DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11438014

Catalog #: 25036ET3G447TS-W22

Frame : 445/7TS 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

Altitude : 1000 m.a.s.l. Approx. weight³ : 2299 lb : IP55 Protection degree Moment of inertia (J) : 50.3 sq.ft.lb

Design		: B			()		•	
Output [HP]		250	200	200	200	250	250	250
Poles		2	2	2	2	2	2	2
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		460	380	400	415	380	400	415
Rated current [A]		269	265	252	245	330	312	300
L. R. Amperes [A]		1802	1776	1865	2034	1782	1903	2010
LRC [A]		6.7x(Code	6.7x(Code	7.4x(Code H)	8.3x(Code J)	5.4x(Code E)	6.1x(Code F)	6.7x(Code
		G)	G)					G)
No load current [A]	60.0	60.0	65.0	70.0	60.0	65.0	70.0
Rated speed [RPN	/ 1]	3573	2973	2977	2979	2962	2967	2970
Slip [%]	Slip [%]		0.90	0.77	0.70	1.27	1.10	1.00
Rated torque [ft.lb]	Rated torque [ft.lb]		353	353	353	443	442	442
Locked rotor torqu	e [%]	210	190	210	220	160	170	180
Breakdown torque	[%]	240	240	270	300	190	220	229
Service factor		1.15	1.15	1.15	1.15	1.00	1.00	1.00
Temperature rise		80 K	105 K	80 K	80 K	105 K	105 K	105 K
Locked rotor time		32s (cold) 18s (hot)	48s (cold) 27s (hot)	45s (cold) 25s (hot)	41s (cold) 23s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)
Noise level ²		81.0 dB(A)	- ()		(,	- (- (/	- ()
	25%	95.3	94.9	95.0	95.0	95.8	95.7	95.6
E.C (0()	50%	95.4	95.0	95.1	95.1	95.4	95.4	95.4
Efficiency (%)	75%	95.8	95.6	95.6	95.6	95.0	95.4	95.8
	100%	95.8	95.6	95.6	95.6	94.5	95.0	95.4
	25%	0.62	0.62	0.58	0.55	0.67	0.64	0.61
Dower Footor	50%	0.84	0.84	0.82	0.80	0.87	0.85	0.84
Power Factor	75%	0.89	0.89	0.88	0.87	0.90	0.89	0.89
	100%	0.90	0.90	0.90	0.89	0.90	0.90	0.90

Drive end Non drive end Foundation loads

Bearing type 6314 C3 6314 C3 Max. traction : 1560 lb Sealing WSeal WSeal Max. compression : 3860 lb Lubrication interval 4000 h 4000 h

Lubricant amount 27 g 27 g Mobil Polyrex EM Lubricant type

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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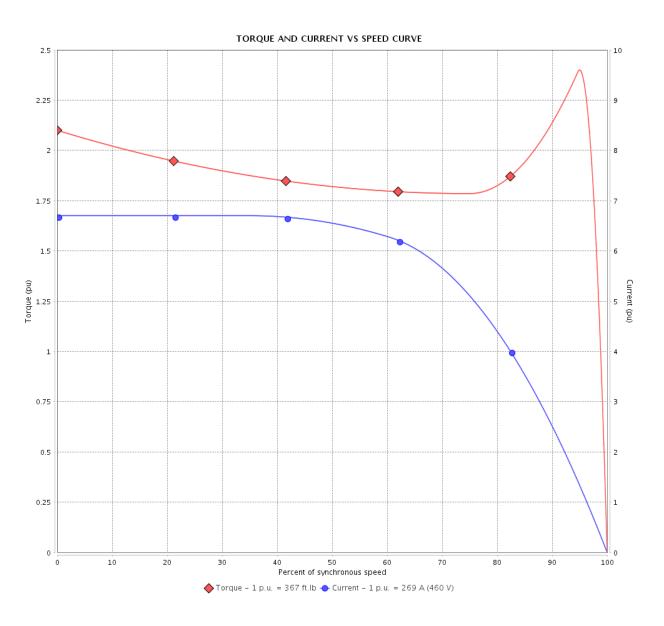
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11438014

Catalog #: 25036ET3G447TS-W22



Performance : 460 V 60 Hz 2P Rated current : 269 A Moment of inertia (J) : 50.3 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : F : 367 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 210 % : 1.15 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 3573 rpm Design : B

Locked rotor time : 32s (cold) 18s (hot)

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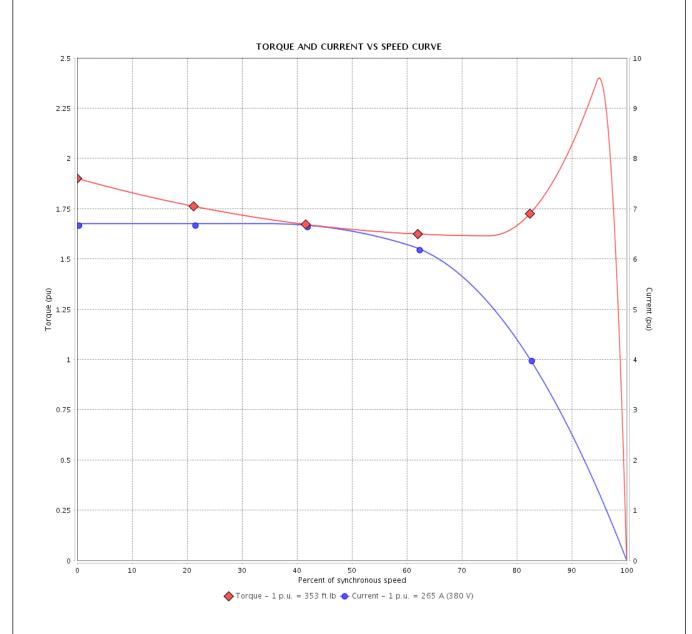
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11438014

Catalog #: 25036ET3G447TS-W22



Performance	: 380 V 50 Hz 2P IE3		
Rated current	: 265 A	Moment of inertia (J)	: 50.3 sq.ft.lb
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 353 ft.lb	Insulation class	:F ` ´
Locked rotor torque	: 190 %	Service factor	: 1.15
Breakdown torque	: 240 %	Temperature rise	: 105 K
Rated speed	: 2973 rpm	Design	: B
Locked rotor time	· 48s (cold) 27s (hot)		

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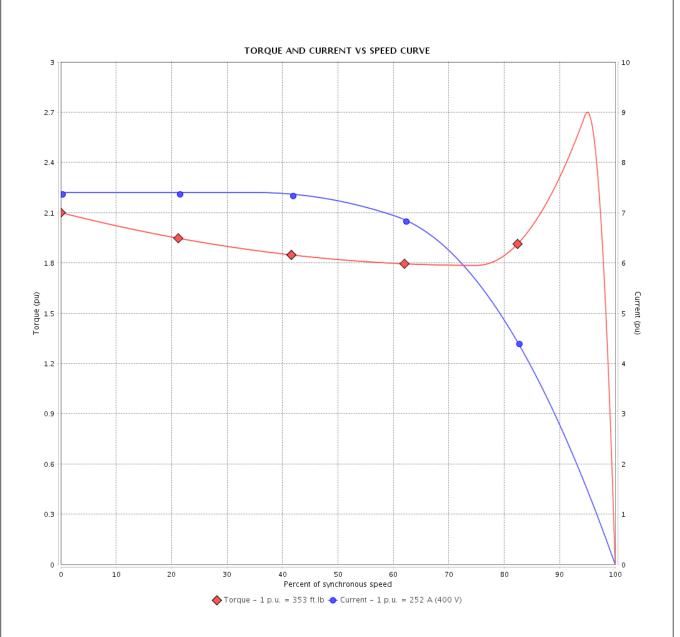


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11438014

Phase

Catalog #: 25036ET3G447TS-W22



Performance : 400 V 50 Hz 2P IE3 Rated current : 252 A Moment of inertia (J) : 50.3 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 353 ft.lb Insulation class Rated torque : F Locked rotor torque : 210 % Service factor : 1.15 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 2977 rpm Design : B

Locked rotor time : 45s (cold) 25s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11438014 Catalog #: 25036ET3G447TS-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. = 353 ft.lb ◆ Current - 1 p.u. = 245 A (415 V) Performance : 415 V 50 Hz 2P IE3 Rated current : 245 A Moment of inertia (J) : 50.3 sq.ft.lb **LRC** : 8.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 353 ft.lb : F : 220 % Locked rotor torque Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 2979 rpm Design : B Locked rotor time : 41s (cold) 23s (hot) Rev. Performed Checked Date **Changes Summary**

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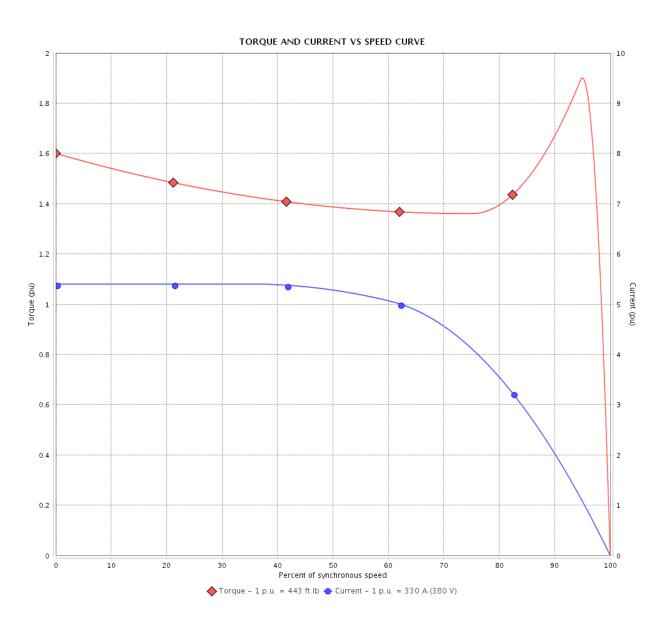
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11438014

Catalog #: 25036ET3G447TS-W22



Performance	: 380 V 50 Hz 2P IE1			
Rated current	: 330 A	Moment of inertia (J)	: 50.3 sq.ft.lb	
LRC	: 5.4	Duty cycle	: Cont.(S1)	
Rated torque	: 443 ft.lb	Insulation class	: F	
Locked rotor torque	: 160 %	Service factor	: 1.00	
Breakdown torque	: 190 %	Temperature rise	: 105 K	
Rated speed	: 2962 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-Product code: 11438014 Catalog #: 25036ET3G447TS-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 (pd) 1.25 Current 0.5 0.25

Performance : 400 V 50 Hz 2P IE2 Rated current : 312 A Moment of inertia (J) : 50.3 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 442 ft.lb : F Locked rotor torque : 170 % Service factor : 1.00 : 105 K Breakdown torque : 220 % Temperature rise Rated speed : 2967 rpm Design : B

Percent of synchronous speed ◆ Torque - 1 p.u. = 442 ft.lb ◆ Current - 1 p.u. = 312 A (400 V)

Locked rotor time : 21s (cold) 12s (hot)

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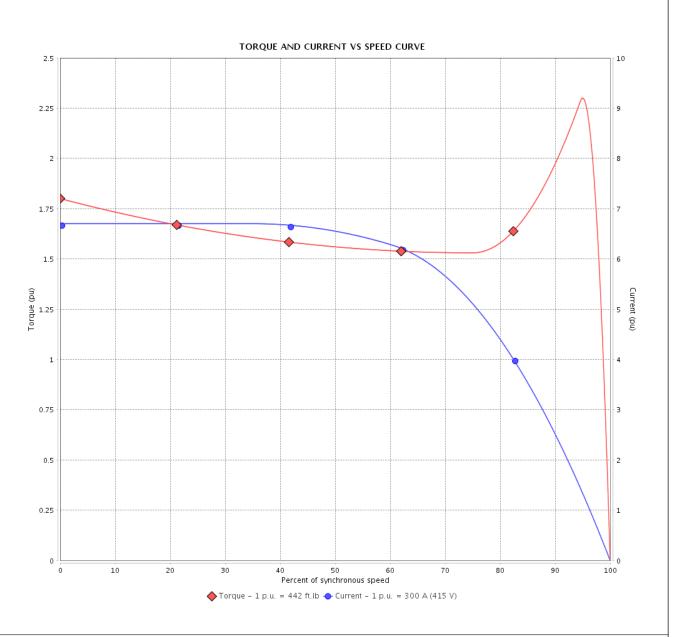


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Product line : NEMA Premium Efficiency Three- Product code : 11438014

Phase

Catalog #: 25036ET3G447TS-W22



Performance	: 415 V 50 Hz 2P IE2		
Rated current	: 300 A	Moment of inertia (J)	: 50.3 sq.ft.lb
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 442 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 105 K
Rated speed	: 2970 rpm	Design	: B
Lasterdunatan tinas	. 04 - / - 40 - / +	1	

Locked rotor time : 21s (cold) 12s (hot)

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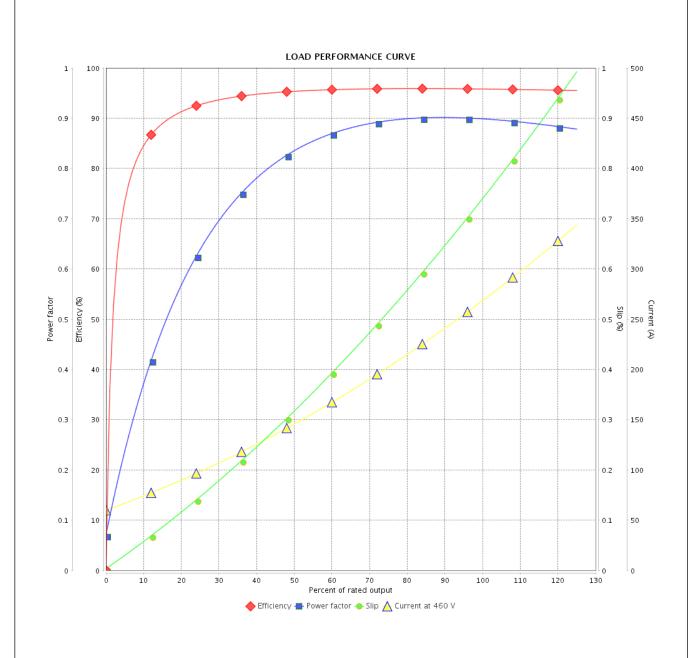
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11438014

Phase

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Performance	: 460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 269 A : 6.7 : 367 ft.lb : 210 % : 240 % : 3573 rpm	Moment of iner Duty cycle Insulation class Service factor Temperature ris Design	;	: 50.3 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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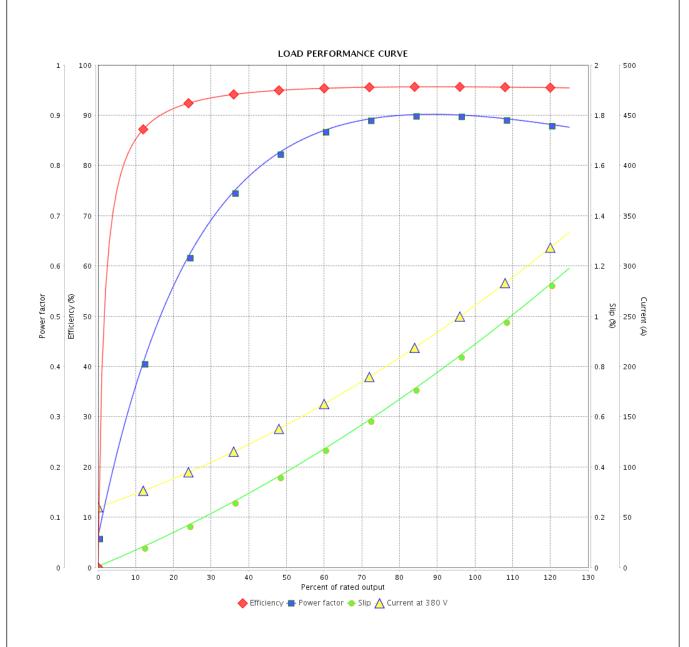
Product line : NEMA Premium Efficiency Three- P

Phase

Product code: 11438014

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Performance	: 380 V 50 Hz 2P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 265 A : 6.7 : 353 ft.lb : 190 % : 240 % : 2973 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 50.3 sq.ft.lb : Cont.(S1) : F : 1.15 : 105 K : B	
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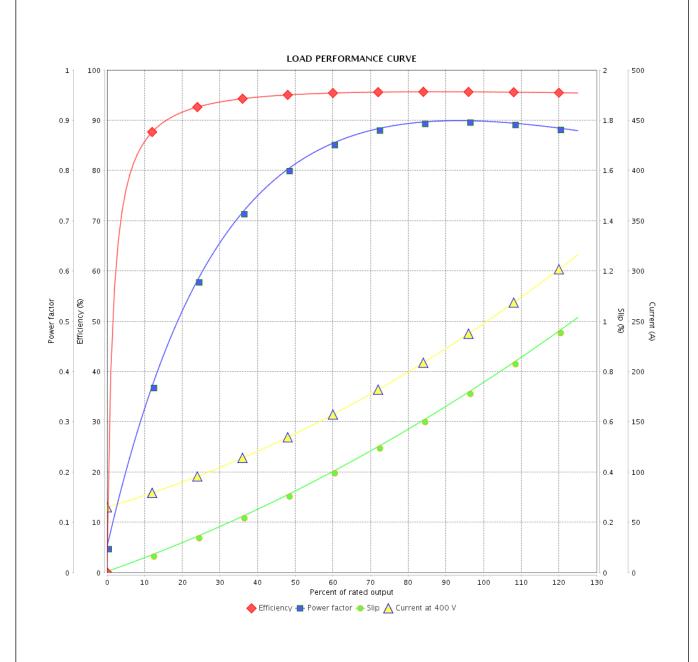


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Product line : NEMA Premium Efficiency Three- Product code : 11438014

Phase

Catalog #: 25036ET3G447TS-W22



Performance	: 4	00 V 50 Hz 2P IE3				
Rated current	: 2	52 A	Moment o	f inertia (J)	: 50.3 sq.ft.lb	
LRC	: 7	.4	Duty cycle	;	: Cont.(S1)	
Rated torque	: 3	53 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	10 %	Service fa	ctor	: 1.15	
Breakdown torque : 2		70 %	Temperati	Temperature rise		
Rated speed	: 2	977 rpm	Design		: B	
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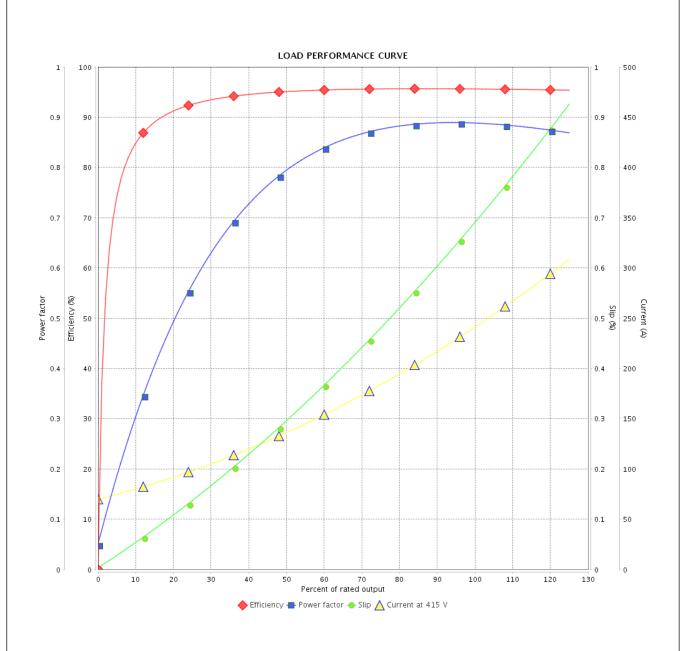
Customer :

Product line : NEMA Premium Efficiency Three- Prod

Phase

Product code: 11438014

Catalog #: 25036ET3G447TS-W22



Performance	: 41	15 V 50 Hz 2P IE3				
Rated current	: 24	15 A	Moment of	of inertia (J)	: 50.3 sq.ft.lb	
LRC	: 8.	3	Duty cycle	е	: Cont.(S1)	
Rated torque	: 35	53 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 22	20 %	Service fa	actor	: 1.15	
Breakdown torque	Breakdown torque : 300 %		Temperat	ure rise	: 80 K	
Rated speed	: 29	979 rpm	Design		: B	
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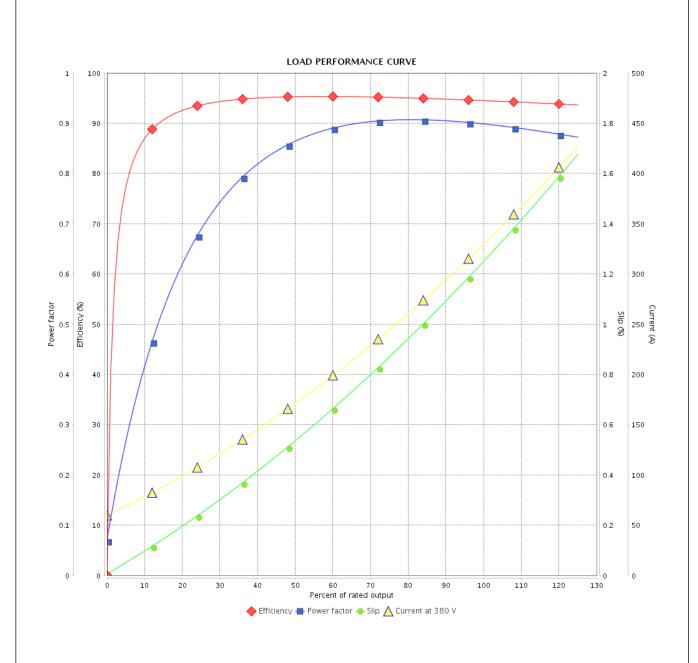
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11438014

Phase

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Performance	: 380 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 330 A : 5.4 : 443 ft.lb : 160 % : 190 % : 2962 rpm	Moment o Duty cycle Insulation Service fa Temperati Design	class ctor	: 50.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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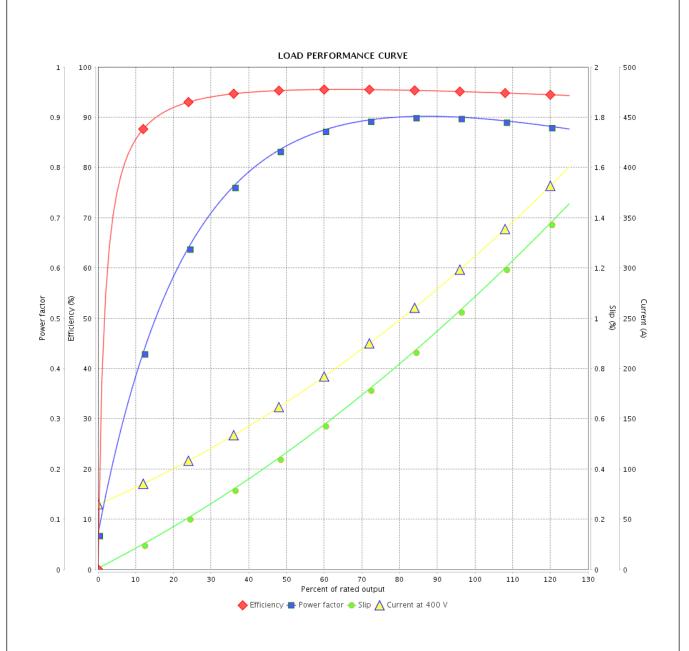
Product line : NEMA Premium Efficiency Three- Pro

Phase

Product code: 11438014

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Performance	: 400 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 312 A : 6.1 : 442 ft.lb : 170 % : 220 % : 2967 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 50.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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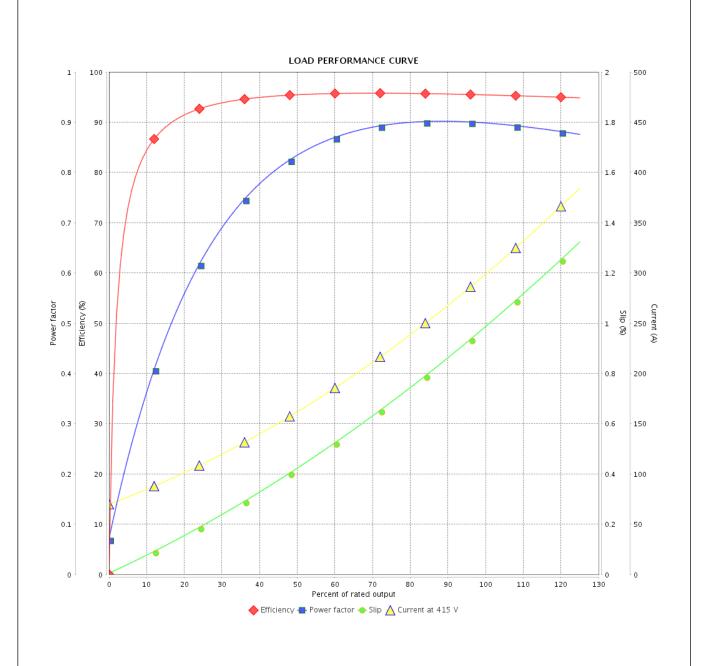


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Product line : NEMA Premium Efficiency Three- Product code : 11438014

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Catalog #: 25036ET3G447TS-W22



Performance	: 4	15 V 50 Hz 2P IE2				
Rated current	: 3	00 A	Moment o	f inertia (J)	: 50.3 sq.ft.lb	
LRC	: 6	.7	Duty cycle	}	: Cont.(S1)	
Rated torque	: 4	42 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 1	80 %	Service fa	ctor	: 1.00	
Breakdown torque : 229 %		29 %	Temperature rise		: 105 K	
Rated speed	: 2	970 rpm	Design		: B	
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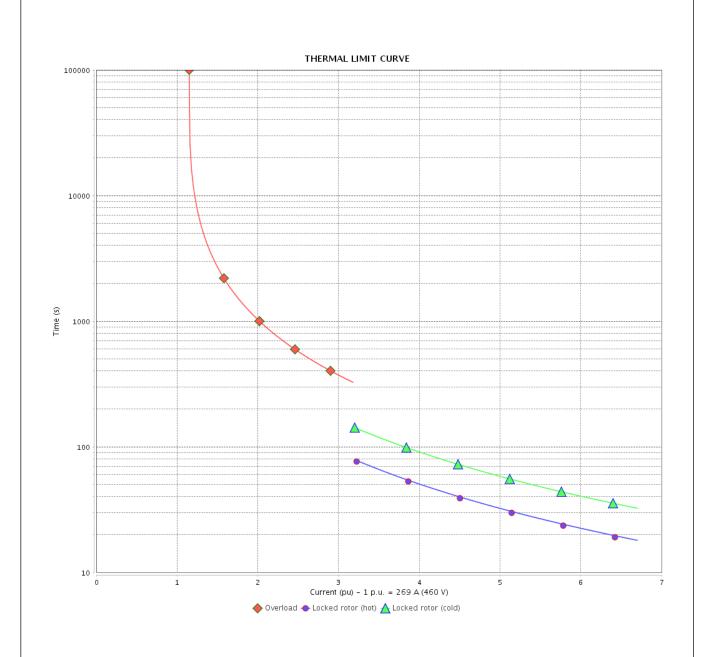


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11438014 25036ET3G44	17TS-W22
Performance		460 V 60 Hz 2P				
Rated current		269 A	Moment o	of inertia (J)	: 50.3 sq.ft.lb	
LRC	:	6.7	Duty cycle	9	: Cont.(S1)	
Rated torque		367 ft.lb 210 %	Insulation Service fa		: F : 1.15	
Locked rotor tord Breakdown torqu		240 %	Temperati		: 1.15 : 80 K	
Rated speed		3573 rpm	Design		: B	
Heating constant						
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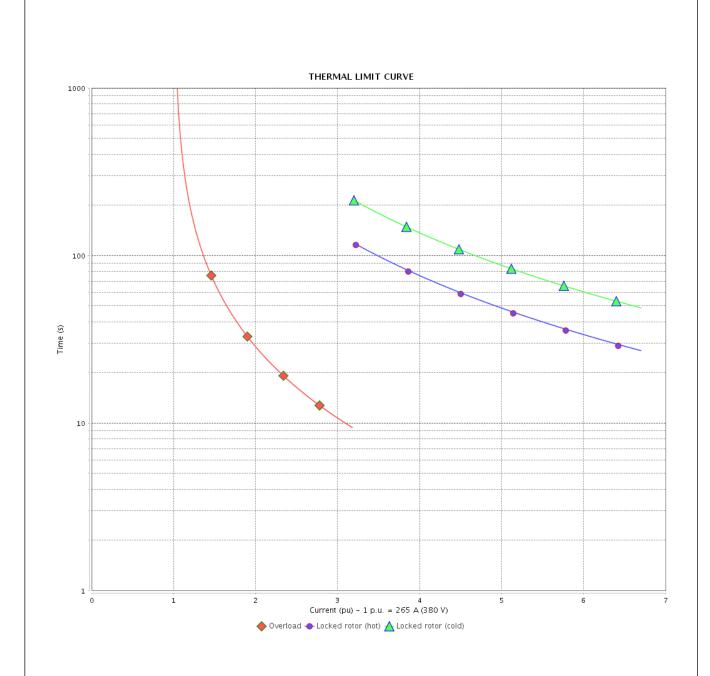


Customer		:				
Product line		: NEMA Premium Efficiency [*] Phase		Product code : Catalog # :	11438014 25036ET3G44	17TS-W22
Performance		380 V 50 Hz 2P IE3				
Rated current		265 A	Moment o	of inertia (J)	: 50.3 sq.ft.lb	
LRC	:	6.7	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor tord		353 ft.lb 190 %	Insulation Service fa		: F : 1.15	
Breakdown torqu		240 %	Temperati		: 1.15 : 105 K	
Rated speed		2973 rpm	Design		: B	
Heating constant						
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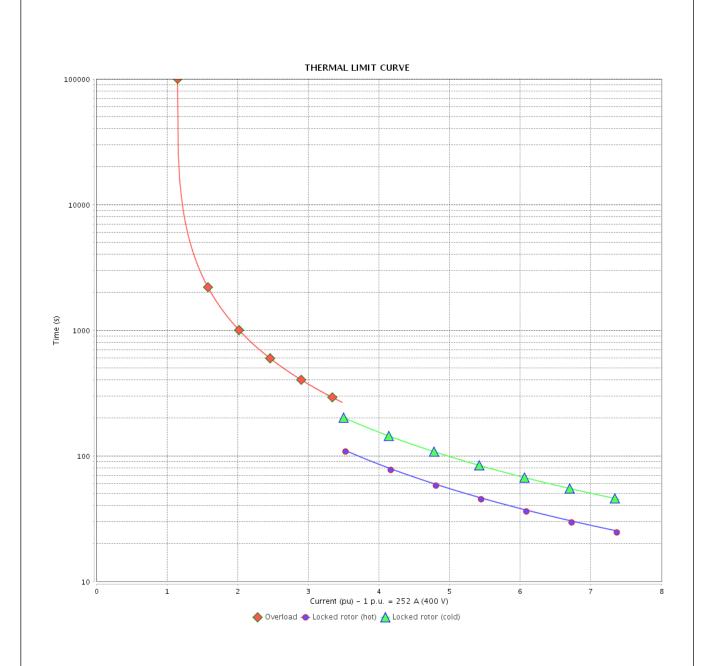


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Product line		NEMA Premium Efficiency hase		Product code :	11438014 25036ET3G4	47TS-W22
Performance		00 V 50 Hz 2P IE3	Managet	finartic (1)	. 50 0 - 51	
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7. : 35 e : 27 : 27	52 A 4 53 ft.lb 10 % 70 % 977 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor	: 50.3 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant		·				
Cooling constant						
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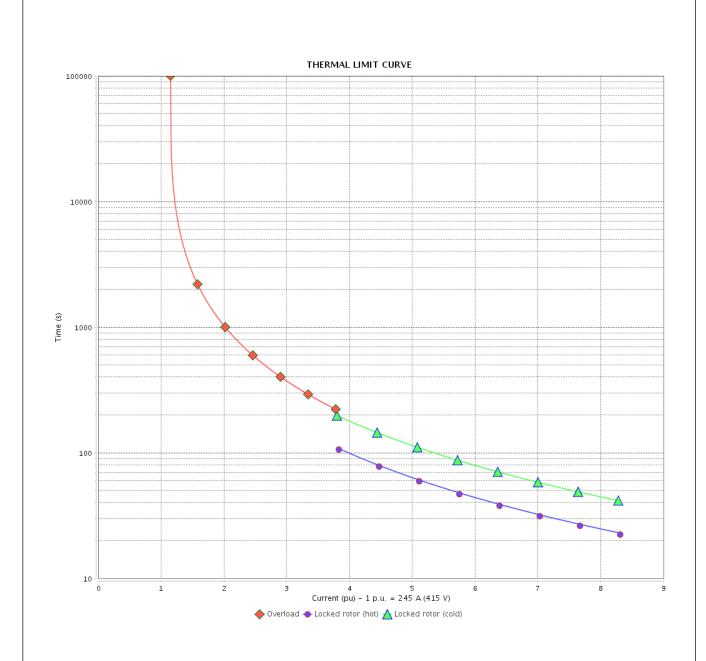


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Product line		NEMA Premium Efficiency Thase		Product code :	11438014	4770 1400
			(Catalog # :	25036ET3G4	471S-W22
Performance		15 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 2 ⁴ : 8. : 38 e : 2 ² : 30	45 A 3 53 ft.lb 20 % 00 %	Duty cycle Insulation Service fac Temperatu	class ctor	: 50.3 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K	
Rated speed	: 29	979 rpm	Design		: B	
Heating constant						
Cooling constant						
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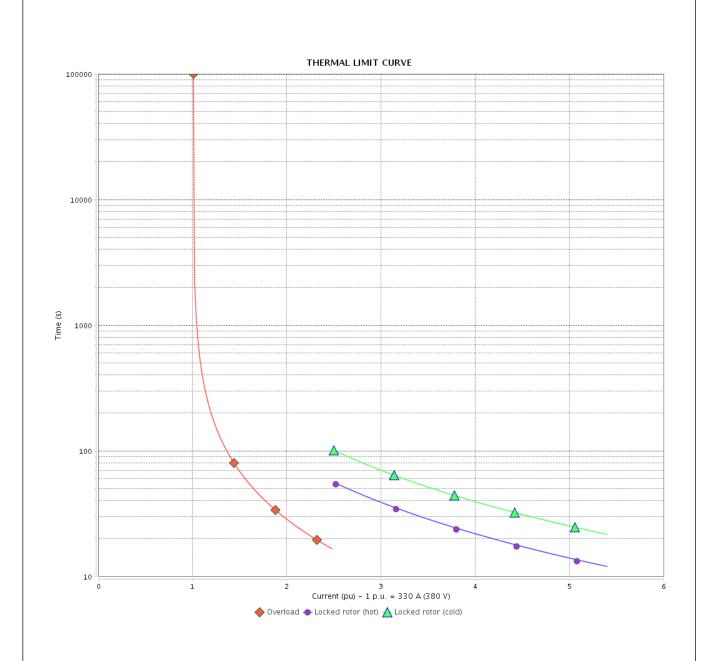


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11438014 25036ET3G44	17TS-W22
Performance		: 380 V 50 Hz 2P IE1				
Rated current LRC Rated torque		: 330 A : 5.4 : 443 ft.lb	Moment of Duty cycle Insulation		: 50.3 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord Breakdown torqu	que	: 160 % : 190 %	Service fa Temperat	actor	: 1.00 : 105 K	
Rated speed		: 2962 rpm	Design		: B	
Heating constant						
Cooling constant	ι 	Changes Summary		Performed	Checked	Date
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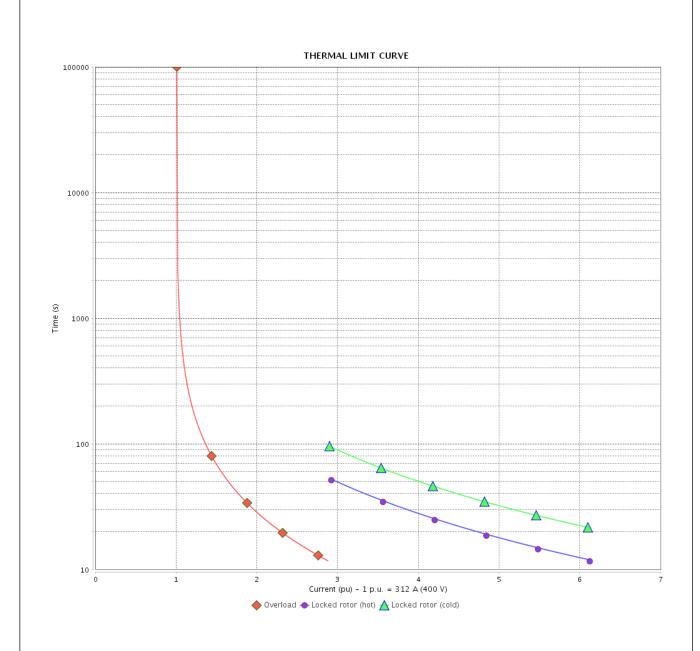


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code : Catalog # :	11438014 25036ET3G4	47TS-W22
Performance	: 40	00 V 50 Hz 2P IE2				
Rated current LRC		12 A	Moment of Duty cycle	f inertia (J)	: 50.3 sq.ft.lb : Cont.(S1)	
Rated torque	: 44	12 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		70 % 20 %	Service fa Temperatu		: 1.00 : 105 K	
Rated speed		967 rpm	Design	110 H30	: B	
Heating constant						
Cooling constant		Changes Cumman		Dorform	Chaakad	Data
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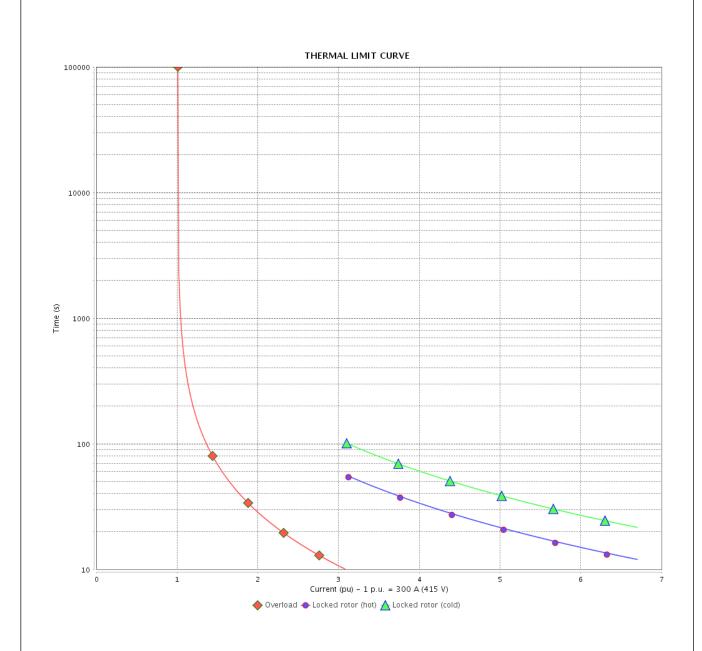


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11438014 25036ET3G44	17TS-W22
Performance		: 415 V 50 Hz 2P IE2				
Rated current LRC		: 300 A : 6.7	Duty cycle		: 50.3 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 442 ft.lb : 180 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue	: 229 %	Temperat		: 105 K : B	
Rated speed Heating constan		: 2970 rpm	Design		. D	
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



Customer :

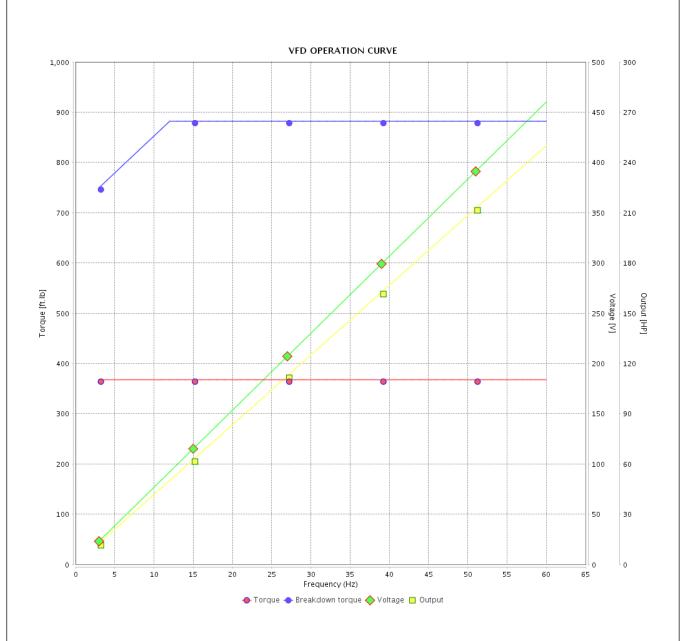
Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11438014

Catalog #: 25036ET3G447TS-W22

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Performance	: 460 V 60 Hz 2P				
Rated current	: 269 A	Moment o	f inertia (J)	: 50.3 sq.ft.lb	
LRC	: 6.7	Duty cycle)	: Cont.(S1)	
Rated torque	: 367 ft.lb	Insulation	class	: F	
Locked rotor torque	: 210 %	Service fa	ctor	: 1.15	
Breakdown torque	: 240 %	Temperati	ıre rise	: 80 K	
Rated speed	: 3573 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



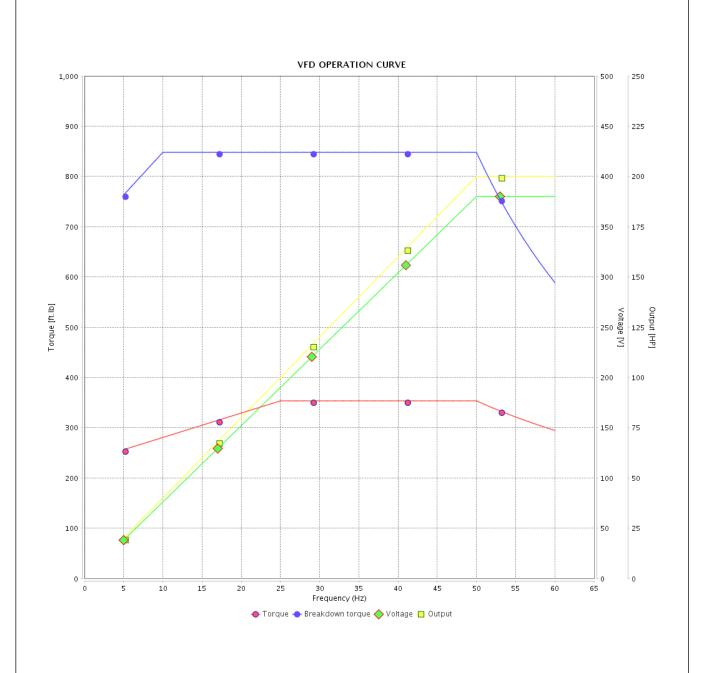
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 25036ET3G447TS-W22

11438014



Performance	:	380 V 50 Hz 2P IE3				
Rated current	:	265 A	Moment o	f inertia (J)	: 50.3 sq.ft.lb	
LRC	:	6.7	Duty cycle)	: Cont.(S1)	
Rated torque	:	353 ft.lb	Insulation	class	:F	
Locked rotor torque	e :	190 %	Service fa	ctor	: 1.15	
Breakdown torque	:	240 %	Temperati	ıre rise	: 105 K	
Rated speed	:	2973 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



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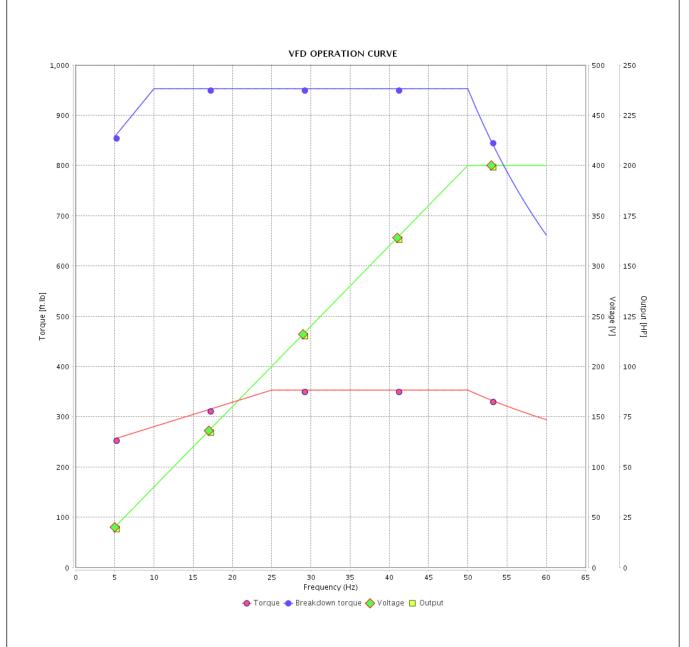
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11438014

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Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 252 A : 7.4 : 353 ft.lb : 210 % : 270 % : 2977 rpm	Moment of inertia (Duty cycle Insulation class Service factor Temperature rise Design	(J)	: 50.3 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.	Changes Summary	Perfo	ormed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



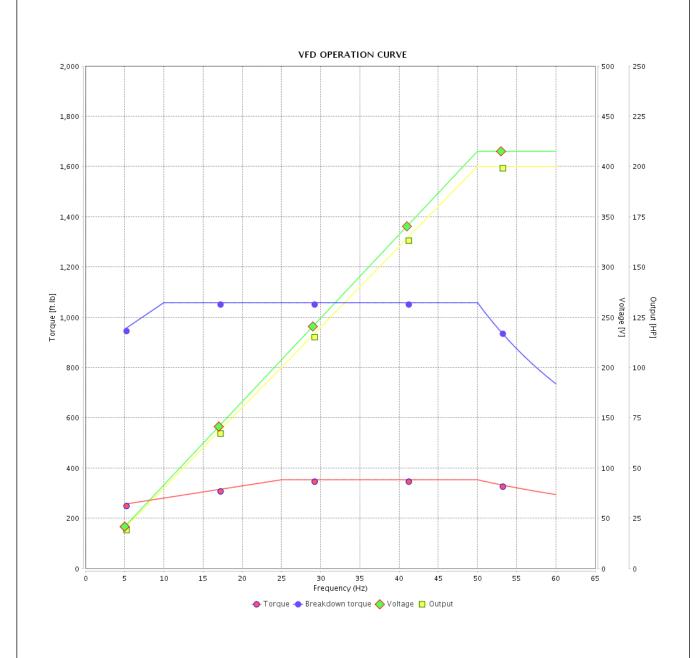
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Product line : NEMA Premium Efficiency Three- Product code : 11438014

Phase

Catalog #: 25036ET3G447TS-W22

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Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 245 A : 8.3 : 353 ft.lb : 220 % : 300 % : 2979 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 50.3 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



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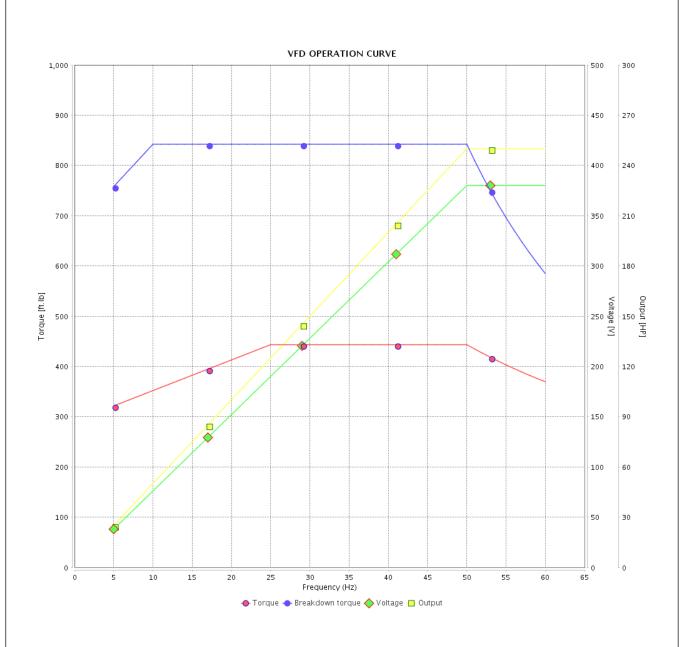
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11438014

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Performance	: 380 V 50 Hz 2P IE1					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 330 A : 5.4 : 443 ft.lb : 160 % : 190 % : 2962 rpm	Moment of in Duty cycle Insulation of Service fact Temperature Design	lass	: 50.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B		
Rev.	Changes Summary		Performed	Checked	Date	
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Three Phase Induction Motor - Squirrel Cage



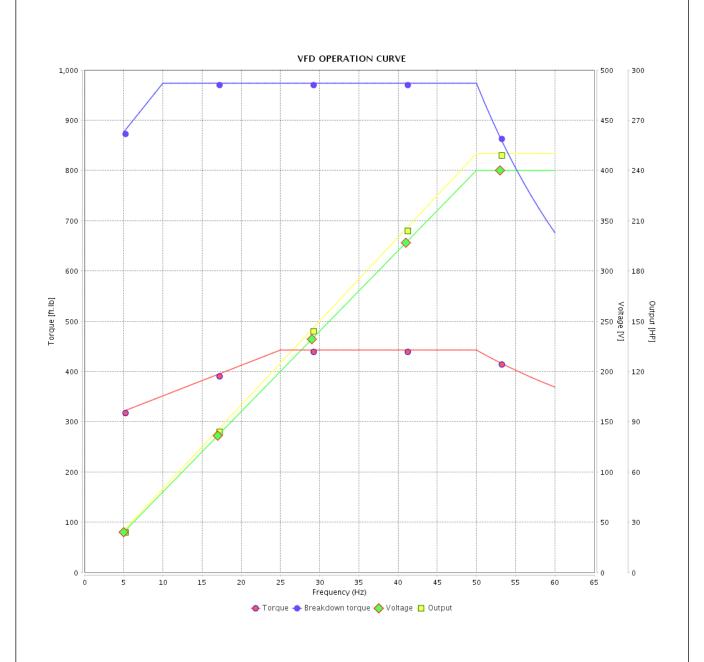
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Product line : NEMA Premium Efficiency Three- Product code : 11438014

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Performance	: 400 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 312 A : 6.1 : 442 ft.lb : 170 % : 220 % : 2967 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 50.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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Three Phase Induction Motor - Squirrel Cage



Customer :

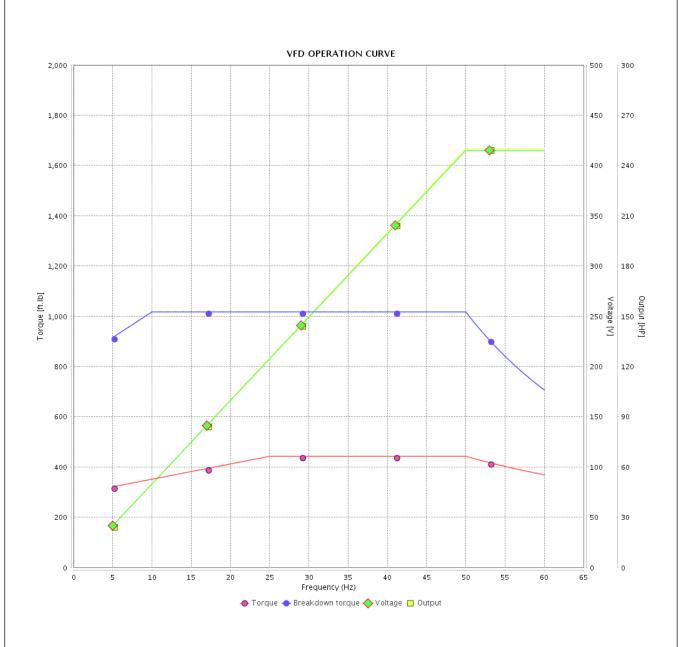
Product line : NEMA Premium Efficiency Three- P

Phase

Product code: 11438014

Catalog #: 25036ET3G447TS-W22

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Performance	: 415 V 50 Hz 2P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 300 A : 6.7 : 442 ft.lb : 180 % : 229 % : 2970 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 50.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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