DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11611958

Catalog #: 12536ET3E444TS-W22

Frame : 444/5TS 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. Approx. weight³ : 1635 lb Altitude Protection degree : IP55 Moment of inertia (J) : 33.5 sq.ft.lb

Design	: B					•	
Output [HP]	125	100	100	100	125	125	125
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]	268/134	135	128	124	163	154	148
L. R. Amperes [A]	1769/884	878	909	955	848	878	918
LRC [A]	6.6x(Code	6.5x(Code	7.1x(Code	7.7x(Code H)	5.2x(Code D)	5.7x(Code E)	6.2x(Code
	G)	G)	G)				
No load current [A]	68.0/34.0	33.6	36.0	37.9	33.6	36.0	37.9
Rated speed [RPM]	3570	2970	2970	2975	2960	2965	2970
Slip [%]	0.83	1.00	1.00	0.83	1.33	1.17	1.00
Rated torque [ft.lb]	184	177	177	177	222	221	221
Locked rotor torque [%]	200	200	210	240	160	170	190
Breakdown torque [%]	250	250	280	300	200	220	240

1.00 Service factor 1.15 1.00 1.00 1.00 1.00 1.00 80 K 80 K 80 K 80 K Temperature rise 80 K 80 K 80 K Locked rotor time 52s (cold) 36s (cold) 36s (cold) 36s (cold) 36s (cold) 36s (cold) 36s (cold) 29s (hot) 20s (hot) 20s (hot) 20s (hot) 20s (hot) 20s (hot) 20s (hot) Noise level² 81.0 dB(A) 77.0 dB(A) 77.0 dB(A) 77.0 dB(A) 77.0 dB(A) 77.0 dB(A) 77.0 dB(A) 25% 50% 93.6 93.2 93.2 92.8 94.0 94.0 94.0 Efficiency (%) 75% 94.5 94.3 94.3 94.3 94.5 94.5 94.5 100% 95.0 94.7 94.7 94.8 94.5 94.5 95.0 25% 0.79 0.77 0.85 0.82 50% 0.82 0.75 0.84 Power Factor 75% 0.87 0.87 0.87 0.85 0.88 0.88 0.87 100% 0.89 0.89 0.89 0.89 0.89 0.89 0.89

Drive end Non drive end Foundation loads Bearing type 6314 C3 6314 C3 Max. traction : 596 lb WSeal WSeal : 2231 lb Sealing Max. compression Lubrication interval 4000 h 4000 h

27 g Lubricant amount 27 g Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 296A SF 1.00 SFA 296A

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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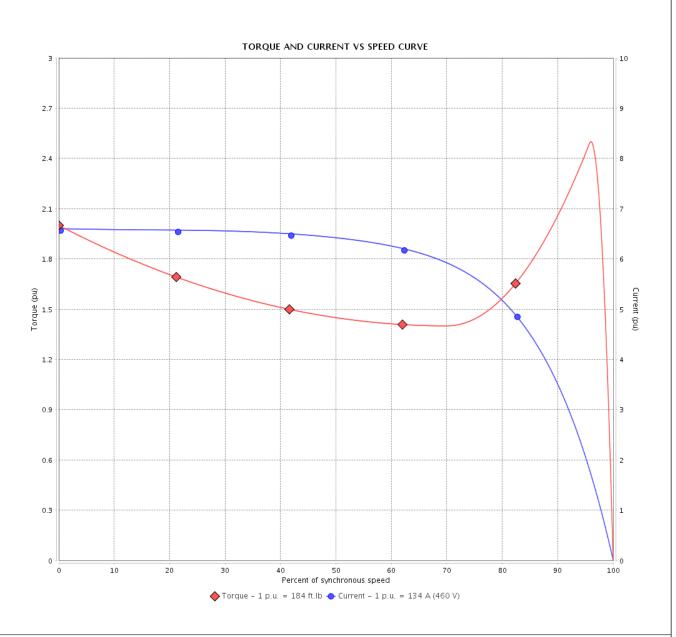
Customer :

Product line : NEMA Premium Efficiency Three- Product co

Phase

Product code: 11611958

Catalog #: 12536ET3E444TS-W22



Performance : 230/460 V 60 Hz 2P Rated current : 268/134 A Moment of inertia (J) : 33.5 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 184 ft.lb : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 3570 rpm Design : B

Locked rotor time : 52s (cold) 29s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11611958 Catalog #: 12536ET3E444TS-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 177 ft.lb ◆ Current - 1 p.u. = 135 A (380 V) Performance : 380 V 50 Hz 2P IE3 Rated current : 135 A Moment of inertia (J) : 33.5 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 177 ft.lb : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 2970 rpm Design : B Locked rotor time : 36s (cold) 20s (hot) Rev. Performed Checked Date **Changes Summary**

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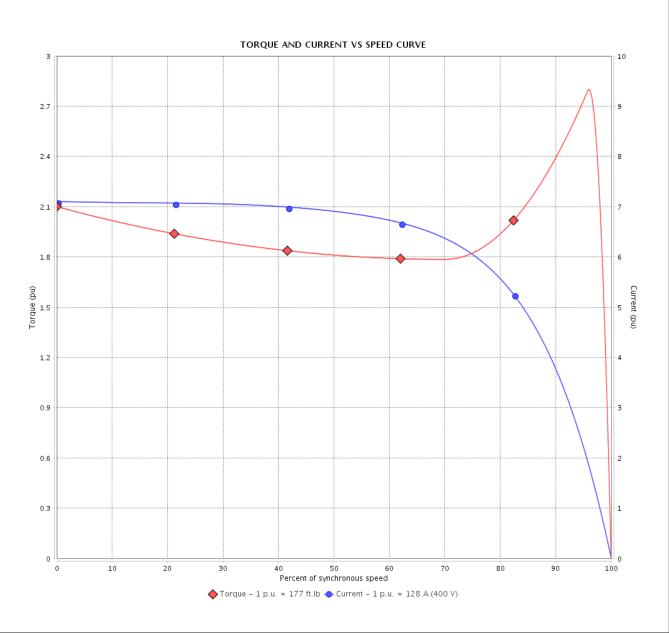
Customer :

Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 11611958

Catalog #: 12536ET3E444TS-W22



Performance : 400 V 50 Hz 2P IE3 Rated current : 128 A Moment of inertia (J) : 33.5 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 177 ft.lb : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 2970 rpm Design : B

Locked rotor time : 36s (cold) 20s (hot)

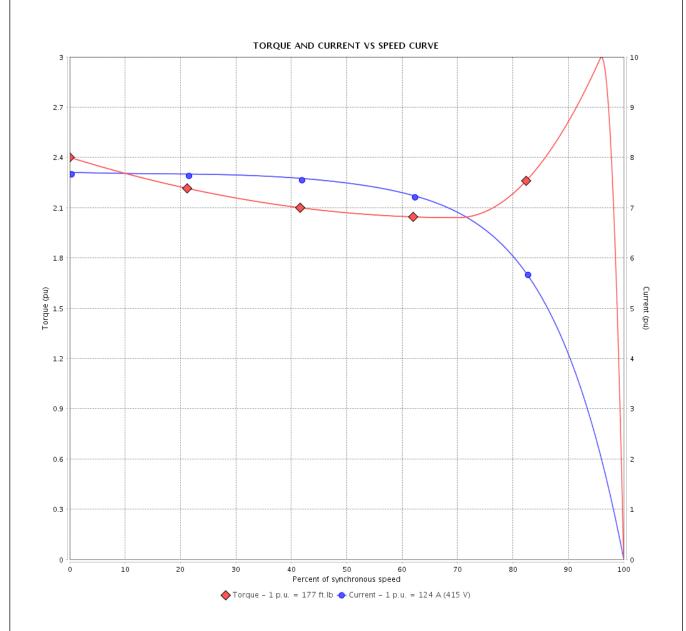
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Customer :

Product line : NEMA Premium Efficiency Three-Product code : 11611958
Phase Catalog # : 12536ET3E444TS-W22



Performance : 415 V 50 Hz 2P IE3 Rated current : 124 A Moment of inertia (J) : 33.5 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) : 177 ft.lb Insulation class Rated torque : F : 240 % Locked rotor torque Service factor : 1.00 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 2975 rpm Design : B Locked rotor time : 36s (cold) 20s (hot)

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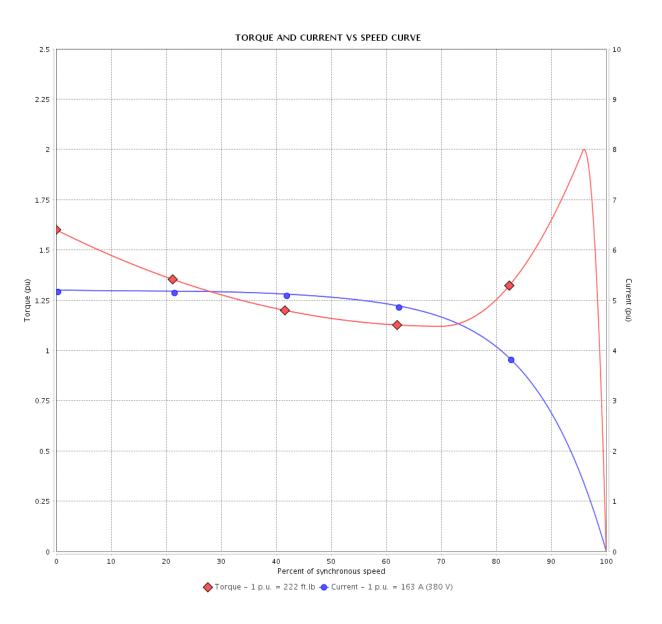
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Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11611958

Catalog #: 12536ET3E444TS-W22



Performance : 380 V 50 Hz 2P IE2 Rated current : 163 A Moment of inertia (J) : 33.5 sq.ft.lb **LRC** : 5.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 222 ft.lb : F Locked rotor torque : 160 % Service factor : 1.00 Breakdown torque : 200 % Temperature rise : 80 K Rated speed : 2960 rpm Design : B

Locked rotor time : 36s (cold) 20s (hot)

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Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11611958

Catalog #:

TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 (pd) 1.25 Current 0.5 0.25 Percent of synchronous speed ◆ Torque - 1 p.u. = 221 ft.lb ◆ Current - 1 p.u. = 154 A (400 V)

Performance : 400 V 50 Hz 2P IE2 Rated current : 154 A Moment of inertia (J) : 33.5 sq.ft.lb **LRC** : 5.7 Duty cycle : Cont.(S1) Insulation class Rated torque : 221 ft.lb : F Locked rotor torque : 170 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 80 K : B Rated speed : 2965 rpm Design Locked rotor time : 36s (cold) 20s (hot)

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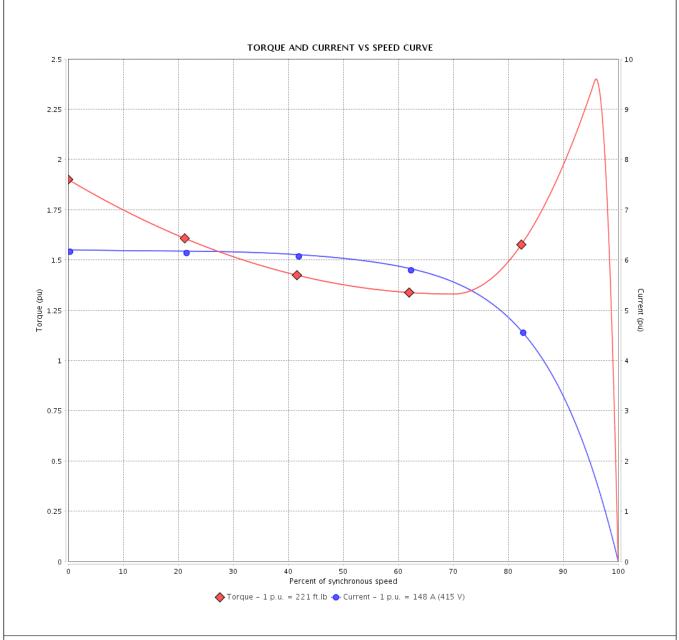
Customer :

Product line : NEMA Premium Efficiency Three- Product co

Phase

Product code: 11611958

Catalog #: 12536ET3E444TS-W22



Performance : 415 V 50 Hz 2P IE3 Rated current : 148 A Moment of inertia (J) : 33.5 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 221 ft.lb : F Service factor Locked rotor torque : 190 % : 1.00 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 2970 rpm Design : B

Locked rotor time : 36s (cold) 20s (hot)

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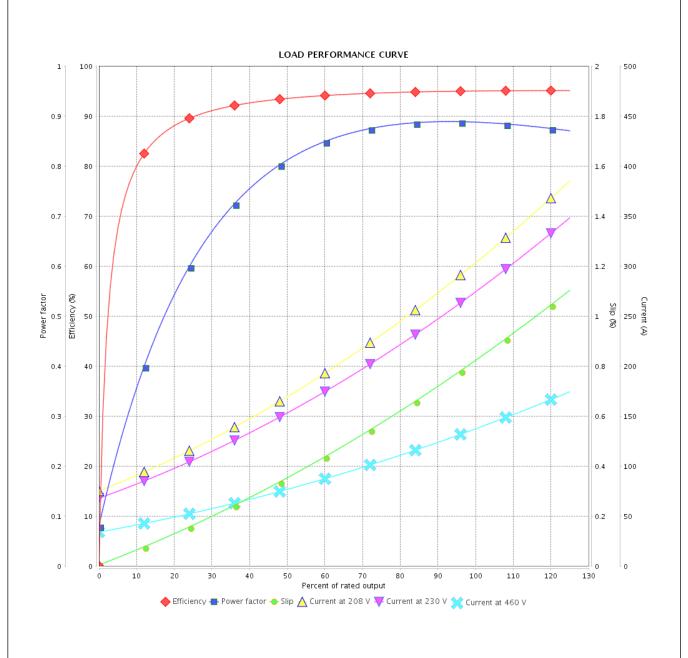
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 11611958

Phase



Performance	: 230/460 V 60 Hz 2P					
Rated current	Rated current : 268/134 A		Moment o	f inertia (J)	: 33.5 sq.ft.lb	
LRC	: 6	.6	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	84 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	00 %	Service fa	ctor	: 1.15	
Breakdown torque	: 2	50 %	Temperature rise		: 80 K	
Rated speed	: 3	570 rpm	Design		: B	
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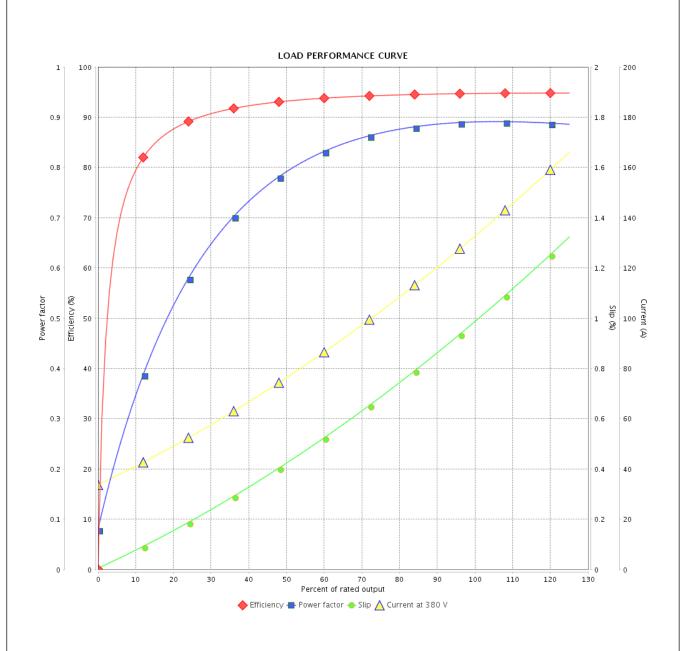


Customer :

Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 11611958



Performance	: 3	80 V 50 Hz 2P IE3				
Rated current	: 1	: 135 A		of inertia (J)	: 33.5 sq.ft.lb	
LRC	: 6	.5	Duty cycle	9	: Cont.(S1)	
Rated torque	: 1	77 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 2	00 %	Service fa	actor	: 1.00	
Breakdown torqu	e : 2	50 %	Temperature rise		: 80 K	
Rated speed	: 2	970 rpm	Design		: B	
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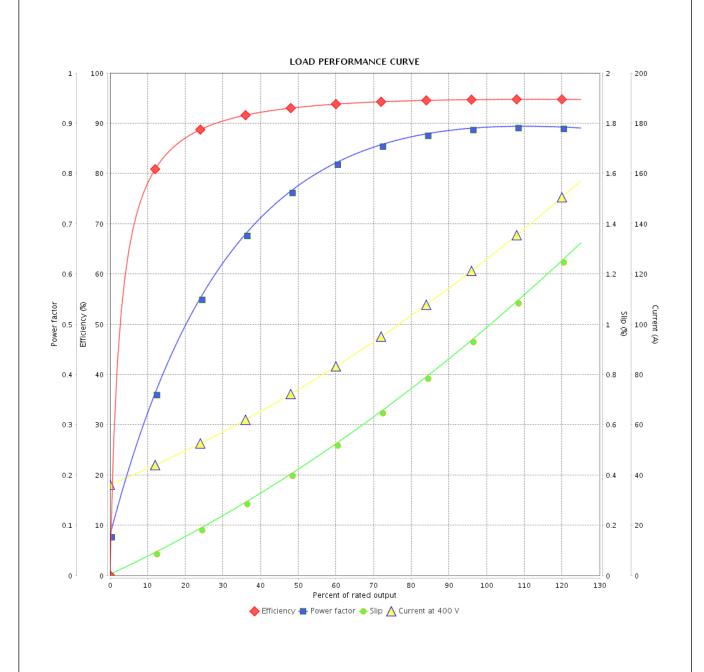
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 11611958

Phase



Performance	: 40	00 V 50 Hz 2P IE3				
Rated current	: 1:	: 128 A		f inertia (J)	: 33.5 sq.ft.lb	
LRC	: 7.	.1	Duty cycle)	: Cont.(S1)	
Rated torque	: 1	77 ft.lb	Insulation	class	: F	
Locked rotor torqu	.e : 2	10 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 28	80 %	Temperature rise		: 80 K	
Rated speed	: 29	970 rpm	Design		: B	
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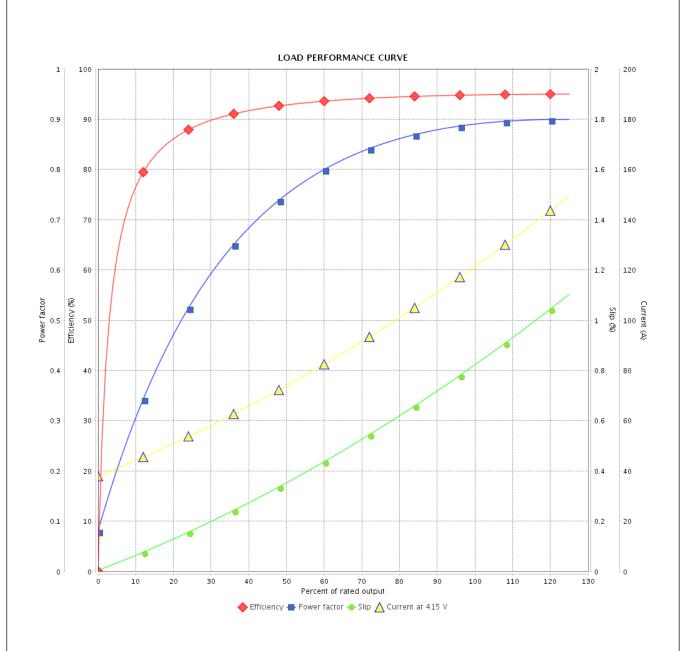


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 12536ET3E444TS-W22

11611958



Performance	: 4	15 V 50 Hz 2P IE3				
Rated current	ted current : 124 A		Moment o	of inertia (J)	: 33.5 sq.ft.lb	
LRC	: 7	'.7	Duty cycle	e	: Cont.(S1)	
Rated torque	: 1	77 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 2	240 %	Service fa	ictor	: 1.00	
Breakdown torqu	e : 3	800 %	Temperati	Temperature rise		
Rated speed	: 2	2975 rpm	Design		: B	
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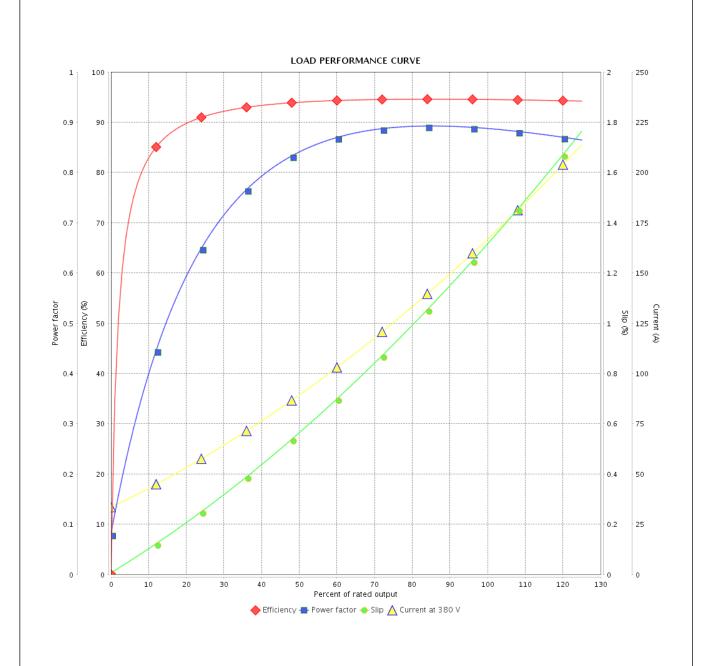
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 11611958

Phase



Performance	: 3	: 380 V 50 Hz 2P IE2				
Rated current	ated current : 163 A		Moment o	f inertia (J)	: 33.5 sq.ft.lb	
LRC	: 5	.2	Duty cycle	!	: Cont.(S1)	
Rated torque	: 2	22 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 1	60 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	00 %	Temperature rise		: 80 K	
Rated speed	: 2	960 rpm	Design		: B	
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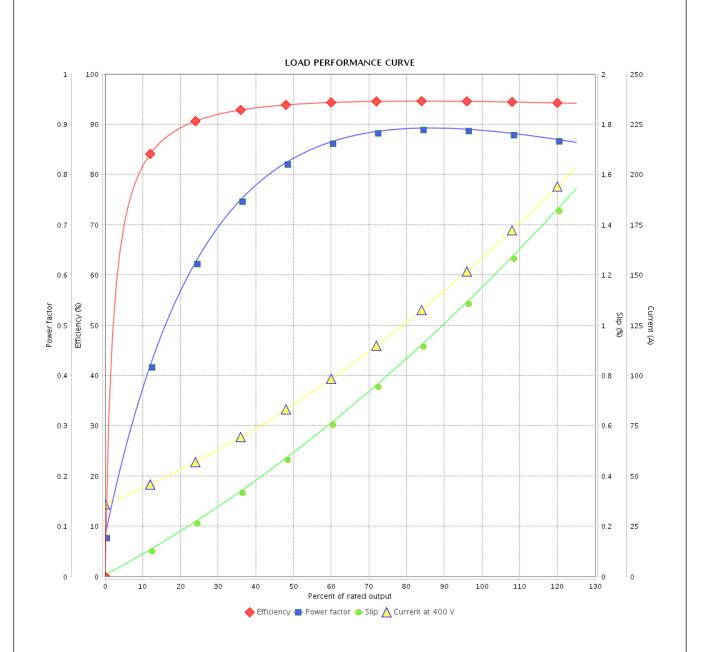
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11611958

Phase

Catalog #: 12536ET3E444TS-W22

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		·-			
Performance	: 400 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 154 A : 5.7 : 221 ft.lb : 170 % : 220 % : 2965 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class	: 33.5 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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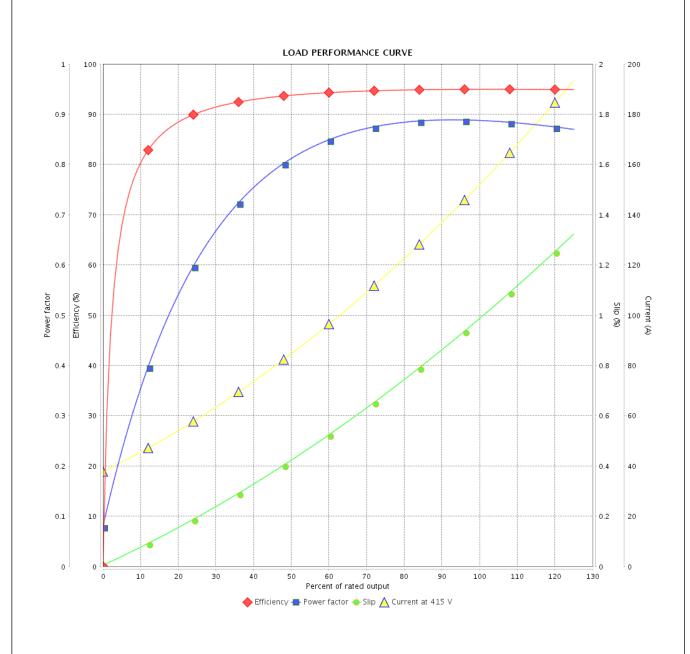
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11611958

Phase

Catalog #: 12536ET3E444TS-W22

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Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 148 A : 6.2 : 221 ft.lb : 190 % : 240 % : 2970 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 33.5 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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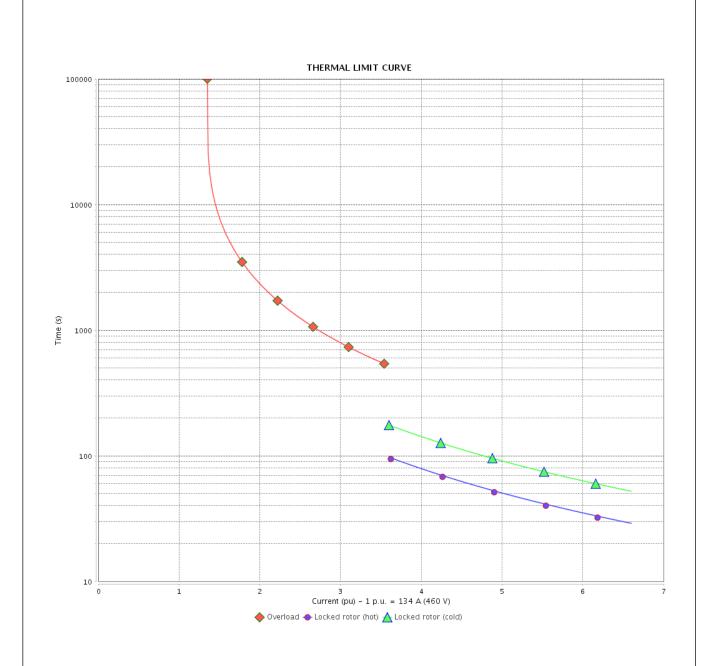


Customer	:					
Product line		NEMA Premium Efficiency [*] Phase		Product code :	11611958	44TC W/22
				Catalog # :	12536ET3E4	44TS-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed Heating constant	: 2 : 6 : 1 e : 2	230/460 V 60 Hz 2P 268/134 A 6.6 84 ft.lb 200 % 250 %	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 33.5 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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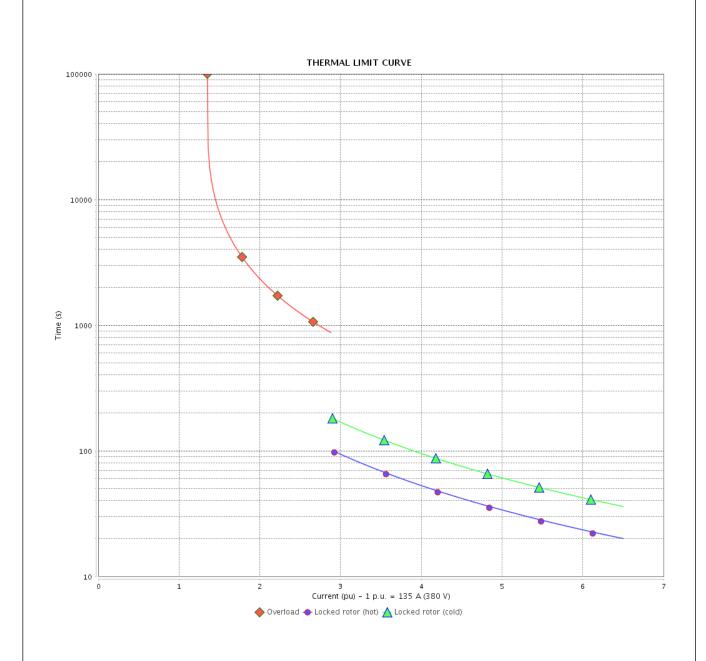


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11611958 12536ET3E44	14TS-W22
Performance		: 380 V 50 Hz 2P IE3	I			
Rated current LRC		: 135 A : 6.5	Moment of Duty cycle	of inertia (J) e	: 33.5 sq.ft.lb : Cont.(S1)	
Rated torque		: 177 ft.lb : 200 %	Insulation Service fa	class	: F : 1.00	
Locked rotor tord Breakdown torqu		: 250 % : 250 %	Temperat		: 80 K	
Rated speed		: 2970 rpm	Design		: B	
Heating constan						
Cooling constant	Ţ.	Changes Summers		Performed	Checked	Date
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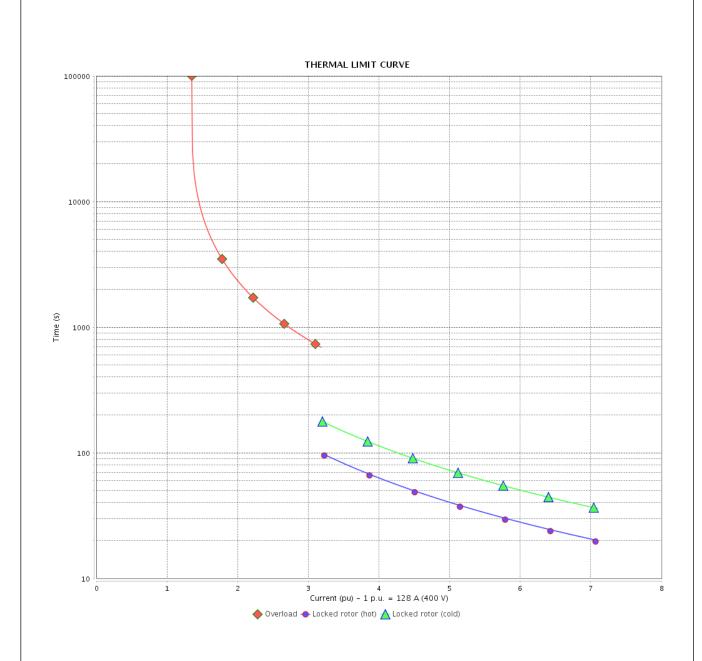


Customer		:				
Product line		: NEMA Premium Efficiency ⁷ Phase		Product code :	11611958 12536ET3E44	4TS-W22
				Catalog # .	12330E13E44	413-WZZ
Desfermen		400 V 50 H- 0D IF0				
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	ue que	128 A 7.1 177 ft.lb 210 % 280 % 2970 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 33.5 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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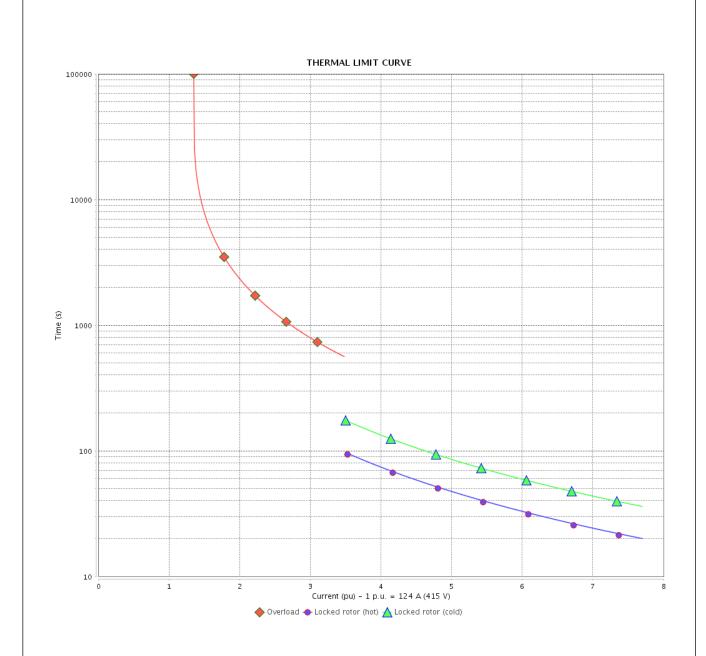


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11611958 12536ET3E44	14TS-W22
					1200021021	
Performance		: 415 V 50 Hz 2P IE3				
Rated current LRC		: 124 A : 7.7	Moment of Duty cycle	of inertia (J) e	: 33.5 sq.ft.lb : Cont.(S1)	
Rated torque		: 177 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 240 % : 300 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 2975 rpm	Design		: B	
Heating constan						
Cooling constant	t	Change - O		De-re-	Obli !	D-4-
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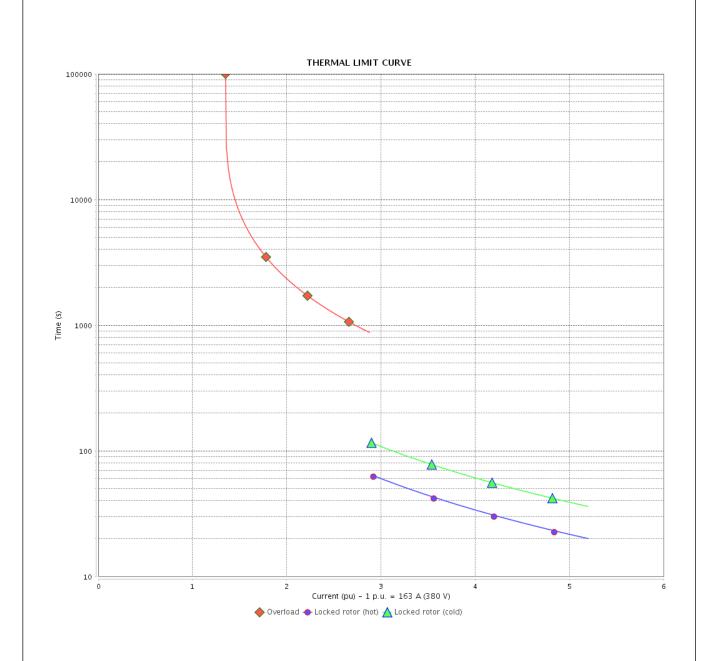


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11611958 12536ET3E44	14TS-W22
Performance		: 380 V 50 Hz 2P IE2				
Rated current LRC		: 163 A : 5.2	Duty cycle		: 33.5 sq.ft.lb : Cont.(S1)	
Rated torque		: 222 ft.lb : 160 %	Insulation Service fa		: F : 1.00	
Locked rotor tord Breakdown torqu		: 160 % : 200 %	Temperat		: 1.00 : 80 K	
Rated speed		: 2960 rpm	Design		: B	
Heating constan						
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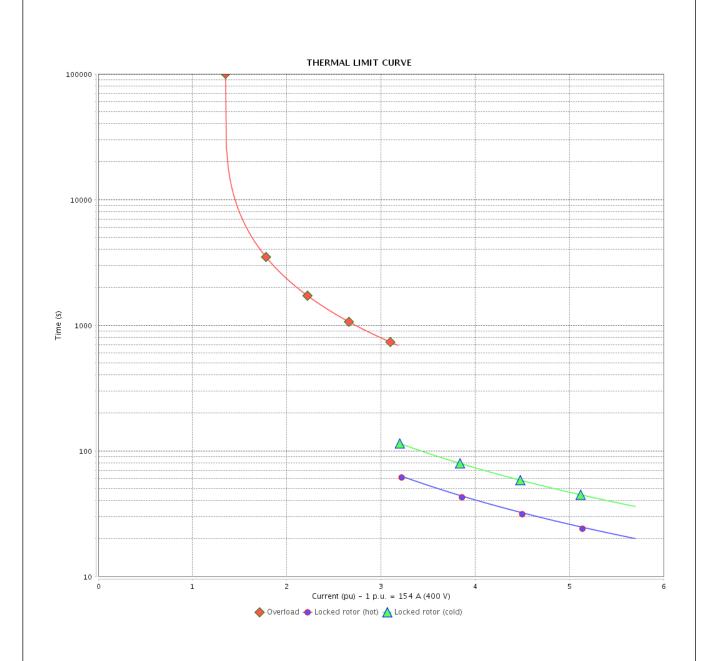


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11611958 12536ET3E44	4TS-W22
Performance		: 400 V 50 Hz 2P IE2				
Rated current LRC		: 154 A : 5.7	Duty cycle		: 33.5 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 221 ft.lb : 170 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue	: 220 %	Temperat		: 80 K	
Rated speed		: 2965 rpm	Design		: B	
Heating constant						
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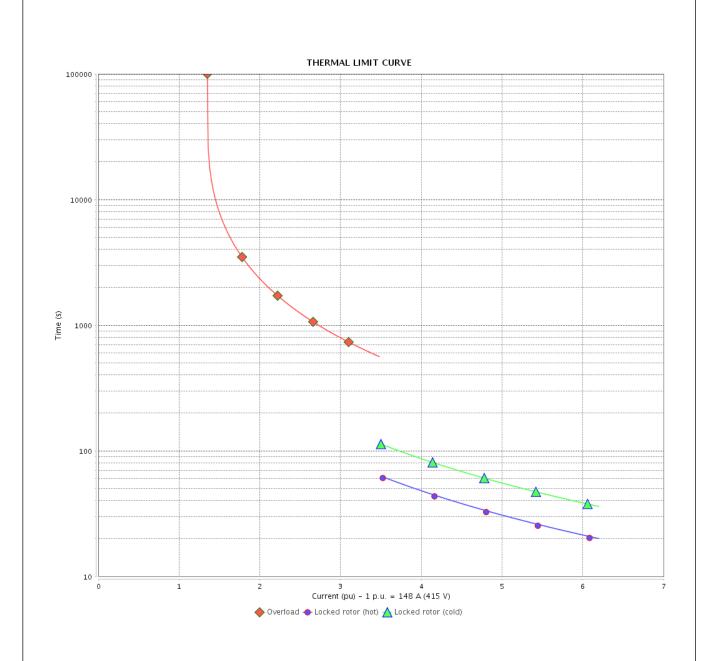


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11611958 12536ET3E44	14TS-W22
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Performance		: 415 V 50 Hz 2P IE3				
Rated current LRC		: 148 A : 6.2	Duty cycle		: 33.5 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 221 ft.lb : 190 %	Insulation Service fa		: F : 1.00	
Breakdown torqu		: 240 %	Temperat		: 80 K	
Rated speed		: 2970 rpm	Design		: B	
Heating constant						
Cooling constant	l .	Changes Summan		Performed	Checked	Doto
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Product line : NEMA Premium Efficiency Three-

Phase

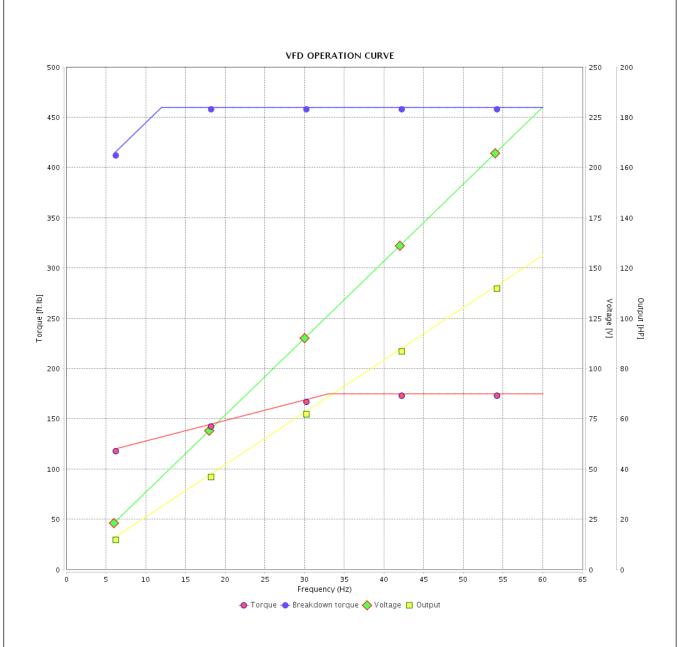
Product code: 11611958

Catalog #: 12536ET3E444TS-W22

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Performance	:	230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: :: :::::::::::::::::::::::::::::::::	268/134 A 6.6 184 ft.lb 200 % 250 % 3570 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 33.5 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.		Changes Summary	<u>'</u>	Performed	Checked	Date
Performed by						

Three Phase Induction Motor - Squirrel Cage



Customer

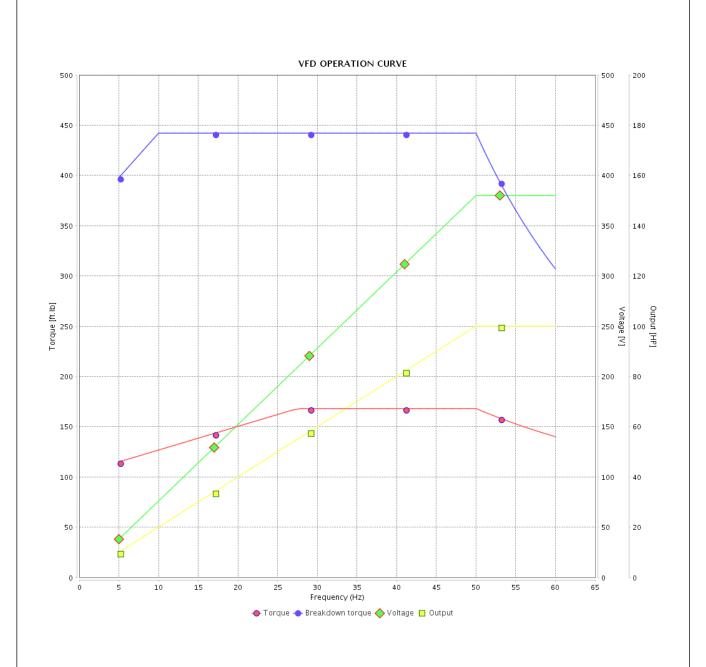
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 135 A : 6.5 : 177 ft.lb : 200 % : 250 % : 2970 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 33.5 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

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Three Phase Induction Motor - Squirrel Cage



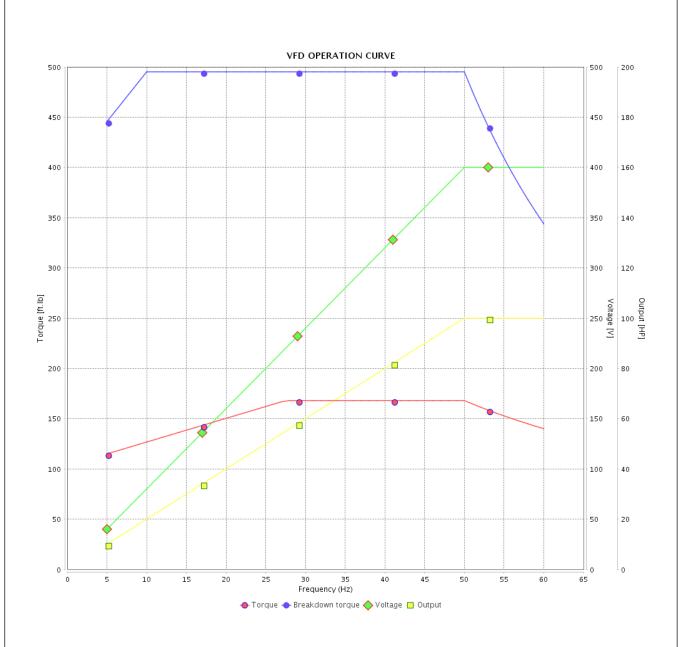
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11611958

Catalog #: 12536ET3E444TS-W22



Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC	: 128 A : 7.1	Moment of inertia (J)		: 33.5 sq.ft.lb : Cont.(S1)	
Rated torque	: 177 ft.lb	Duty cycle Insulation class		: F ` ´	
Locked rotor torque Breakdown torque	: 210 % : 280 %	Service factor Temperature rise		: 1.00 : 80 K	
Rated speed	: 2970 rpm	Design		: B	
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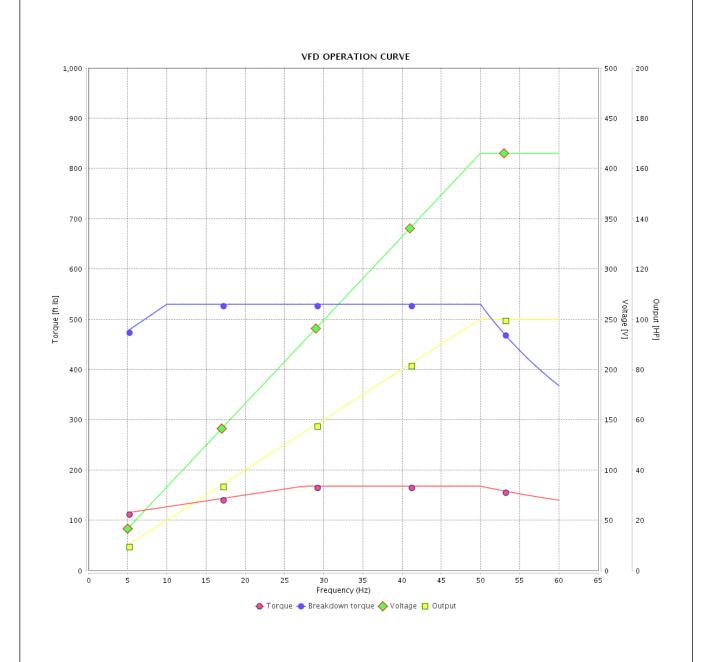
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 11611958

Phase



Performance	: 4	: 415 V 50 Hz 2P IE3				
Rated current : 124 A		24 A	Moment o	f inertia (J)	: 33.5 sq.ft.lb	
LRC	: 7	7.7	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	77 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	40 %	Service fa	ctor	: 1.00	
Breakdown torque : 300 %		Temperature rise		: 80 K		
Rated speed	: 2	.975 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



Customer :

Date

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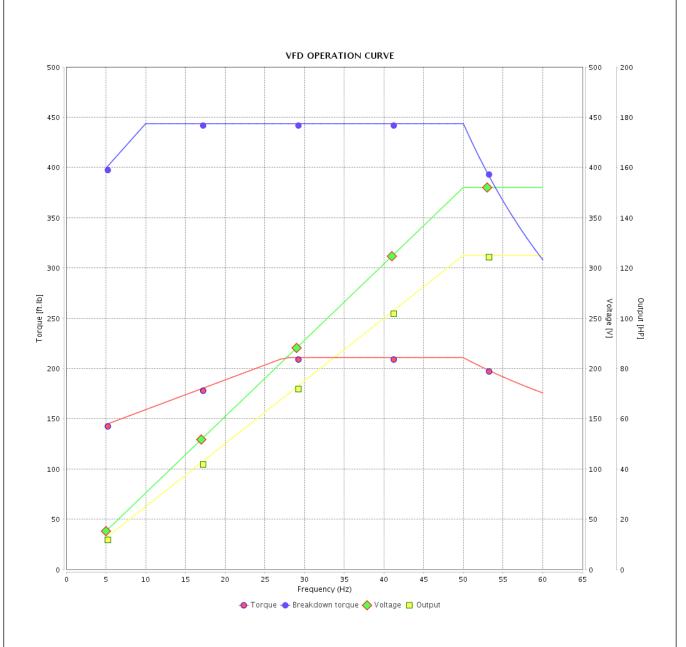
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11611958

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Performance : 380 V 50 Hz 2P IE2 : 163 A Rated current Moment of inertia (J) : 33.5 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.2 Insulation class : 222 ft.lb : F Rated torque Locked rotor torque : 160 % Service factor : 1.00 Breakdown torque : 200 % Temperature rise : 80 K Rated speed : 2960 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

Three Phase Induction Motor - Squirrel Cage



Customer

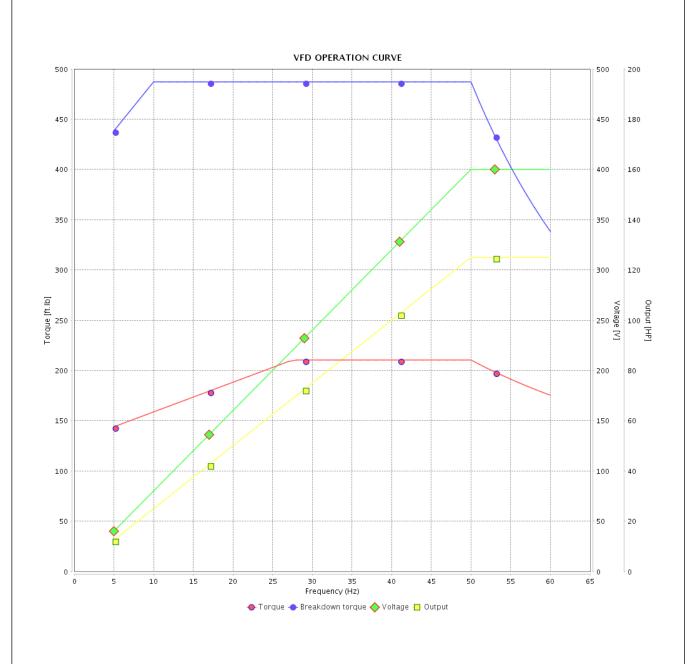
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance	: 400 V 50 Hz 2P IE2				
Rated current	: 154 A	Moment of inertia (J)		: 33.5 sq.ft.lb	
LRC	: 5.7	Duty cycle		: Cont.(S1)	
Rated torque Locked rotor torque	: 221 ft.lb : 170 %	Insulation class Service factor		: F : 1.00	
Breakdown torque	: 220 %	Temperature rise		: 80 K	
Rated speed	: 2965 rpm	n Design		: B	
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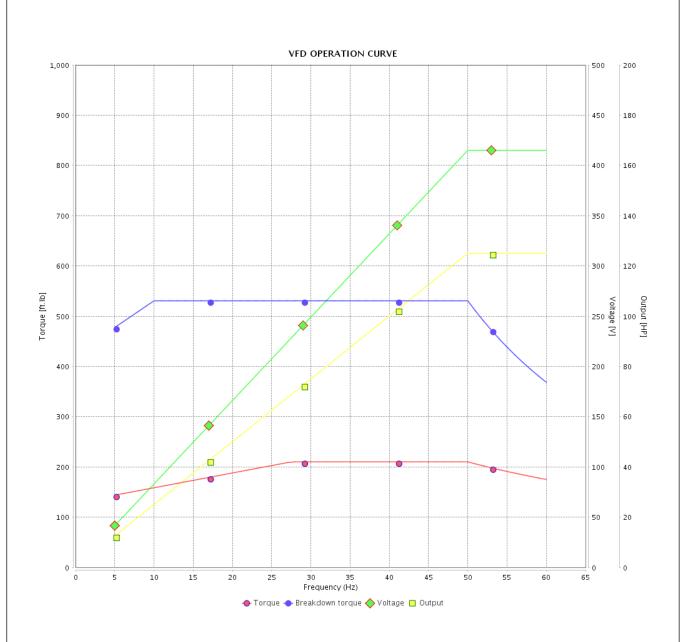
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance	: 415 V 50 Hz 2P IE3						
Rated current	: 148 A	Moment of inertia (J)		: 33.5 sq.ft.lb			
LRC	: 6.2	Duty cycle	;	: Cont.(S1)			
Rated torque	: 221 ft.lb	Insulation class Service factor		: F			
Locked rotor torque	: 190 %			: 1.00			
Breakdown torque	: 240 %	Temperature rise	ıre rise	: 80 K			
Rated speed	: 2970 rpm	Design		: B			
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