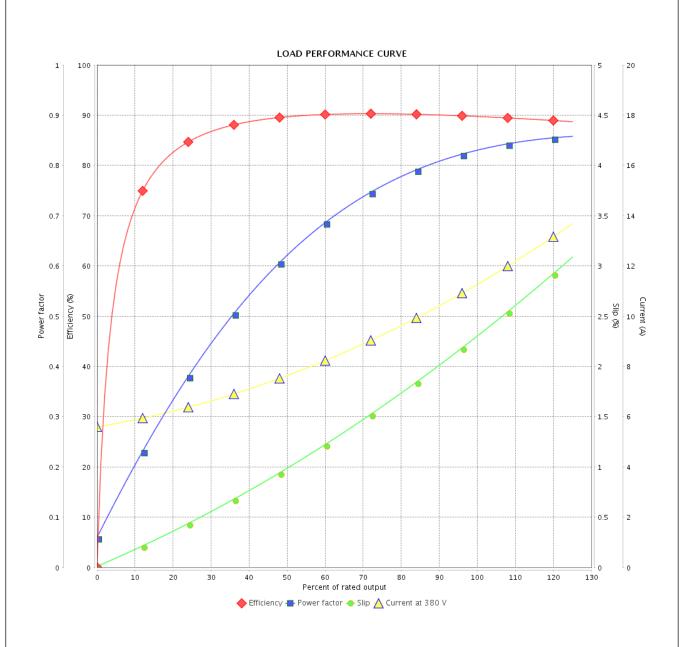
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Phase

Product code: 11437961

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Performance : 380 V 50 Hz 4P IE3 : 11.2 A Rated current 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 Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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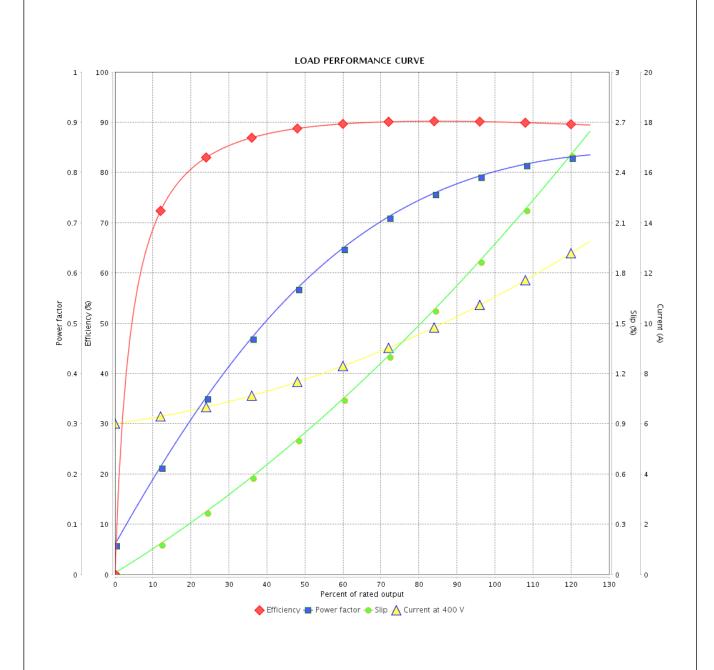


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Product line : NEMA Premium Efficiency Three- Product code : 11437961

Phase

Catalog #: 01018ET3E215T-W22



Performance	:	400 V 50 Hz 4P IE3					
Rated current	urrent : 11.0 A Moment of ine		f inertia (J)	: 1.51 sq.ft.lb			
LRC	:	: 7.1 Duty cycle		: Cont.(S1)			
Rated torque	:	26.8 ft.lb	Insulation class		: F ` ´		
•		240 %	Service fa	Service factor : 1.15			
Breakdown torque		340 %	Temperati	Temperature rise		: 80 K	
Rated speed	:	1470 rpm	Design		: B		
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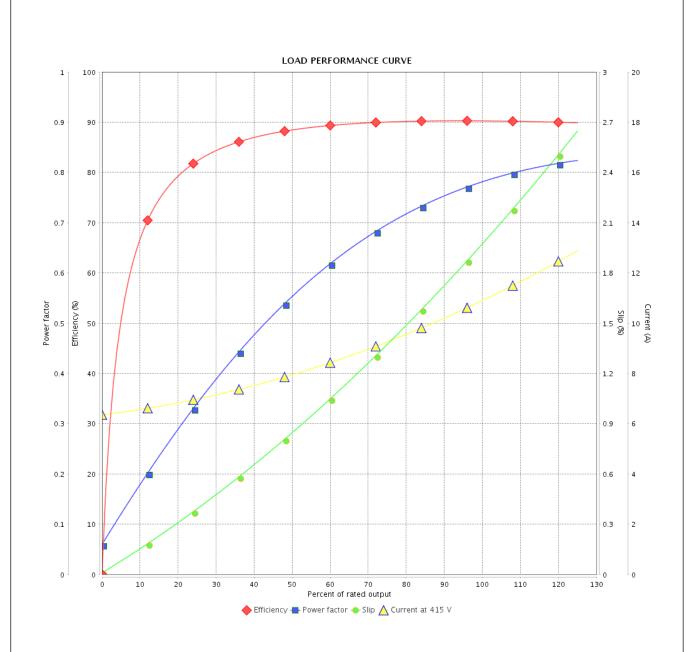
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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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	
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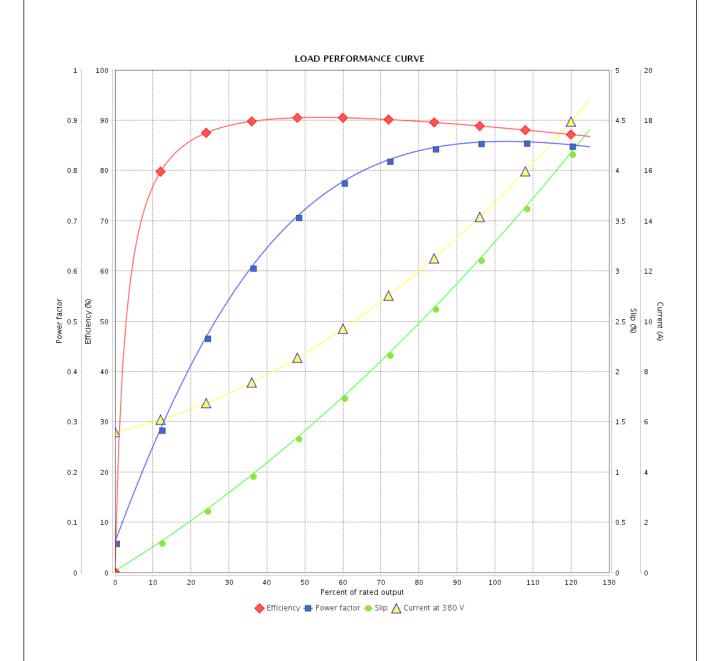


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Product line : NEMA Premium Efficiency Three- Product code : 11437961

Phase

Catalog #: 01018ET3E215T-W22



Performance	:	380 V 50 Hz 4P IE1					
Rated current	ated current : 15.0 A		Moment o	f inertia (J)	: 1.51 sq.ft.lb		
LRC	:	: 5.1 Duty cycle)	: Cont.(S1)		
Rated torque	:	36.2 ft.lb	Insulation class		:F		
Locked rotor torque	ocked rotor torque : 150 %		Service fa	ctor	: 1.15		
Breakdown torque	:	220 %	Temperati	Temperature rise		: 80 K	
Rated speed	:	1450 rpm	Design		: B		
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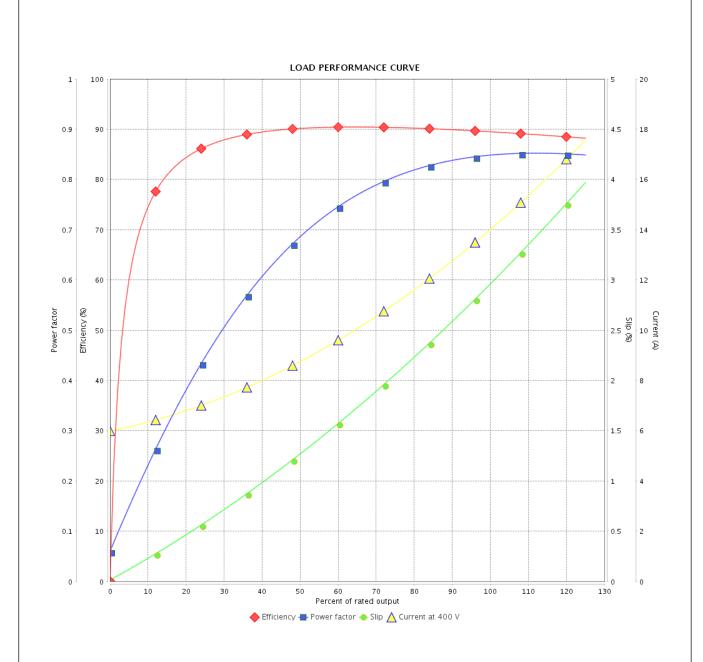
Product line : NEMA Premium Efficiency Three- Product code :

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			*			
Performance	: 4	100 V 50 Hz 4P IE2				
Rated current		14.2 A	1	Moment of inertia (J)		
LRC : 5.		5.6	Duty cycle	9	: Cont.(S1)	
Rated torque		36.1 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 1	180 %	Service factor		: 1.15	
Breakdown torqu	ie : 2	250 %	Temperati	Temperature rise		
Rated speed	: 1	1455 rpm	Design	•		
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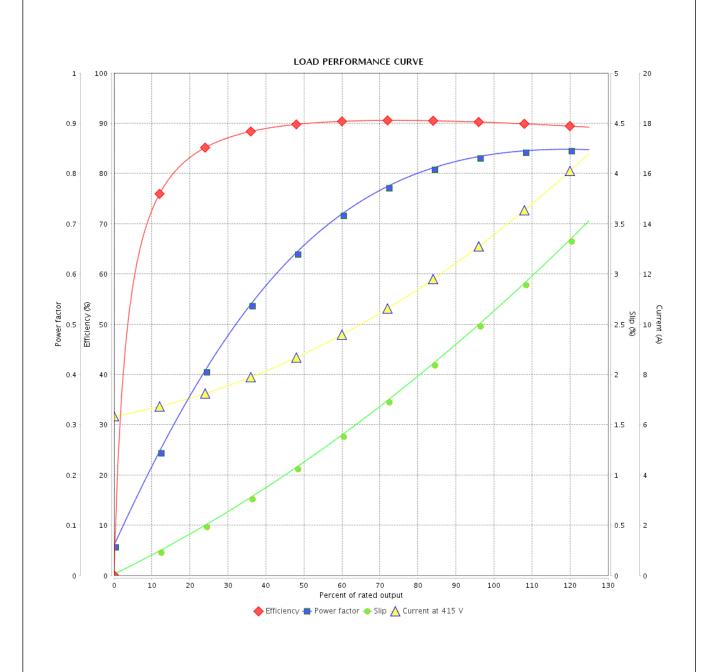
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 01018ET3E215T-W22

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Performance	: 415 V 50 Hz 4P IE2					
Rated current : 13.8 A Mon		Moment of	f inertia (J)	: 1.51 sq.ft.lb		
LRC	: 6	.0	Duty cycle	;	: Cont.(S1)	
Rated torque	: 30	6.0 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 19	90 %	Service fa	ctor	: 1.15	
Breakdown torque	: 2	: 270 % Temperature rise		: 80 K		
Rated speed : 1460 rpm		460 rpm	Design		: B	
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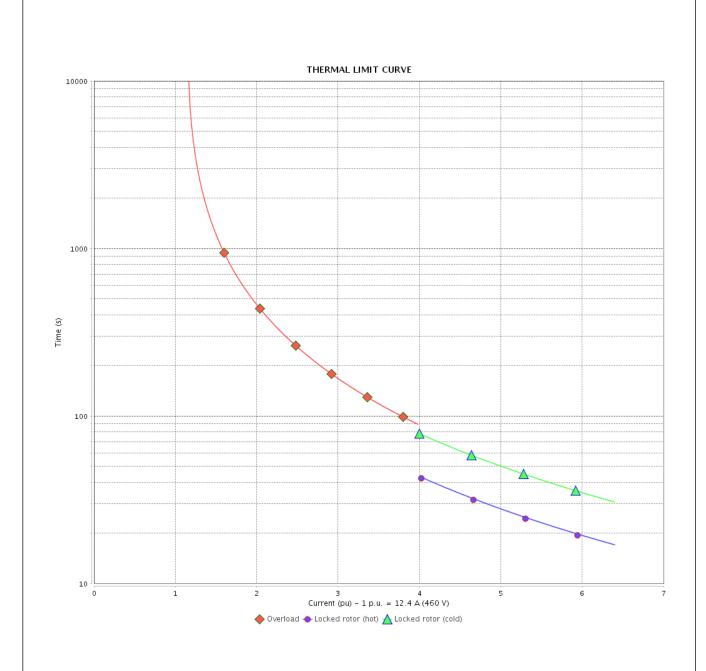


Customer	:				
Product line	: NEMA Premium Efficien Phase		Product code : Catalog # :	11437961 01018ET3E2	15T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 230/460 V 60 Hz 4P : 24.8/12.4 A : 6.4 : 29.8 ft.lb : 200 % : 295 % : 1765 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class actor	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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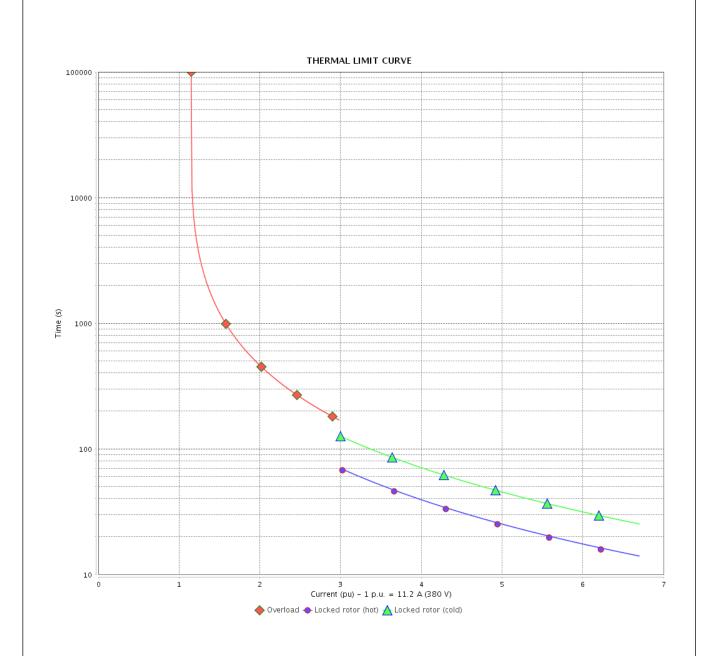


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code :	11437961 01018ET3E2	15T-W22
				Catalog # :	01018ET3E2	15T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed Heating constant	: 11 : 6. : 20 : 30	30 V 50 Hz 4P IE3 I.2 A 7 3.9 ft.lb 00 % 00 % 465 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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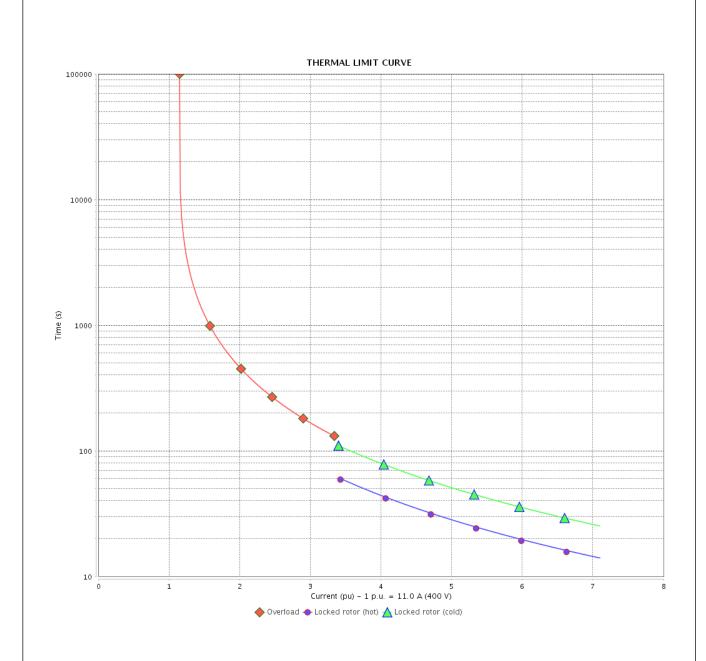


Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	11437961	
				Catalog # :	01018ET3E2	15T-W22
Performance		: 400 V 50 Hz 4P IE3				
Rated current		: 11.0 A	Moment of	of inertia (J)	: 1.51 sq.ft.lb	
LRC Rated torque		: 7.1 : 26.8 ft.lb	Duty cycle Insulation		: Cont.(S1)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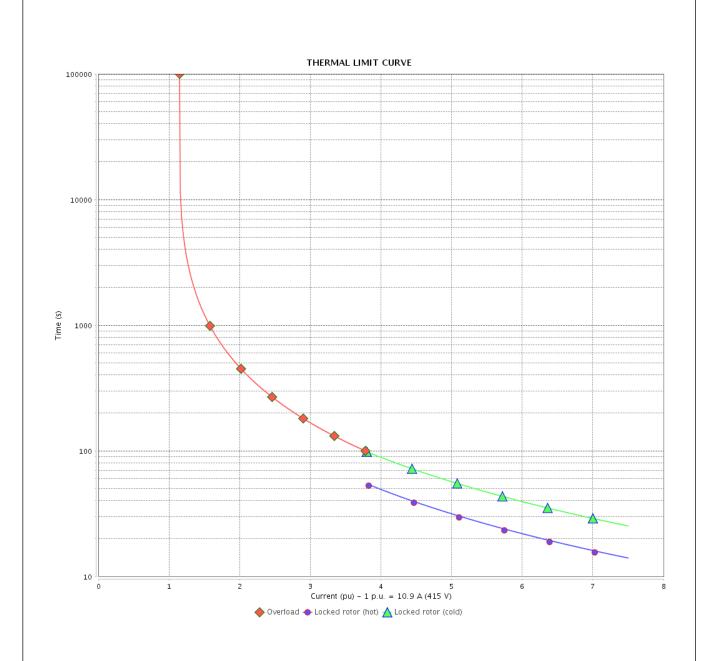


Customer	:				
Product line	: NEMA Premium Efficie Phase		Product code : Catalog # :	11437961 01018ET3E2	15T-W22
			Catalog # .	01010E13E2	131-W2Z
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 415 V 50 Hz 4P IE3 : 10.9 A : 7.5 : 26.8 ft.lb : 260 % : 360 % : 1470 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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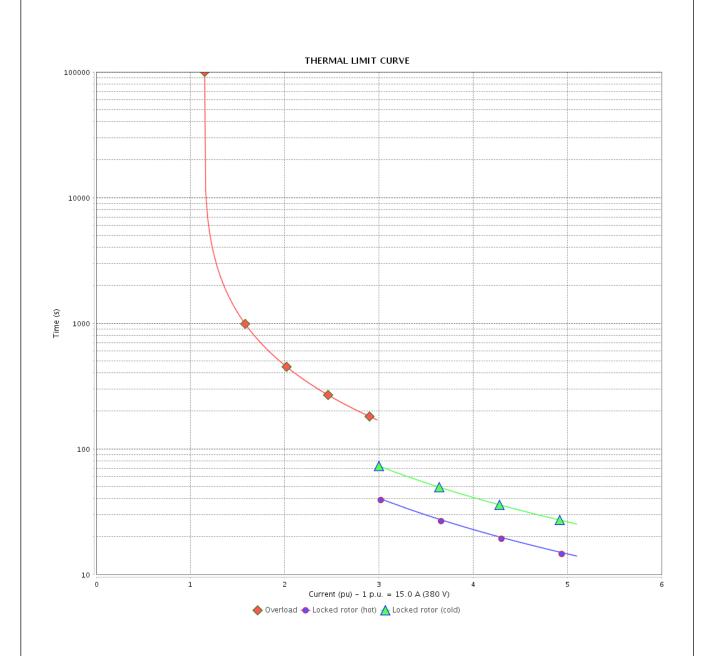


Customer	:				
Product line	: NEMA Premium Efficier Phase		Product code : Catalog # :	11437961 01018ET3E2	15T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 380 V 50 Hz 4P IE1 : 15.0 A : 5.1 : 36.2 ft.lb : 150 % : 220 % : 1450 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ictor	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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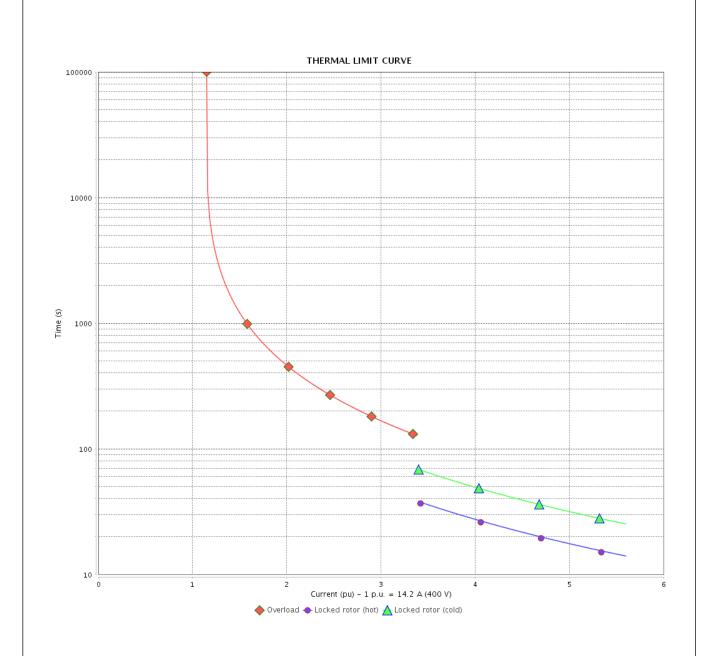


Customer	:			,	
Product line	: NEMA Premium Efficiency	Three-	Product code :	11437961	
	Phase		Catalog # :	01018ET3E2	15T-W22
Performance	: 400 V 50 Hz 4P IE2 : 14.2 A	Moment	finantia (I)	. 1 E1 og ft lb	
Rated current LRC	: 5.6	Duty cycle	f inertia (J)	: 1.51 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque	: 36.1 ft.lb : 180 %	Insulation Service fa		: F : 1.15	
Breakdown torque	: 250 %	Temperatu		: 80 K	
Rated speed	: 1455 rpm	Design		: B	
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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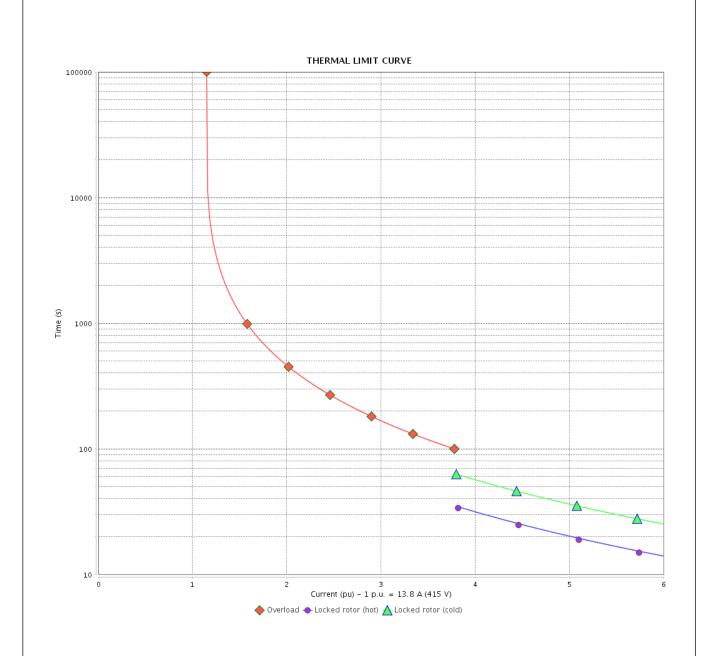


Customer	:				
Product line	: NEMA Premium Efficienc Phase		Product code :	11437961 01018ET3E2	15T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 415 V 50 Hz 4P IE2 : 13.8 A : 6.0 : 36.0 ft.lb : 190 % : 270 % : 1460 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

12/04/2022

Product line : NEMA Premium Efficiency Three- Pro

Phase

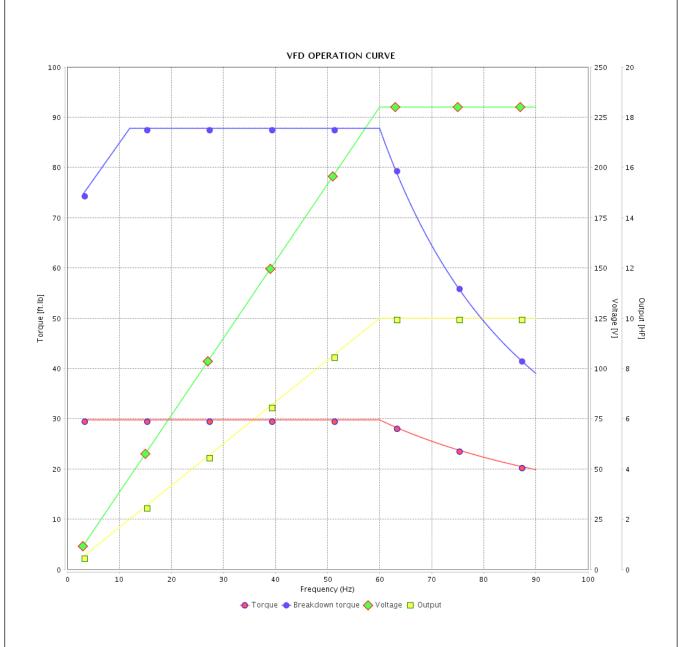
Product code: 11437961

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Performance	:	230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: :ue :e :	24.8/12.4 A 6.4 29.8 ft.lb 200 % 295 % 1765 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



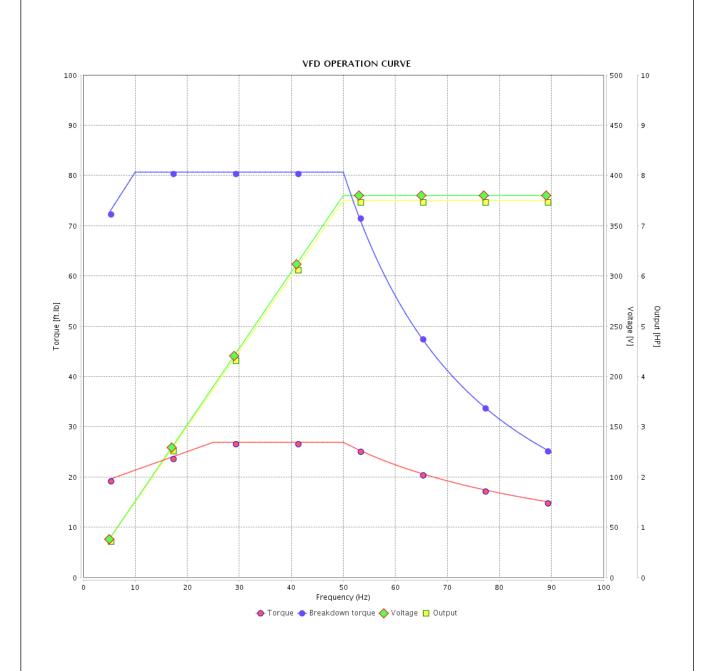
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

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11437961



Performance	: 3	80 V 50 Hz 4P IE3				
Rated current : 1		1.2 A	Moment o	Moment of inertia (J)		
LRC : 6.7		.7	Duty cycle		: Cont.(S1)	
Rated torque : 26		6.9 ft.lb	Insulation class		: F	
•		00 %	Service fa	ctor	: 1.15	
Breakdown torque	: 3	00 %	Temperature rise		: 80 K	
Rated speed	: 1	465 rpm	Design		: B	
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Customer :

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12/04/2022

Product line : NEMA Premium Efficiency Three- Product code :

Phase

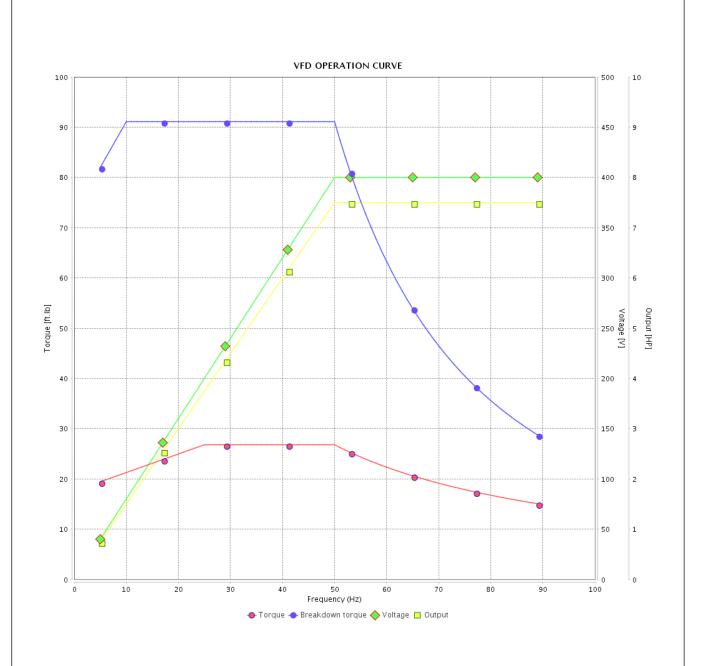
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Performance : 400 V 50 Hz 4P IE3 : 11.0 A Rated current Moment of inertia (J) : 1.51 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) : 26.8 ft.lb Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.15 Breakdown torque : 340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

Three Phase Induction Motor - Squirrel Cage



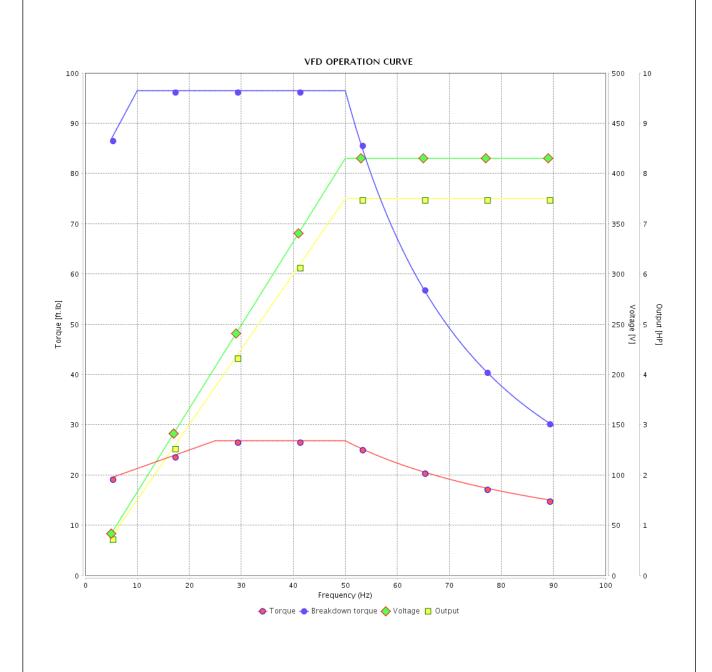
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Product line : NEMA Premium Efficiency Three- Product co

Phase

Product code: 11437961

Catalog #: 01018ET3E215T-W22



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current : 10.9		0.9 A	Moment o	Moment of inertia (J)		
LRC : 7.5		.5	Duty cycle		: Cont.(S1)	
Rated torque : 26		6.8 ft.lb	Insulation class		: F	
Locked rotor torque : 2		60 %	Service fa	ctor	: 1.15	
Breakdown torque	: 3	60 %	Temperature rise		: 80 K	
Rated speed	: 1	470 rpm Design		: B		
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Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three-

Phase

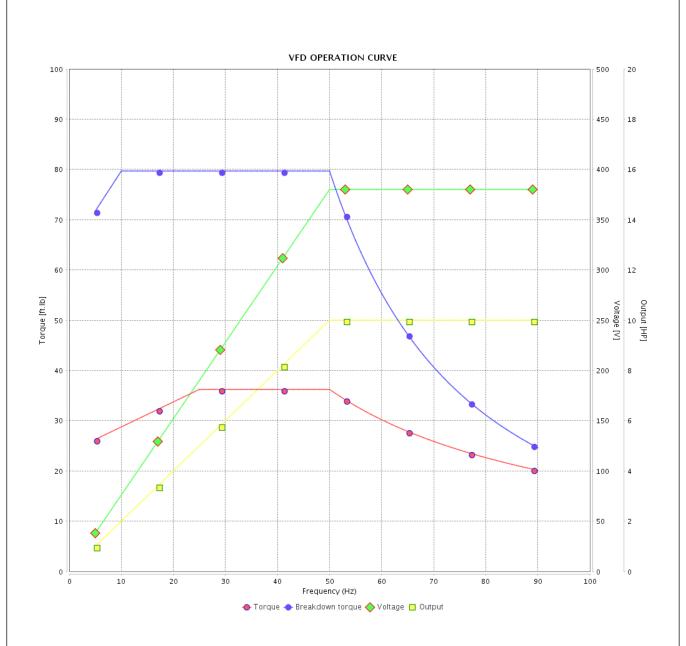
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Performance : 380 V 50 Hz 4P IE1 : 15.0 A Rated current Moment of inertia (J) : 1.51 sq.ft.lb **LRC** : 5.1 Duty cycle : Cont.(S1) : 36.2 ft.lb Insulation class Rated torque : F Locked rotor torque : 150 % Service factor : 1.15 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 1450 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



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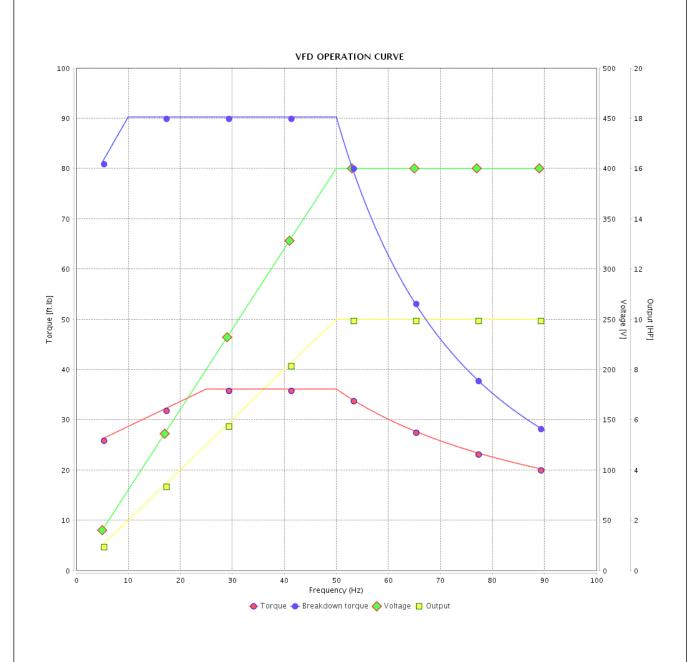
Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 11437961

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Performance	: 400 V 50 Hz 4P IE2) •			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		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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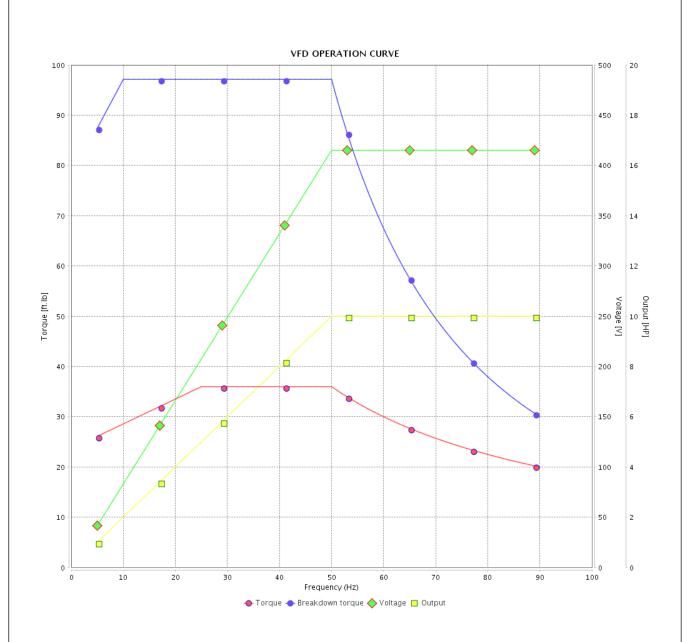
12/04/2022

Product line : NEMA Premium Efficiency Three- P

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 Rated torque : F 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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