### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11546823

Phase

Catalog # : 20012ET3GRB447T-W22

Frame : 445/7T Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW)

Ambient temperature : -20°C to +40°C Starting method : Direct On Line
Altitude : 1000 m.a.s.l. Approx. weight³ : 2512 lb

Protection degree : IP55 | Moment of inertia (J) : 145 sq.ft.lb

Design	е	: IP55 : B		Womer	it of inertia (J)	: 1	45 sq.π.ib	
Design								
Output [HP]		200	150	150	150	200	200	200
	Poles		6	6	6	6	6	6
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		460	380	400	415	380	400	415
Rated current [A]		237	214	209	204	285	273	265
L. R. Amperes [A]		1493	1391	1505	1571	1425	1529	1590
LRC [A]		6.3x(Code	6.5x(Code	7.2x(Code H)	7.7x(Code J)	5.0x(Code E)	5.6x(Code F)	6.0x(Code
		G)	G)					G)
No load current [A]	]	100	98.9	106	111	98.9	106	111
Rated speed [RPN	1]	1185	985	985	985	980	980	980
Slip [%]	Slip [%]		1.50	1.50	1.50	2.00	2.00	2.00
Rated torque [ft.lb]		886	800	800	800	1070	1070	1070
Locked rotor torqu	e [%]	229	229	250	270	180	200	220
Breakdown torque	[%]	240	260	280	310	190	210	229
Service factor		1.15	1.15	1.15	1.15	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K	105 K	105 K	105 K
Locked rotor time		27s (cold)	21s (cold)	21s (cold)	21s (cold)	21s (cold)	21s (cold)	21s (cold)
		15s (hot)	12s (hot)	12s (hot)	12s (hot)	12s (hot)	12s (hot)	12s (hot)
Noise level <sup>2</sup>		69.0 dB(A)						
	25%							
Efficiency (0/)	50%	95.0	94.5	94.5	94.5	94.5	94.5	94.0
Efficiency (%)	75%	95.4	95.1	95.1	95.1	94.5	94.5	94.5
	100%	95.8	95.1	95.1	95.1	94.0	94.5	95.0
	25%							
Dawer Faster	50%	0.68	0.65	0.62	0.59	0.74	0.71	0.68
Power Factor	75%	0.79	0.76	0.74	0.71	0.83	0.81	0.79
				1				

Drive end Non drive end Foundation loads

0.80

0.79

Bearing type : NU-319 C3 6316 C3 Max. traction : 5315 lb Sealing : WSeal WSeal Max. compression : 7827 lb

16000 h

0.82

Lubricant amount : 45 g 34 g Lubricant type : Mobil Polyrex EM

0.83

9000 h

100%

Notes

Lubrication interval

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.

0.85

0.84

0.83

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### Three Phase Induction Motor - Squirrel Cage



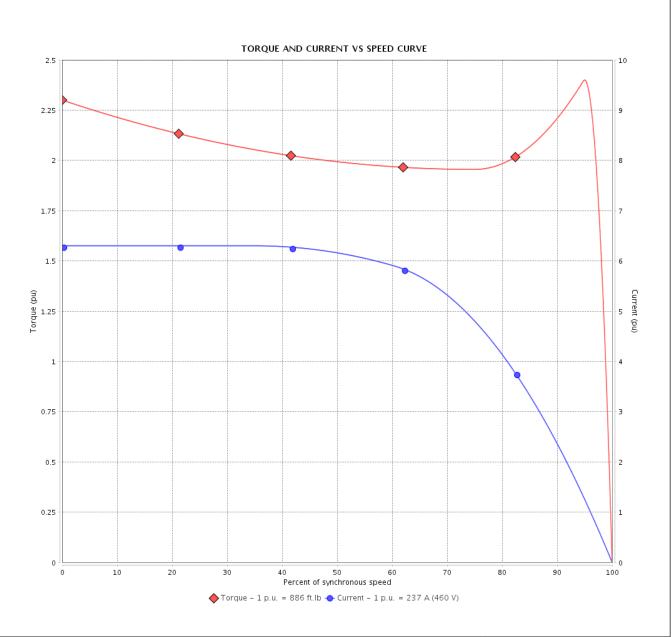
Customer :

Product line : NEMA Premium Efficiency Three- Pr

Phase

Product code: 11546823

Catalog #: 20012ET3GRB447T-W22



Performance	: 460 V 60 Hz 6P			
Rated current	: 237 A	Moment of inertia (J)	: 145 sq.ft.lb	
LRC	: 6.3	Duty cycle	: Cont.(S1)	
Rated torque	: 886 ft.lb	Insulation class	: F	
Locked rotor torque	: 229 %	Service factor	: 1.15	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 1185 rpm	Design	: B	
Locked roter time	: 27s (cold) 15s (bot)	'		

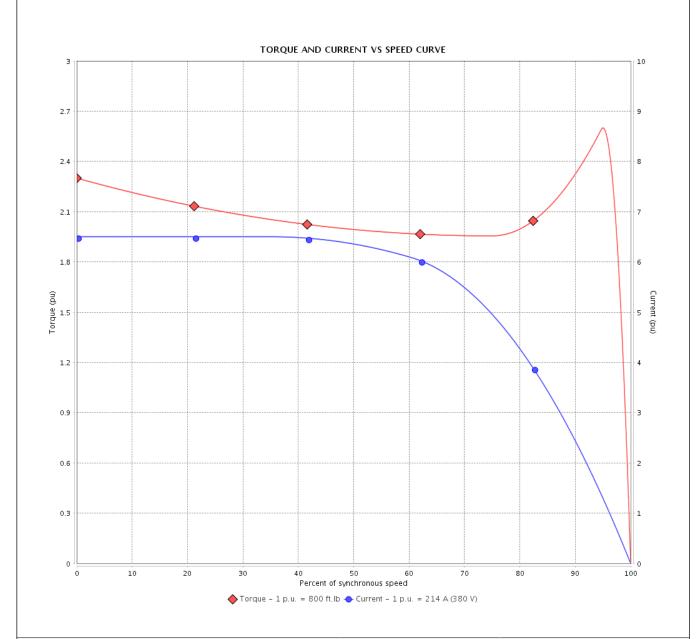
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Product code : 11546823
Phase Catalog # : 20012ET3GRB447T-W22



Performance : 380 V 50 Hz 6P IE3 Rated current : 214 A Moment of inertia (J) : 145 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) : 800 ft.lb Insulation class Rated torque : F : 229 % Locked rotor torque Service factor : 1.15 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 985 rpm Design : B Locked rotor time : 21s (cold) 12s (hot)

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### Three Phase Induction Motor - Squirrel Cage



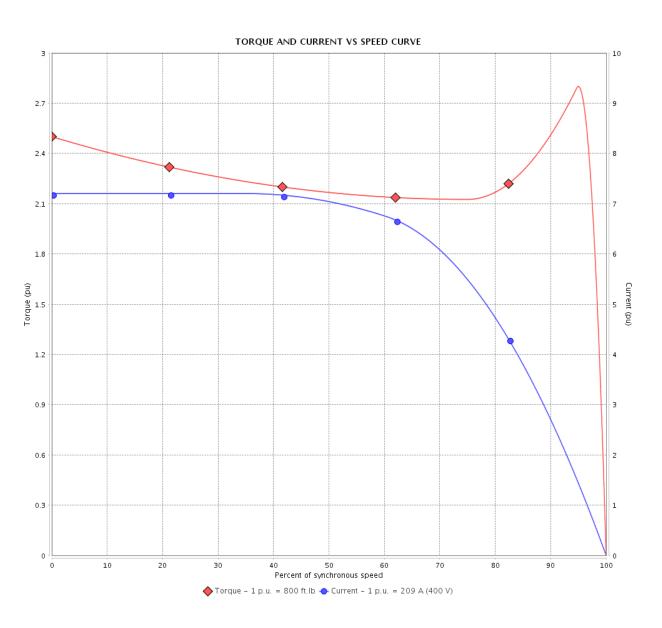
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11546823

Catalog # : 20012ET3GRB447T-W22



Performance	: 400 V 50 Hz 6P IE3		
Rated current	: 209 A	Moment of inertia (J)	: 145 sq.ft.lb
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 800 ft.lb	Insulation class	:F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 985 rpm	Design	: B
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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11546823 Catalog #: 20012ET3GRB447T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 800 ft.lb ◆ Current - 1 p.u. = 204 A (415 V) Performance : 415 V 50 Hz 6P IE3 Rated current : 204 A Moment of inertia (J) : 145 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) : 800 ft.lb Insulation class : F Rated torque : 270 % Locked rotor torque Service factor : 1.15 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 985 rpm Design : B Locked rotor time : 21s (cold) 12s (hot) Date Rev. Performed Checked **Changes Summary** Performed by

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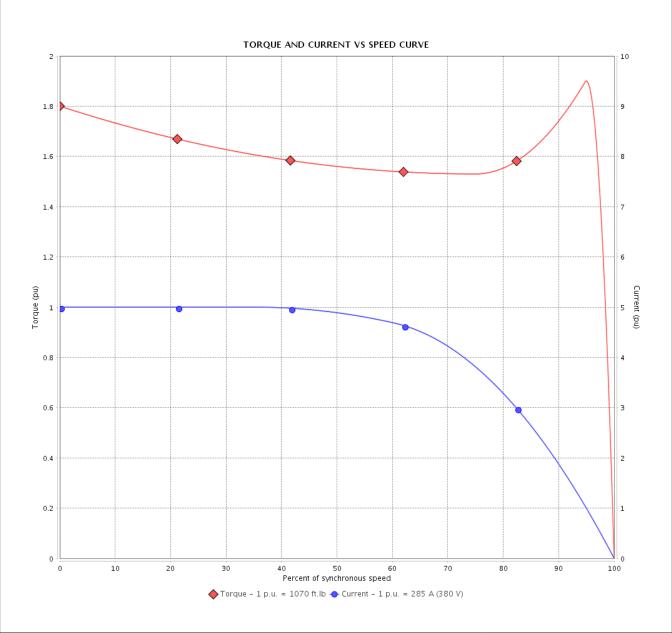
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 20012ET3GRB447T-W22

11546823



Performance : 380 V 50 Hz 6P IE1 Rated current : 285 A Moment of inertia (J) : 145 sq.ft.lb **LRC** : 5.0 Duty cycle : Cont.(S1) : 1070 ft.lb Insulation class Rated torque : F Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 190 % Temperature rise : 105 K Rated speed : 980 rpm Design : B

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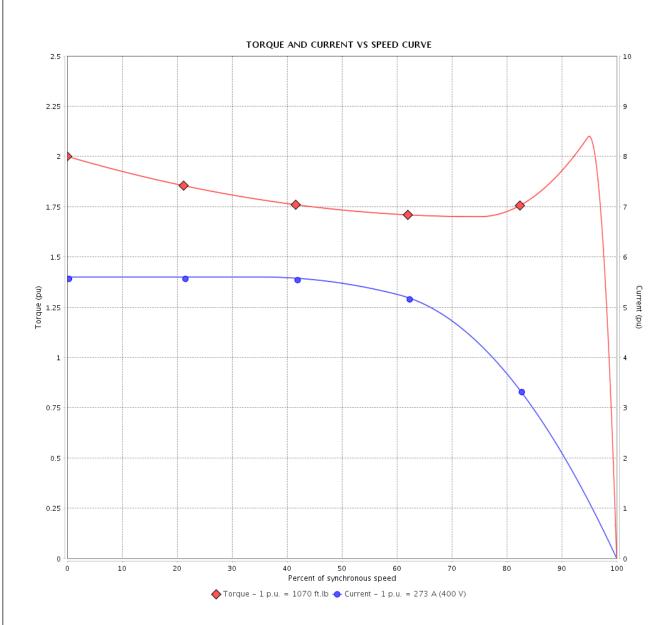


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11546823

Phase

Catalog # : 20012ET3GRB447T-W22



Performance	: 400 V 50 Hz 6P IE1			
Rated current	: 273 A	Moment of inertia (J)	: 145 sq.ft.lb	
LRC	: 5.6	Duty cycle	: Cont.(S1)	
Rated torque	: 1070 ft.lb	Insulation class	: F	
Locked rotor torque	: 200 %	Service factor	: 1.00	
Breakdown torque	: 210 %	Temperature rise	: 105 K	
Rated speed	: 980 rpm	Design	: B	

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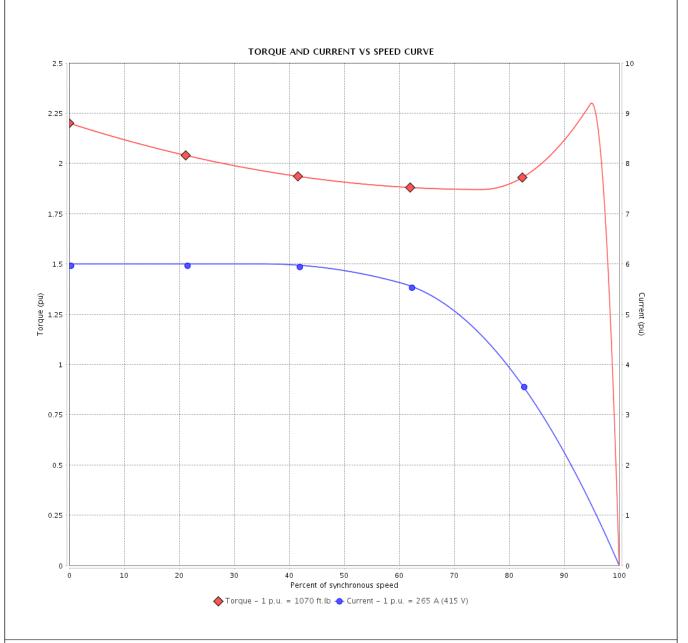
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 20012ET3GRB447T-W22

11546823



Performance : 415 V 50 Hz 6P IE2 Rated current : 265 A Moment of inertia (J) : 145 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) : 1070 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 980 rpm Design : B

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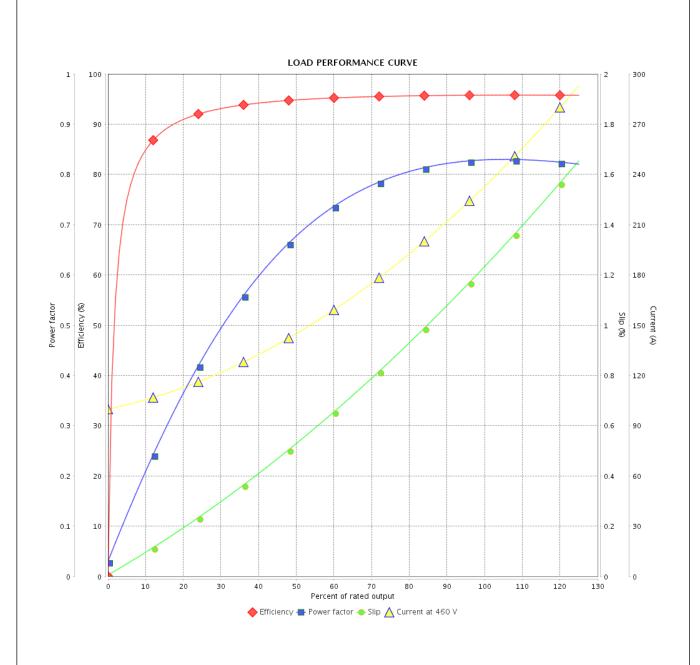
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11546823

Phase

Catalog #: 20012ET3GRB447T-W22

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Performance	: 460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 237 A : 6.3 : 886 ft.lb : 229 % : 240 % : 1185 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 145 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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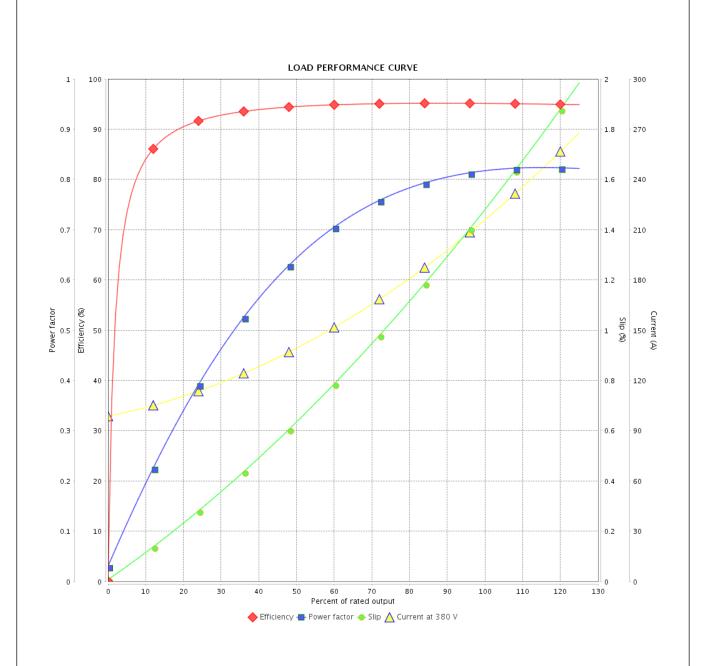


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11546823

Phase

Catalog #: 20012ET3GRB447T-W22



Performance		: 380 V 50 Hz 6P II	E3			
Rated current LRC Rated torque Locked rotor torque		: 214 A : 6.5 : 800 ft.lb : 229 %	Duty cycl Insulation	Moment of inertia (J) Duty cycle Insulation class Service factor		
Breakdown torqu Rated speed		: 260 % : 985 rpm	Tempera Design		: 1.15 : 80 K : B	
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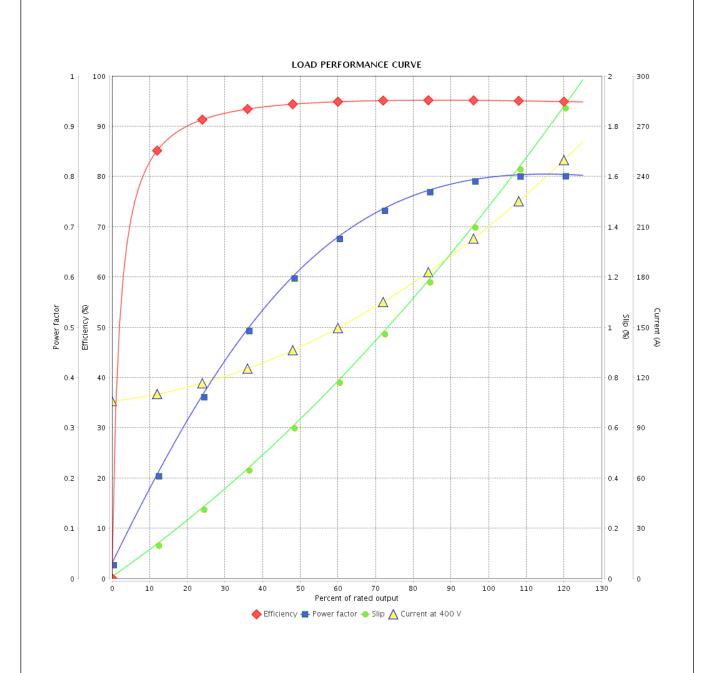


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11546823

Phase

Catalog #: 20012ET3GRB447T-W22



Performance	: 4	400 V 50 Hz 6P IE3				
Rated current : 209 A		Moment o	f inertia (J)	: 145 sq.ft.lb		
LRC	: '	7.2	Duty cycle	)	: Cont.(S1)	
Rated torque		800 ft.lb	Insulation	class	:F	
Locked rotor torque	e ::	250 %	Service fa	ctor	: 1.15	
Breakdown torque	: :	280 %	Temperature rise		: 80 K	
Rated speed	: 985 rpm		Design		: B	
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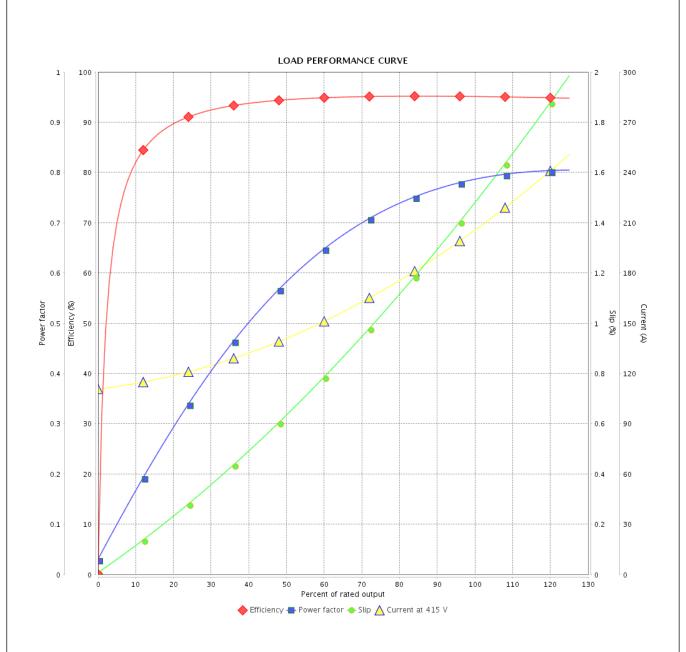
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Product line : NEMA Premium Efficiency Three- Product of

Phase

Product code: 11546823

Catalog #: 20012ET3GRB447T-W22



Performance : 415 V 50 Hz 6P IE3 : 204 A Rated current Moment of inertia (J) : 145 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) : 800 ft.lb Insulation class Rated torque : F Locked rotor torque : 270 % Service factor : 1.15 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 985 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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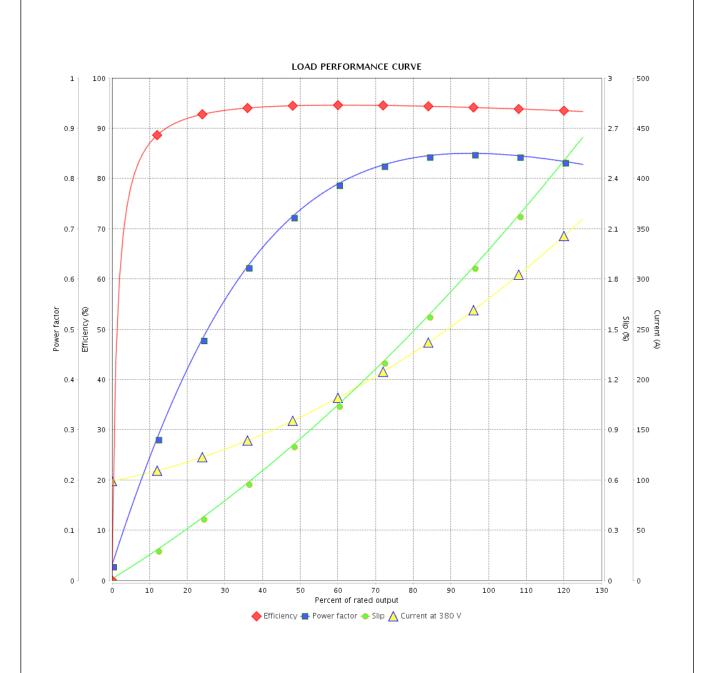


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11546823

Phase

Catalog #: 20012ET3GRB447T-W22



Performance	:	380 V 50 Hz 6P IE1				
Rated current	:	285 A	B5 A Moment of ine		: 145 sq.ft.lb	
LRC	:	5.0	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	:	1070 ft.lb	Insulation	class	: F	
Locked rotor torque : 180 % Service factor		ctor	: 1.00			
Breakdown torque		190 %	Temperati	Temperature rise		
Rated speed	:	980 rpm Design			: B	
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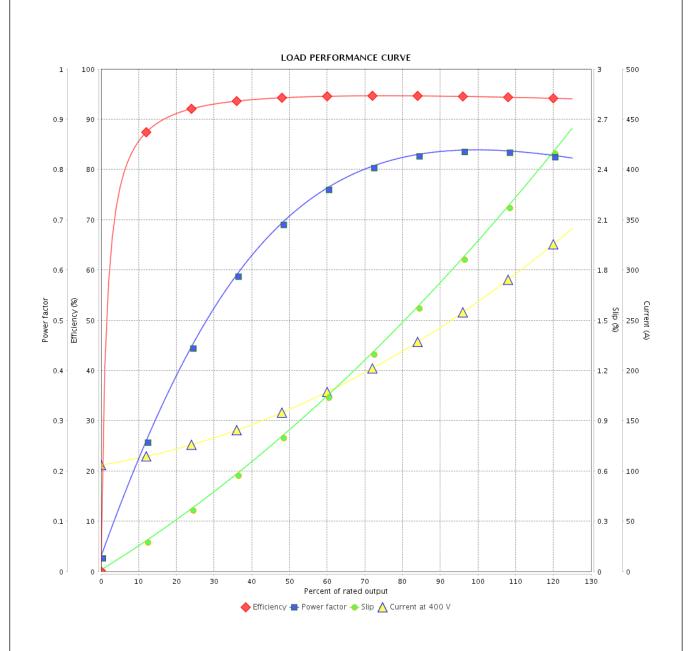
Product line : NEMA Premium Efficiency Three- Prod

Phase

Product code: 11546823

Catalog #: 20012ET3GRB447T-W22

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Performance	: 400 V 50 Hz 6P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 273 A : 5.6 : 1070 ft.lb : 200 % : 210 % : 980 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 145 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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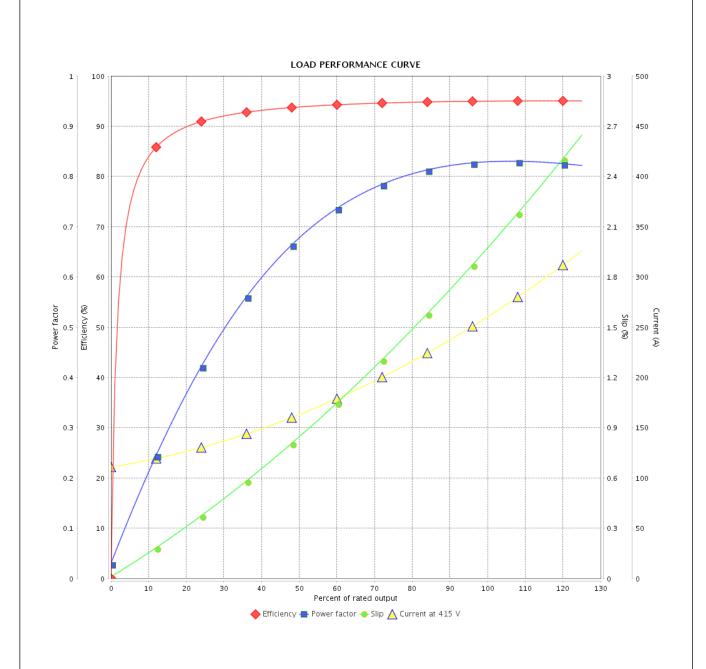
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11546823

Phase

Catalog #: 20012ET3GRB447T-W22

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Performance	: 415 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 265 A : 6.0 : 1070 ft.lb : 220 % : 229 % : 980 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 145 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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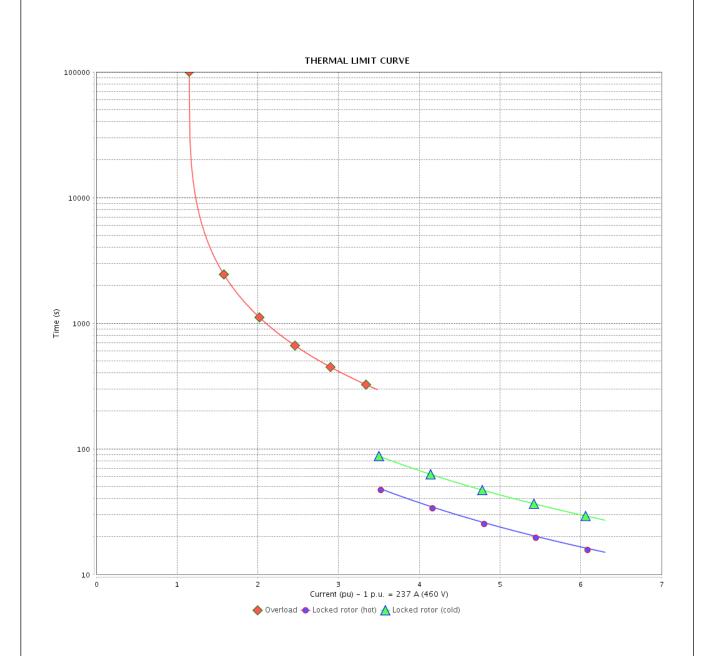


Customer	:					
Product line	: N	NEMA Premium Efficien hase	icy Three-	Product code :	11546823	
				Catalog # :	20012ET3GR	B447T-W22
Performance		60 V 60 Hz 6P				
Rated current LRC	: 23 : 6.	37 A 3	Moment of Duty cycle	f inertia (J)	: 145 sq.ft.lb : Cont.(S1)	
Rated torque	: 88	36 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		29 % 40 %	Service fa Temperati		: 1.15 : 80 K	
Rated speed		185 rpm	Design	2.5 1100	: B	
Heating constant						
Cooling constant					1	
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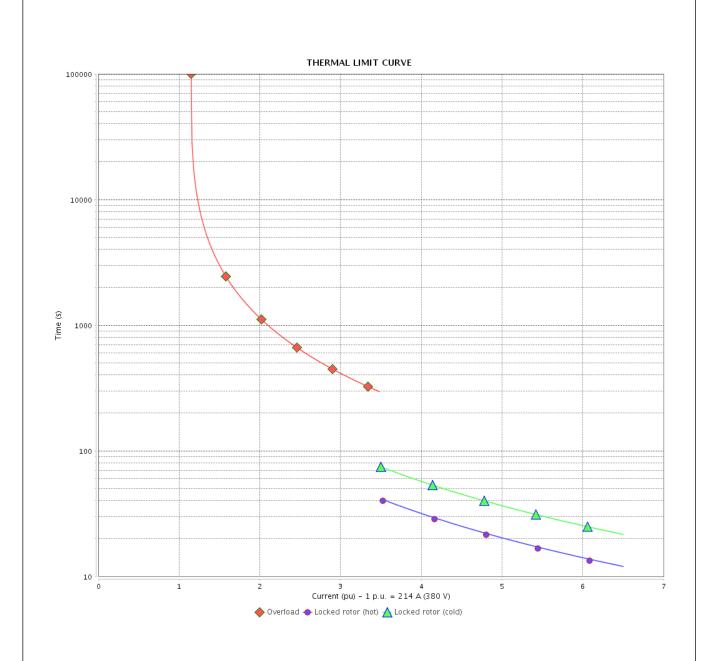


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code :	11546823	D447T W22
			Catalog # :	20012ET3GR	.D447 I-VVZZ
Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 214 A : 6.5 : 800 ft.lb : 229 % : 260 % : 985 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 145 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant					
Cooling constant					
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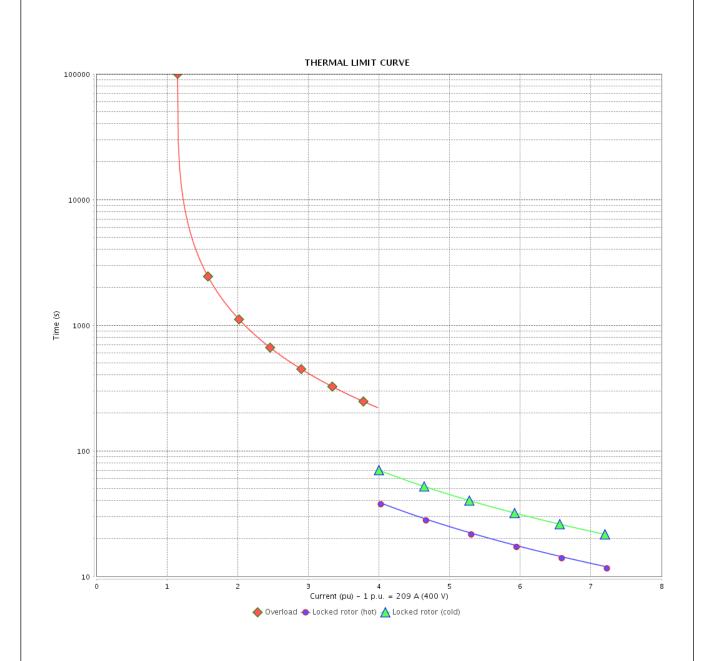


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11546823 20012ET3GR	B447T-W22
Performance		: 400 V 50 Hz 6P IE3				
Rated current LRC		: 209 A : 7.2	Duty cycle		: 145 sq.ft.lb : Cont.(S1)	
Rated torque		: 800 ft.lb : 250 %	Insulation Service fa		: F : 1.15	
Locked rotor tord Breakdown torqu		: 250 % : 280 %	Temperat		: 1.15 : 80 K	
Rated speed		: 985 rpm	Design		: B	
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Cooling constant	t	Changes Summan		Performed	Checked	Data
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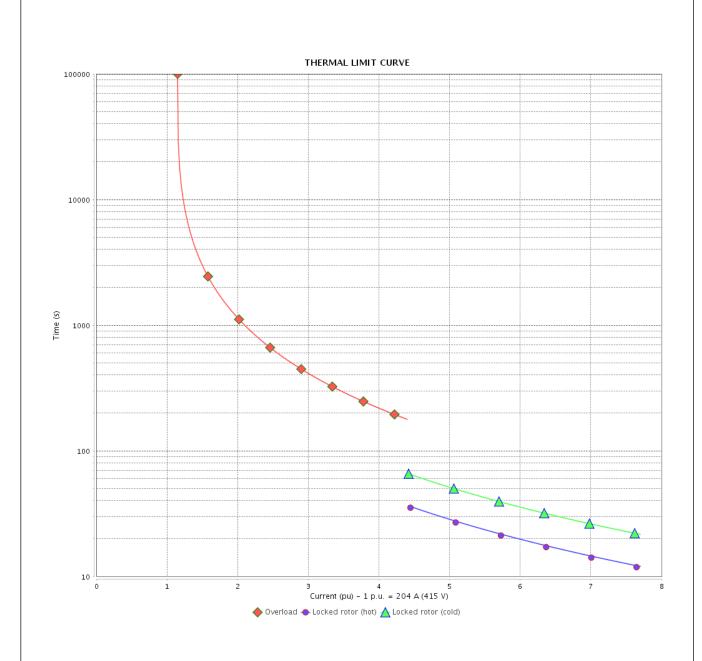


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code :	11546823 20012ET3GR	B447T-W22
Performance Rated current LRC	: 20 : 7.		Duty cycle	f inertia (J)	: 145 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque Breakdown torque Rated speed Heating constant	ue : 27 e : 3° : 98	00 ft.lb 70 % 10 % 35 rpm	Insulation Service far Temperatu Design	ctor	: F : 1.15 : 80 K : B	
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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Customer



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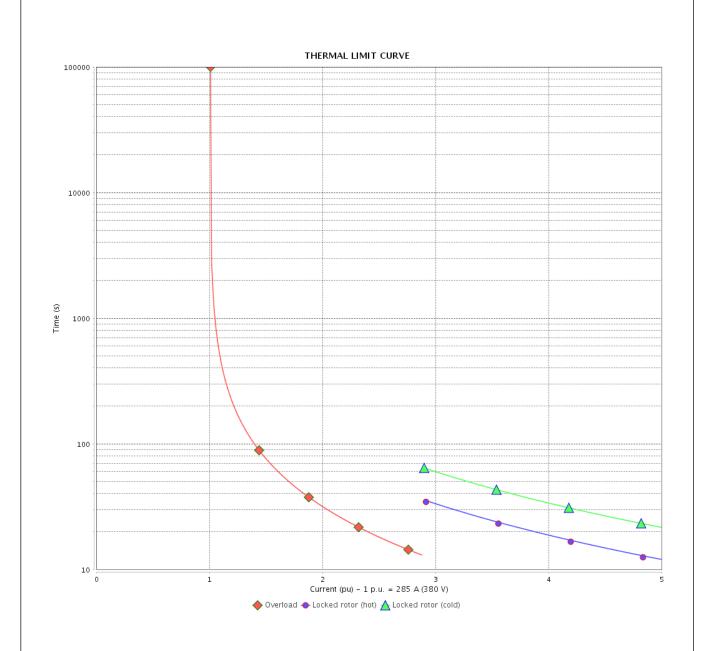


Customer	:					
Product line		NEMA Premium Efficiency hase	Three-	Product code :	11546823	
	P	nase	(	Catalog # :	20012ET3GR	B447T-W22
Performance		80 V 50 Hz 6P IE1				
Rated current LRC	: 5.		Moment of Duty cycle	f inertia (J)	: 145 sq.ft.lb : Cont.(S1)	
Rated torque	: 10	070 ft.lb	Insulation	class	: F	
Locked rotor torq Breakdown torqu		80 % 90 %	Service fa Temperatu		: 1.00 : 105 K	
Rated speed		80 rpm	Design		: B	
Heating constant					,	
Cooling constant		Changes Over		Derf	Ohl !	D-4-
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Customer



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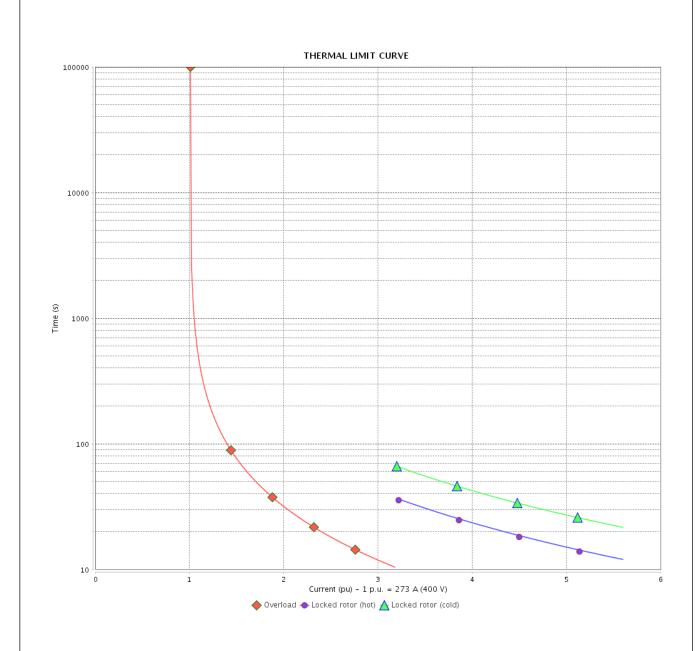


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11546823 20012ET3GR	B447T-W22
Performance		: 400 V 50 Hz 6P IE1				
Rated current LRC		: 273 A : 5.6	Moment of	of inertia (J)	: 145 sq.ft.lb	
Rated torque		: 1070 ft.lb	Insulation	class	: Cont.(S1) : F	
Locked rotor tord		: 200 %	Service fa		: 1.00 : 105 K	
Breakdown torqu Rated speed		: 210 % : 980 rpm	Temperati Design	ure 115e	: 105 K : B	
Heating constant						
Cooling constant	l .	Changes Summary		Performed	Checked	Date
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#### Three Phase Induction Motor - Squirrel Cage



Customer



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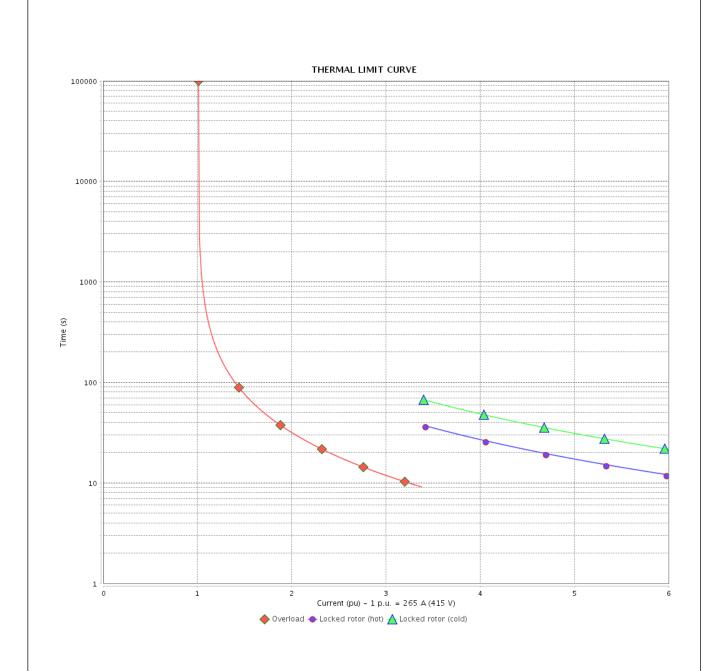


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Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	11546823	
		Thase		Catalog # :	20012ET3GR	B447T-W22
Performance		: 415 V 50 Hz 6P IE2				
Rated current		: 265 A		of inertia (J)	: 145 sq.ft.lb	
LRC		: 6.0 : 1070 ft.lb	Duty cycle Insulation	9	: Cont.(S1) : F	
Rated torque Locked rotor torq		: 220 %	Service fa		. r : 1.00	
Breakdown torqu	ie :	: 229 %	Temperati	ure rise	: 105 K	
Rated speed		: 980 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

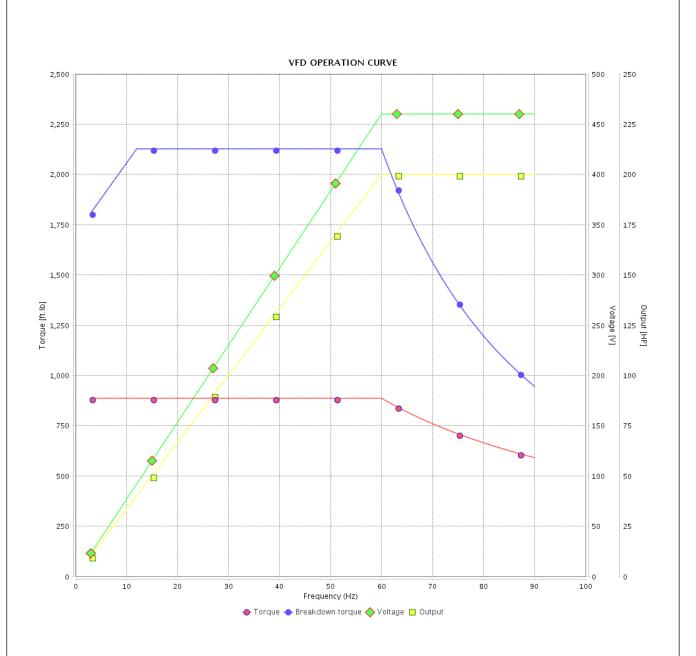
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11546823

Catalog # : 20012ET3GRB447T-W22

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Performance	: 460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 237 A : 6.3 : 886 ft.lb : 229 % : 240 % : 1185 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 145 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



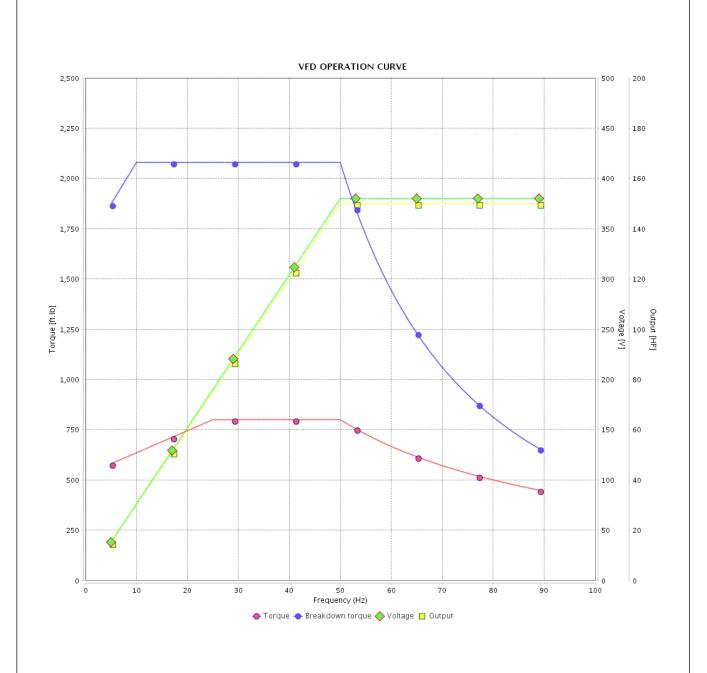
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11546823

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Performance	: 380 V 50 Hz 6P IE3				
Rated current	: 214 A	Moment of inerti	a (J)	: 145 sq.ft.lb	
LRC	: 6.5	Duty cycle		: Cont.(S1)	
Rated torque	: 800 ft.lb	Insulation class		: F	
Locked rotor torque	: 229 %	Service factor		: 1.15	
Breakdown torque	: 260 %	Temperature rise		: 80 K	
Rated speed	: 985 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

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Product line : NEMA Premium Efficiency Three-

Phase

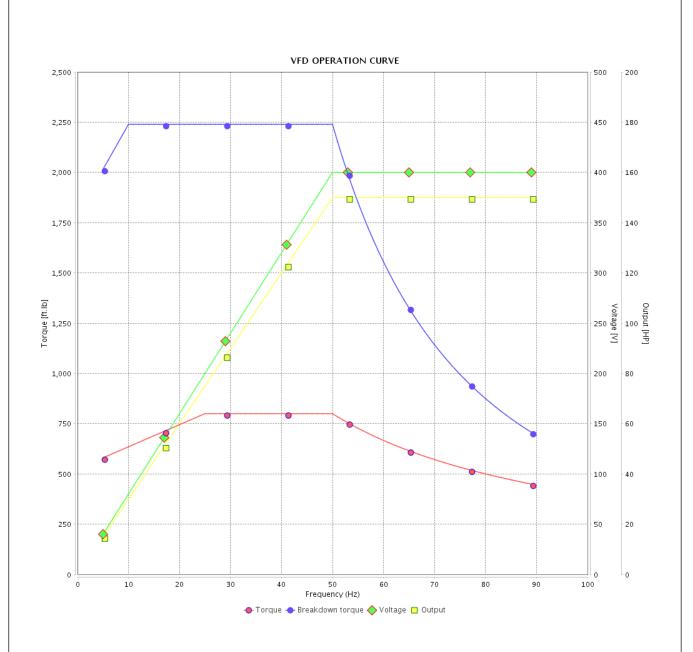
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Performance	:	: 400 V 50 Hz 6P I	E3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	ue le	: 209 A : 7.2 : 800 ft.lb : 250 % : 280 % : 985 rpm	D In So	loment of uty cycle isulation ervice face emperatures esign	class ctor	: 145 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage

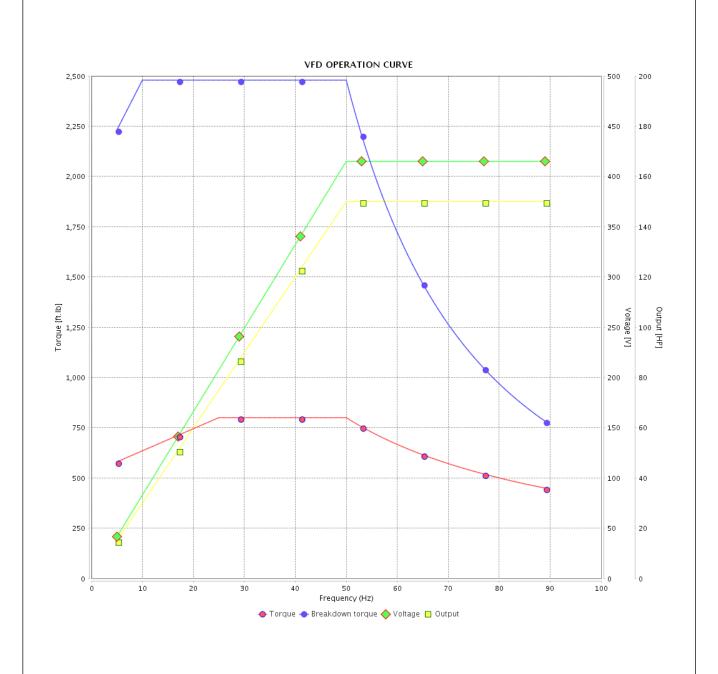


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11546823

Phase

Catalog #: 20012ET3GRB447T-W22



	<u> </u>				<del> </del>	
Performance	:	415 V 50 Hz 6P IE3				
Rated current	::	204 A	Moment of	f inertia (J)	: 145 sq.ft.lb	
LRC	:	7.7	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	:	800 ft.lb	Insulation	class	: F	
Locked rotor torque	e ::	270 %	Service fa	ctor	: 1.15	
Breakdown torque	:	310 %	Temperati	ure rise	: 80 K	
Rated speed	:	985 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



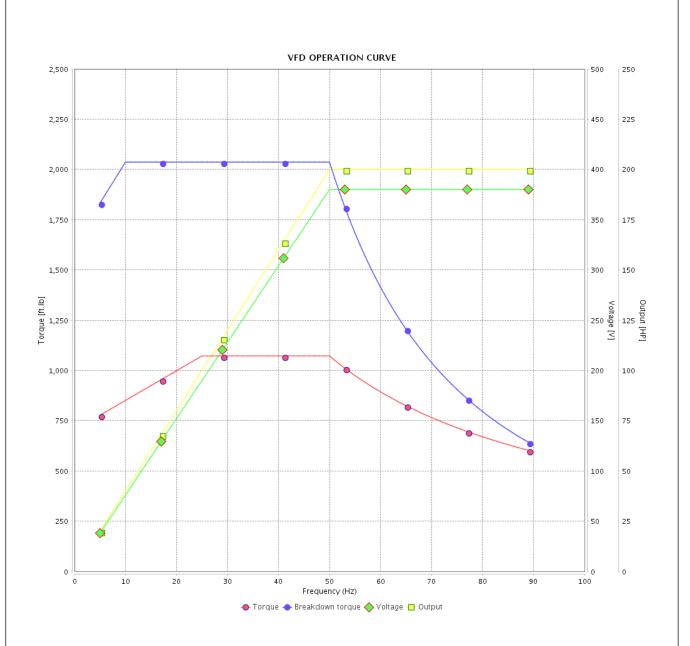
Customer :

Product line : NEMA Premium Efficiency Three- Prod

Phase

Product code: 11546823

Catalog # : 20012ET3GRB447T-W22



Performance : 380 V 50 Hz 6P IE1 Rated current : 285 A Moment of inertia (J) : 145 sq.ft.lb **LRC** : 5.0 : Cont.(S1) Duty cycle : 1070 ft.lb Insulation class Rated torque : F Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 190 % Temperature rise : 105 K Rated speed : 980 rpm Design : B

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#### Three Phase Induction Motor - Squirrel Cage

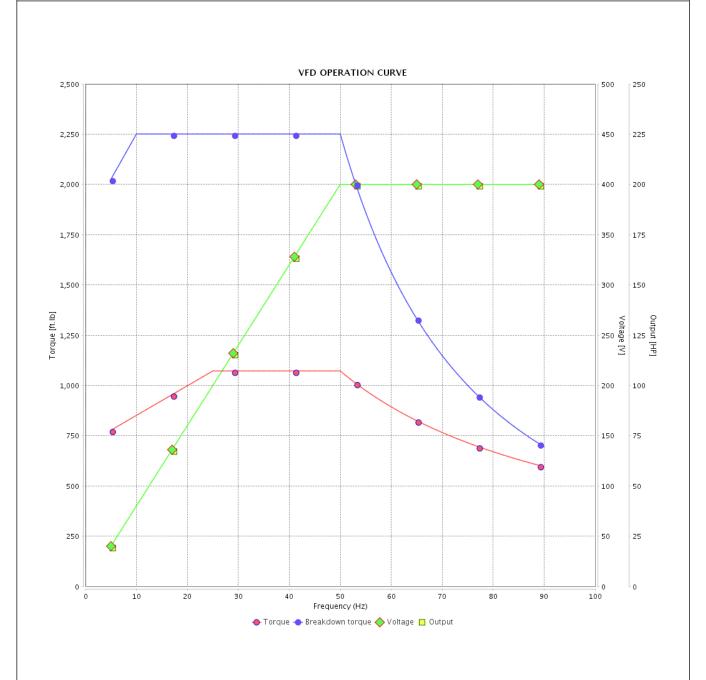


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11546823

Phase

Catalog #: 20012ET3GRB447T-W22



Performance	: 4	: 400 V 50 Hz 6P IE1					
Rated current	: 2	: 273 A		Moment of inertia (J)			
LRC	: 5	: 5.6		Duty cycle			
Rated torque	: 1	070 ft.lb Insulation class		class	: F		
Locked rotor torqu	ue : 2	200 %	Service factor		: 1.00		
Breakdown torque	e : 2	: 210 % : 980 rpm		Temperature rise Design			
Rated speed	: 9						
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#### Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three- P

Phase

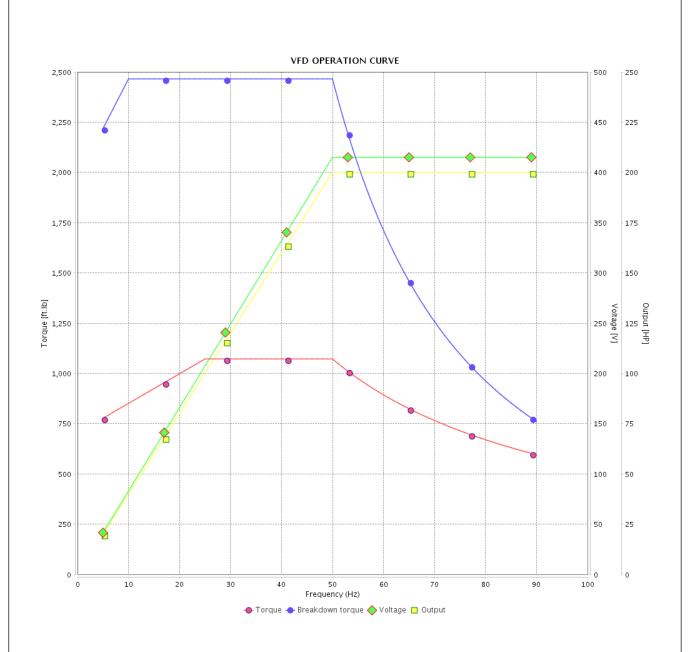
Product code: 11546823

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Performance : 415 V 50 Hz 6P IE2 Rated current : 265 A Moment of inertia (J) : 145 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) : 1070 ft.lb Insulation class : F Rated torque Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 980 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

