DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11356021

Catalog #: 10012ET3GRB444T-W22

Frame : 444/5T Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

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

: 1000 m.a.s.l. Approx. weight³ : 1673 lb Altitude Protection degree : IP55 Moment of inertia (J) : 87.3 sq.ft.lb

Design		: B						
Output [HP]		100	75	75	75	100	100	100
Poles		6	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]		121	107	104	102	145	139	135
L. R. Amperes [A]		750	706	749	785	725	765	810
LRC [A]		6.2x(Code	6.6x(Code	7.2x(Code H)	7.7x(Code J)	5.0x(Code E)	5.5x(Code F)	6.0x(Code
		G)	G)					G)
No load current [A]	45.0	45.0	48.0	50.0	45.0	48.0	50.0
Rated speed [RPN	/ 1]	1185	985	990	990	980	985	985
Slip [%]		1.25	1.50	1.00	1.00	2.00	1.50	1.50
Rated torque [ft.lb]		443	400	398	398	536	533	533
Locked rotor torque [%]		220	229	250	270	170	190	200
Breakdown torque [%]		250	280	310	340	210	229	250
Service factor		1.25	1.00	1.00	1.00	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		36s (cold)	27s (cold)	27s (cold)	27s (cold)	27s (cold)	27s (cold)	27s (cold)
		20s (hot)	15s (hot)	15s (hot)	15s (hot)	15s (hot)	15s (hot)	15s (hot)
Noise level ²		69.0 dB(A)	65.0 dB(A)	65.0 dB(A)	65.0 dB(A)	65.0 dB(A)	65.0 dB(A)	65.0 dB(A)
	25%	94.4	93.7	93.7	93.5	94.8	94.8	94.8
Efficiency (%)	50%	94.5	93.8	93.8	93.7	94.5	94.5	94.5
Lincichoy (70)	75%	95.0	94.3	94.6	94.6	94.0	94.5	94.5
	100%	95.0	94.2	94.5	94.6	93.6	94.0	94.0
	25%	0.44	0.40	0.37	0.34	0.50	0.46	0.44
Power Factor	50%	0.68	0.64	0.60	0.57	0.74	0.71	0.68
I OWELL ACTOL	75%	0.78	0.77	0.74	0.71	0.82	0.80	0.78
	100%	0.82	0.83	0.81	0.79	0.84	0.83	0.82

Drive end Non drive end Foundation loads

Bearing type NU-319 C3 6316 C3 Max. traction : 2716 lb Sealing WSeal WSeal : 4390 lb Max. compression Lubrication interval 9000 h 16000 h

Lubricant amount 45 g 34 g

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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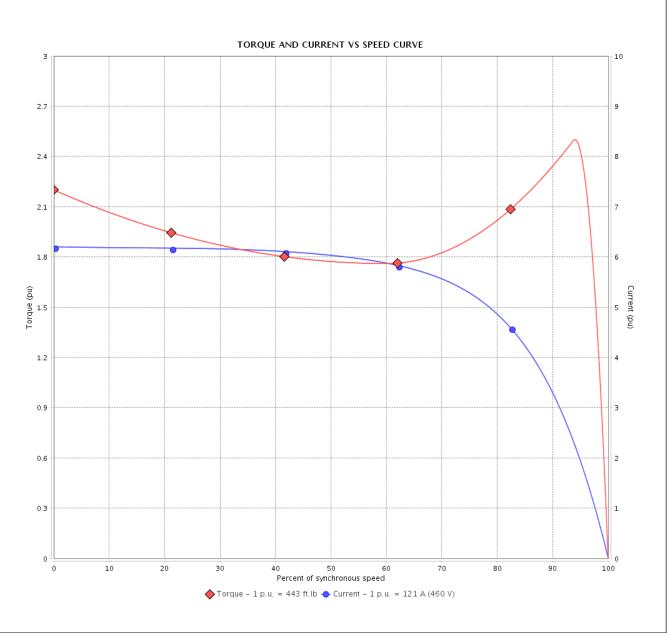


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11356021

Phase

Catalog #: 10012ET3GRB444T-W22



Performance	: 460 V 60 Hz 6P		
Rated current	: 121 A	Moment of inertia (J)	: 87.3 sq.ft.lb
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 443 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1185 rpm	Design	: B
Locked roter time	: 36c (cold) 20c (bot)		

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: 11356021 Catalog #: 10012ET3GRB444T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 Torque (pu) 1.2 0.6

Performance	: 380 V 50 Hz 6P IE3			
Rated current	: 107 A	Moment of inertia (J)	: 87.3 sq.ft.lb	
LRC	: 6.6	Duty cycle	: Cont.(S1)	
Rated torque	: 400 ft.lb	Insulation class	: F	
Locked rotor torque	: 229 %	Service factor	: 1.00	
Breakdown torque	: 280 %	Temperature rise	: 80 K	
Rated speed	: 985 rpm	Design	: B	
Nateu speeu	. 905 (pill	Design	. U	

40 50 6. Percent of synchronous speed ♦ Torque – 1 p.u. = 400 ft.lb ♦ Current – 1 p.u. = 107 A (380 V)

Locked rotor time : 27s (cold) 15s (hot)

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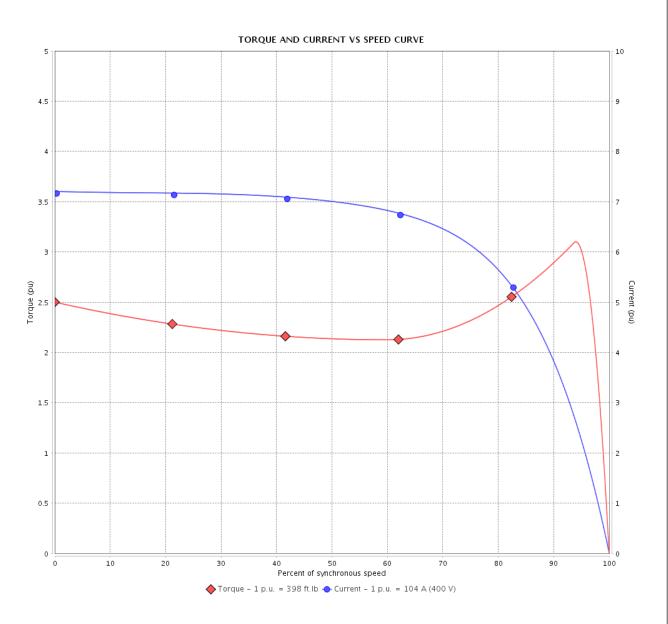


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11356021

Phase

Catalog #: 10012ET3GRB444T-W22



Performance : 400 V 50 Hz 6P IE3 Rated current : 104 A Moment of inertia (J) : 87.3 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 398 ft.lb Service factor Locked rotor torque : 250 % : 1.00 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 990 rpm Design : B

Locked rotor time : 27s (cold) 15s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11356021 Catalog #: 10012ET3GRB444T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 398 ft.lb ◆ Current - 1 p.u. = 102 A (415 V) Performance : 415 V 50 Hz 6P IE3 Rated current : 102 A Moment of inertia (J) : 87.3 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) : 398 ft.lb Insulation class Rated torque : F : 270 % Locked rotor torque Service factor : 1.00 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 990 rpm Design : B Locked rotor time : 27s (cold) 15s (hot) Rev. Performed Checked Date **Changes Summary** Performed by

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Customer Product line : NEMA Premium Efficiency Three-Product code: 11356021 Catalog #: 10012ET3GRB444T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 Torque (pu) Current (pu) 1.25 0.5 0.25

Performance	: 380 V 50 Hz 6P IE1		
Rated current	: 145 A	Moment of inertia (J)	: 87.3 sq.ft.lb
LRC	: 5.0	Duty cycle	: Cont.(S1)
Rated torque	: 536 ft.lb	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 105 K
Rated speed	: 980 rpm	Design	: B

40 50 6. Percent of synchronous speed

◆ Torque - 1 p.u. = 536 ft.lb ◆ Current - 1 p.u. = 145 A (380 V)

Locked rotor time : 27s (cold) 15s (hot)

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Performance	: 400 V 50 Hz 6P IE2		
Rated current	: 139 A	Moment of inertia (J)	: 87.3 sq.ft.lb
LRC	: 5.5	Duty cycle	: Cont.(S1)
Rated torque	: 533 ft.lb	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 105 K
Rated speed	: 985 rpm	Design	: B

30 40 50 oo . .
Percent of synchronous speed

◆ Torque – 1 p.u. = 533 ft.lb ◆ Current – 1 p.u. = 139 A (400 V)

Locked rotor time : 27s (cold) 15s (hot)

0.5

0.25

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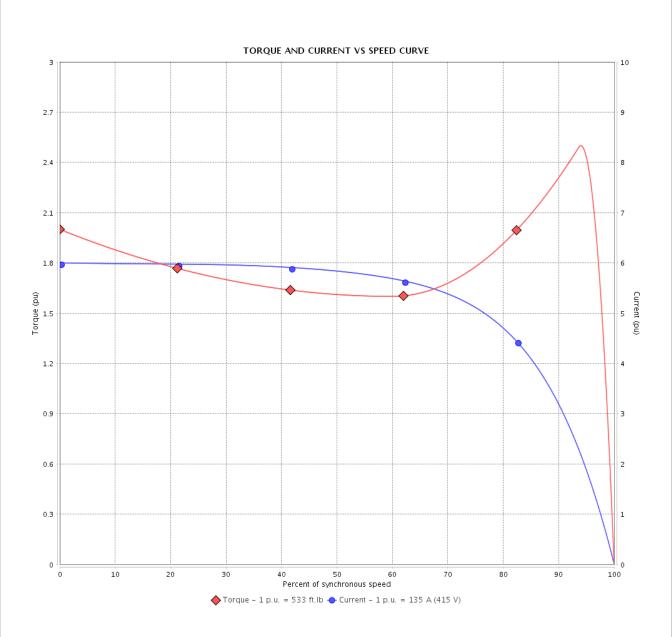
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Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11356021

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Catalog #:



Performance	: 415 V 50 Hz 6P IE2		
Rated current	: 135 A	Moment of inertia (J)	: 87.3 sq.ft.lb
LRC	: 6.0	Duty cycle	: Cont.(S1)
Rated torque	: 533 ft.lb	Insulation class	:F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 105 K
Rated speed	: 985 rpm	Design	: B
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Locked rotor time : 27s (cold) 15s (hot)

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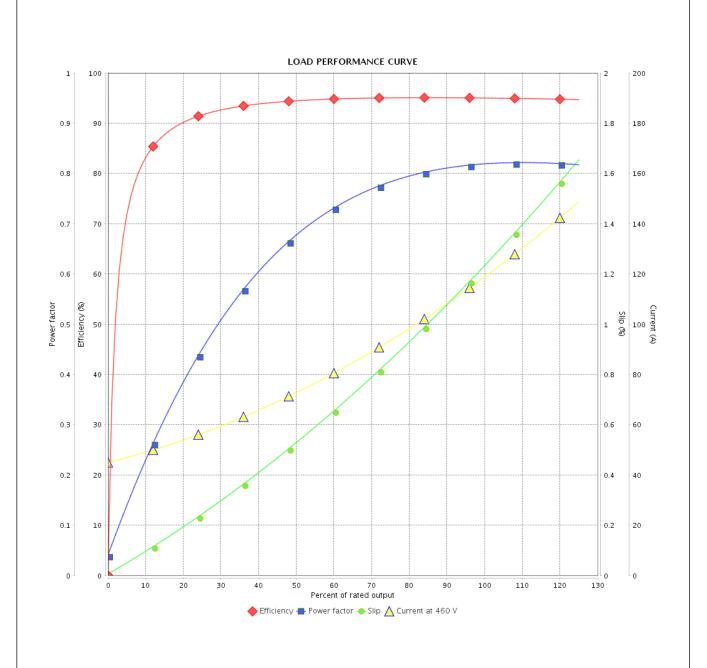


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11356021

Phase

Catalog #: 10012ET3GRB444T-W22



Performance	: 4	60 V 60 Hz 6P				
Rated current	: 1	21 A	Moment o	f inertia (J)	: 87.3 sq.ft.lb	
LRC	: 6	.2	Duty cycle	;	: Cont.(S1)	
Rated torque	: 4	43 ft.lb	Insulation	class	: F	
Locked rotor torque	e :2	20 %	Service fa	ctor	: 1.25	
Breakdown torque	: 2	50 %	Temperati	ure rise : 80 K		
Rated speed	: 1	185 rpm	Design		: B	
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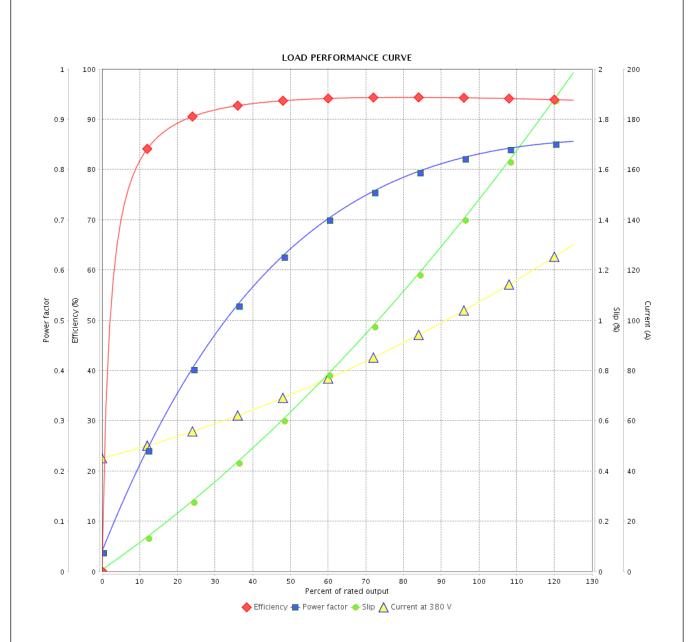
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 10012ET3GRB444T-W22

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Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 107 A : 6.6 : 400 ft.lb : 229 % : 280 % : 985 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class	: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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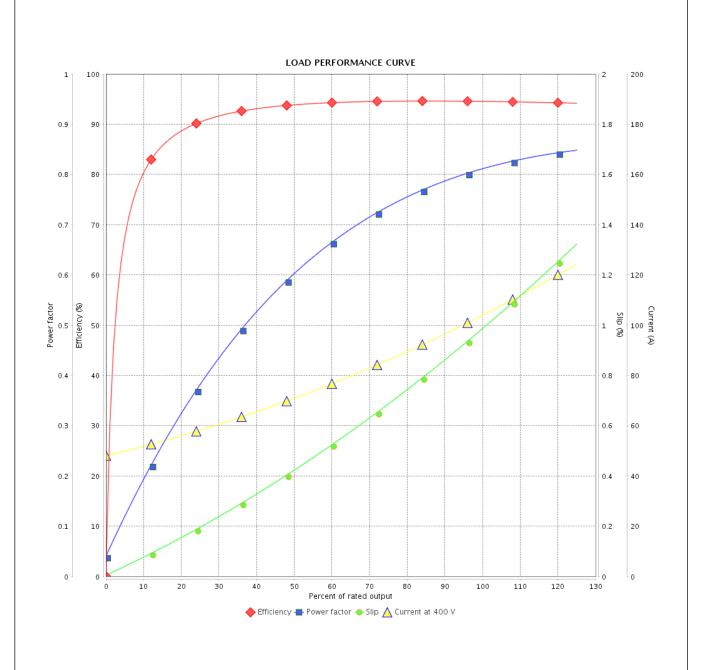


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Product line : NEMA Premium Efficiency Three- Product code : 11356021

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Catalog #: 10012ET3GRB444T-W22



Performance	:	400 V 50 Hz 6P IE3				
Rated current	:	104 A	Moment o	f inertia (J)	: 87.3 sq.ft.lb	
LRC	:	7.2	Duty cycle	}	: Cont.(S1)	
Rated torque	:	398 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	250 %	Service fa	ctor	: 1.00	
Breakdown torque : 3		310 %	Temperati	Temperature rise : 80 K		
Rated speed	:	990 rpm	Design		: B	
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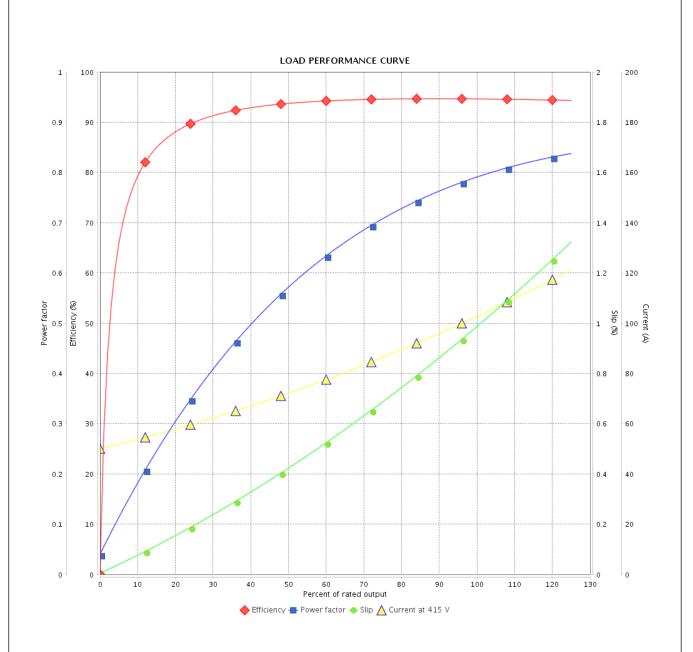
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Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 10012ET3GRB444T-W22

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Performance	: 415 V 50 Hz 6P IE	3			
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 102 A : 7.7 : 398 ft.lb : 270 % : 340 % : 990 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ector	: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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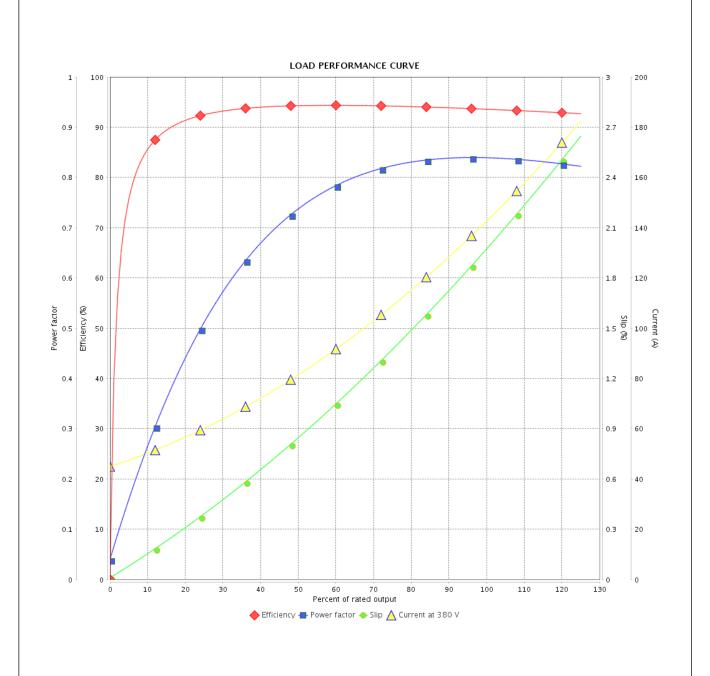


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Product line : NEMA Premium Efficiency Three- Product code : 11356021

Phase

Catalog #: 10012ET3GRB444T-W22



Performance	: 38	80 V 50 Hz 6P IE1				
Rated current	: 14	45 A	Moment o	f inertia (J)	: 87.3 sq.ft.lb	
LRC	: 5.	.0	Duty cycle	;	: Cont.(S1)	
Rated torque	: 53	36 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 17	70 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	10 %	Temperati	ure rise	: 105 K	
Rated speed	: 98	80 rpm	Design		: B	
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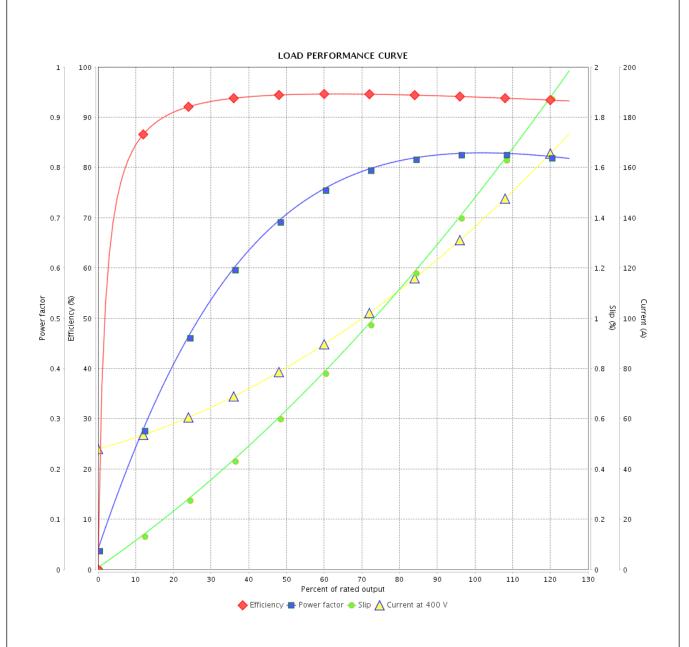
Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11356021

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					,	
Performance	:	400 V 50 Hz 6P IE	2			
Rated current : 139 A LRC : 5.5 Rated torque : 533 ft.lb Locked rotor torque : 190 % Breakdown torque : 229 % Rated speed : 985 rpm		Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B		
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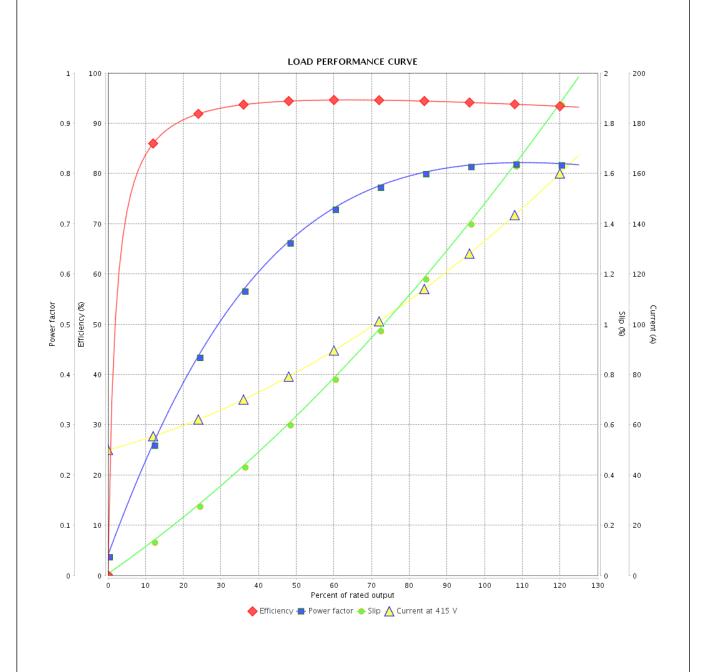


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Product line : NEMA Premium Efficiency Three- Product code : 11356021

Phase

Catalog #: 10012ET3GRB444T-W22



Performance	: 41	5 V 50 Hz 6P IE2				
Rated current	: 13	5 A	Moment o	f inertia (J)	: 87.3 sq.ft.lb	
LRC	: 6.0)	Duty cycle)	: Cont.(S1)	
Rated torque	: 53	3 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 20	0 %	Service fa	ctor	: 1.00	
Breakdown torque	: 25	0 %	Temperati	ıre rise	: 105 K	
Rated speed	: 98	5 rpm	Design		: B	
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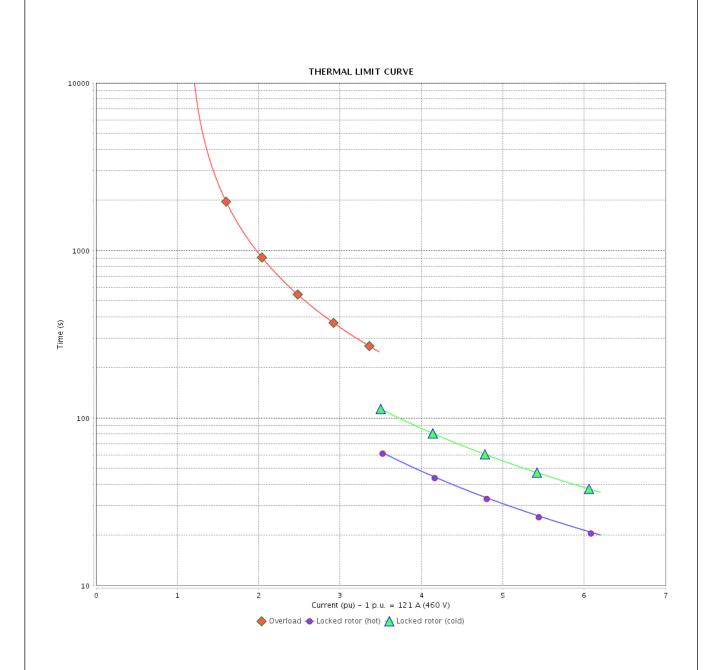


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11356021 10012ET3GR	B444T-W22
				<u> </u>		
Performance		: 460 V 60 Hz 6P				
Rated current LRC		: 121 A : 6.2	Moment of Duty cycle	of inertia (J)	: 87.3 sq.ft.lb : Cont.(S1)	
Rated torque		: 443 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 220 % : 250 %	Service fa Temperat		: 1.25 : 80 K	
Rated speed		: 1185 rpm	Design	ui 0 1100	: B	
Heating constan						
Cooling constant	t					
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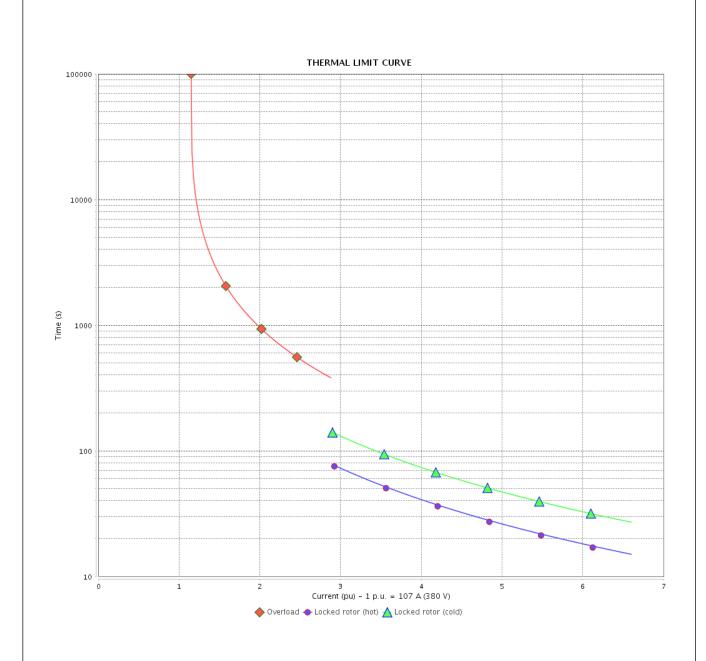


Product line : NEMA Premium Efficiency Three-Product code : 11356021 Phase						
Catalog #: 10012ET3GRB444T-W2	Customer	:				
Catalog #: 10012ET3GRB444T-W2	Product line		Three- F	Product code :	11356021	
Performance : 380 V 50 Hz 6P IE3			C	Catalog # :	10012ET3GR	B444T-W22
Performance : 380 V 50 Hz 6P IE3						
	Performance	: 380 V 50 Hz 6P IE3				
Rated current : 107 A Moment of inertia (J) : 87.3 sq.ft.lb LRC : 6.6 Duty cycle : Cont.(S1) Rated torque : 400 ft.lb Insulation class : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 985 rpm Design : B	LRC Rated torque Locked rotor torque Breakdown torque	: 6.6 : 400 ft.lb : 229 % : 280 %	Duty cycle Insulation of Service fact Temperature	class ctor	: Cont.(S1) : F : 1.00 : 80 K	
					- -	
Heating constant						
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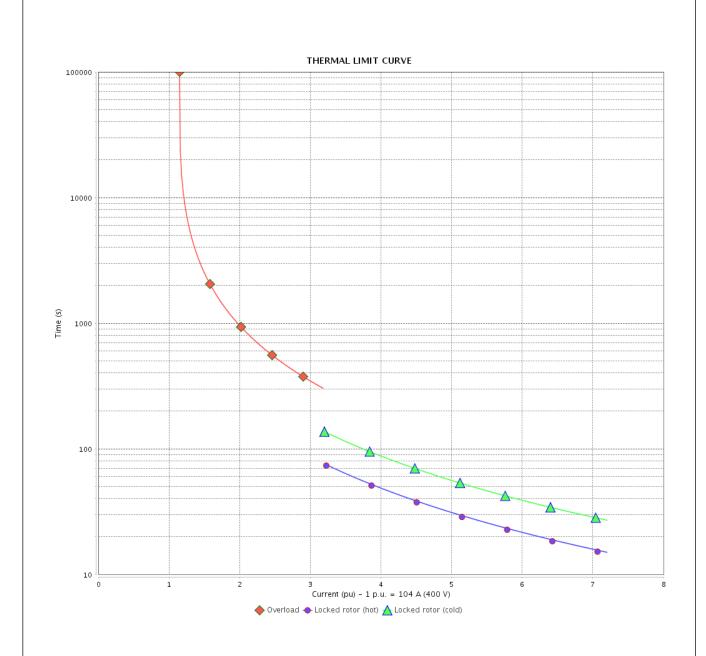


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Customer	:				
Product line	: NEMA Premium Efficiency Phase	Three- P	roduct code :	11356021	
	Tildoc	С	atalog # :	10012ET3GR	B444T-W22
Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 104 A : 7.2 : 398 ft.lb : 250 % : 310 % : 990 rpm	Moment of Duty cycle Insulation of Service fac Temperatur Design	lass tor	: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant					
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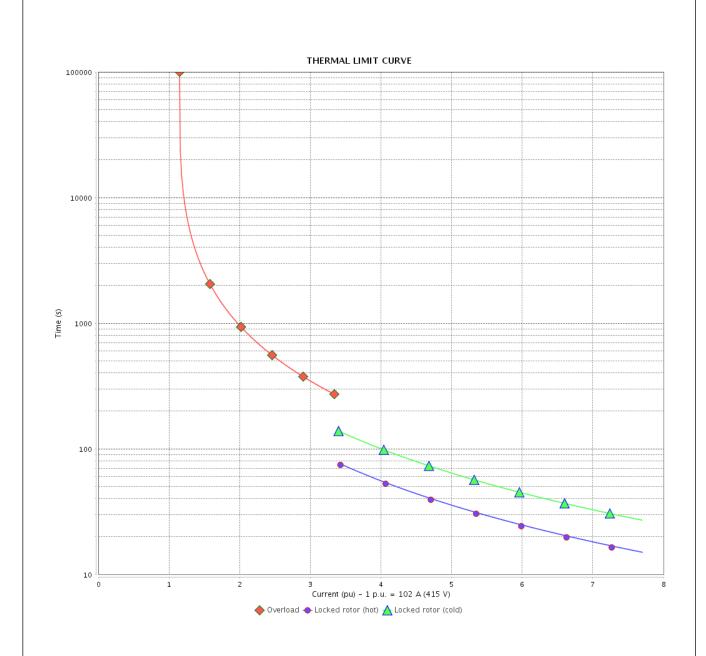


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Product line		NEMA Premium Efficiency in		Product code :	11356021 10012ET3GR	B444T-W22
Performance		15 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 7. : 39 ue : 27 ie : 34	02 A 7 98 ft.lb 70 % 40 % 90 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class ctor	: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Heating constant Cooling constant						
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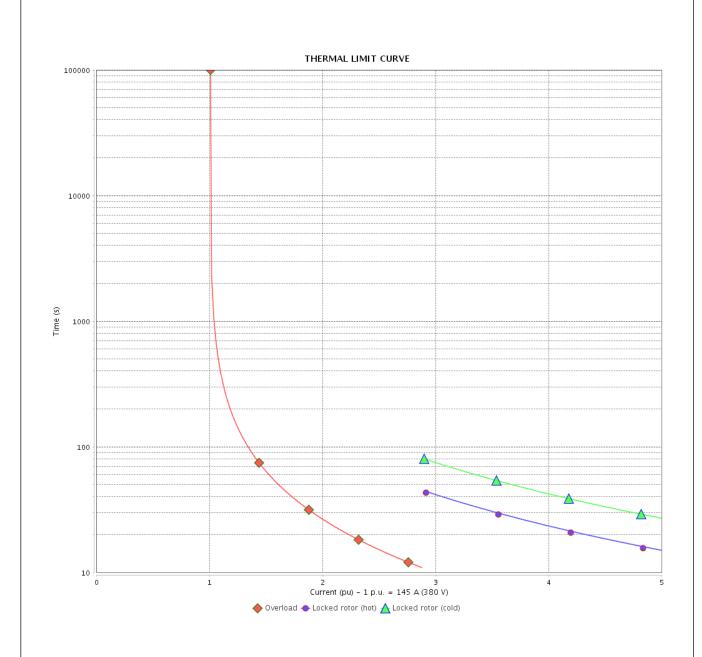


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11356021 10012ET3GR	B444T-W22
Performance		: 380 V 50 Hz 6P IE1				
Rated current LRC		: 145 A : 5.0	Moment of Duty cycle	of inertia (J)	: 87.3 sq.ft.lb : Cont.(S1)	
Rated torque		: 536 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 170 % : 210 %	Service fa Temperat		: 1.00 : 105 K	
Rated speed		: 980 rpm	Design	ui 0 1100	: B	
Heating constan						
Cooling constant	t	01 0			<u> </u>	
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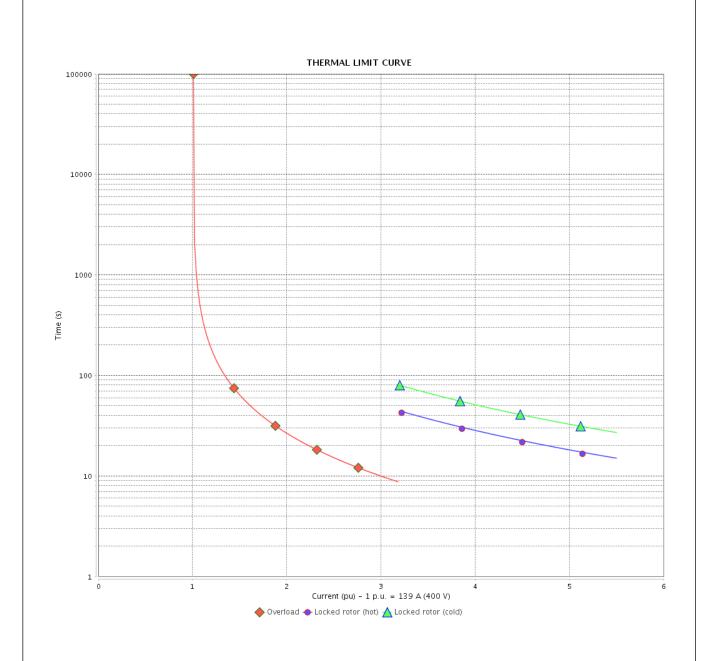


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11356021 10012ET3GR	B444T-W22
Performance		: 400 V 50 Hz 6P IE2				
Rated current LRC		: 139 A : 5.5	Moment of Duty cycle	of inertia (J) e	: 87.3 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 533 ft.lb : 190 %	Insulation Service fa	class	: F : 1.00	
Breakdown torqu	ue :	: 229 %	Temperat		: 105 K	
Rated speed		: 985 rpm	Design		: B	
Heating constant						
Cooling constant	ι 	Changes Summary		Performed	Checked	Date
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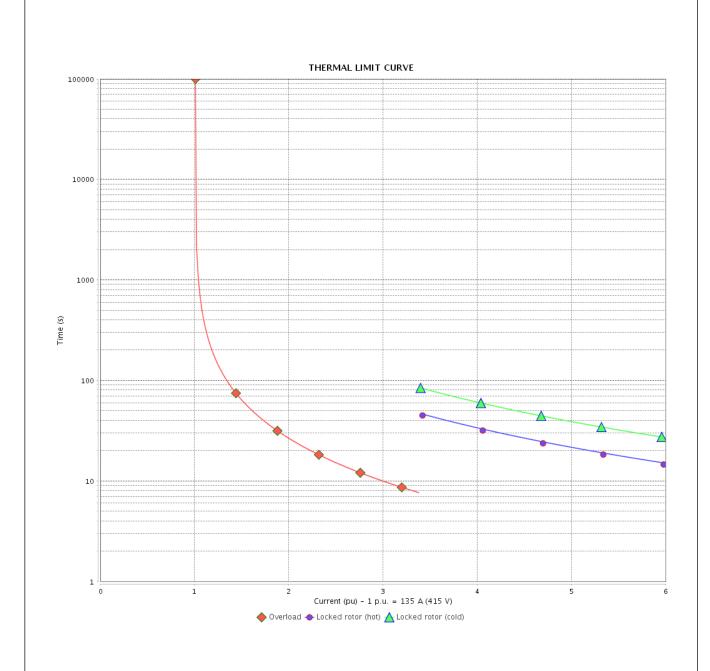


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11356021 10012ET3GR	B444T-W22
Performance		: 415 V 50 Hz 6P IE2				
Rated current LRC		: 135 A : 6.0	Duty cycle		: 87.3 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 533 ft.lb : 200 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue	: 250 %	Temperat		: 105 K	
Rated speed		: 985 rpm	Design		: B	
Heating constant Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



Customer



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Customer :

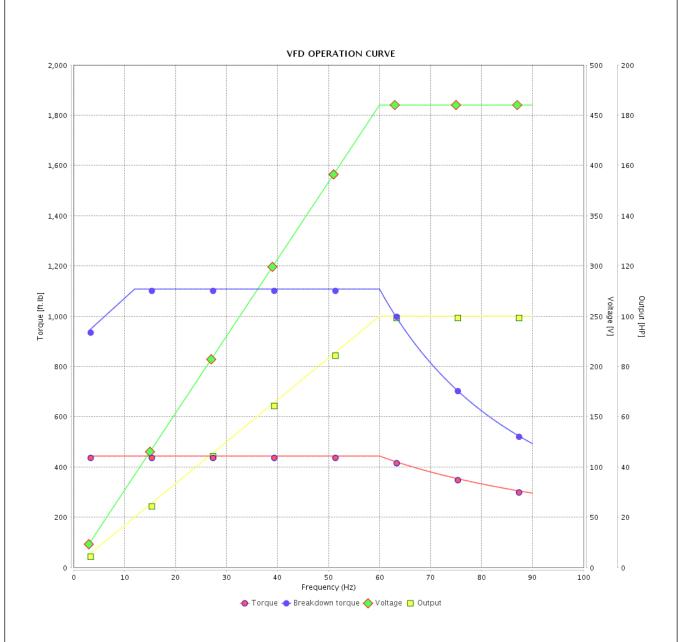
Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 11356021

Catalog # : 10012ET3GRB444T-W22

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: 460 V 60 Hz 6P						
: 121 A : 6.2 : 443 ft.lb : 220 % : 250 % : 1185 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 6.2 Duty cycle : Cont.(S1) : 443 ft.lb Insulation class : F : 220 % Service factor : 1.25 : 250 % Temperature rise : 80 K		: F : 1.25 : 80 K	
Changes Summary	Per	formed	Checked	Date		
				Revision		
	: 6.2 : 443 ft.lb : 220 % : 250 % : 1185 rpm	: 6.2 Duty cycle : 443 ft.lb Insulation class : 220 % Service factor : 250 % Temperature rise : 1185 rpm Design	: 6.2 : 443 ft.lb : 220 % : 250 % : 1185 rpm Duty cycle Insulation class Service factor Temperature rise Design	: 6.2 Duty cycle : Cont.(S1) : 443 ft.lb Insulation class : F : 220 % Service factor : 1.25 : 250 % Temperature rise : 80 K : 1185 rpm Design : B		

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Three Phase Induction Motor - Squirrel Cage



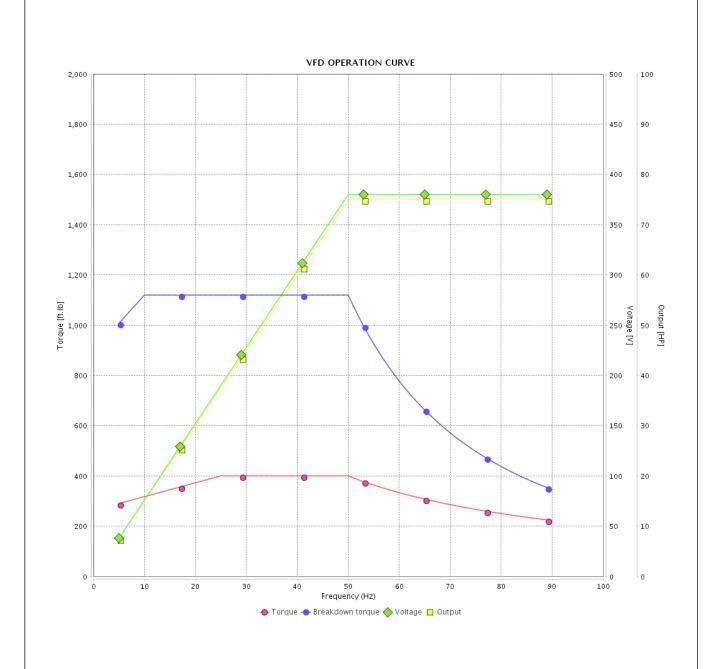
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11356021

Phase

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Performance	: 380 V 50 Hz 6P IE3				
Rated current	: 107 A	ı	f inertia (J)	: 87.3 sq.ft.lb	
LRC	: 6.6	Duty cycle	!	: Cont.(S1)	
Rated torque	: 400 ft.lb	Insulation	class	: F	
Locked rotor torque	: 229 %	Service fa	ctor	: 1.00	
Breakdown torque	: 280 %	Temperatu	ıre 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

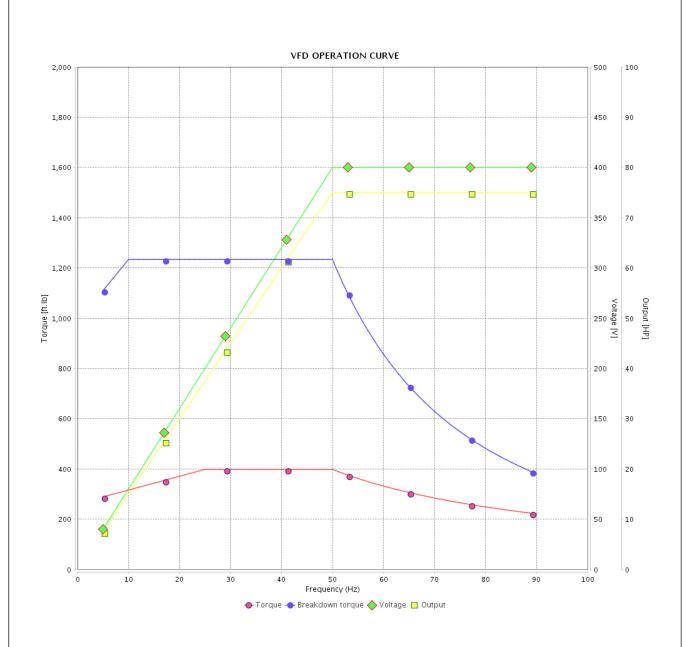
Product code: 11356021

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Performance		: 400 V 50 H	z 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 104 A : 7.2 : 398 ft.lb : 250 % : 310 % : 990 rpm		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.		Changes	Summary		Performed	Checked	Date
Performed by							

Three Phase Induction Motor - Squirrel Cage

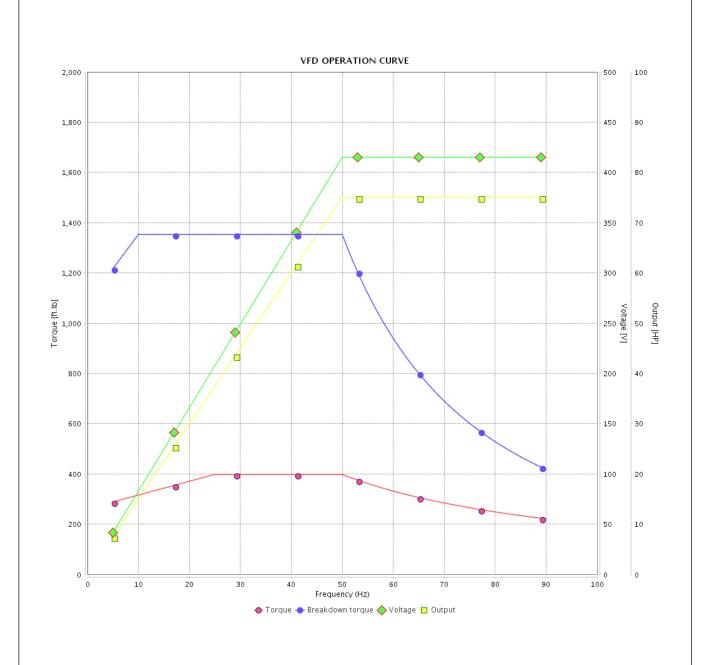


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11356021

Phase

Catalog #: 10012ET3GRB444T-W22



Performance	: 41	15 V 50 Hz 6P IE3				
Rated current : 10		02 A Moment of inertia (J)		: 87.3 sq.ft.lb		
LRC :		7	Duty cycle		: Cont.(S1)	
Rated torque :		98 ft.lb	Insulation	Insulation class		
		70 %	Service fa	Service factor		
Breakdown torqu	e : 34	10 %	Temperati	Temperature rise		
Rated speed	: 99	90 rpm	Design		: B	
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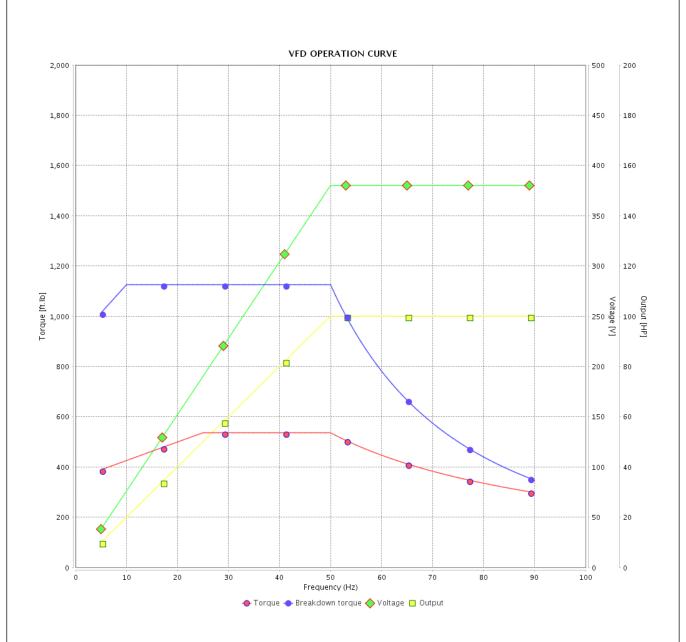
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11356021

Catalog #: 10012ET3GRB444T-W22

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		·							
Performance	: 380 V 50 Hz 6P IE1	: 380 V 50 Hz 6P IE1							
Rated current	: 145 A	Moment of inertia (J)		: 87.3 sq.ft.lb					
LRC	: 5.0	Duty cycle		: Cont.(S1)					
Rated torque	: 536 ft.lb	Insulation class		:F					
Locked rotor torque	: 170 %	Service factor		: 1.00					
Breakdown torque	: 210 %	Temperature rise		: 105 K					
Rated speed	: 980 rpm	Design		: B					
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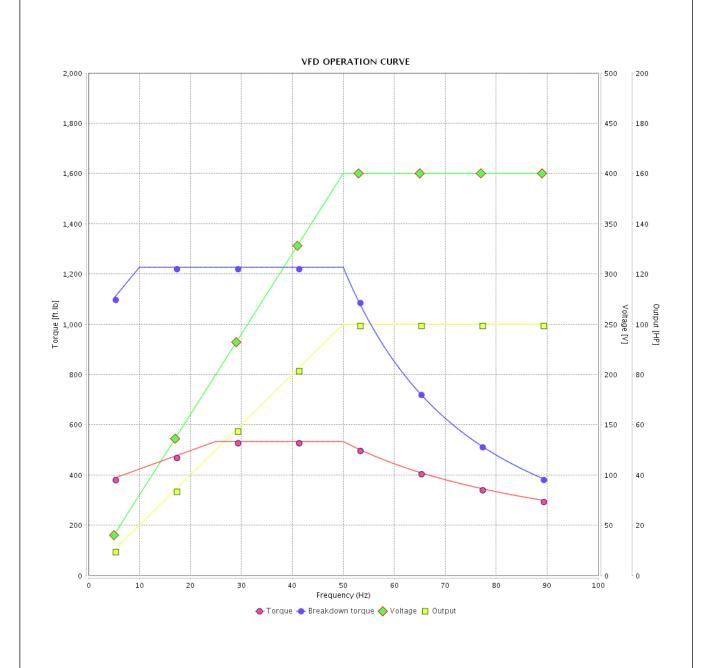


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11356021

Phase

Catalog #: 10012ET3GRB444T-W22



Performance : 4		: 400 V 50 Hz 6P IE2						
Rated current :		39 A	A Moment of inertia (J)		: 87.3 sq.ft.lb			
LRC		5	Duty cycle	Duty cycle				
Rated torque		533 ft.lb Insulation		class	: F			
Locked rotor torque		90 %	Service fa	Service factor				
Breakdown torqu	e : 2:	29 %	Temperati	ıre rise	: 105 K			
Rated speed	: 98	985 rpm De			: B			
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Product line : NEMA Premium Efficiency Three- Produc

Phase

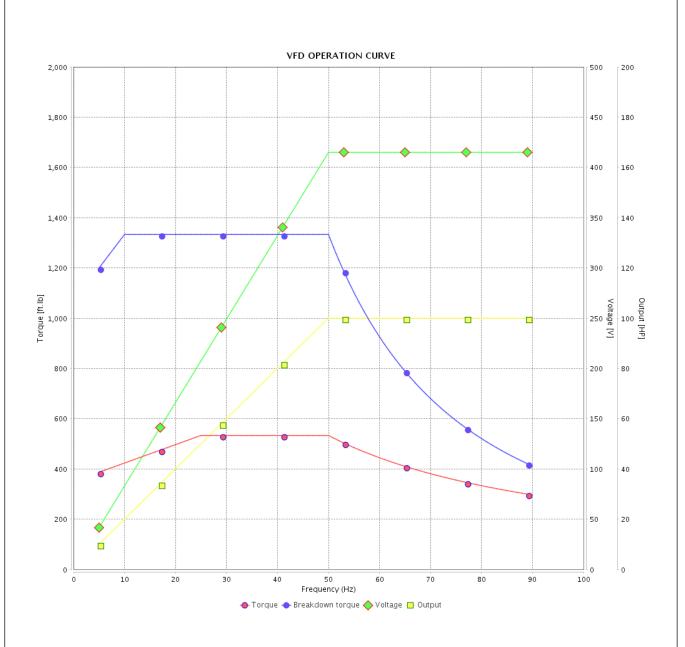
Product code: 11356021

Catalog # : 10012ET3GRB444T-W22

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Performance	: 4′	15 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 50 jue : 20 ie : 25	35 A 0 33 ft.lb 00 % 50 % 85 rpm	Moment of inerti Duty cycle Insulation class Service factor Temperature rise Design		: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						

