DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11584442

Catalog #: 15012ST3QIERB447T-W2

Frame : 445/7T 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

: 2353 lb : 1000 m.a.s.l. Altitude Approx. weight³

Protection degree	9	: IP55		Mome	nt of inertia (J)	: 1	34 sq.ft.lb	
Design		: B						
Output [HP]		150	125	125	125	150	150	150
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]		176	174	167	165	211	201	196
L. R. Amperes [A]		1074	1027	1069	1139	1034	1085	1156
LRC [A]		6.1x(Code G)	5.9x(Code F)	6.4x(Code G)	6.9x(Code H)	4.9x(Code E)	5.4x(Code F)	5.9x(Code F
No load current [A]		65.0	64.2	69.2	73.1	64.2	69.2	73.1
Rated speed [RPM	1]	1185	985	985	990	985	985	990
Slip [%]		1.25	1.50	1.50	1.00	1.50	1.50	1.00
Rated torque [ft.lb]		665	666	666	663	800	800	796
Locked rotor torque	e [%]	229	210	229	250	170	190	210
Breakdown torque	[%]	250	270	290	330	220	240	270
Service factor		1.15	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise		80 K	105 K	105 K	80 K	105 K	105 K	105 K
Locked rotor time		36s (cold) 20s (hot)	27s (cold) 15s (hot)					
Noise level ²		69.0 dB(A)	, ,	, ,	, ,		` '	, ,
	25%	94.5	94.8	94.3	94.4	95.3	94.9	94.9
Cfficionov (0/)	50%	95.0	94.8	94.5	94.5	95.0	95.0	95.0
Efficiency (%)	75%	95.4	95.1	95.1	95.1	95.0	95.0	95.0
	100%	95.8	94.9	95.1	95.1	94.5	95.0	95.0
	25%	0.44	0.44	0.41	0.38	0.50	0.47	0.43
Power Factor	50%	0.67	0.67	0.64	0.60	0.73	0.70	0.67
FOWEI FACIOI	75%	0.78	0.79	0.76	0.74	0.82	0.80	0.78
	100%	0.82	0.83	0.82	0.80	0.84	0.83	0.82

Drive end Non drive end Foundation loads

Bearing type NU-319 C3 6316 C3 Max. traction : 4550 lb Sealing Inpro/Seal Inpro/Seal : 6903 lb Max. compression

Lubrication interval 9000 h 16000 h Lubricant amount 45 g 34 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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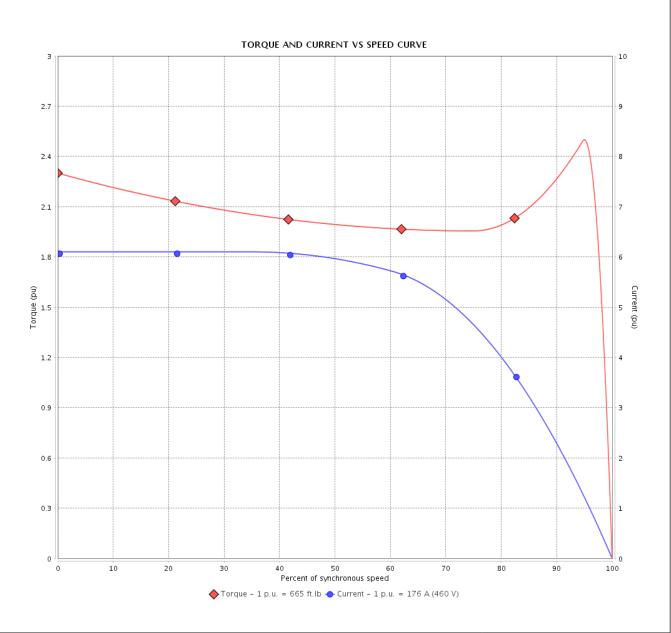
Customer :

Product line : NEMA Premium Efficiency Three- P

Phase

Product code: 11584442

Catalog #: 15012ST3QIERB447T-W2



Performance : 460 V 60 Hz 6P Rated current : 176 A Moment of inertia (J) : 134 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 665 ft.lb : F Locked rotor torque : 229 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1185 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: 11584442 Catalog #: 15012ST3QIERB447T-W2 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. = 666 ft.lb ◆ Current - 1 p.u. = 174 A (380 V) Performance : 380 V 50 Hz 6P IE3 Rated current : 174 A Moment of inertia (J) : 134 sq.ft.lb **LRC** : 5.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 666 ft.lb : F Locked rotor torque : 210 % Service factor : 1.00 : 105 K Breakdown torque : 270 % Temperature rise Rated speed : 985 rpm Design : B Locked rotor time : 27s (cold) 15s (hot) Rev. Performed Checked Date **Changes Summary**

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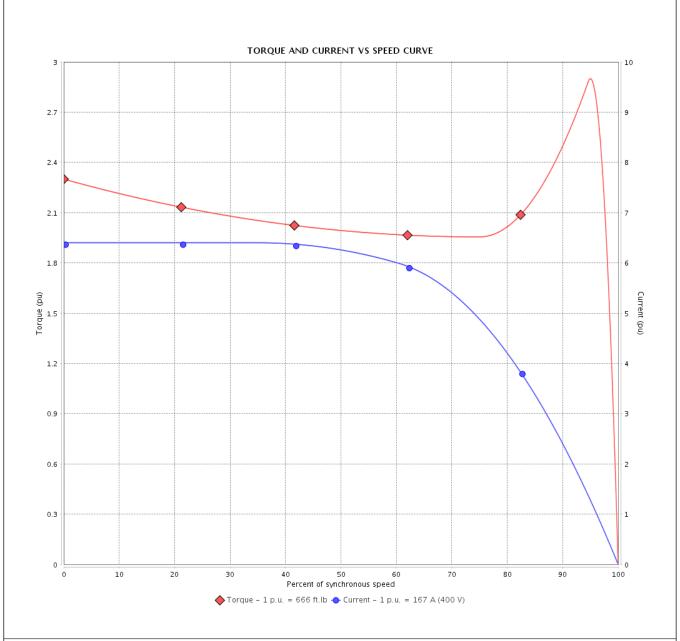
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11584442

Catalog #: 15012ST3QIERB447T-W2



Performance : 400 V 50 Hz 6P IE3 Rated current : 167 A Moment of inertia (J) : 134 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) Insulation class Rated torque : 666 ft.lb : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 290 % Temperature rise : 105 K Rated speed : 985 rpm Design : B

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

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Customer Product line : NEMA Premium Efficiency Three-Product code: 11584442 Catalog #: 15012ST3QIERB447T-W2 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Current Torque (pu) 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 663 ft.lb ◆ Current - 1 p.u. = 165 A (415 V) Performance : 415 V 50 Hz 6P IE3 Rated current : 165 A Moment of inertia (J) : 134 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 663 ft.lb : 250 % Locked rotor torque Service factor : 1.00 Breakdown torque : 330 % 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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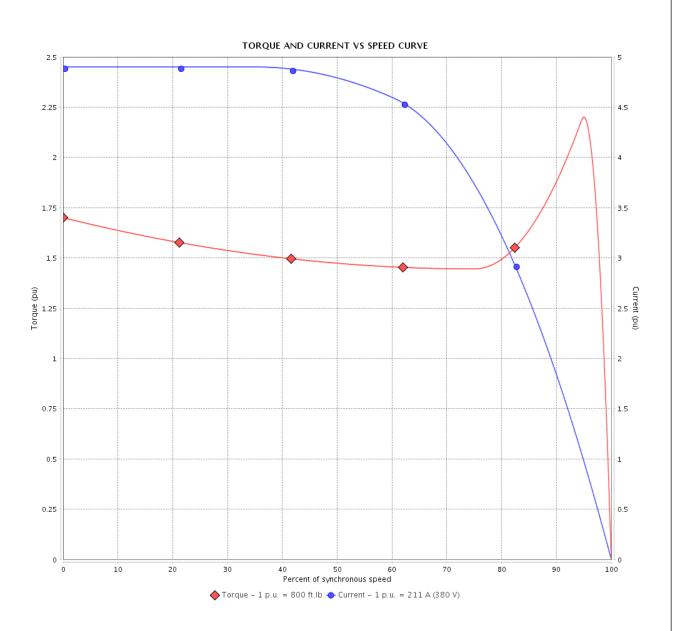


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11584442

Phase

Catalog #: 15012ST3QIERB447T-W2



Performance	: 380 V 50 Hz 6P IE2		
Rated current	: 211 A	Moment of inertia (J)	: 134 sq.ft.lb
LRC	: 4.9	Duty cycle	: Cont.(S1)
Rated torque	: 800 ft.lb	Insulation class	:F
Locked rotor torque	: 170 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 105 K
Rated speed	: 985 rpm	Design	: B
•	•		

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

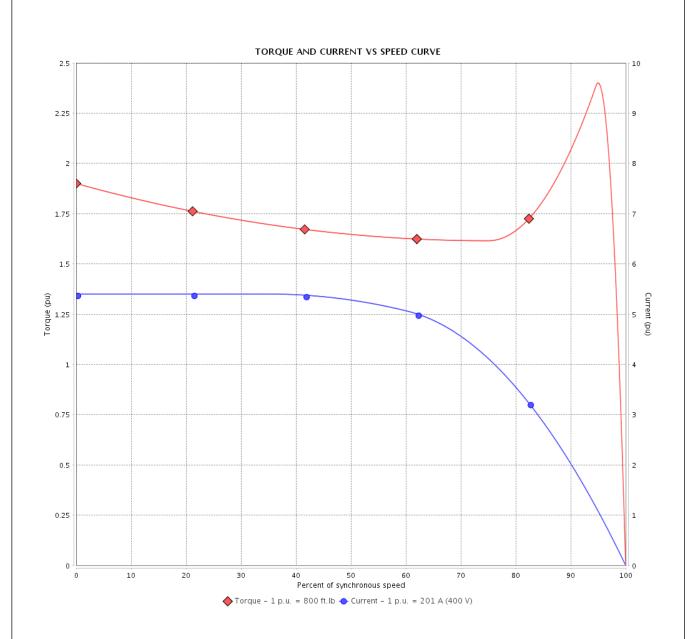
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Customer Product line : NEMA Premium Efficiency Three-Product code: 11584442

> Catalog #: 15012ST3QIERB447T-W2



Performance	: 400 V 50 Hz 6P IE2		
Rated current	: 201 A	Moment of inertia (J)	: 134 sq.ft.lb
LRC	: 5.4	Duty cycle	: Cont.(S1)
Rated torque	: 800 ft.lb	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 105 K
Rated speed	: 985 rpm	Design	: B
Locked rotor time	· 27s (cold) 15s (hot)		

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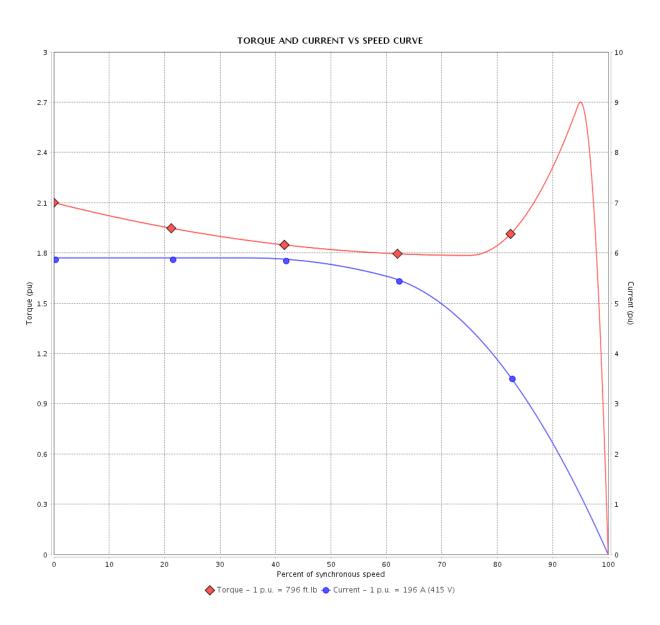
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11584442

Catalog #: 15012ST3QIERB447T-W2



Performance : 415 V 50 Hz 6P IE2 Rated current : 196 A Moment of inertia (J) : 134 sq.ft.lb **LRC** : 5.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 796 ft.lb : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 270 % Temperature rise : 105 K Rated speed : 990 rpm Design : B

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

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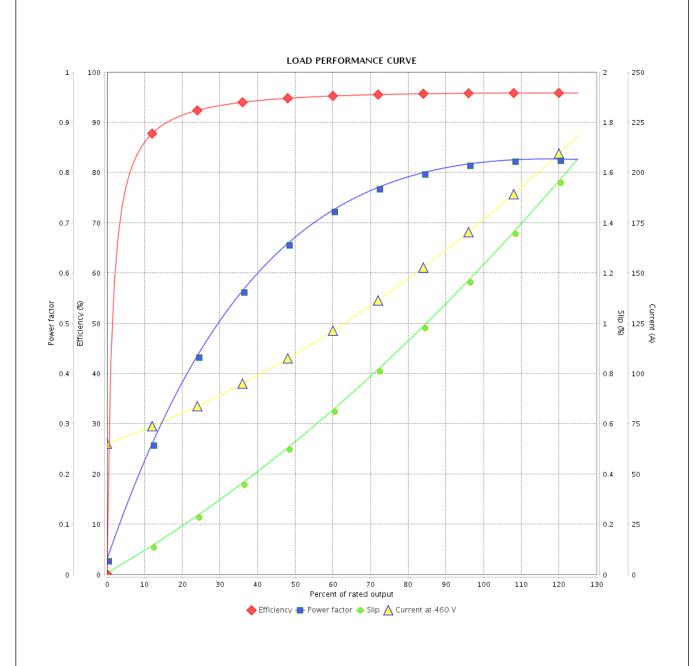
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11584442

Phase

Catalog #: 15012ST3QIERB447T-W2

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Performance	: 460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 176 A : 6.1 : 665 ft.lb : 229 % : 250 % : 1185 rpm	Moment of ir Duty cycle Insulation cla Service facto Temperature Design	ass or	: 134 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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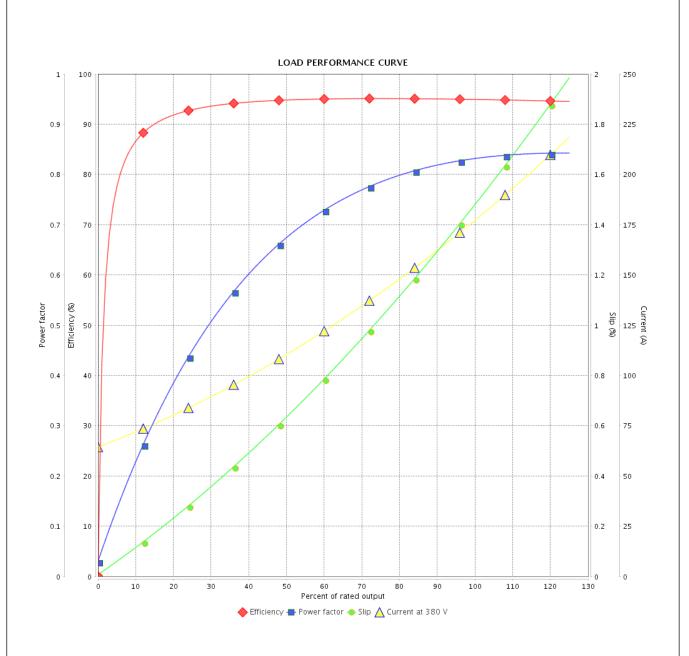
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Phase

Product code: 11584442

Catalog #: 15012ST3QIERB447T-W2

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Performance	: 3	380 V 50 Hz 6P IE3	3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5 : 6 que : 2	174 A 5.9 666 ft.lb 210 % 270 % 985 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 134 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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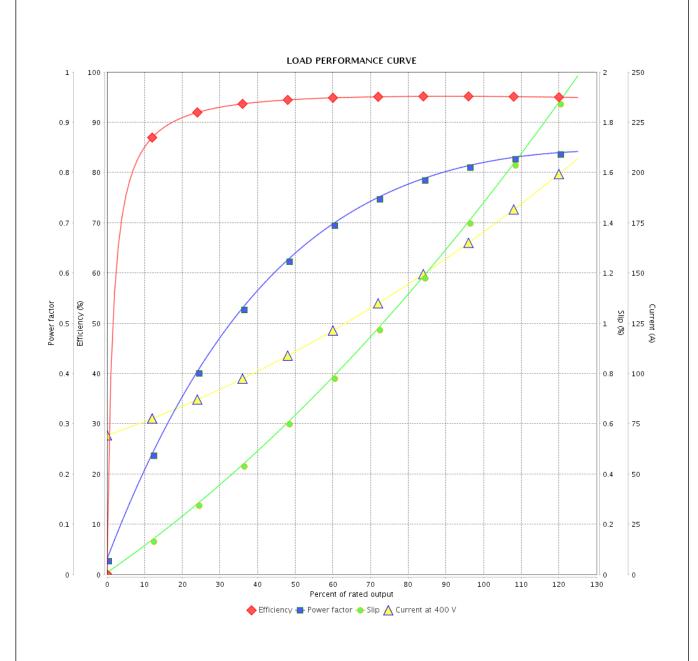
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11584442

Phase

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Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 167 A : 6.4 : 666 ft.lb : 229 % : 290 % : 985 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ector	: 134 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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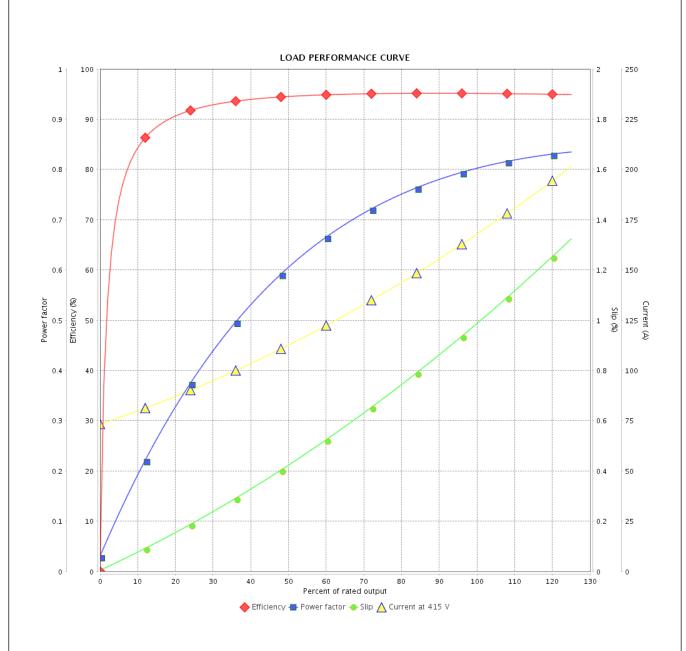
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Phase

Product code: 11584442

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Performance	: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 165 A : 6.9 : 663 ft.lb : 250 % : 330 % : 990 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 134 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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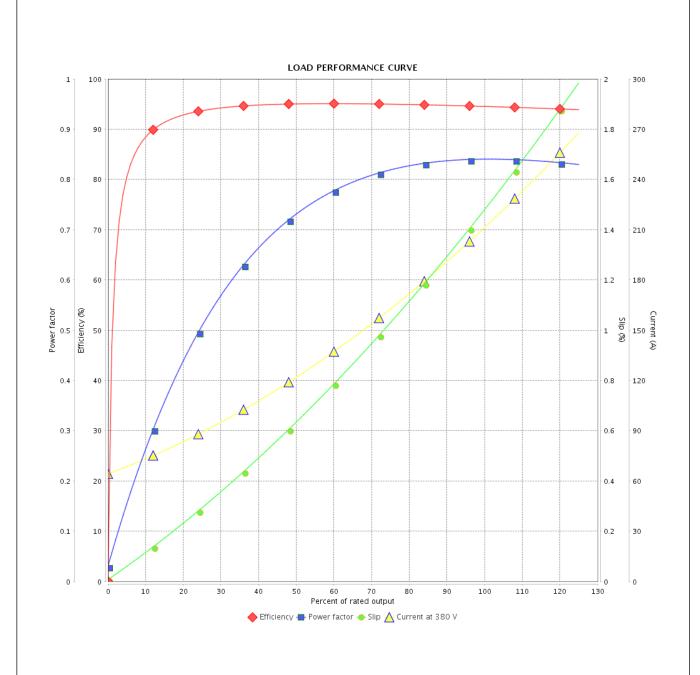


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11584442

Phase

Catalog #: 15012ST3QIERB447T-W2



Performance	::	380 V 50 Hz 6P IE2				
Rated current	::	211 A	Moment o	f inertia (J)	: 134 sq.ft.lb	
LRC	: 4	4.9	Duty cycle	;	: Cont.(S1)	
Rated torque	: 8	800 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	170 %	Service fa	ctor	: 1.00	
Breakdown torque	: :	220 %	Temperature rise		: 105 K	
Rated speed	: 9	985 rpm	Design		: B	
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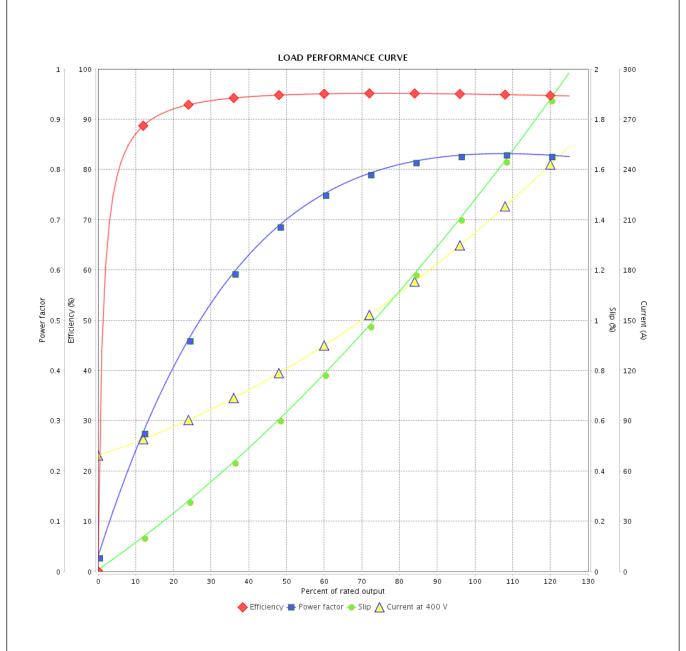
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11584442

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Performance	: 400 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torqu Breakdown torque Rated speed		Moment of Duty cycle Insulation Service fa Temperation	class actor	: 134 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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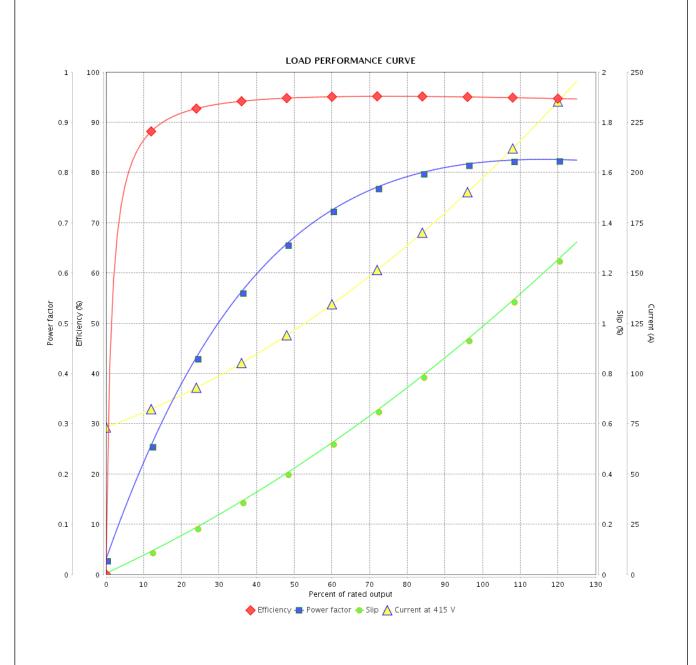


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11584442

Phase

Catalog #: 15012ST3QIERB447T-W2



Performance	: 4	15 V 50 Hz 6P IE2				
Rated current	: 1	96 A	Moment o	f inertia (J)	: 134 sq.ft.lb	
LRC	: 5	.9	Duty cycle	;	: Cont.(S1)	
Rated torque	: 7	96 ft.lb	Insulation	class	: F	
Locked rotor torqu	e :2	10 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	70 %	Temperati	Temperature rise		
Rated speed	: 9	90 rpm	Design		: B	
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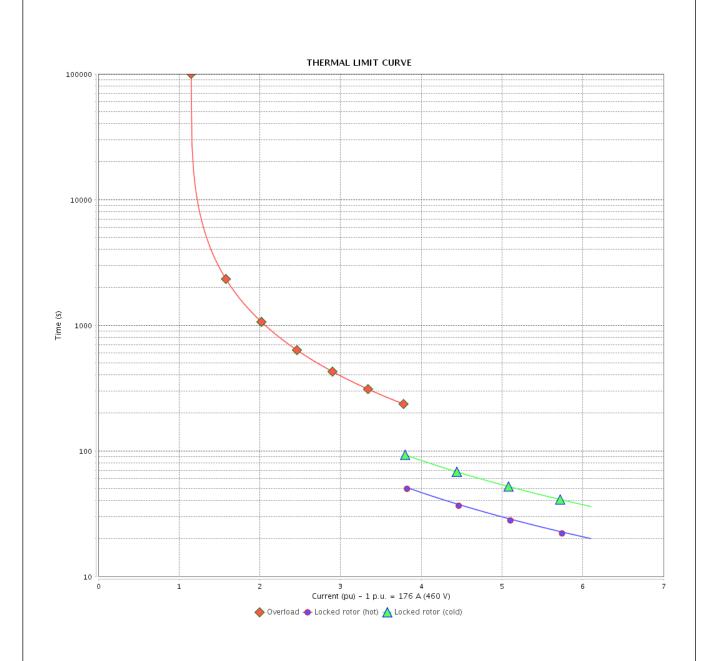


Customer	:					
Product line	: N	NEMA Premium Efficiency hase	/ Three-	Product code :	11584442	
				Catalog # :	15012ST3QIE	RB447T-W2
Performance		60 V 60 Hz 6P				
Rated current LRC	: 17 : 6.	76 A 1	Moment of Duty cycle	of inertia (J)	: 134 sq.ft.lb : Cont.(S1)	
Rated torque	: 66	65 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		29 % 50 %	Service fa Temperati		: 1.15 : 80 K	
Rated speed		185 rpm	Design		: B	
Heating constant					,	
Cooling constant		Changes Comme		Deut	Ob select	Data
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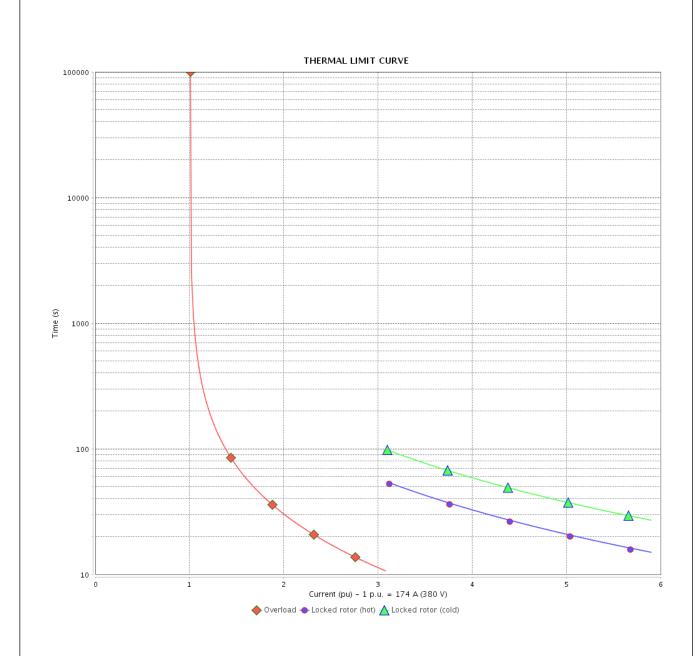


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11584442 15012ST3QIE	:RB447T-W2
Performance		: 380 V 50 Hz 6P IE3				
Rated current LRC		: 174 A : 5.9	Moment of Duty cycle	of inertia (J)	: 134 sq.ft.lb : Cont.(S1)	
Rated torque		: 666 ft.lb : 210 %	Insulation Service fa	class	: F : 1.00	
Locked rotor tord Breakdown torqu	ue	: 270 %	Temperat		: 105 K	
Rated speed		: 985 rpm	Design		: B	
Heating constant						
Cooling constant	l .	Changes Summary		Performed	Checked	Date
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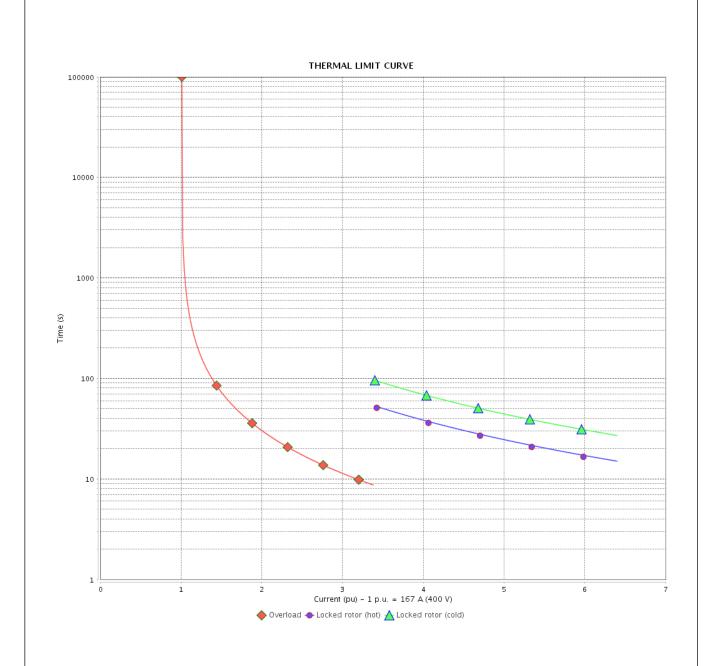


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Customer	:			
Product line	: NEMA Premium Efficiency Phase		11584442	
		Catalog # :	15012ST3QIE	RB447T-W2
Performance	: 400 V 50 Hz 6P IE3			
Rated current	: 167 A	Moment of inertia (J)	: 134 sq.ft.lb	
LRC Rated torque	: 6.4 : 666 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F	
Locked rotor torque	: 229 %	Service factor	: 1.00	
Breakdown torque Rated speed	: 290 % : 985 rpm	Temperature rise Design	: 105 K : B	
Heating constant				
Cooling constant				
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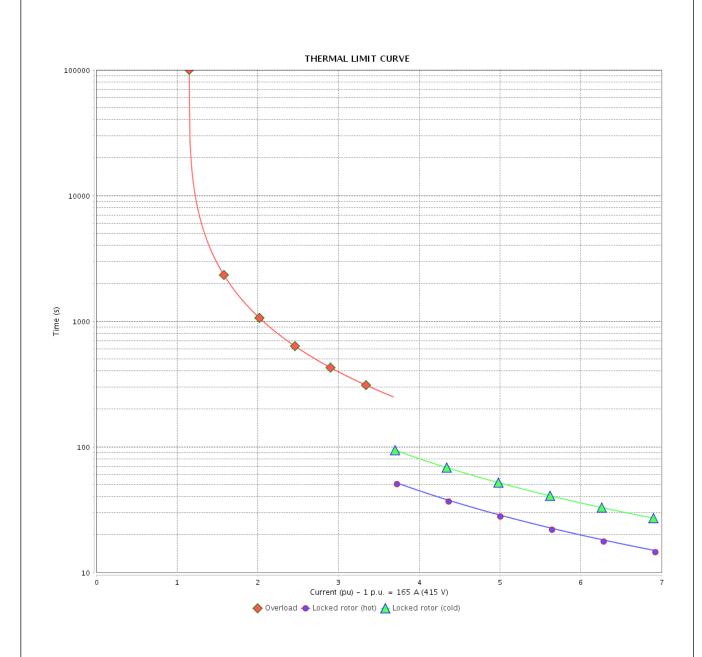


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Customer	:			
Product line	: NEMA Premium Efficiency Phase		11584442	
		Catalog #:	15012ST3QIE	RB447T-W2
Performance	: 415 V 50 Hz 6P IE3	1		
Rated current LRC Rated torque Locked rotor torque	: 165 A : 6.9 : 663 ft.lb : 250 %	Moment of inertia (J) Duty cycle Insulation class Service factor	: 134 sq.ft.lb : Cont.(S1) : F : 1.00	
Breakdown torque Rated speed	: 330 % : 990 rpm	Temperature rise Design	: 80 K : B	
Heating constant				
Cooling constant				
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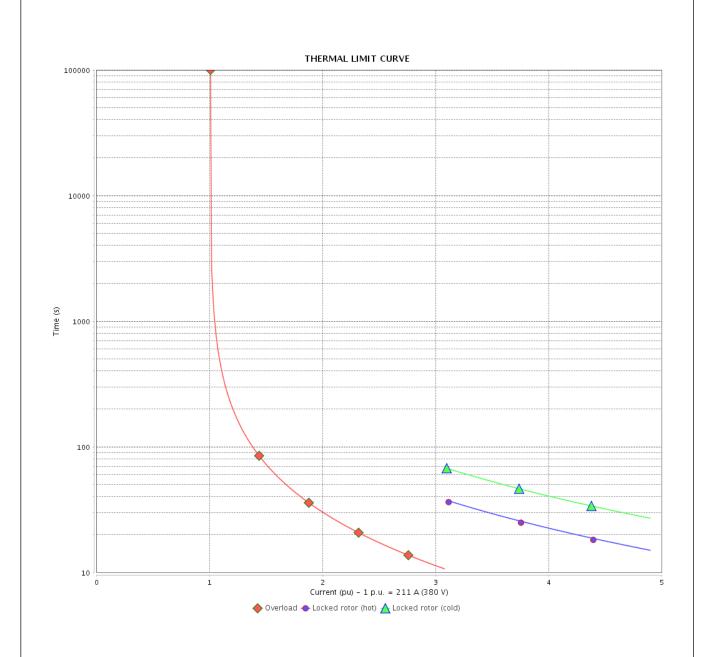


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11584442 15012ST3QIE	:RB447T-W2
					<u> </u>	
Performance		: 380 V 50 Hz 6P IE2				
Rated current LRC		: 211 A : 4.9	Duty cycle		: 134 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 800 ft.lb : 170 %	Insulation Service fa	class	: F : 1.00	
Breakdown torqu		: 220 %	Temperati		: 105 K	
Rated speed		: 985 rpm	Design		: B	
Heating constant						
Cooling constant	ı	Changes Summary		Performed	Checked	Date
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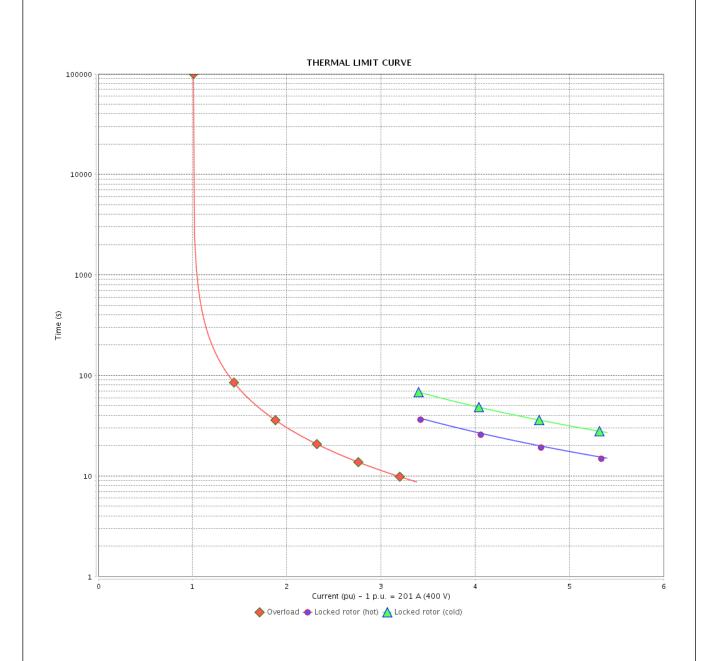


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11584442 15012ST3QIE	:RB447T-W2
Performance		: 400 V 50 Hz 6P IE2				
Rated current LRC	:	: 201 A : 5.4	Duty cycle		: 134 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 800 ft.lb : 190 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue :	: 240 %	Temperat		: 105 K	
Rated speed Heating constant		: 985 rpm	Design		: B	
Cooling constant						
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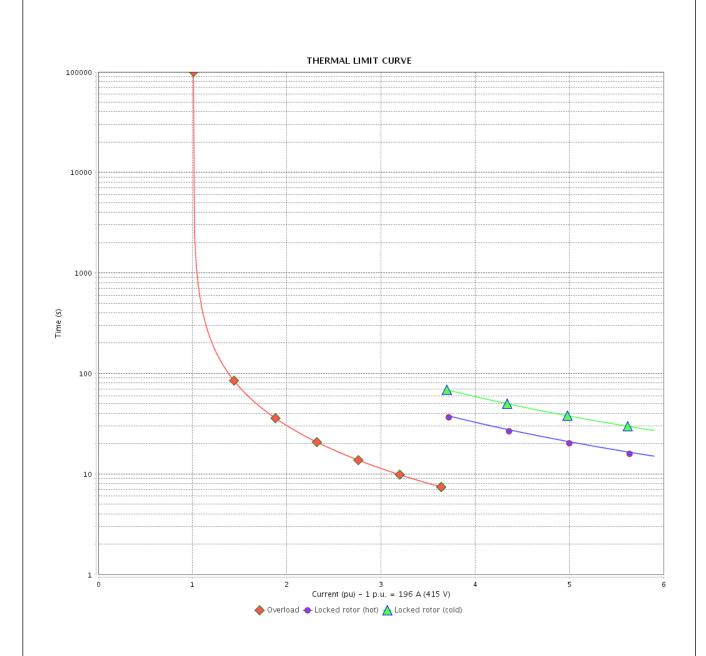


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11584442 15012ST3QIE	:RB447T-W2
- ·						
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	que	: 415 V 50 Hz 6P IE2 : 196 A : 5.9 : 796 ft.lb : 210 % : 270 % : 990 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 134 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant	t					
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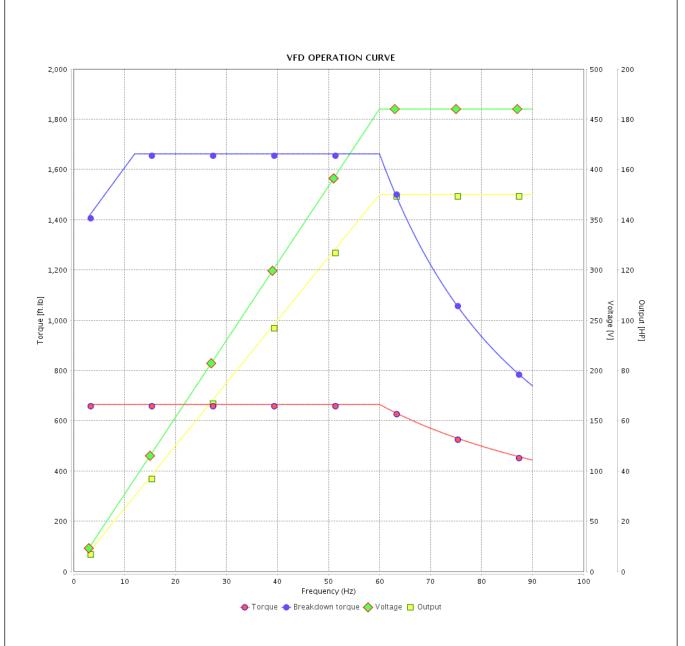


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Product line : NEMA Premium Efficiency Three-

Product code: 11584442

Catalog #: 15012ST3QIERB447T-W2



Performance : 460 V 60 Hz 6P : 176 A Rated current Moment of inertia (J) : 134 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.1 Insulation class : 665 ft.lb : F Rated torque Locked rotor torque : 229 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1185 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



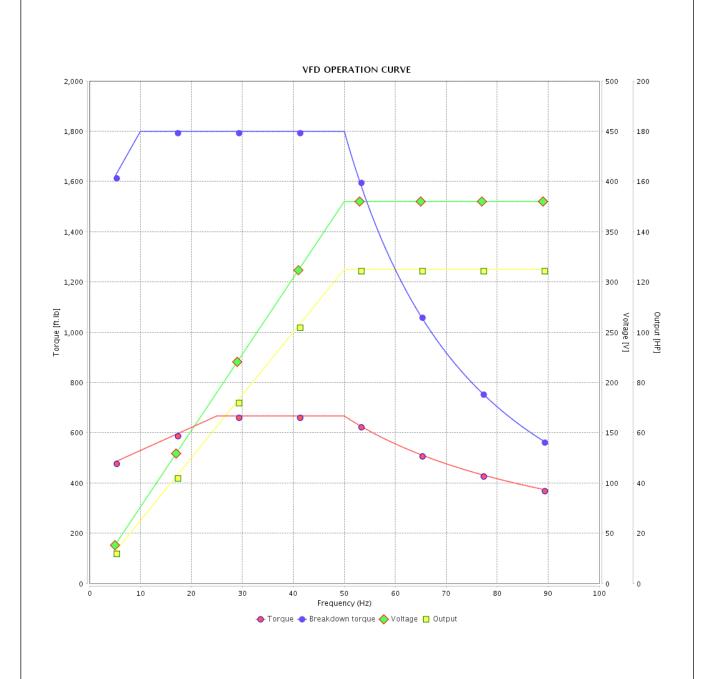
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 15012ST3QIERB447T-W2

11584442



Performance	:	380 V 50 Hz 6P IE3				
Rated current : 174		174 A	Moment o	f inertia (J)	: 134 sq.ft.lb	
LRC	:	5.9	Duty cycle)	: Cont.(S1)	
Rated torque	:	666 ft.lb	Insulation	class	:F	
Locked rotor torque	:	210 %	Service fa	ctor	: 1.00	
Breakdown torque	Breakdown torque : 270 % Temperature rise		ıre rise	: 105 K		
Rated speed	:	985 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



Customer :

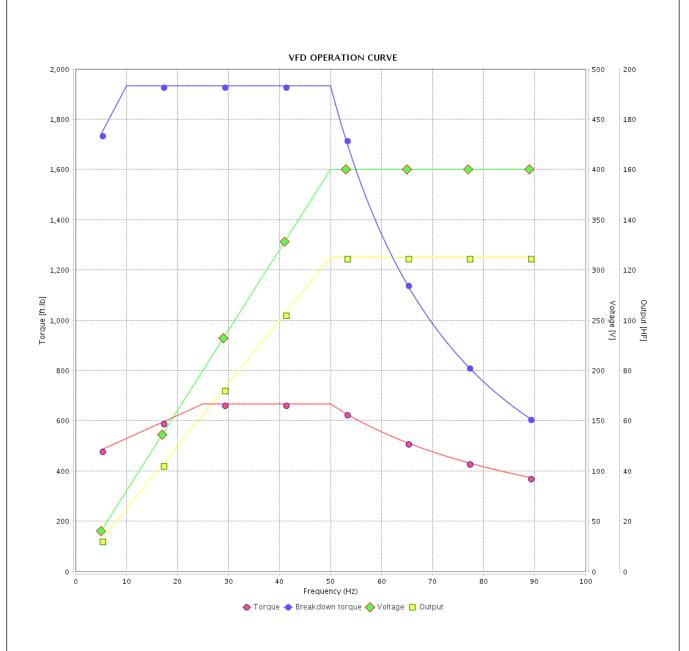
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11584442

Catalog #: 15012ST3QIERB447T-W2

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Performance	: 40	00 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 66 que : 22 ue : 29	67 A 4 66 ft.lb 29 % 90 % 85 rpm	Moment of Duty cycle Insulation Service fa Temperature Design	class ctor	: 134 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Rev.		Changes Summary	'	Performed	Checked	Date
Performed by						
Checked by					Page	Revision

13/04/2022

Three Phase Induction Motor - Squirrel Cage



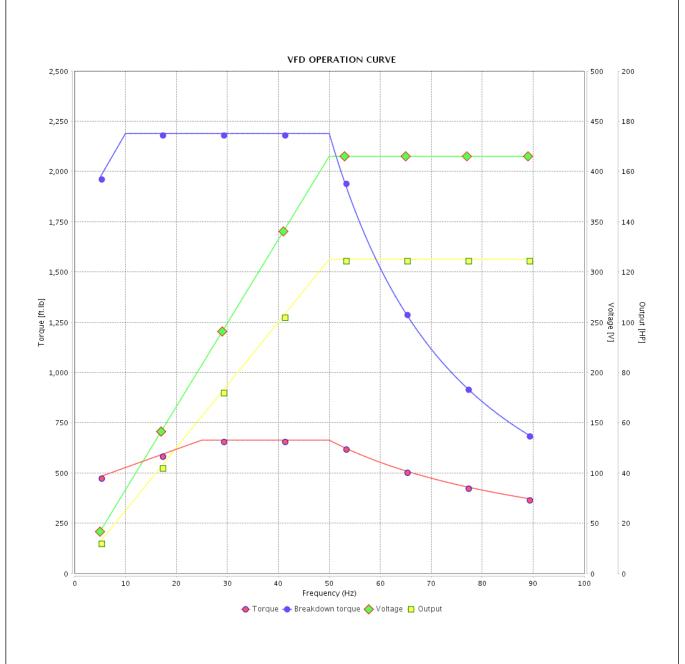
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 15012ST3QIERB447T-W2

11584442



Performance	: 4	15 V 50 Hz 6P IE3				
Rated current	: 1	65 A	5 A Moment of inertia (J)		: 134 sq.ft.lb	
LRC	: 6	5.9	Duty cycle	!	: Cont.(S1)	
Rated torque	: 6	663 ft.lb	Insulation	class	:F	
Locked rotor torqu	e : 2	250 %	Service fa	ctor	: 1.00	
Breakdown torque	: 3	330 %	Temperature rise		: 80 K	
Rated speed	: 9	990 rpm	Design		: B	
Rev.		Changes Summary	<u>'</u>	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
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Three Phase Induction Motor - Squirrel Cage



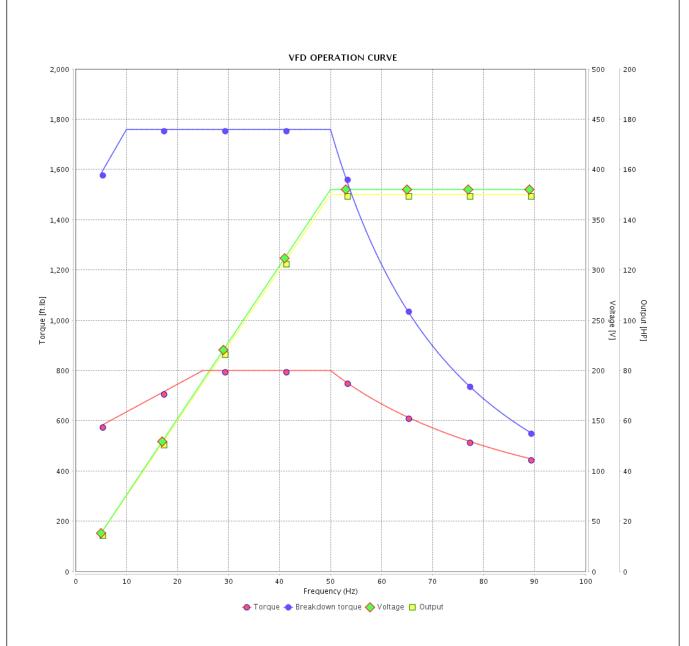
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11584442

Catalog #: 15012ST3QIERB447T-W2



Performance	: 380 V 50 Hz 6P IE:	2			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu	: 211 A : 4.9 : 800 ft.lb : 170 % : 220 %	Duty cyc Insulatio Service Tempera	n class	: 134 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K	
Rated speed	: 985 rpm	Design		: B	
Rev.	Changes Summa	ary	Performed	Checked	Date

Rev.		Changes Summary	Performed	Спескеа	Date
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Three Phase Induction Motor - Squirrel Cage

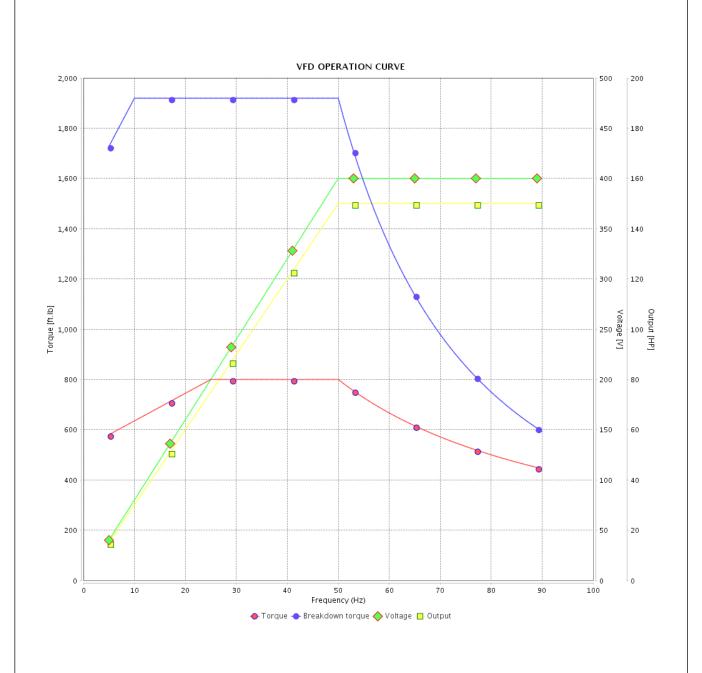


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11584442

Phase

Catalog #: 15012ST3QIERB447T-W2



Performance	:	400 V 50 Hz 6P IE2				
Rated current	ated current : 201 A		Moment o	f inertia (J)	: 134 sq.ft.lb	
LRC	:	5.4	Duty cycle	;	: Cont.(S1)	
Rated torque	:	800 ft.lb	Insulation	class	:F	
Locked rotor torque	e :	190 %	Service fa	ctor	: 1.00	
Breakdown torque : 240 %		Temperati	Temperature rise : 105 K			
Rated speed	:	985 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



Customer :

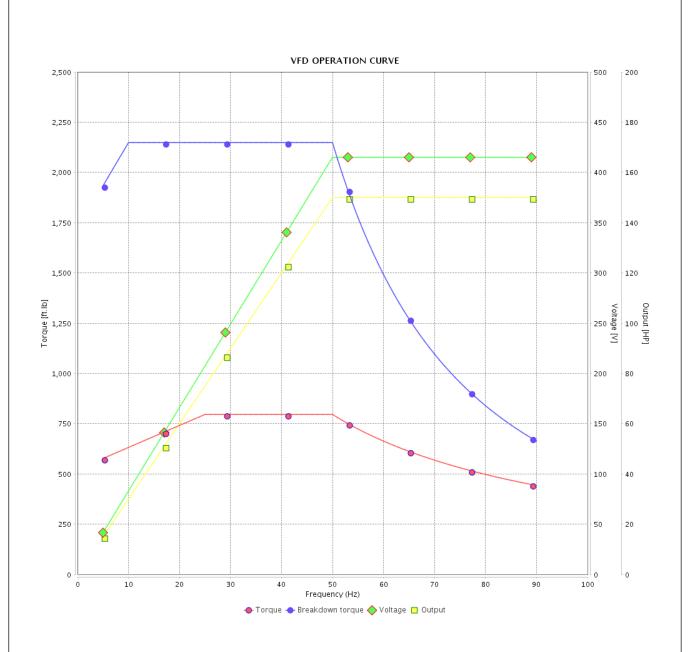
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11584442

Catalog #: 15012ST3QIERB447T-W2

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Performance	: 41	: 415 V 50 Hz 6P IE2					
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5. : 79 que : 2° ue : 27	96 A 9 96 ft.lb 10 % 70 % 90 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 134 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Rev.	Changes Summary			Performed	Checked	Date	
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Checked by					Page	Revision	

13/04/2022

