DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11610354

01018ET3E215TC-W22 Catalog #:

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

Insulation class 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 : 179 lb

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	8.88	88.0	91.6	90.7	90.1
Efficiency (%)	50%	91.0	90.0	89.2	88.7	90.3	90.3	90.3
Linciency (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
FUWEI 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

Drive end Non drive end Foundation loads

6308 ZZ Bearing type 6207 ZZ Max. traction : 458 lb Sealing V'Ring V'Ring Max. compression : 638 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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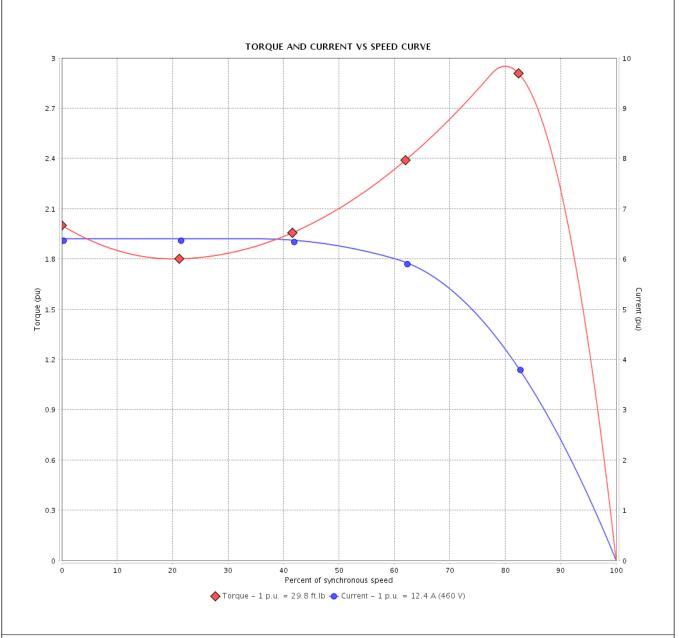
Customer :

Product line : NEMA Premium Efficiency Three- Product of

Phase

Product code: 11610354

Catalog #: 01018ET3E215TC-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

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: 11610354 Catalog #: 01018ET3E215TC-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 Torque (pu) 1.2 0.6 0.3 40 50 6. 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)	
Rated torque	: 26.9 ft.lb	Insulation class	: F	
Locked rotor torque	: 200 %	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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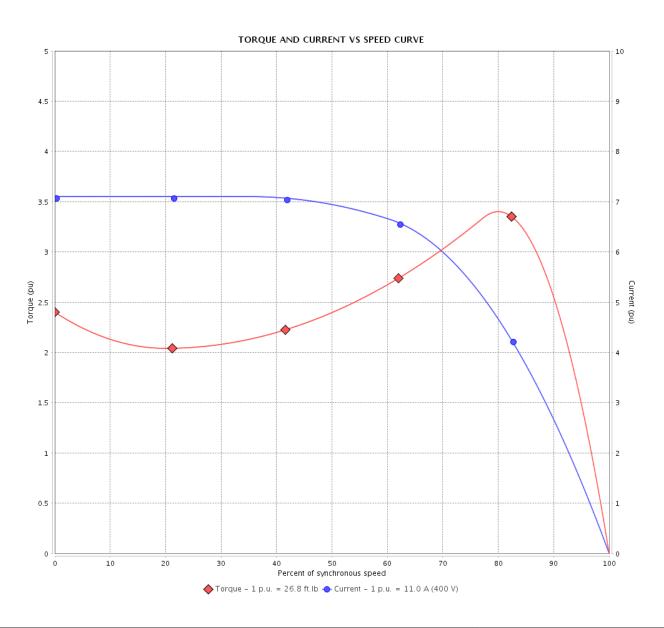
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11610354

Catalog #: 01018ET3E215TC-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

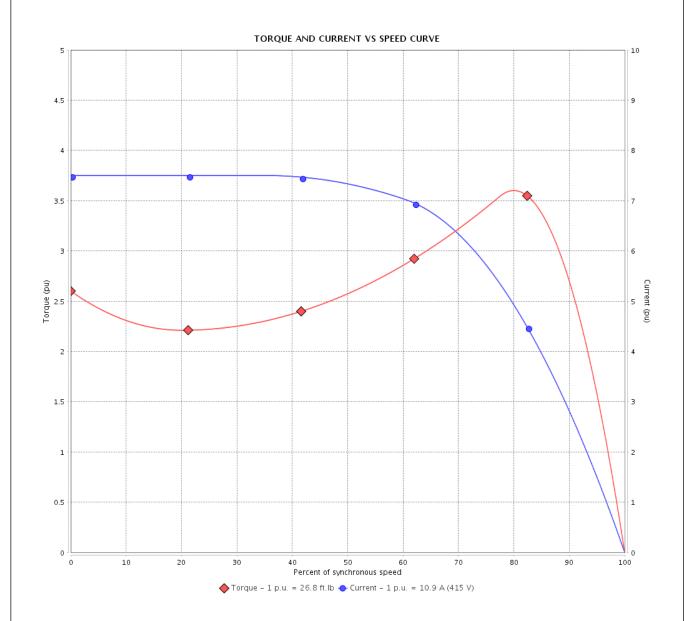
Locked rotor time : 25s (cold) 14s (hot)

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Customer Product line : NEMA Premium Efficiency Three-Product code: 11610354 Catalog #: 01018ET3E215TC-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) : 26.8 ft.lb Insulation class : F Rated torque : 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)

LOCKCU TOLOT LITT		55 (COId) 145 (HOL)			
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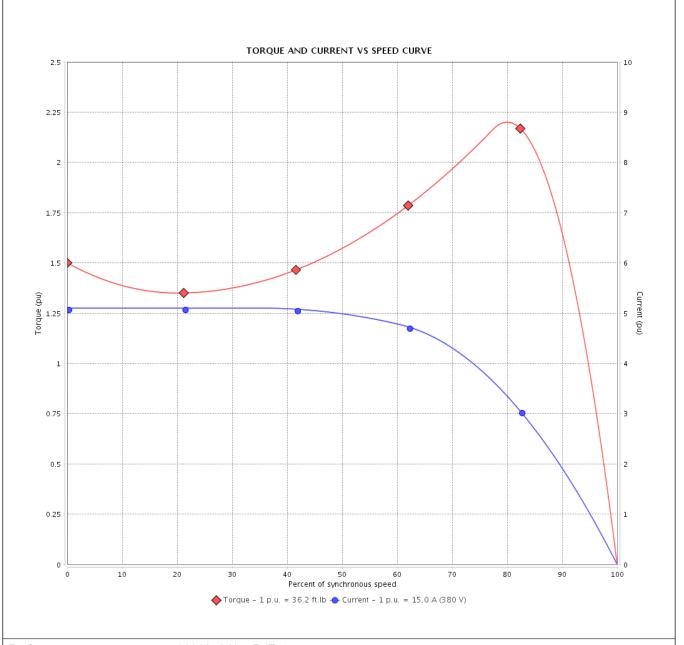


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 11610354

Catalog #: 01018ET3E215TC-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

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

: 1450 rpm

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Design

: B

1.2

0.6

0.3



Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11610354 Catalog #: 01018ET3E215TC-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Torque (bu)

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)	
Rated torque	: 36.1 ft.lb	Insulation class	: 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)	I		

40 50 Percent of synchronous speed ◆ Torque - 1 p.u. = 36.1 ft.lb ◆ Current - 1 p.u. = 14.2 A (400 V)

Locked folor till	. 23	55 (COId) 145 (110t)			
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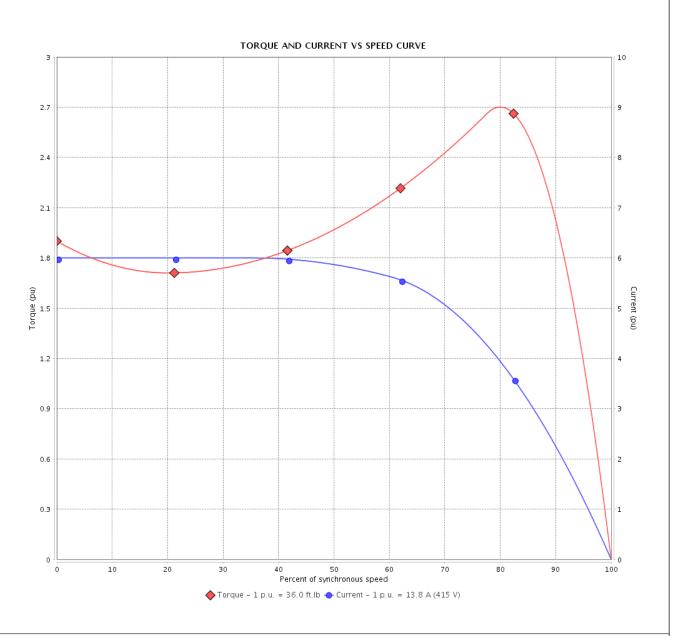
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 11610354

Catalog #: 01018ET3E215TC-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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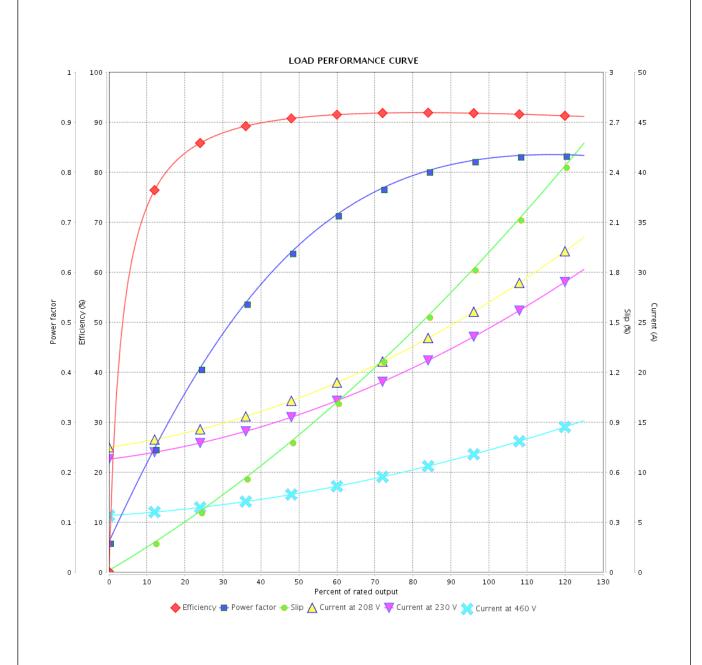
Product line : NEMA Premium Efficiency Three- Product code :

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	Moment of Duty cycle Insulation of Service fact Temperatur Design	class ctor	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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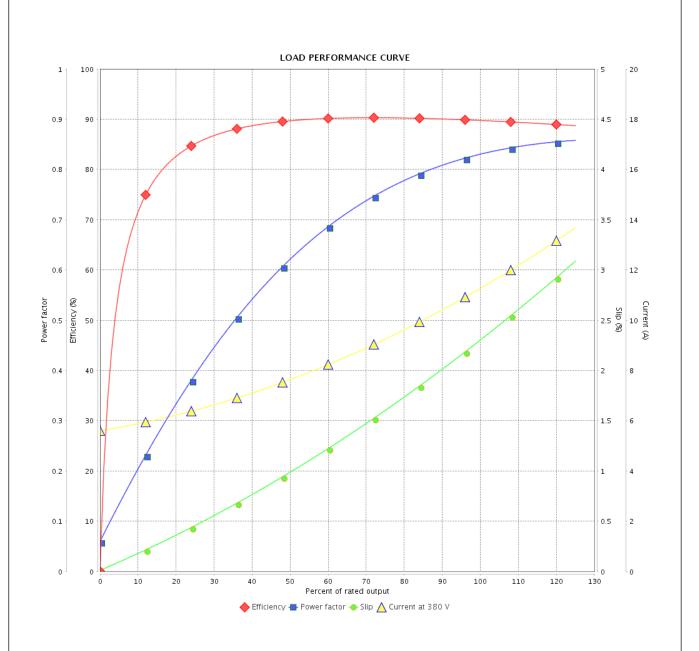
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Product line : NEMA Premium Efficiency Three- Product code : 11610354

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Catalog #: 01018ET3E215TC-W22

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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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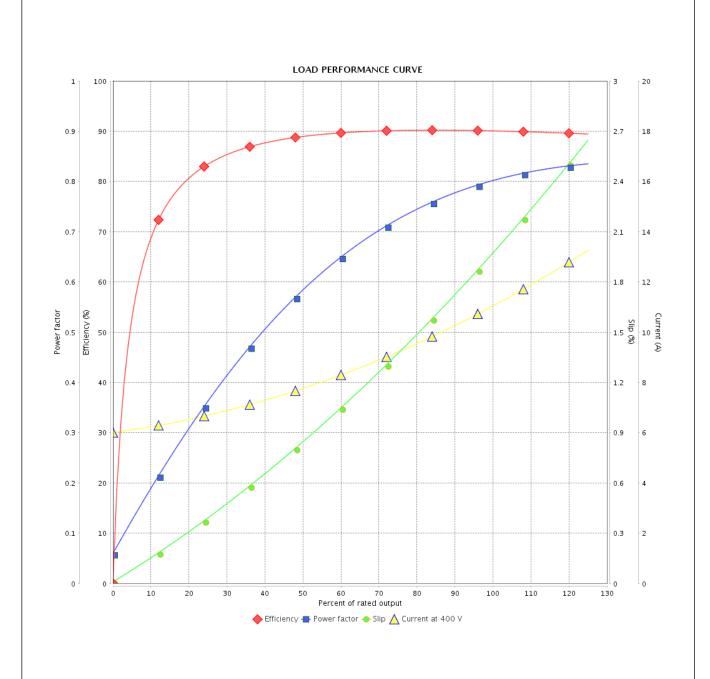
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Performance	:	400 V 50 Hz 4P IE3				
Rated current		11.0 A	Moment o	f inertia (J)	: 1.51 sq.ft.lb	
LRC	:	7.1	Duty cycle	;	: Cont.(S1)	
Rated torque	:	26.8 ft.lb	Insulation	class	: F ` ´	
Locked rotor torque	e :	240 %	Service fa	ctor	: 1.15	
Breakdown torque	:	340 %	Temperati	ıre rise	: 80 K	
Rated speed	:	1470 rpm	Design		: B	
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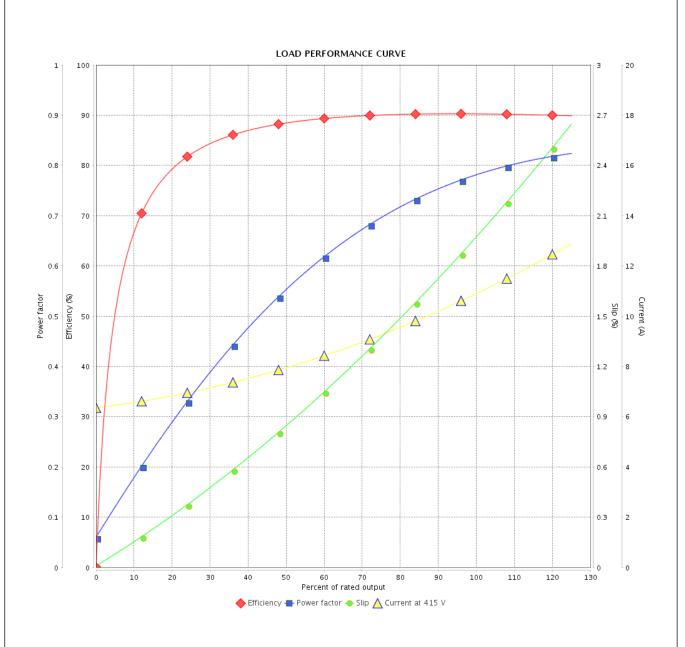
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Phase

Product code: 11610354

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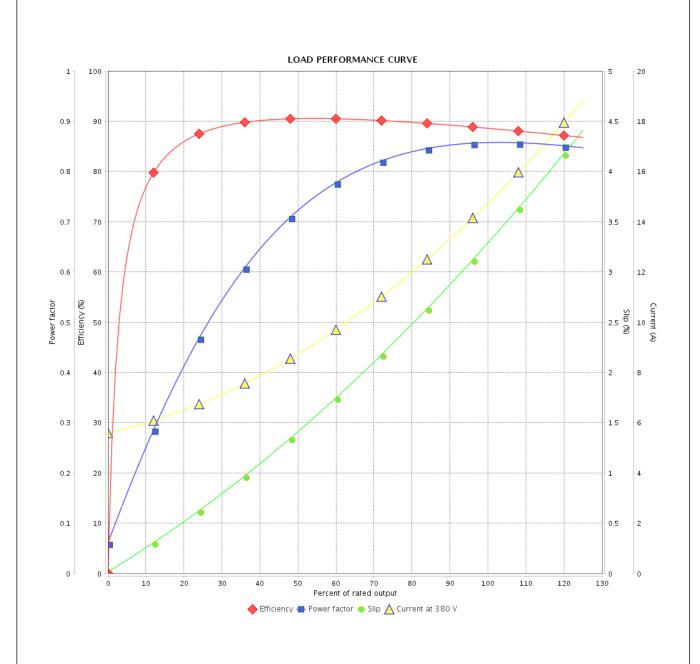
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11610354

Phase

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Performance	: 380 V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 15.0 A : 5.1 : 36.2 ft.lb : 150 % : 220 % : 1450 rpm	Moment of i Duty cycle Insulation of Service fact Temperature Design	lass	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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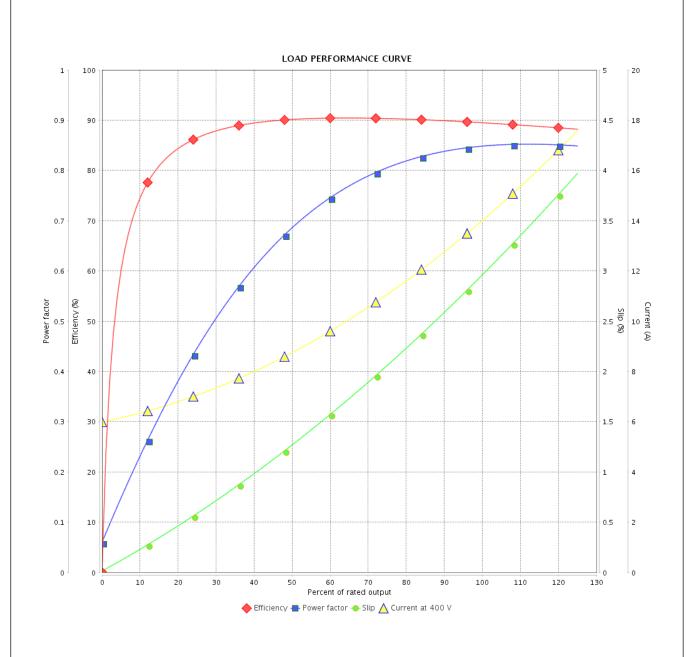
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11610354

01018ET3E215TC-W22 Catalog #:



Performance	: 4	00 V 50 Hz 4P IE2				
Rated current	ted current : 14.2 A		Moment o	of inertia (J)	: 1.51 sq.ft.lb	
		5.6	Duty cycle	9	: Cont.(S1)	
		6.1 ft.lb	Insulation	class	: F : 1.15	
		80 %	Service fa	actor		
Breakdown torque	: 2	250 %	Temperat	Temperature rise		
Rated speed	: 1	455 rpm	Design		: B	
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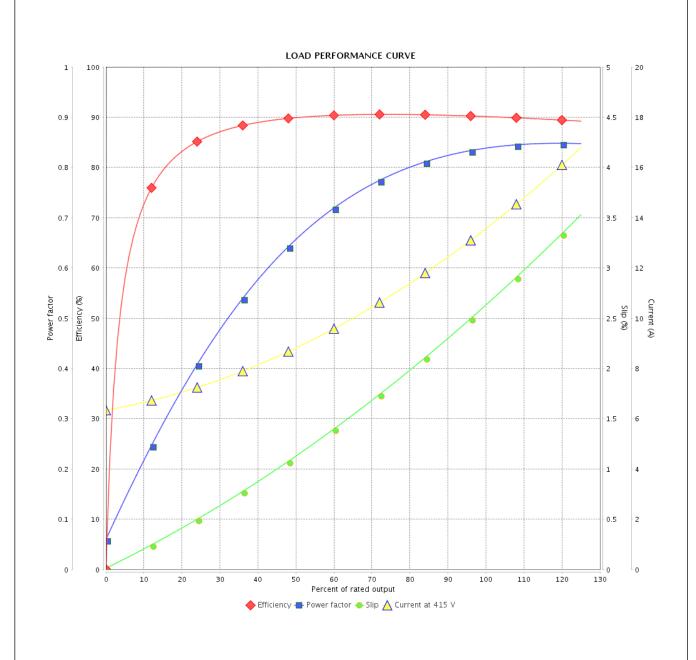


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11610354

Phase

Catalog #: 01018ET3E215TC-W22



Performance	: 4	15 V 50 Hz 4P IE2				
Rated current	ted current : 13.8 A		Moment o	Moment of inertia (J)		
LRC	: 6	.0	Duty cycle	;	: Cont.(S1)	
Rated torque	: 3	6.0 ft.lb	Insulation	class	: F	
Locked rotor torque	e :1	90 %	Service fa	ctor	: 1.15	
Breakdown torque	: 2	70 %	Temperati	Temperature rise		
Rated speed	: 1	460 rpm	Design		: B	
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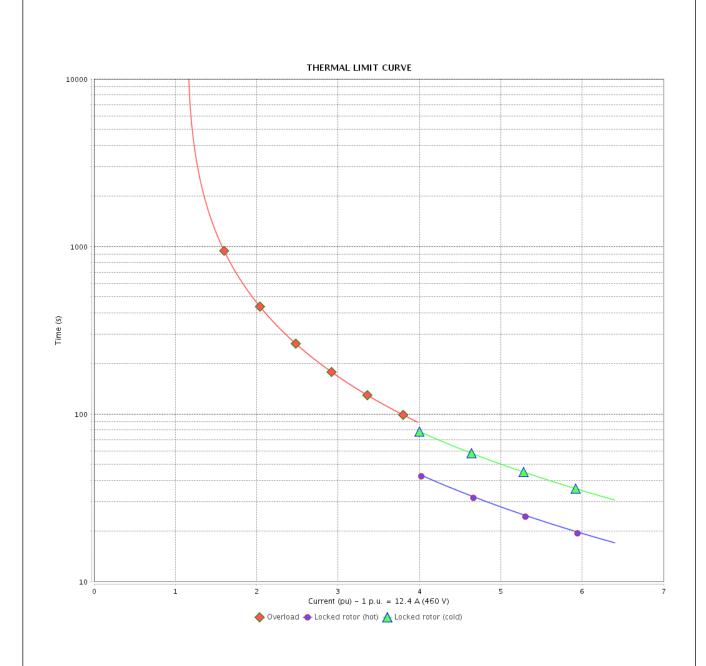


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Product line		NEMA Premium Efficiency	Three-	Product code :	11610354	
	PI	hase		Catalog # :	01018ET3E2 ⁻	15TC-W22
Performance		30/460 V 60 Hz 4P				
Rated current LRC	: 2 ² : 6.	4.8/12.4 A 4	Moment of Duty cycle	f inertia (J)	: 1.51 sq.ft.lb : Cont.(S1)	
Rated torque	: 29	9.8 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		00 % 95 %	Service fa Temperatu		: 1.25 : 80 K	
Rated speed		765 rpm	Design	110 113 0	: B	
Heating constant						
Cooling constant						
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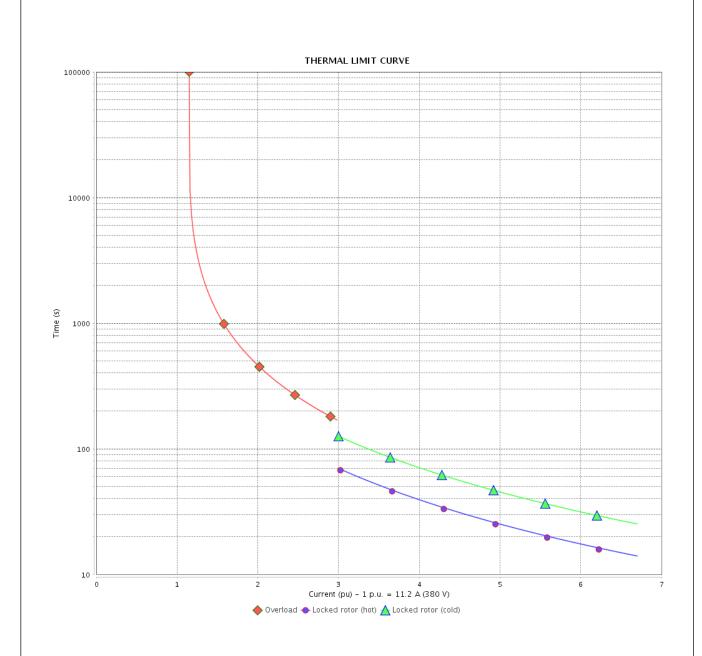


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Product line		NEMA Premium Efficiency Thase	Γhree- I	Product code :	11610354	
		1830	(Catalog # :	01018ET3E21	15TC-W22
Performance		30 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6. : 26 ue : 20 e : 30	.2 A 7 6.9 ft.lb 00 % 00 % 165 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class ctor	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant Cooling constant						
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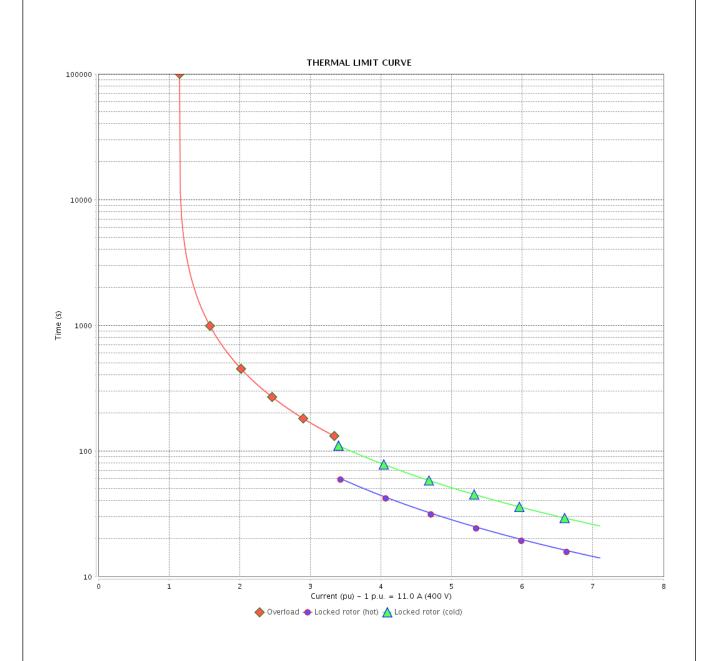


Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	11610354	
				Catalog # :	01018ET3E21	15TC-W22
Performance		: 400 V 50 Hz 4P IE3				
Rated current		: 11.0 A	Moment of	of inertia (J)	: 1.51 sq.ft.lb	
LRC		: 7.1	Duty cycle	е	: Cont.(S1)	
Rated torque Locked rotor tord		: 26.8 ft.lb : 240 %	Insulation Service fa		: F : 1.15	
Breakdown torqu	ie	: 340 %	Temperat		: 80 K	
Rated speed		: 1470 rpm	Design		: B	
Heating constan						
Cooling constant	t	Changes Commercial		Douts was!	Charles	Data
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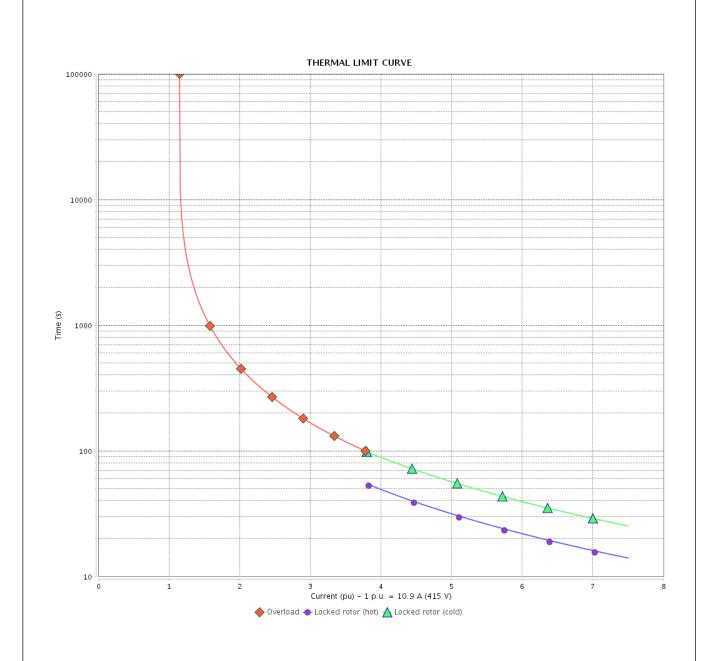


Customer		:			·	
Product line		: NEMA Premium Efficiency ⁻ Phase		Product code : Catalog # :	11610354 01018ET3E2	15TC-W22
Performance Rated current LRC Rated torque Locked rotor toro Breakdown torque Rated speed	que :	415 V 50 Hz 4P IE3 10.9 A 7.5 26.8 ft.lb 260 % 360 % 1470 rpm	Moment or Duty cycle Insulation Service fa Temperatu Design	class ctor	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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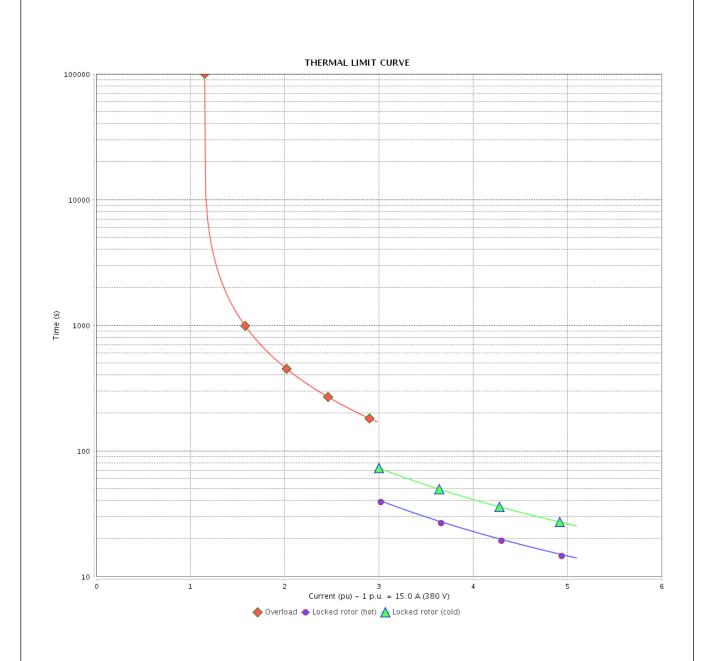


Customer	:				·	
Product line		NEMA Premium Efficiency	Three-	Product code :	11610354	
	P	hase		Catalog # :	01018ET3E2 ⁻	15TC-W22
Performance		30 V 50 Hz 4P IE1	Moment -	finartic (I)	. 1 51 00 51 15	
Rated current LRC	: 5.		Duty cycle	f inertia (J)	: 1.51 sq.ft.lb : Cont.(S1)	
Rated torque		6.2 ft.lb 50 %	Insulation Service fa	class	: F : 1.15	
Locked rotor torque Breakdown torque	: 22	20 %	Temperatu		: 80 K	
Rated speed		450 rpm	Design		: B	
Heating constant						
Cooling constant		Changes Commercial		Dorform	Charles	Data
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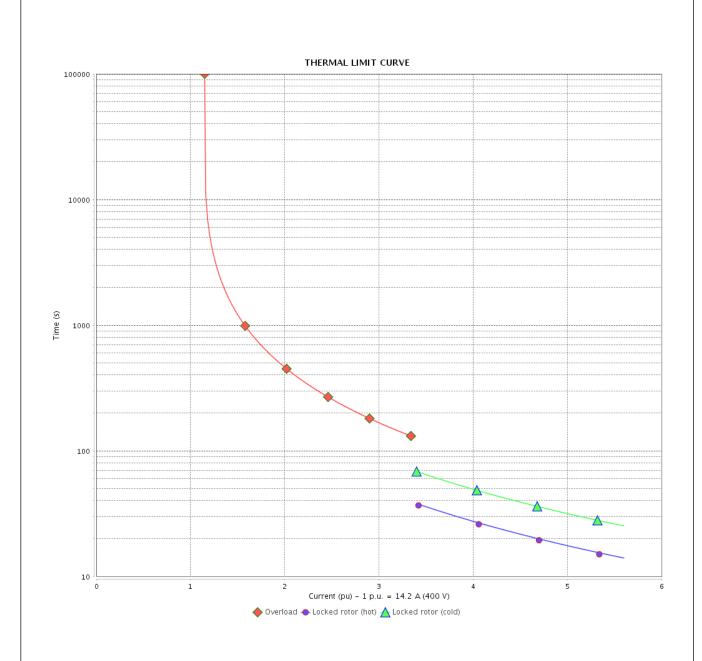


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11610354 01018ET3E2 ²	15TC-W22
					0101021022	.0.0 1122
Performance		: 400 V 50 Hz 4P IE2				
Rated current LRC		: 14.2 A : 5.6	Moment of Duty cycle	of inertia (J)	: 1.51 sq.ft.lb : Cont.(S1)	
Rated torque		: 36.1 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 180 % : 250 %	Service fa Temperat		: 1.15 : 80 K	
Rated speed		: 1455 rpm	Design	uic lise	: B	
Heating constan						
Cooling constant	t			, ,	1	
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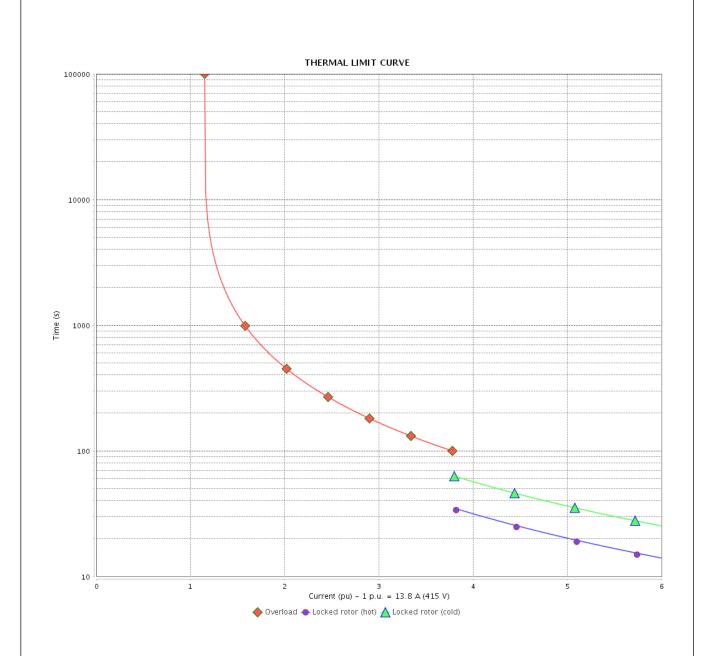


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11610354 01018ET3E21	15TC-W22
Performance		: 415 V 50 Hz 4P IE2				
Rated current		: 13.8 A	Moment of	of inertia (J)	: 1.51 sq.ft.lb	
LRC Rated torque		: 6.0 : 36.0 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que	: 190 %	Service fa	actor	: 1.15	
Breakdown torqu Rated speed		: 270 % : 1460 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constan		<u> </u>				
Cooling constant						
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Customer



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Product line : NEMA Premium Efficiency Three-

Phase

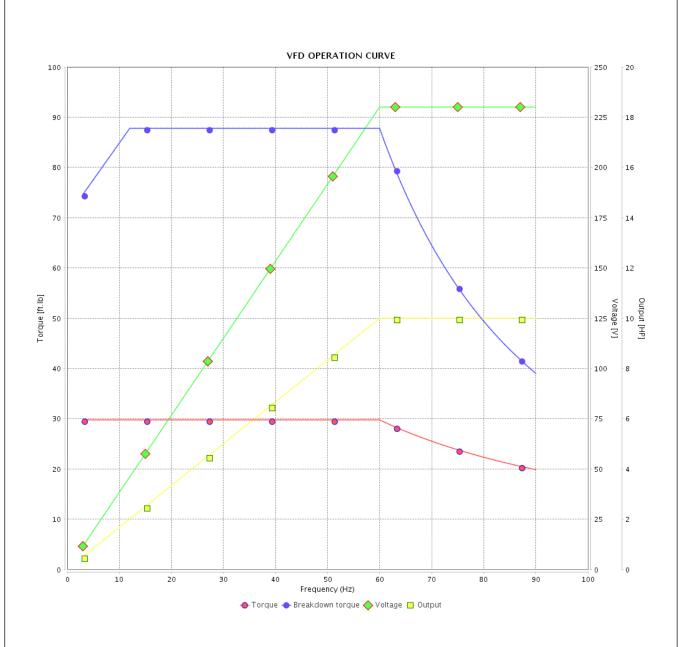
Product code: 11610354

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Performance	:	230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	ue :	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 ector	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage

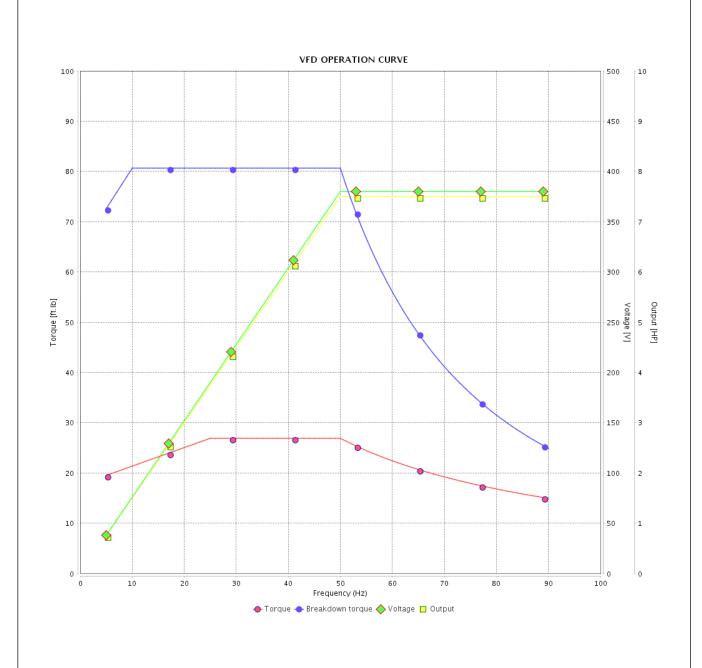


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 01018ET3E215TC-W22

11610354



	·-					
Performance	: 3	80 V 50 Hz 4P IE3				
Rated current	: 1	1.2 A	Moment of inertia (J)		: 1.51 sq.ft.lb	
LRC	: 6	.7	Duty cycle)	: Cont.(S1)	
Rated torque	: 2	6.9 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 2	00 %	Service factor		: 1.15	
Breakdown torqu	ie : 3	00 %	Temperature rise		: 80 K	
Rated speed	: 1	465 rpm	Design		: B	
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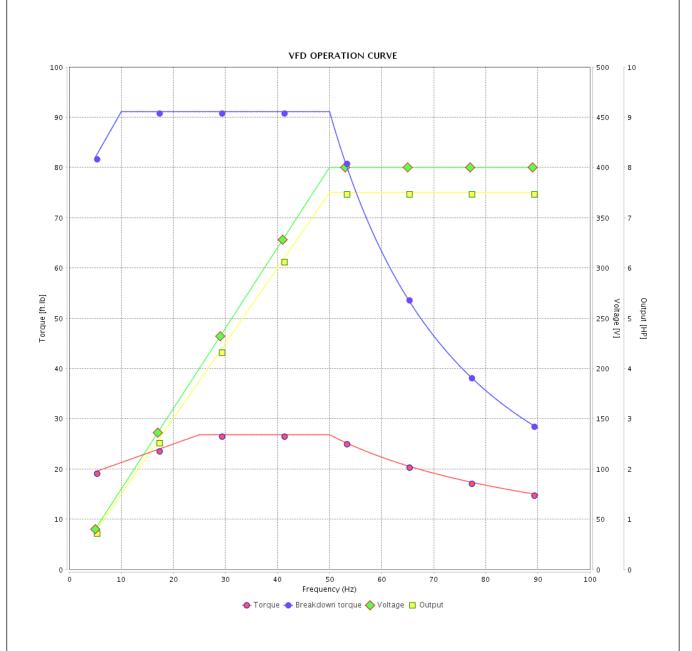
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 11610354

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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 Page Checked by Revision

Three Phase Induction Motor - Squirrel Cage

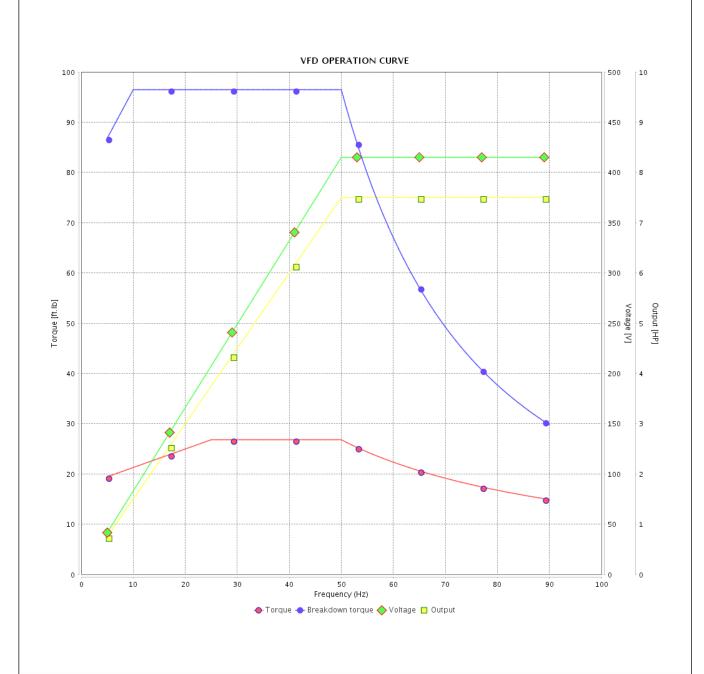


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11610354

Phase

Catalog #: 01018ET3E215TC-W22



Performance	:	415 V 50 Hz 4P IE3				
Rated current	:	10.9 A	.9 A Moment of inertia (J)		: 1.51 sq.ft.lb	
LRC	:	7.5	Duty cycle	•	: Cont.(S1)	
Rated torque	:	26.8 ft.lb	Insulation	class	: F	
Locked rotor tord	que :	260 %	Service fa	ictor	: 1.15	
Breakdown torqu	ie :	360 %	Temperat	ure rise	: 80 K	
Rated speed	:	1470 rpm	Design		: B	
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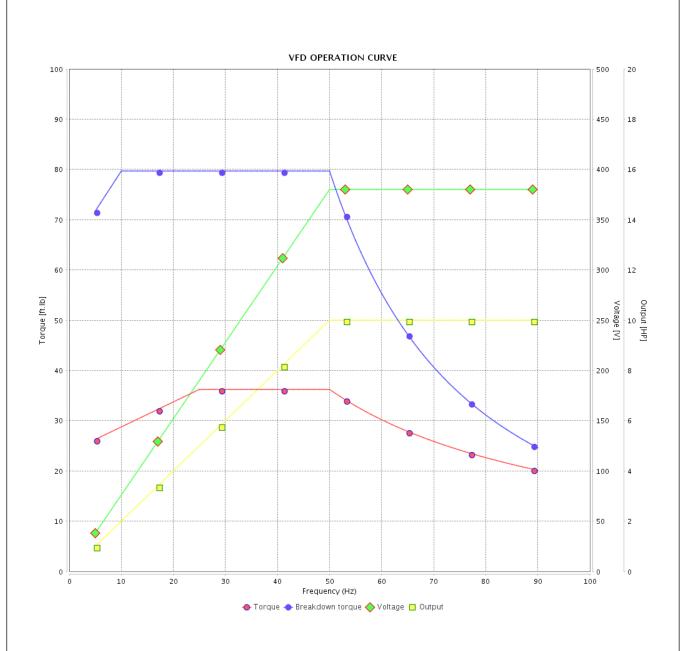
Product line : NEMA Premium Efficiency Three- Product

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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 Page Checked by Revision

Three Phase Induction Motor - Squirrel Cage

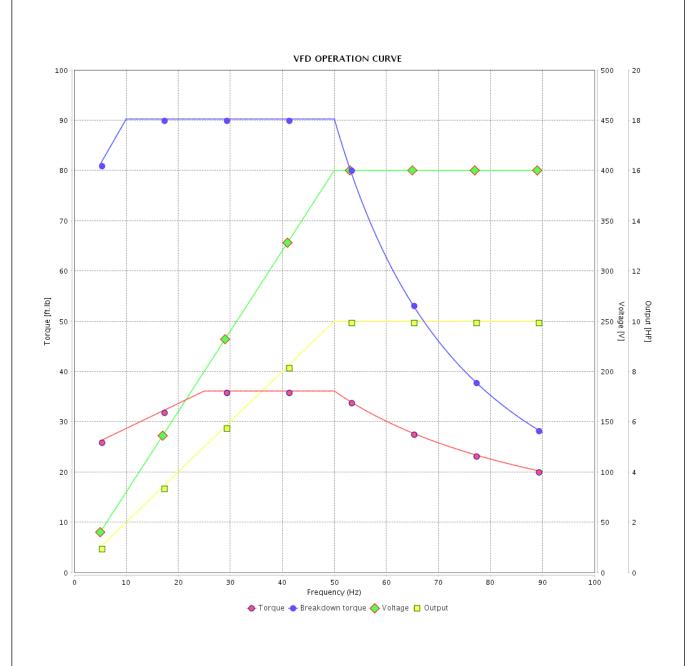


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11610354

Phase

Catalog # : 01018ET3E215TC-W22



Performance	: 4	100 V 50 Hz 4P IE2				
Rated current	: 1	14.2 A	Moment of inertia (J)		: 1.51 sq.ft.lb	
LRC	: 5	5.6	Duty cycle	;	: Cont.(S1)	
Rated torque	: 3	36.1 ft.lb	Insulation	class	: F	
Locked rotor torque	e :1	180 %	Service fa	ctor	: 1.15	
Breakdown torque	: 2	250 %	Temperati	Temperature rise		
Rated speed	: 1	1455 rpm	Design		: B	
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Customer :

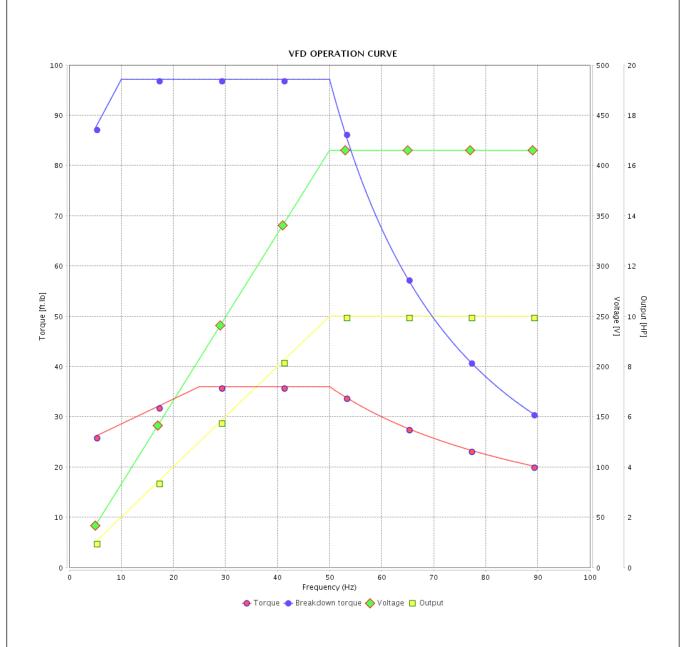
Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11610354

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Performance	: 415 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 13.8 A : 6.0 : 36.0 ft.lb : 190 % : 270 % : 1460 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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