DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 13468368

00336ET3ER145TC-W22 Catalog #:

Frame : 145TC Cooling method : IC411 - TEFC

Insulation class Mounting : W-6

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

: -20°C to +40°C Ambient temperature Starting method : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight³ : 53.4 lb · 0.0605 sq.ft.lb

Protection degre	е	: IP55		Momer	nt of inertia (J)	: C	0.0605 sq.ft.lb	
Design		: B						
Output [HP]		3	2	2	2	3	3	3
Poles		2	2	2	2	2	2	2
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		7.42/3.71	3.24	3.17	3.15	4.44	4.26	4.13
L. R. Amperes [A]		60.1/30.1	27.9	29.2	29.9	27.1	28.5	29.3
LRC [A]		8.1x(Code J)	8.6x(Code L)	9.2x(Code M)	9.5x(Code M)	6.1x(Code G)	6.7x(Code H)	7.1x(Code H)
No load current [A	1	2.60/1.30	1.28	1.43	1.55	1.28	1.43	1.55
Rated speed [RPN		3460	2890	2905	2910	2820	2840	2850
Slip [%]		3.89	3.67	3.17	3.00	6.00	5.33	5.00
Rated torque [ft.lb]		4.55	3.63	3.62	3.61	5.59	5.55	5.53
Locked rotor torque [%]		330	400	459	490	260	300	320
Breakdown torque		360	400	459	509	260	300	330
Service factor		1.25	1.25	1.00	1.00	1.25	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		25s (cold)	25s (cold)	23s (cold)	23s (cold)	25s (cold)	23s (cold)	23s (cold)
		14s (hot)	14s (hot)	13s (hot)	13s (hot)	14s (hot)	13s (hot)	13s (hot)
Noise level ²		68.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)
	25%	85.2	80.8	80.9	80.9	83.9	84.0	84.4
Efficiency (%)	50%	85.5	81.9	82.0	82.2	84.0	84.5	85.0
Lilloleticy (70)	75%	86.5	84.0	84.4	84.8	85.0	85.5	86.0
	100%	86.5	84.8	85.3	85.9	84.6	85.6	86.2
	25%	0.47	0.41	0.37	0.34	0.54	0.49	0.45
Power Factor	50%	0.70	0.63	0.58	0.55	0.76	0.72	0.69
I OWEI FACIOI	75%	0.81	0.76	0.72	0.69	0.85	0.82	0.80
	100%	0.86	0.83	0.80	0.77	0.89	0.87	0.86

Drive end Non drive end Foundation loads

6205 ZZ Bearing type 6204 ZZ Max. traction : 132 lb Sealing V'Ring V'Ring : 185 lb Max. compression

Lubrication interval Lubricant amount

Lubricant type Mobil Polyrex EM

Notes

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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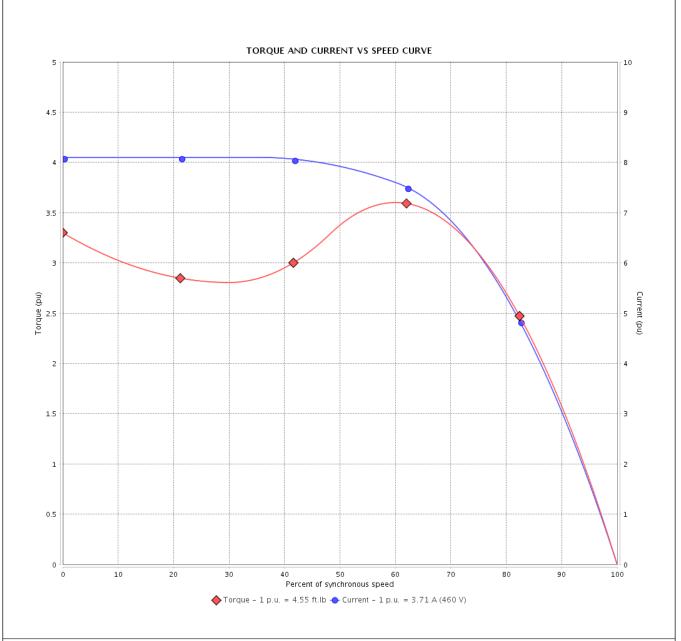
Customer :

Product line : NEMA Premium Efficiency Three- Product co

Phase

Product code: 13468368

Catalog #: 00336ET3ER145TC-W22



Performance	: 230/460 V 60 Hz 2P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 7.42/3.71 A : 8.1 : 4.55 ft.lb : 330 % : 360 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise	: 0.0605 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K	
Rated speed	: 3460 rpm	Design	: B	
Looked materations	· OFa (aald) 44a (bat)			

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: 13468368 Catalog #: 00336ET3ER145TC-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Current Torque (pu) 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 3.63 ft.lb ◆ Current - 1 p.u. = 3.24 A (380 V) Performance : 380 V 50 Hz 2P IE3 Rated current : 3.24 A Moment of inertia (J) : 0.0605 sq.ft.lb **LRC** : 8.6 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 3.63 ft.lb : 400 % Locked rotor torque Service factor : 1.25 Breakdown torque : 400 % Temperature rise : 80 K Rated speed : 2890 rpm Design : B Locked rotor time : 25s (cold) 14s (hot) Date Rev. Performed Checked **Changes Summary**

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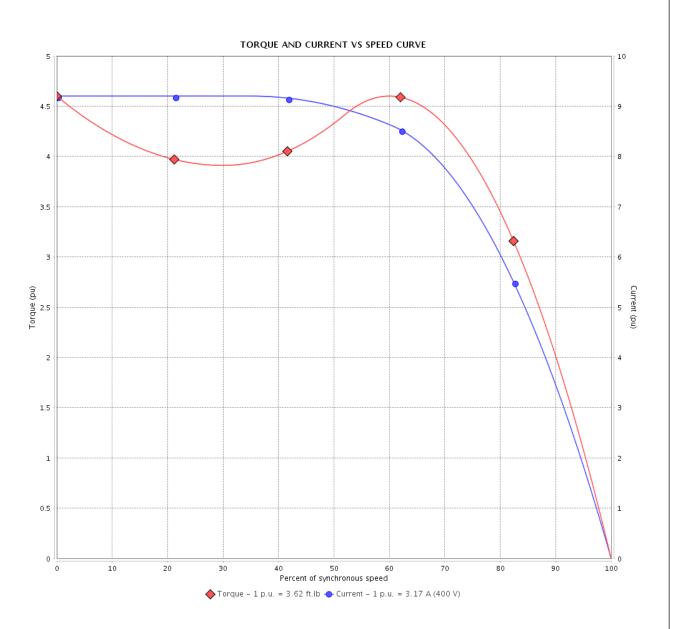
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 13468368

Catalog #: 00336ET3ER145TC-W22



Performance : 400 V 50 Hz 2P IE3 Rated current : 3.17 A Moment of inertia (J) : 0.0605 sq.ft.lb **LRC** : 9.2 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 3.62 ft.lb Service factor Locked rotor torque : 459 % : 1.00 Breakdown torque : 459 % Temperature rise : 80 K Rated speed : 2905 rpm Design : B Locked rotor time : 23s (cold) 13s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 13468368 Catalog #: 00336ET3ER145TC-W22 TORQUE AND CURRENT VS SPEED CURVE Torque (pu) 40 50 60 Percent of synchronous speed ◆ Torque - 1 p.u. = 3.61 ft.lb ◆ Current - 1 p.u. = 3.15 A (415 V)

Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.15 A : 9.5 : 3.61 ft.lb : 490 % : 509 % : 2910 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0605 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Locked rotor time	: 23s (cold) 13s (hot)		-	

		22 (33.4) 133 (1.31)			
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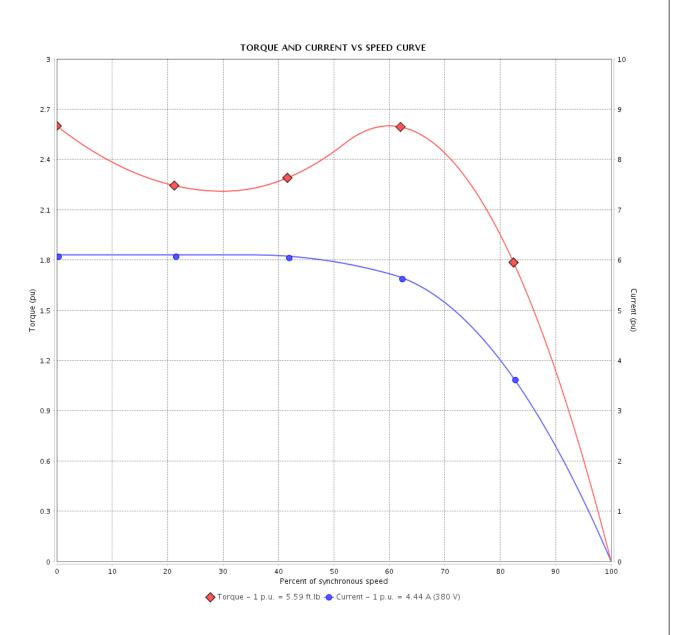


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13468368

Phase

Catalog #: 00336ET3ER145TC-W22



Performance	: 380 V 50 Hz 2P IE2		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.44 A : 6.1 : 5.59 ft.lb : 260 % : 260 % : 2820 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0605 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B
Locked rotor time	: 25s (cold) 14s (hot)		

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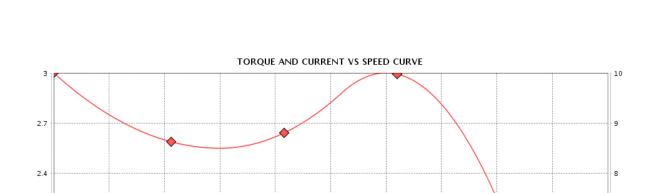
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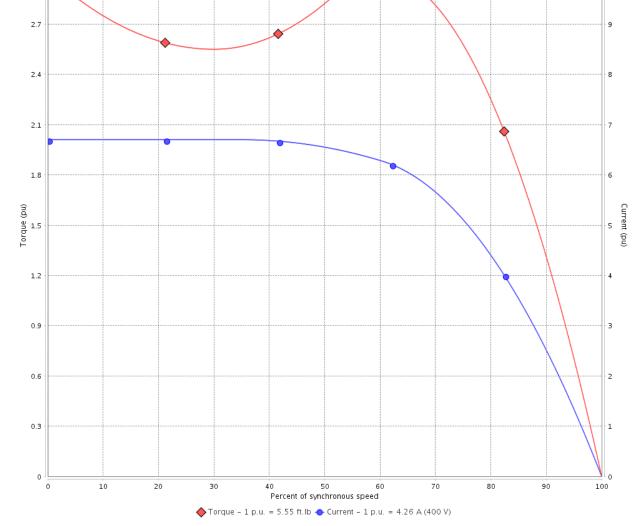


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Customer Product line : NEMA Premium Efficiency Three-Product code: 13468368

Catalog #:





Performance : 400 V 50 Hz 2P IE2 Rated current : 4.26 A Moment of inertia (J) : 0.0605 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 5.55 ft.lb Locked rotor torque : 300 % Service factor : 1.00 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 2840 rpm Design : B

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

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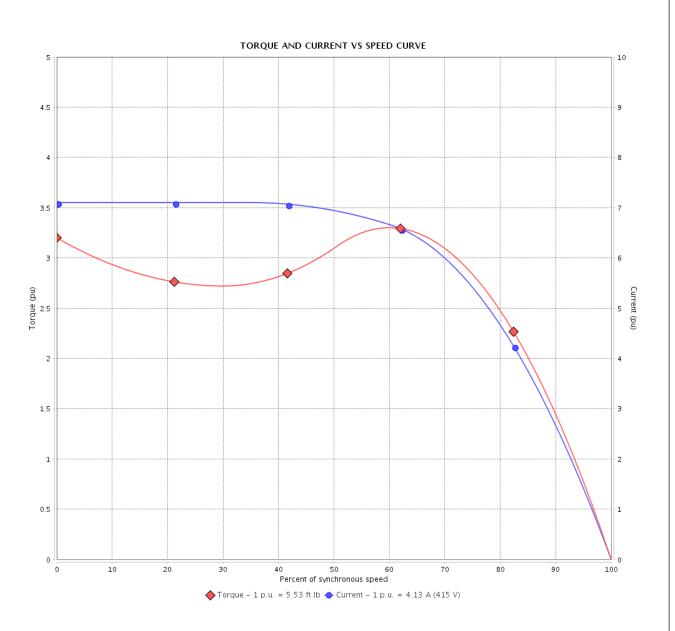


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13468368

Phase

Catalog #: 00336ET3ER145TC-W22



Performance	: 415 V 50 Hz 2P IE3			
Rated current	: 4.13 A	Moment of inertia (J)	: 0.0605 sq.ft.lb	
LRC	: 7.1	Duty cycle	: Cont.(S1)	
Rated torque	: 5.53 ft.lb	Insulation class	: F	
Locked rotor torque	: 320 %	Service factor	: 1.00	
Breakdown torque	: 330 %	Temperature rise	: 80 K	
Rated speed	: 2850 rpm	Design	: B	
<u> </u>	00 (10 40 (10			
Locked rotor time	: 23s (cold) 13s (hot)			

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

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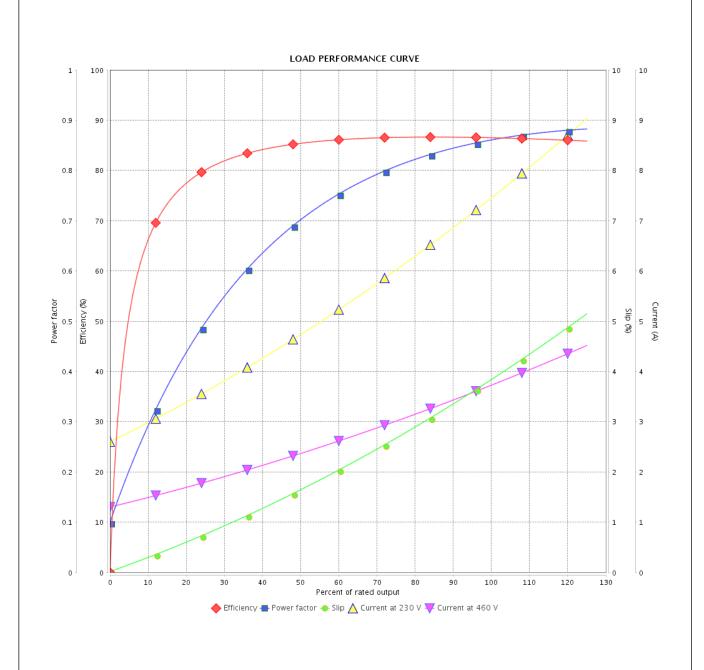


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13468368

Phase

Catalog #: 00336ET3ER145TC-W22



Performance	:	230/460 V 60 Hz 2P				
Rated current	:	7.42/3.71 A	Moment o	f inertia (J)	: 0.0605 sq.ft	.lb
LRC	:	8.1	Duty cycle	` '	: Cont.(S1)	
Rated torque	:	4.55 ft.lb	Insulation		: F ` ´	
Locked rotor torq	ue :	330 %	Service fa	ctor	: 1.25	
Breakdown torqu	ie :	360 %	Temperati	Temperature rise		
Rated speed	:	3460 rpm	Design		: B	
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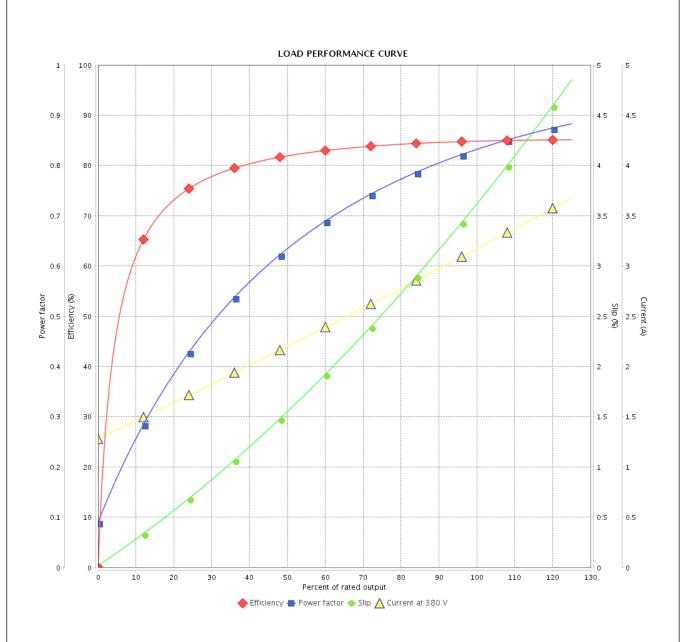
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Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.24 A : 8.6 : 3.63 ft.lb : 400 % : 400 % : 2890 rpm	Moment of inerti Duty cycle Insulation class Service factor Temperature rise Design	• •	: 0.0605 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
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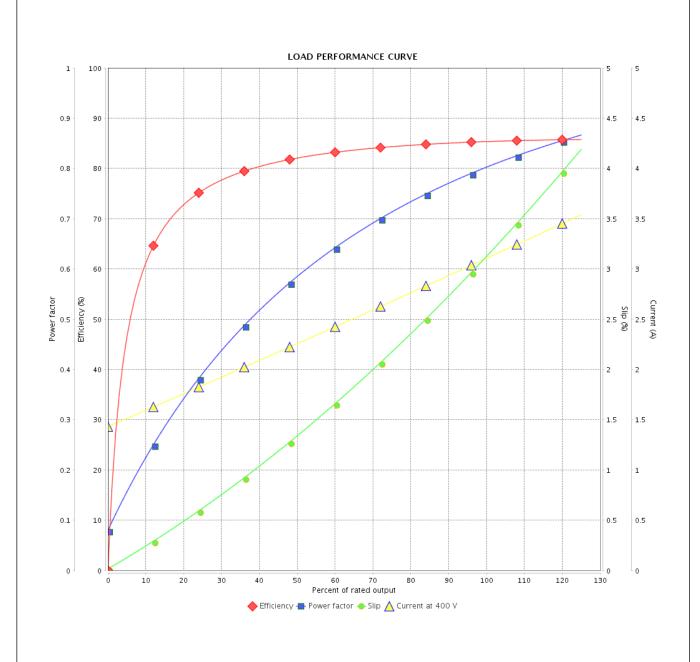


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Phase

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Performance	: 4	00 V 50 Hz 2P IE3					
Rated current	: 3	.17 A	Moment o	Moment of inertia (J)		.lb	
LRC	: 9	.2	Duty cycle	:	: Cont.(S1)		
Rated torque	: 3	.62 ft.lb	Insulation	class	: F		
Locked rotor torqu	e :4	59 %	Service fa	ctor	: 1.00		
Breakdown torque	: 4	59 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 2	905 rpm	Design		: B		
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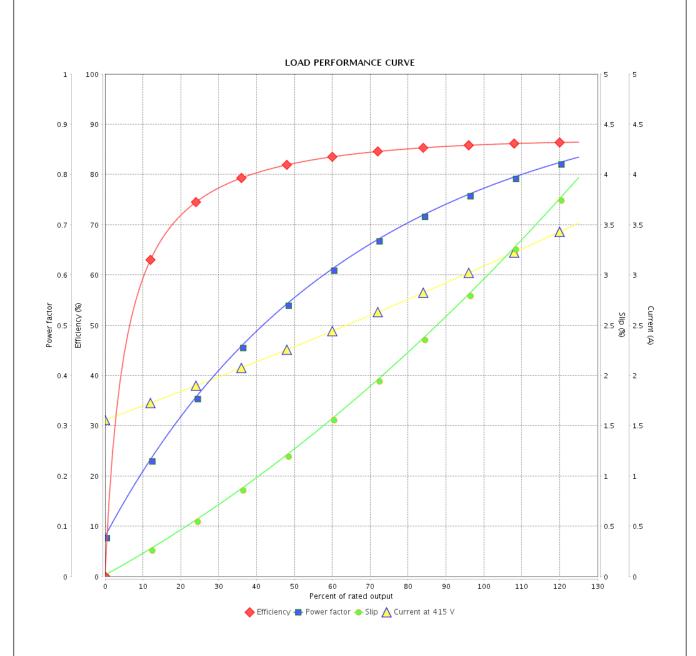
Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13468368

Phase

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Performance	: 4	15 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu	: 9. : 3. ue : 49	15 A 5 61 ft.lb 90 % 09 %	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		.lb
Rated speed	: 29	910 rpm	Design			: B
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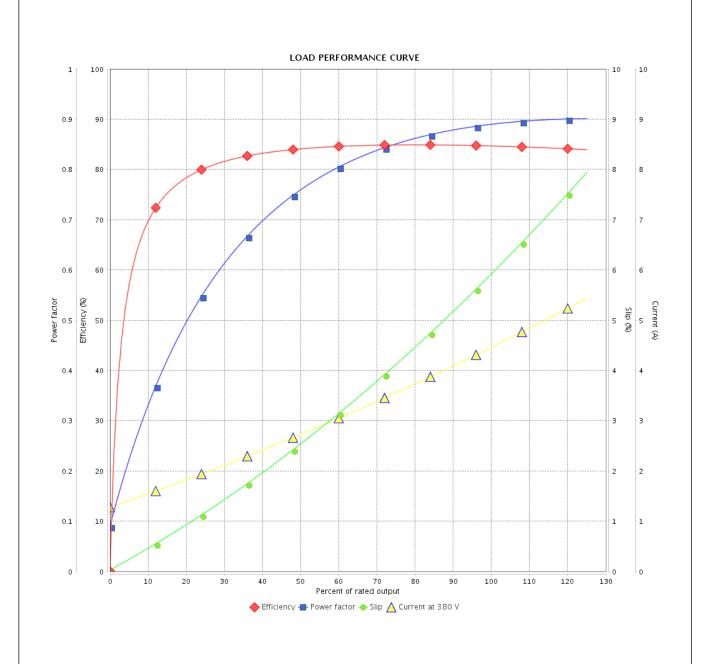


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Product line : NEMA Premium Efficiency Three- Product code : 13468368

Phase

Catalog #: 00336ET3ER145TC-W22



Performance	: 3	80 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 6 : 5 e : 2	44 A 1 59 ft.lb 60 % 60 %	Moment o Duty cycle Insulation Service fa Temperati	class ctor	: 0.0605 sq.ft. : Cont.(S1) : F : 1.25 : 80 K	lb
Rated speed		820 rpm	• • • • • • • • • • • • • • • • • • •		: B	
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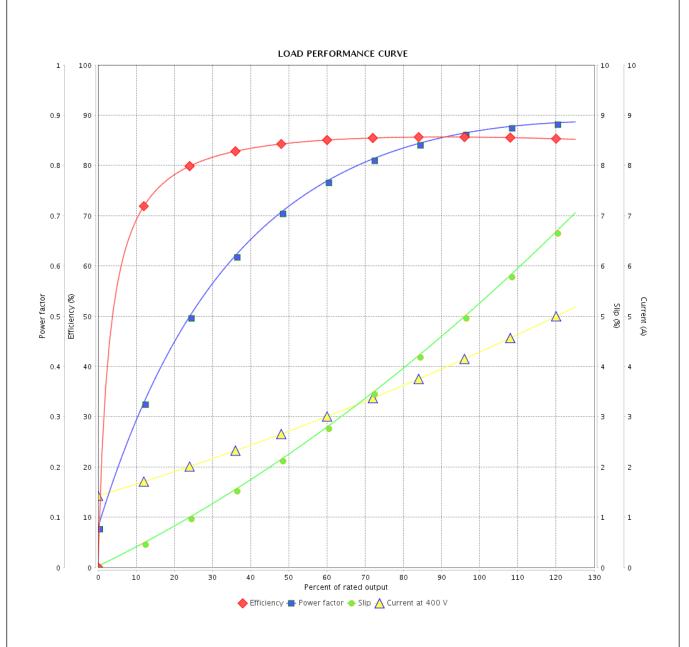
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Performance	: 4	100 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 5 que : 3	1.26 A 5.7 5.55 ft.lb 800 % 8840 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 0.0605 sq.ft.l : Cont.(S1) : F : 1.00 : 80 K : B	b
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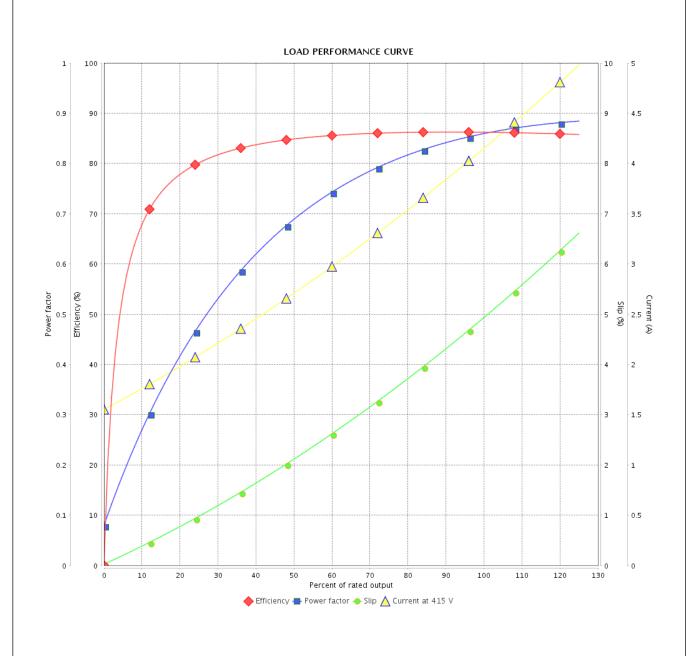


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Product line : NEMA Premium Efficiency Three- Product code : 13468368

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Catalog #: 00336ET3ER145TC-W22



Performance	: 4	115 V 50 Hz 2P IE3				
Rated current	: 4	1.13 A	Moment o	f inertia (J)	: 0.0605 sq.ft	.lb
LRC	: 7	7.1	Duty cycle	;	: Cont.(S1)	
Rated torque	: 5	5.53 ft.lb	Insulation	class	: F	
Locked rotor torqu	e :3	320 %	Service fa	ctor	: 1.00	
Breakdown torque	: 3	330 %	Temperati	Temperature rise : 80 K		
Rated speed	: 2	2850 rpm	Design		: B	
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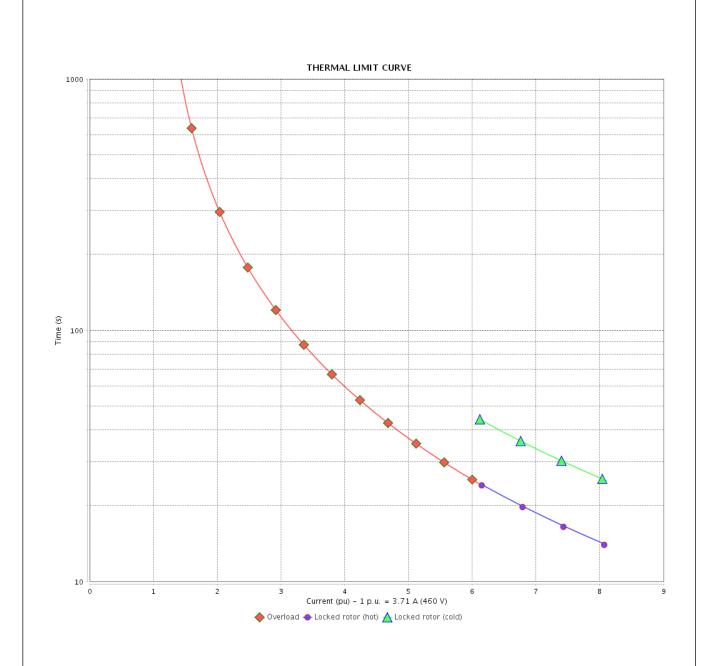


Customer	:			<u>.</u>	
Product line	: NEMA Premium Efficier Phase		Product code : Catalog # :	13468368 00336ET3EF	R145TC-W22
Performance	: 230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 7.42/3.71 A : 8.1 : 4.55 ft.lb : 330 % : 360 %	Moment of Duty cycle Insulation Service fa	class actor	: 0.0605 sq.ft. : Cont.(S1) : F : 1.25 : 80 K	b
Rated speed Heating constant	: 3460 rpm	Design		: B	
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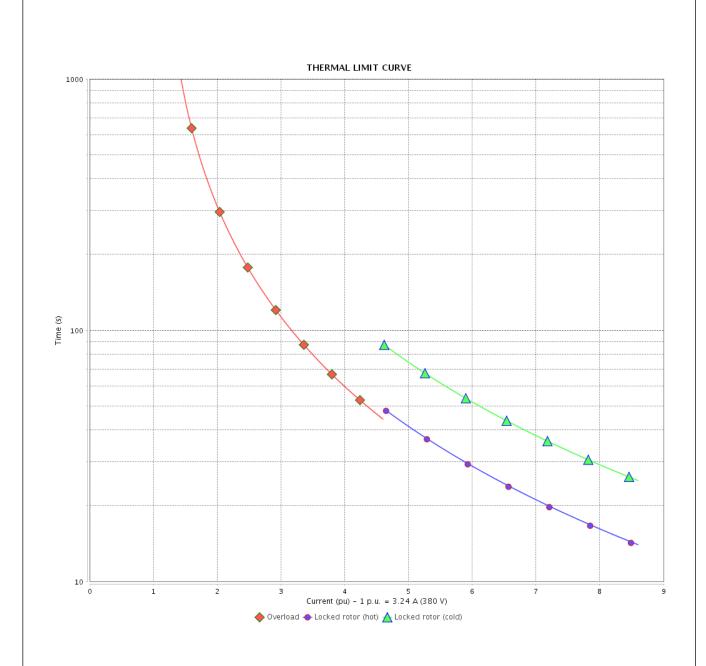


Customer		:				
Product line		: NEMA Premium Efficiency [*] Phase		Product code : Catalog # :	13468368 00336ET3ER	145TC-W22
Performance		380 V 50 Hz 2P IE3				
Rated current		3.24 A	Moment o	f inertia (J)	: 0.0605 sq.ft.ll)
LRC	:	8.6	Duty cycle	;	: Cont.(S1)	
Rated torque		3.63 ft.lb	Insulation Service fa		: F : 1.25	
Locked rotor tord Breakdown torqu		400 % 400 %	Temperati		: 1.25 : 80 K	
Rated speed		2890 rpm	Design		: B	
Heating constant						
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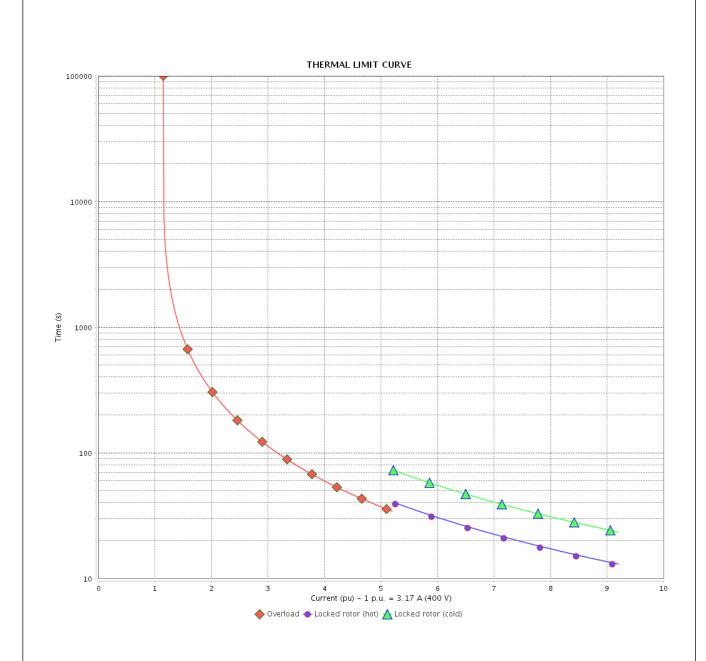


Customer		:				
Product line		: NEMA Premium Efficiency [*] Phase		Product code : Catalog # :	13468368 00336ET3EF	R145TC-W22
Dorformana		400 V 50 LI= 2D IF2				
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: : que :	400 V 50 Hz 2P IE3 3.17 A 9.2 3.62 ft.lb 459 % 459 % 2905 rpm	Moment o Duty cycle Insulation Service fa Temperati Design	class ctor	: 0.0605 sq.ft.l : Cont.(S1) : F : 1.00 : 80 K : B	b
Heating constant	t		2001911			
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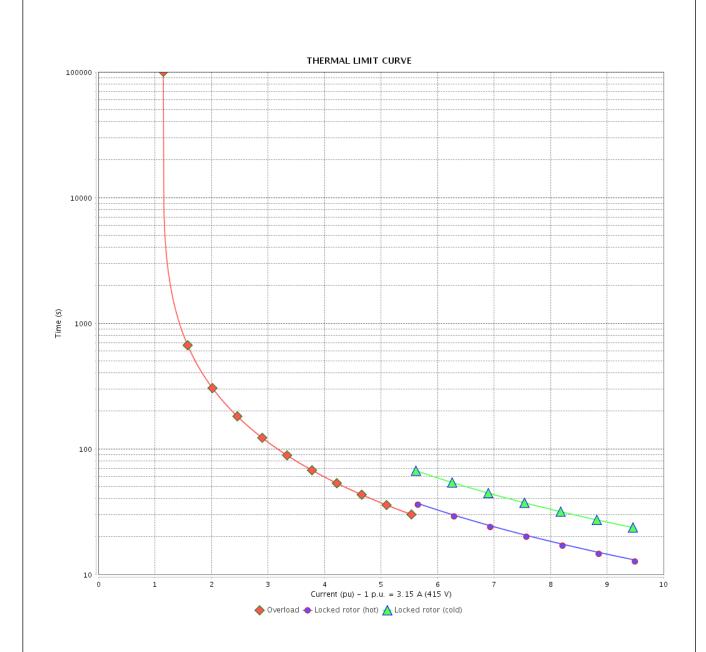


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13468368 00336ET3EF	R145TC-W22
Performance		: 415 V 50 Hz 2P IE3				
Rated current LRC		: 3.15 A : 9.5	Moment of Duty cycle	of inertia (J)	: 0.0605 sq.ft.l : Cont.(S1)	b
Rated torque Locked rotor tord		: 3.61 ft.lb : 490 %	Insulation Service fa	class	: F : 1.00	
Breakdown torqu	ue	: 509 %	Temperat		: 80 K	
Rated speed		: 2910 rpm	Design		: B	
Heating constan						
Cooling constant	t 	Changes Summary		Performed	Checked	Date
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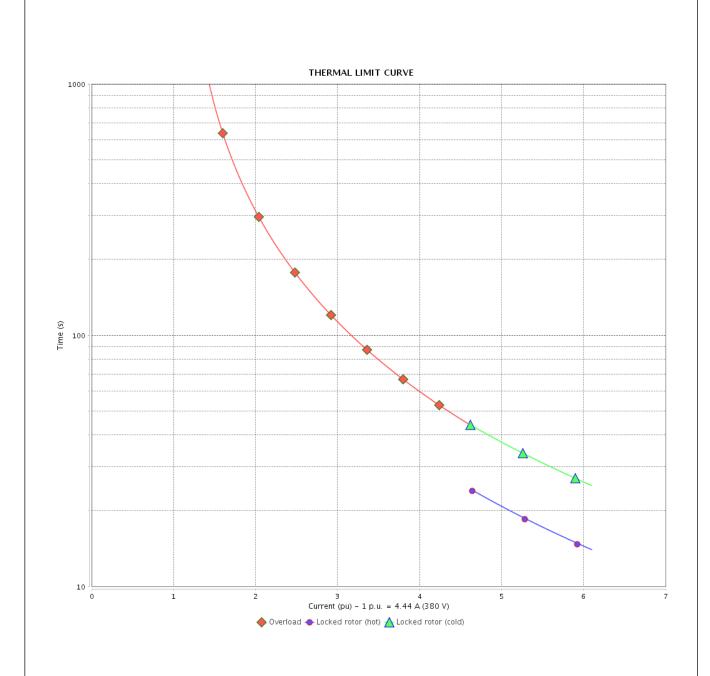


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code :	13468368 00336ET3EF	R145TC-W22
Performance Rated current LRC Rated torque Locked rotor torqu Breakdown torque Rated speed Heating constant Cooling constant Rev.	: 4. : 6. : 5. e : 20	80 V 50 Hz 2P IE2 .44 A .1 .59 ft.lb 60 % 60 % 820 rpm	Moment or Duty cycle Insulation Service far Temperatu Design	class ctor	: 0.0605 sq.ft.I : Cont.(S1) : F : 1.25 : 80 K : B	b
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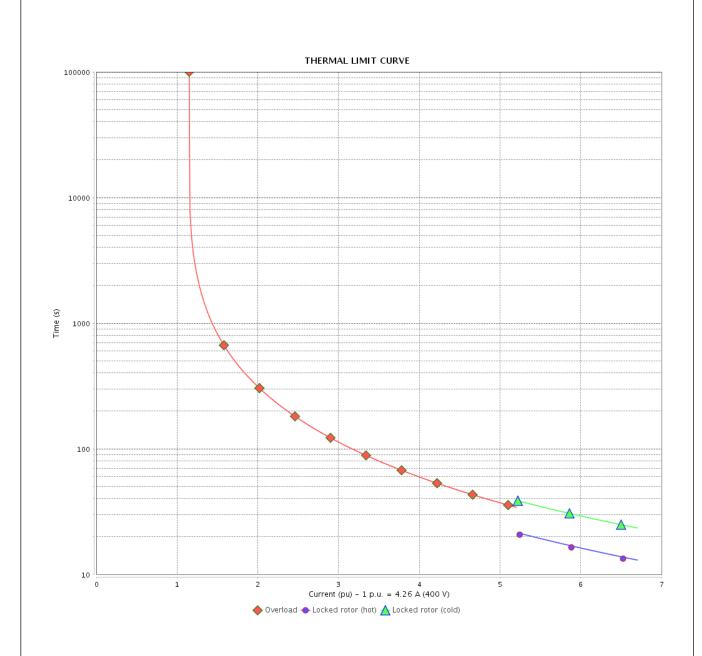


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13468368 00336ET3EF	R145TC-W22
Performance		: 400 V 50 Hz 2P IE2				
Rated current LRC	:	: 4.26 A : 6.7	Duty cycle		: 0.0605 sq.ft.l : Cont.(S1)	b
Rated torque Locked rotor tord		: 5.55 ft.lb : 300 %	Insulation Service fa		: F : 1.00	
Breakdown torqu Rated speed	ue :	: 300 % : 2840 rpm	Temperat Design		: 80 K : B	
Heating constan		·				
Cooling constant	t					
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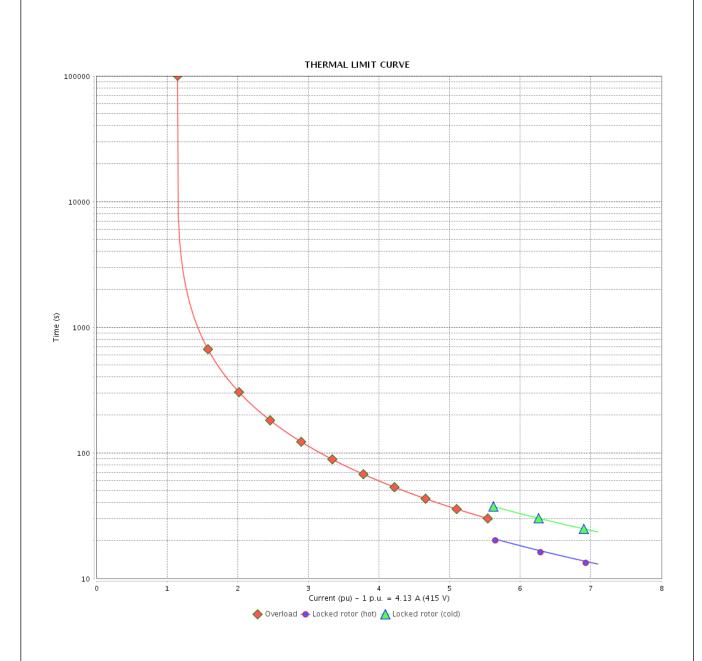


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13468368 00336ET3EF	1145TC-W22
Performance		: 415 V 50 Hz 2P IE3				
Rated current LRC		: 4.13 A : 7.1	Moment of Duty cycle	of inertia (J)	: 0.0605 sq.ft.l : Cont.(S1)	b
Rated torque		: 5.53 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 320 % : 330 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 2850 rpm	Design		: B	
Heating constant						
Cooling constant	Ţ.	Changes Summary		Performed	Checked	Date
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Product line : NEMA Premium Efficiency Three-

Phase

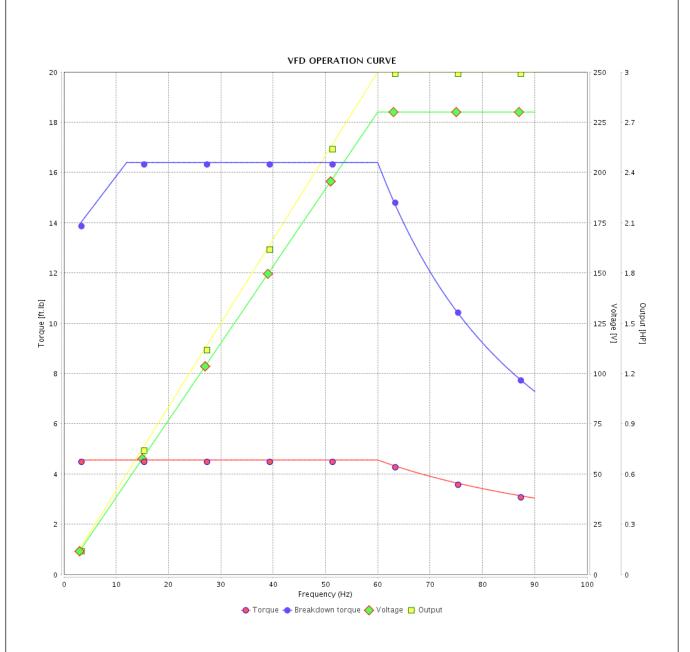
Product code: 13468368

Catalog #: 00336ET3ER145TC-W22

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Performance : 230/460 V 60 Hz 2P : 7.42/3.71 A Rated current Moment of inertia (J) : 0.0605 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 8.1 Insulation class Rated torque : 4.55 ft.lb : F Locked rotor torque : 330 % Service factor : 1.25 Breakdown torque : 360 % Temperature rise : 80 K Rated speed : 3460 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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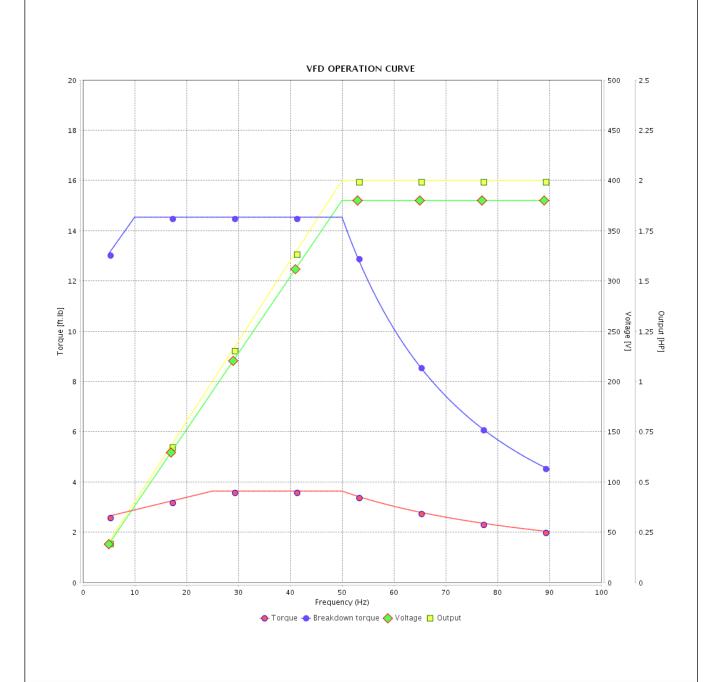
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

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13468368



Performance	:	380 V 50 Hz 2P IE3				
Rated current	:	: 3.24 A		f inertia (J)	: 0.0605 sq.ft.lb	
LRC	:	8.6	Duty cycle	•	: Cont.(S1)	
Rated torque	:	3.63 ft.lb	Insulation	class	: F	
Locked rotor tord	que :	400 %	Service fa	ctor	: 1.25	
Breakdown torqu	ie :	400 %	Temperat	Temperature rise		
Rated speed	:	2890 rpm	Design		: B	
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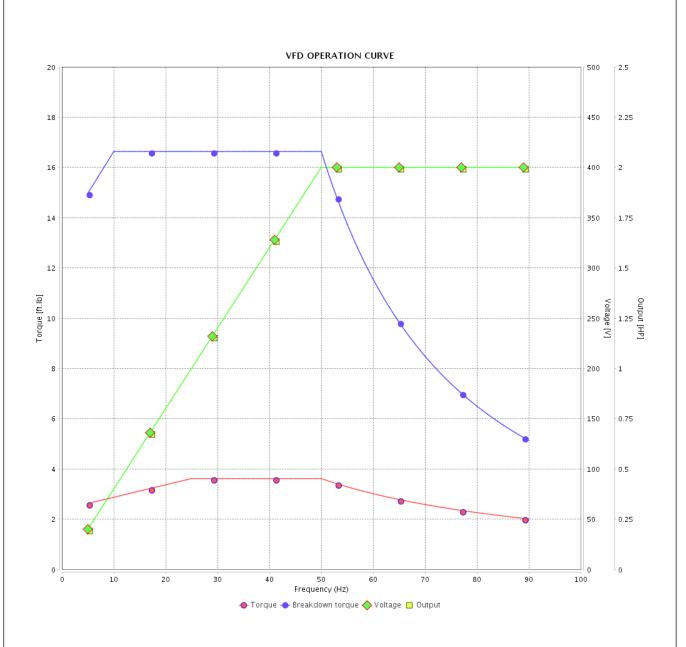
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Product line : NEMA Premium Efficiency Three- Product c

Phase

Product code: 13468368

Catalog #: 00336ET3ER145TC-W22



Performance : 400 V 50 Hz 2P IE3 Rated current : 3.17 A Moment of inertia (J) : 0.0605 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 9.2 Insulation class Rated torque : 3.62 ft.lb : F Locked rotor torque : 459 % Service factor : 1.00 Breakdown torque : 459 % Temperature rise : 80 K Rated speed : 2905 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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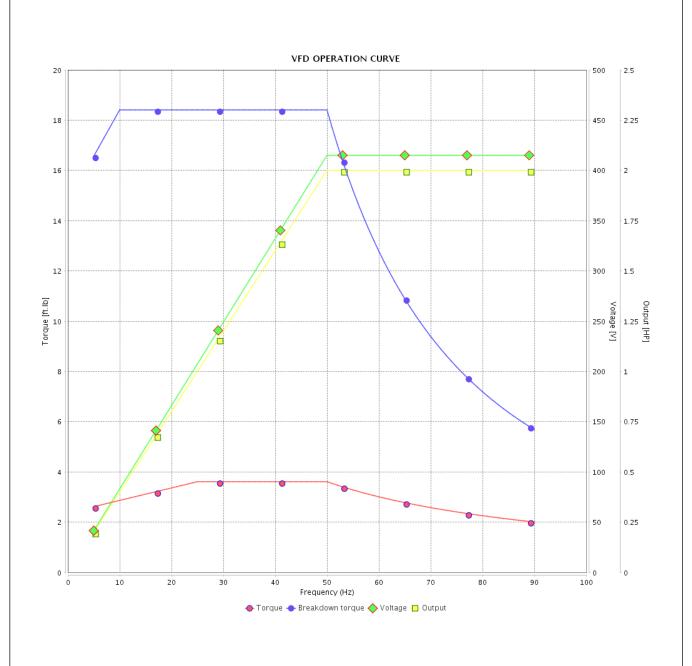


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Product line : NEMA Premium Efficiency Three- Product code : 13468368

Phase

Catalog #: 00336ET3ER145TC-W22



Performance	: 4	15 V 50 Hz 2P IE3				
Rated current	ent : 3.15 A		Moment o	f inertia (J)	: 0.0605 sq.ft.l	b
LRC	: 9	.5	Duty cycle)	: Cont.(S1)	
Rated torque	: 3	.61 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 4	90 %	Service fa	ctor	: 1.00	
Breakdown torque	: 5	09 %	Temperature rise		: 80 K	
Rated speed	: 2	910 rpm	Design		: B	
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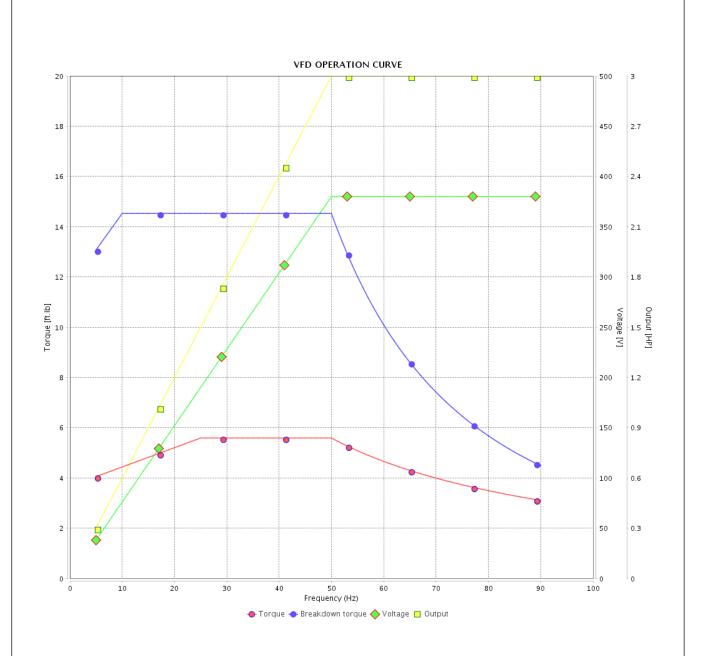
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Product line : NEMA Premium Efficiency Three-Product code: 13468368

Catalog #: 00336ET3ER145TC-W22



Performance	: 3	380 V 50 Hz 2P IE2					
Rated current	: 4	: 4.44 A Moment of		of inertia (J)	: 0.0605 sq.ft.lb		
LRC	: 6	3.1	Duty cycle	9	: Cont.(S1)		
Rated torque	: 5	5.59 ft.lb	Insulation	class	: F		
Locked rotor torqu	ie : 2	260 %	Service fa	actor	: 1.25		
Breakdown torque	: 2	260 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 2	2820 rpm	Design		: B		
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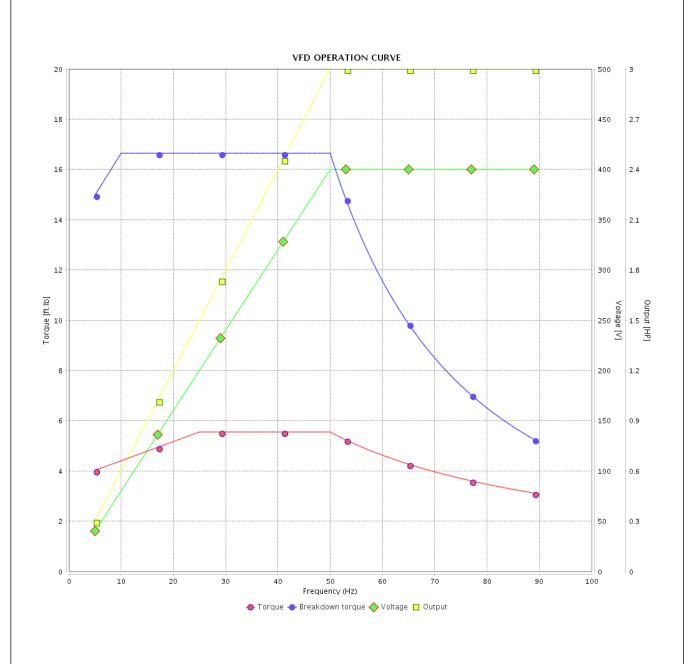


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13468368

Phase

Catalog #: 00336ET3ER145TC-W22



Performance		: 400 V 50 Hz 2P IE2					
Rated current	: 4	: 4.26 A		Moment of inertia (J)		: 0.0605 sq.ft.lb	
LRC	: 6	: 6.7 Duty cy		;	: Cont.(S1)		
Rated torque	: 5	55 ft.lb Insulation class		: F			
Locked rotor torqu	ue : 3	00 %	Service factor		: 1.00		
Breakdown torque	e : 3	00 %	Temperature rise		: 80 K		
Rated speed	: 2	: 2840 rpm		Design		: B	
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Product line : NEMA Premium Efficiency Three- Product

Phase

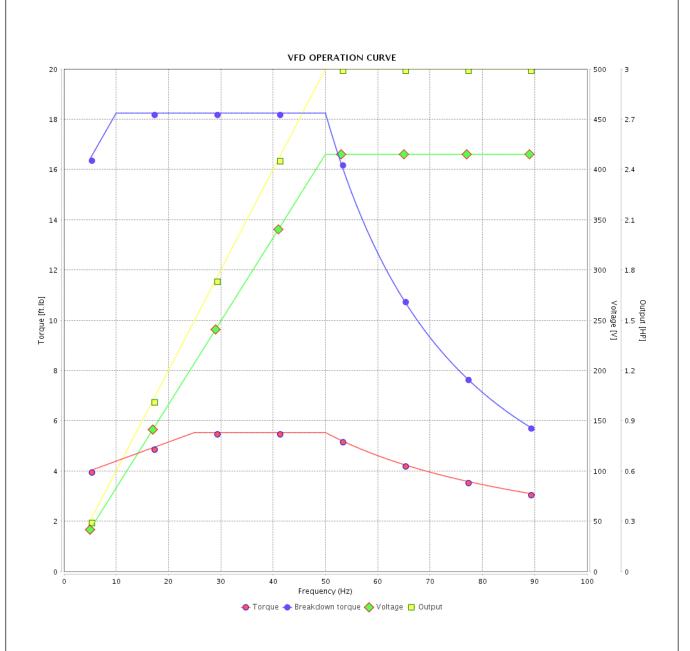
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Performance : 415 V 50 Hz 2P IE3 Rated current : 4.13 A Moment of inertia (J) : 0.0605 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) : 5.53 ft.lb Insulation class Rated torque : F Locked rotor torque : 320 % Service factor : 1.00 Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 2850 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

