DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11431381

Catalog #: 15012ST3QIE447T-W22

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 Starting method : Direct On Line

Ambient temperature : 1000 m.a.s.l. Approx. weight³ : 2315 lb Altitude

Protection degree : IP55 Moment of inertia (J) : 134 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	5.9x(Code F)	6.4x(Code	6.9x(Code H)	4.9x(Code E)	5.4x(Code F)	5.9x(Code F)
		G)		G)				
No load current [A	.]	65.0	64.2	69.2	73.1	64.2	69.2	73.1
Rated speed [RPI	Л]	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 torqu	ie [%]	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%							
Efficiency (%)	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%							
Power Factor	50%	0.67	0.67	0.64	0.60	0.73	0.70	0.67
FUWEI 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 6319 C3 6316 C3 Max. traction : 4569 lb Sealing Inpro/Seal Inpro/Seal : 6884 lb Max. compression Lubrication interval 13000 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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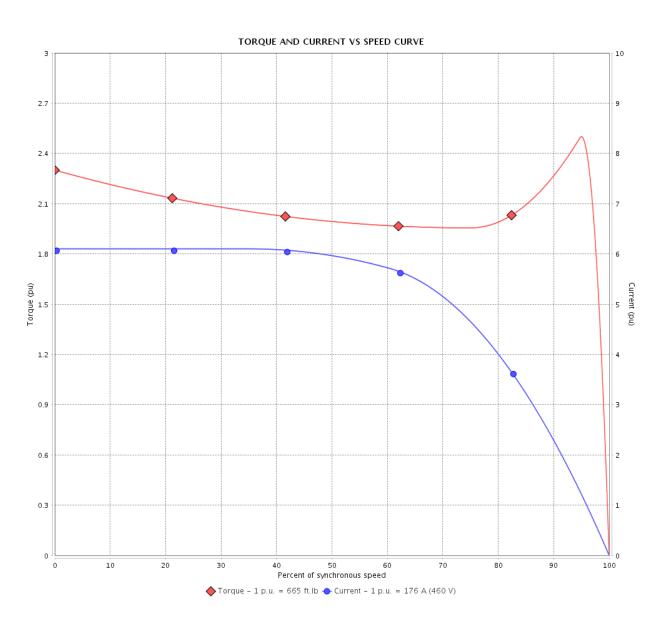
Customer :

Product line : NEMA Premium Efficiency Three- Pr

Phase

Product code: 11431381

Catalog #: 15012ST3QIE447T-W22



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: 11431381 Catalog #: 15012ST3QIE447T-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. = 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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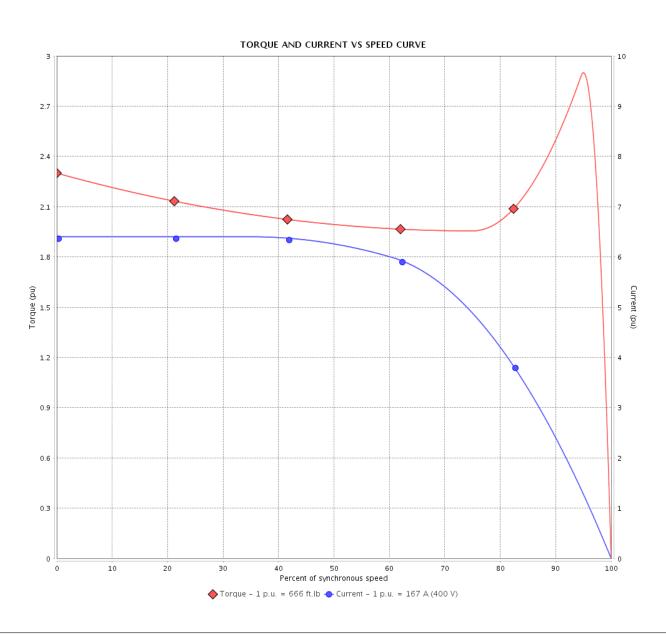
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11431381

Catalog #: 15012ST3QIE447T-W22



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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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11431381 Catalog #: 15012ST3QIE447T-W22 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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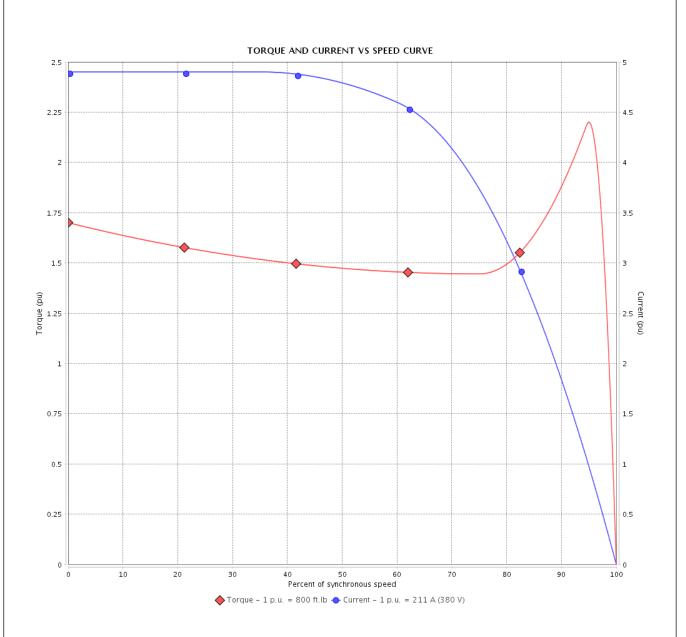
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 15012ST3QIE447T-W22

11431381



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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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11431381 Catalog #: 15012ST3QIE447T-W22 TORQUE AND CURRENT VS SPEED CURVE

0.25	10	20	30	40	50	60	70	80	90	100
0.25					:					
0.25									\	
0.5										
0.75										
1										
1.25										
		•								
1.5										
				•		*				
1.75		•						•		
									/	
2										

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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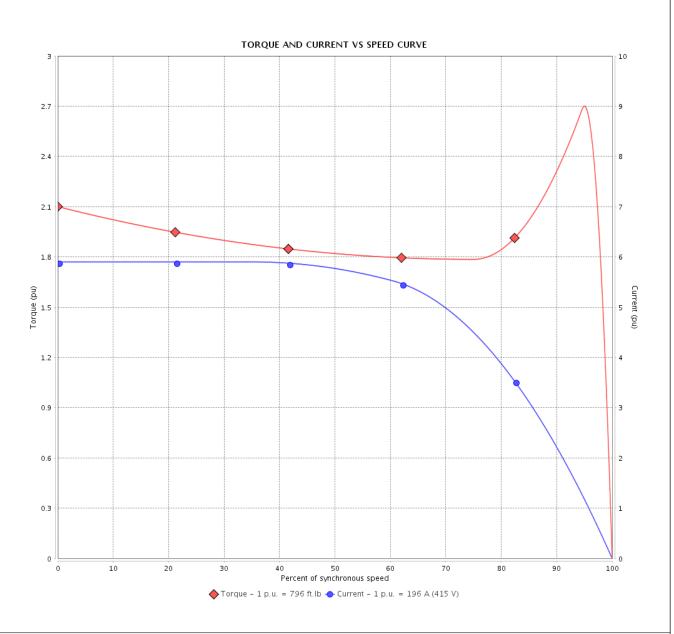


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Product line : NEMA Premium Efficiency Three- Product code : 11431381

Phase

Catalog # : 15012ST3QIE447T-W22



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)
Rated torque	: 796 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 270 %	Temperature rise	: 105 K
Rated speed	: 990 rpm	Design	: B
Looked roter time	: 27a (aald) 15a (bat)	-	

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

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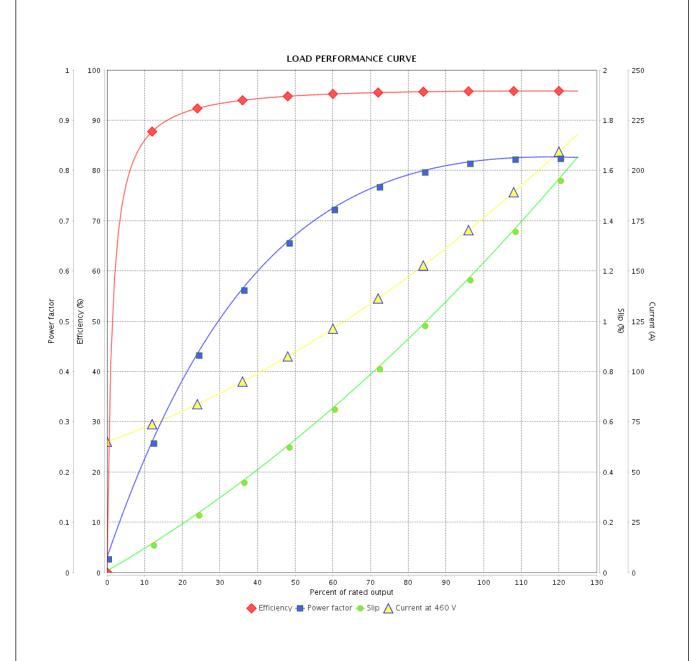
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431381

Phase

Catalog #: 15012ST3QIE447T-W22

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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	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		Duty cycle Insulation class Service factor Temperature rise		
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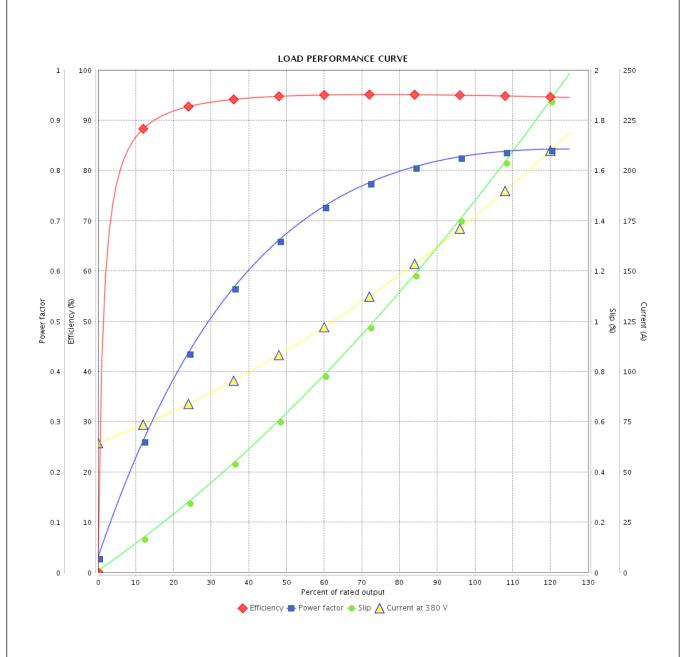
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11431381

Catalog #: 15012ST3QIE447T-W22



Performance	: 38	80 V 50 Hz 6P IE3				
Rated current	: 1	: 174 A Moment of		of inertia (J)	: 134 sq.ft.lb	
LRC	: 5.	.9	Duty cycle	е	: Cont.(S1)	
Rated torque	: 60	66 ft.lb	Insulation class		: F	
Locked rotor tord	que : 2	10 %	Service factor		: 1.00	
Breakdown torque : 270 % Temperature rise		ure rise	: 105 K			
Rated speed	: 98	85 rpm	Design		: B	
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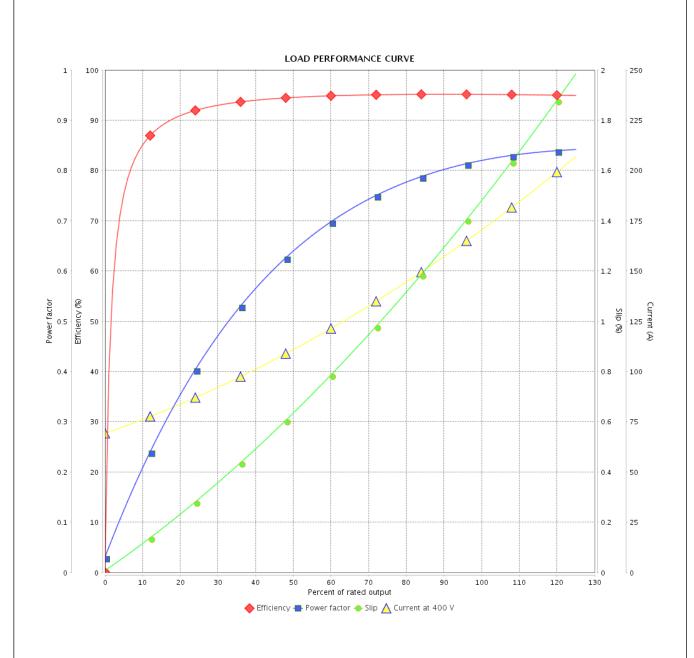
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 11431381

Catalog #: 15012ST3QIE447T-W22



Performance	: 4	00 V 50 Hz 6P IE3				
Rated current : 167 A LRC : 6.4		*	Moment of inertia (J)		: 134 sq.ft.lb	
=· · · ·		.4 66 ft.lb	Duty cycle		: Cont.(S1) : F	
Rated torque Locked rotor torque		29 %	Insulation class Service factor		. r : 1.00	
Breakdown torque	: 2	90 % Temperature rise		ıre rise	: 105 K	
Rated speed	: 9	85 rpm	Design		: B	
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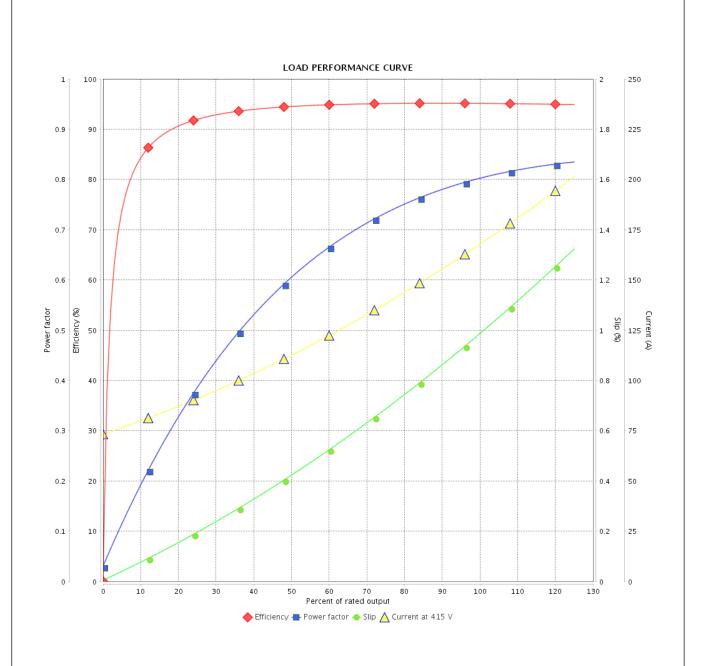
Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11431381

Phase

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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 c Service fact Temperatur Design	lass	: 134 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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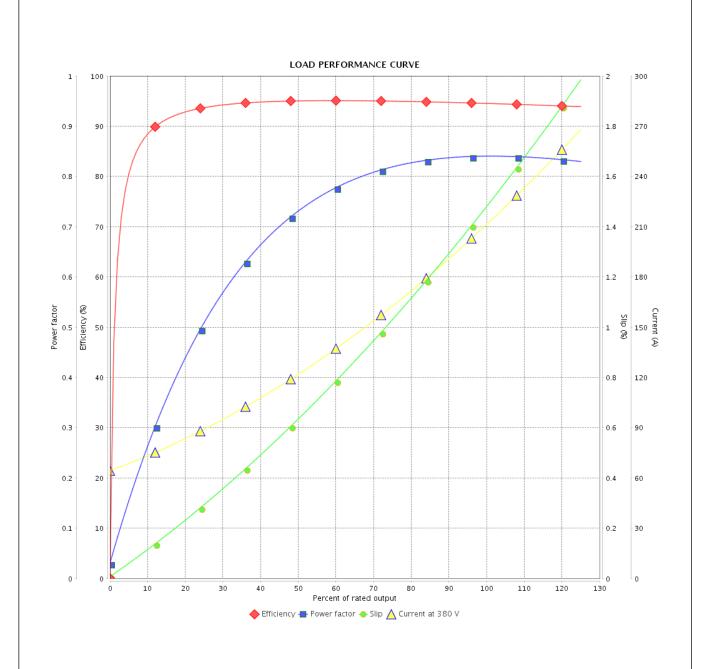


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431381

Phase

Catalog #: 15012ST3QIE447T-W22



Performance	: 3	80 V 50 Hz 6P IE2				
Rated current	ated current : 211 A		Moment o	f inertia (J)	: 134 sq.ft.lb	
LRC	: 4	.9	Duty cycle		: Cont.(S1)	
Rated torque	: 8	00 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 1	70 %	Service factor		: 1.00	
Breakdown torque	: 2:	20 %	Temperati	Temperature rise		
Rated speed	: 9	85 rpm	Design		: B	
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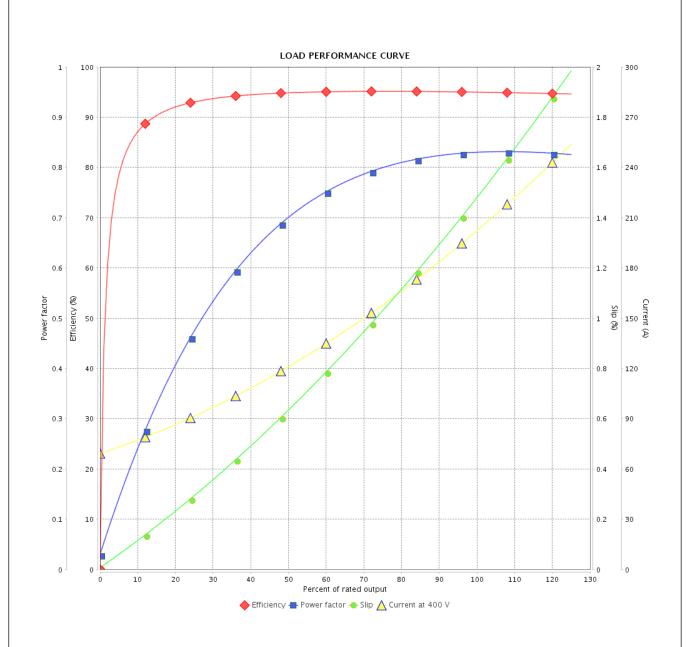
Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

Product code: 11431381

Catalog #: 15012ST3QIE447T-W22

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Performance	: •	400 V 50 Hz 6P IE:	2			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5.4 Duty cycle prque : 800 ft.lb Insulation class rotor torque : 190 % Service factor pwn torque : 240 % Temperature rise		class ctor	: 134 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B		
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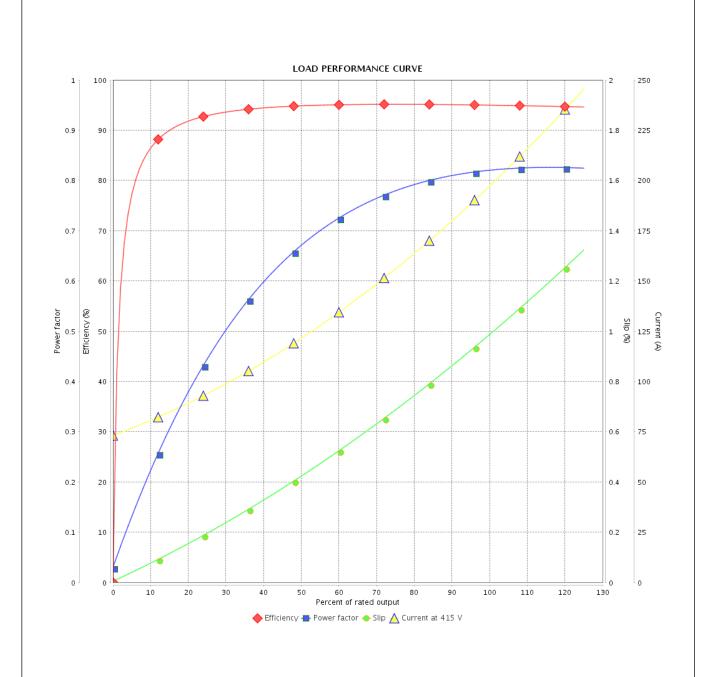
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 11431381

Catalog #: 15012ST3QIE447T-W22



Performance	: 4	15 V 50 Hz 6P IE2				
Rated current : 196 A		96 A	Moment o	Moment of inertia (J)		
LRC	: 5	.9	Duty cycle)	: Cont.(S1)	
Rated torque	• •		class	: F		
Locked rotor torque : 2		10 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	: 270 % Tem		ıre rise	: 105 K	
Rated speed	: 9	90 rpm	Design		: B	
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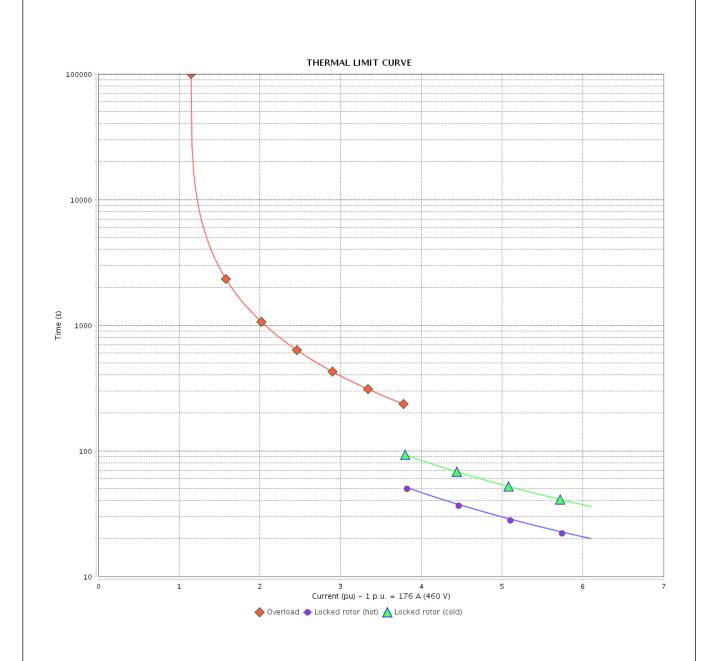


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	11431381	7447T M/00
				Catalog # :	15012ST3QIE	1447 I-VVZZ
Performance		: 460 V 60 Hz 6P				
Rated current		: 176 A : 6.1	Moment o	of inertia (J)	: 134 sq.ft.lb	
LRC Rated torque		: 665 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor tord		: 229 % : 250 %	Service fa		: 1.15 : 80 K	
Breakdown torqu Rated speed		: 1185 rpm	Temperat Design	uic lisc	: 80 K	
Heating constan	t					
Cooling constant	t					
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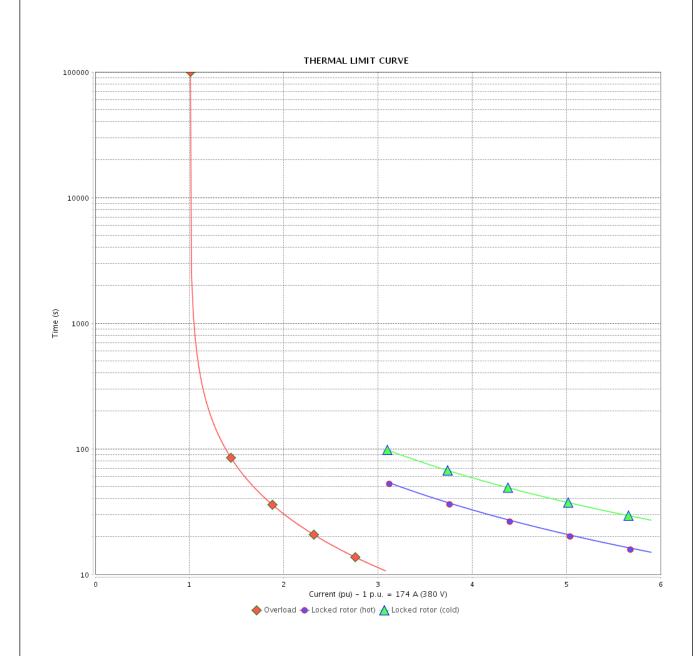


Customer	:				
Product line	: NEMA Premium Efficie Phase		Product code : Catalog # :	11431381 15012ST3QIE	
Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 174 A : 5.9 : 666 ft.lb : 210 % : 270 % : 985 rpm	Moment of Duty cycle Insulation Service fa Temperation	class actor	: 134 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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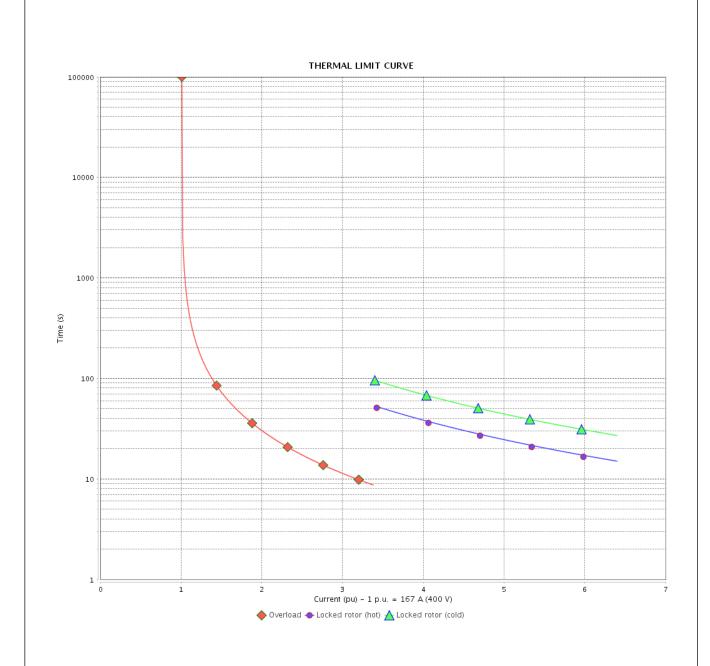


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	11431381	
				Catalog # :	15012ST3QIE	447T-W22
Performance Rated current		: 400 V 50 Hz 6P IE3 : 167 A	Moment	of inertia (J)	: 134 sq.ft.lb	
LRC		: 6.4	Duty cycle	е	: Cont.(S1)	
Rated torque Locked rotor tord		: 666 ft.lb : 229 %	Insulation Service fa		: F : 1.00	
Breakdown torqu		: 290 %	Temperat		: 105 K	
Rated speed		: 985 rpm	Design		: B	
Heating constant						
Cooling constant	t					
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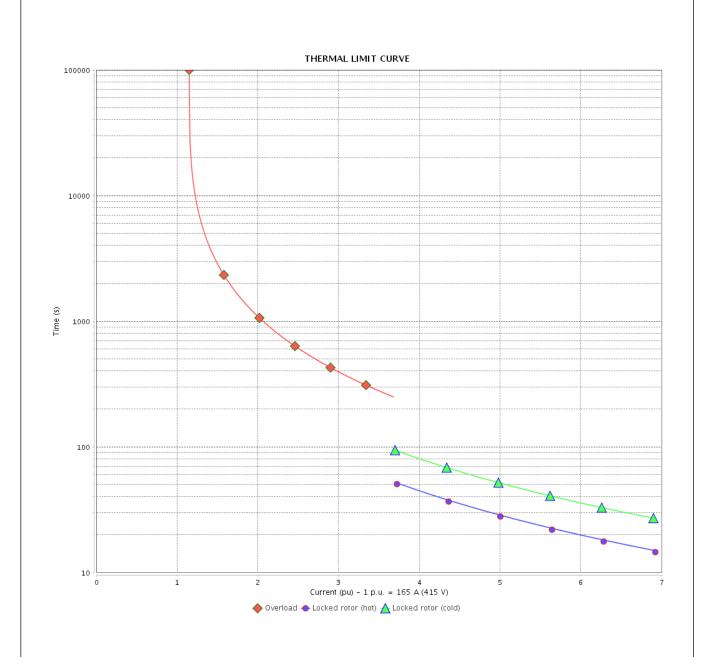


Customer	:				
Caotomor	•				
Product line	: NEMA Premium Efficiency Phase	Three-	Product code :	11431381	
	i nasc		Catalog # :	15012ST3QIE	E447T-W22
Performance	: 415 V 50 Hz 6P IE3				
Rated current LRC	: 165 A : 6.9	Moment o	f inertia (J)	: 134 sq.ft.lb : Cont.(S1)	
Rated torque	: 663 ft.lb	Insulation	class	: F	
Locked rotor torque	: 250 %	Service fa		: 1.00	
Breakdown torque Rated speed	: 330 % : 990 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constant					
Cooling constant			1	1	
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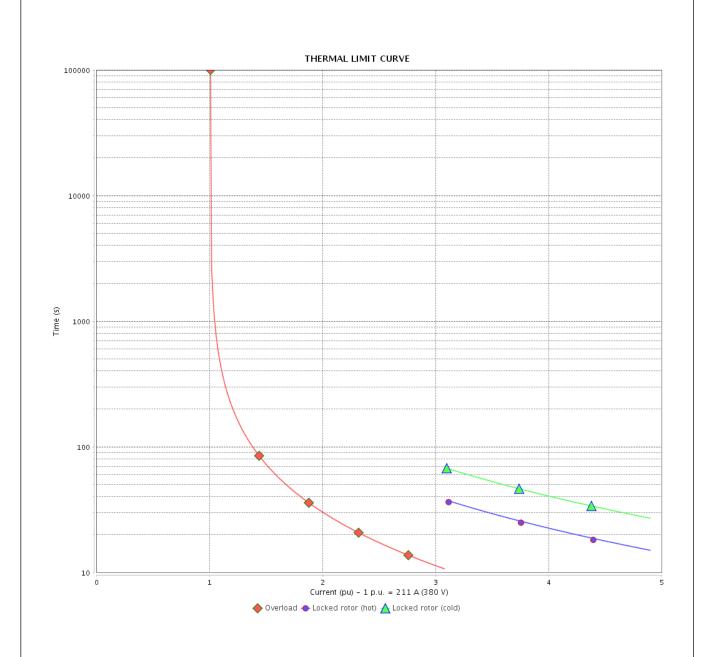


Customer		:				
Product line		: NEMA Premium Efficiency	Three-	Product code :	11431381	
		Phase		Catalog # :	15012ST3QIE	447T-W22
Performance		: 380 V 50 Hz 6P IE2				
Rated current		: 211 A	Moment o	of inertia (J)	: 134 sq.ft.lb	
LRC Rated torque		: 4.9 : 800 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que	: 170 %	Service fa	actor	: 1.00	
Breakdown torqu Rated speed		: 220 % : 985 rpm	Temperat Design	ure rise	: 105 K : B	
		. 000 ipili	Design			
Heating constant						
Cooling constant	L	Changes Summary		Performed	Checked	Date
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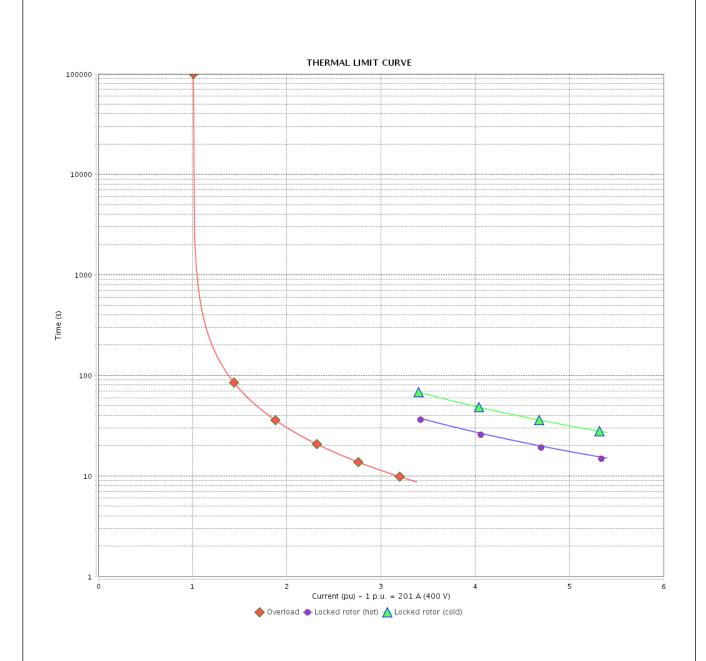


Customer		:				
Product line		: NEMA Premium Efficiency ¹ Phase		Product code :	11431381 15012ST3QIE	
Performance		400 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : que :	201 A 5.4 800 ft.lb 190 % 240 % 985 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 134 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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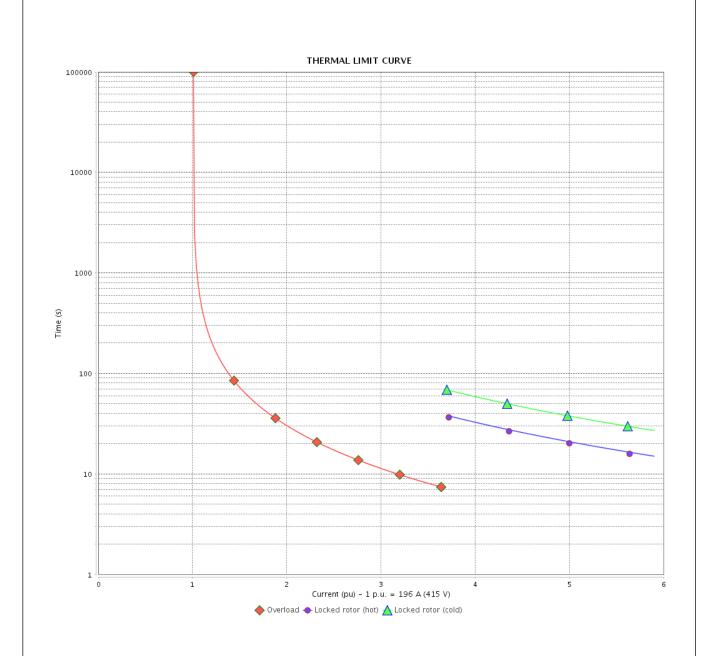


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code :	11431381 15012ST3QIE	E447T-W22
Performance Rated current LRC Rated torque Locked rotor torq Breakdown torque Rated speed	: 19 : 5. : 79 ue : 27 e : 27 : 99	15 V 50 Hz 6P IE2 96 A 96 ft.lb 10 % 70 % 90 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor	: 134 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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Phase

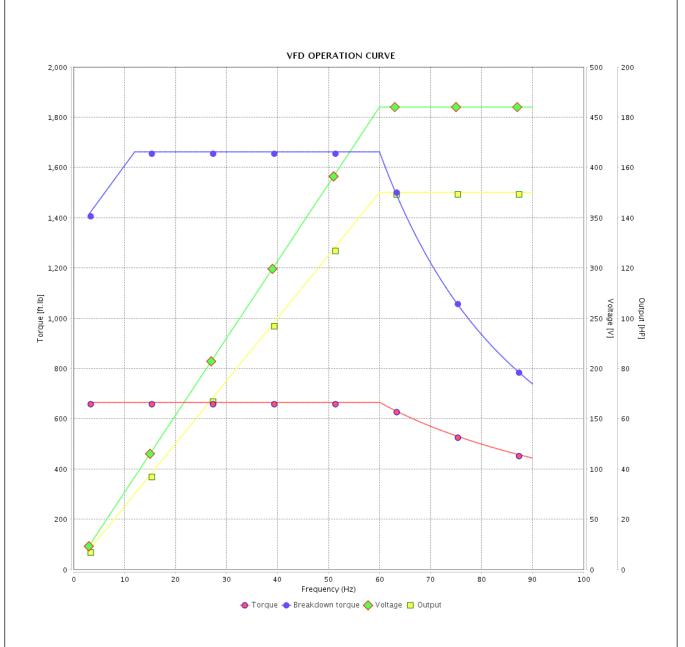
Product code: 11431381

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

Three Phase Induction Motor - Squirrel Cage



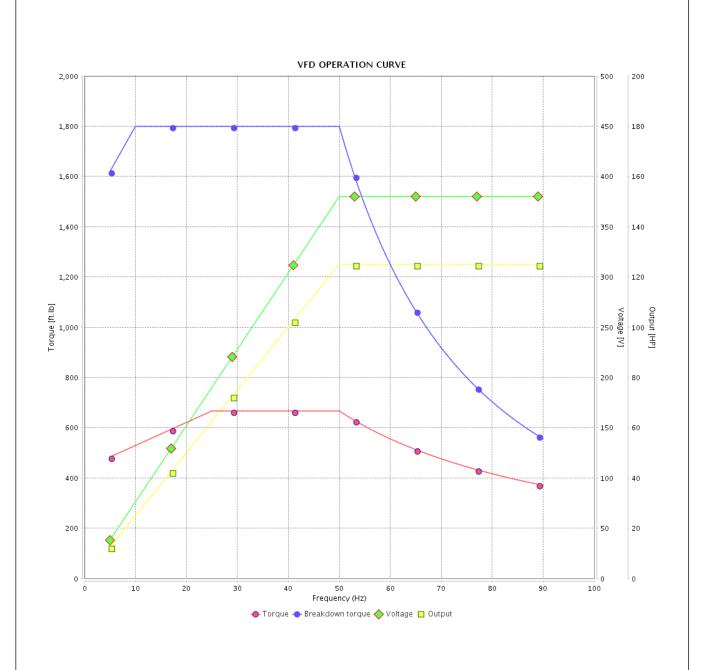
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431381

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Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 174 A : 5.9 : 666 ft.lb : 210 % : 270 % : 985 rpm	Moment of Duty cycle Insulation of Service fac Temperatur Design	lass tor	: 134 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



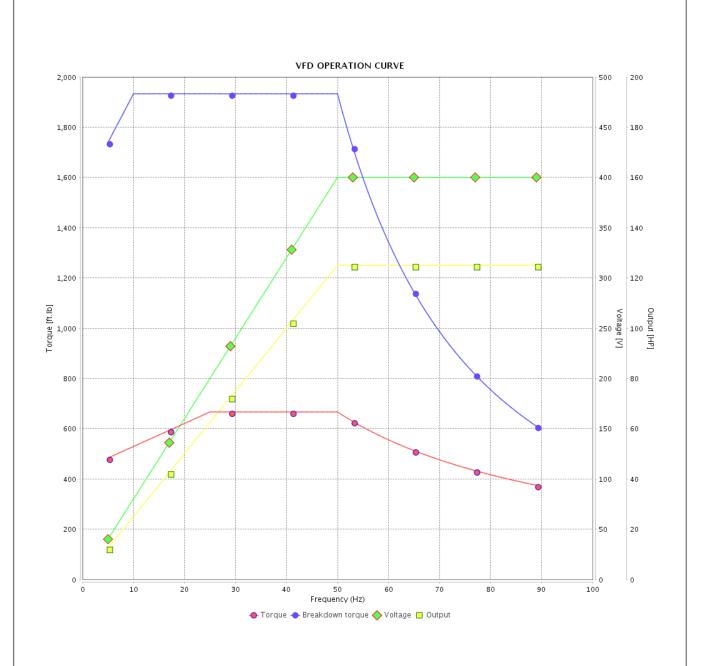
Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11431381

Phase

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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	
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Three Phase Induction Motor - Squirrel Cage



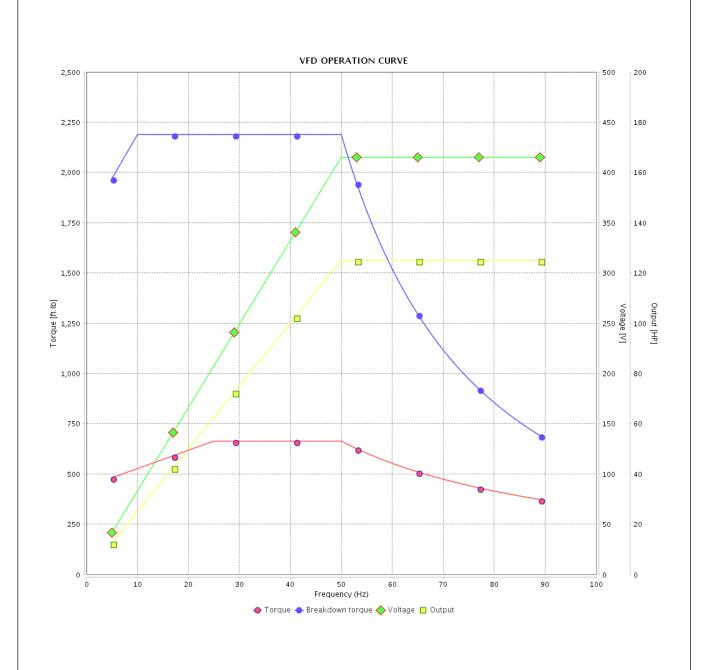
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431381

Phase

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Performance	: 415 V 50 Hz 6P IE3				
Rated current	: 165 A	Moment o	f inertia (J)	: 134 sq.ft.lb	
LRC	: 6.9	Duty cycle)	: Cont.(S1)	
Rated torque	: 663 ft.lb	Insulation	class	: F	
Locked rotor torque	: 250 %	Service factor		: 1.00	
Breakdown torque	: 330 %	Temperati	ıre rise	: 80 K	
Rated speed	: 990 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



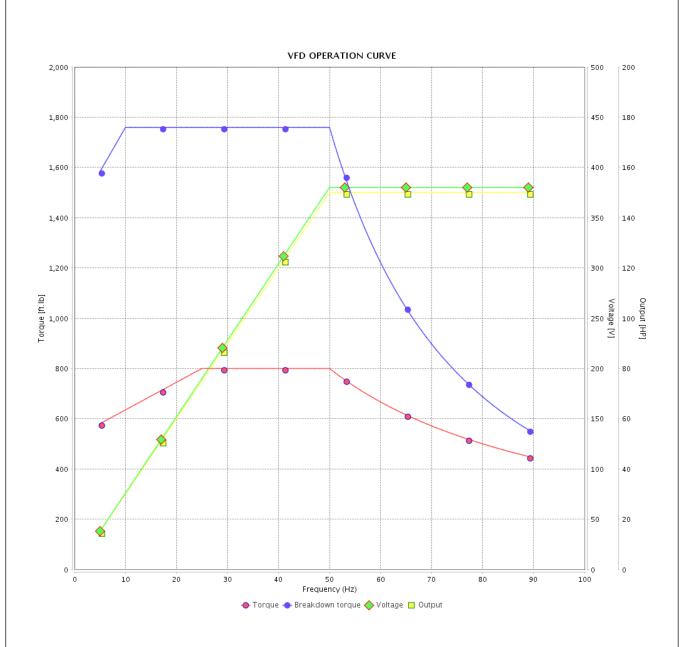
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11431381

Catalog #: 15012ST3QIE447T-W22



Performance		: 380 V 50 Hz 6F	PIE2					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 211 A : 4.9 : 800 ft.lb : 170 % : 220 % : 985 rpm		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		
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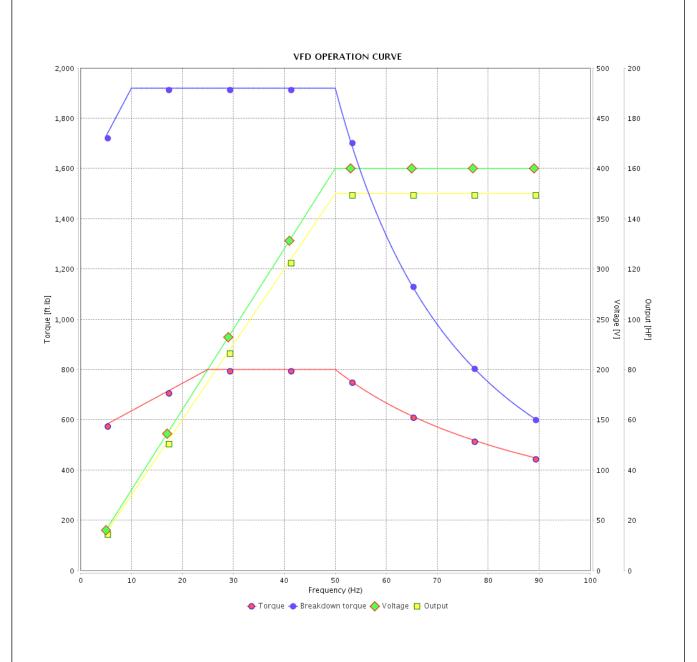


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431381

Phase

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Performance	: 4	00 V 50 Hz 6P IE2				
Rated current	: 2	01 A Moment of inertia (J)		: 134 sq.ft.lb		
LRC	: 5	5.4	Duty cycle		: Cont.(S1)	
Rated torque	: 8	00 ft.lb	Insulation class		: F	
Locked rotor torqu	e :1	90 %	Service fa	Service factor		
Breakdown torque	: 2	40 %	Temperatu	Temperature rise		
Rated speed	: 9	185 rpm	Design		: B	
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Customer :

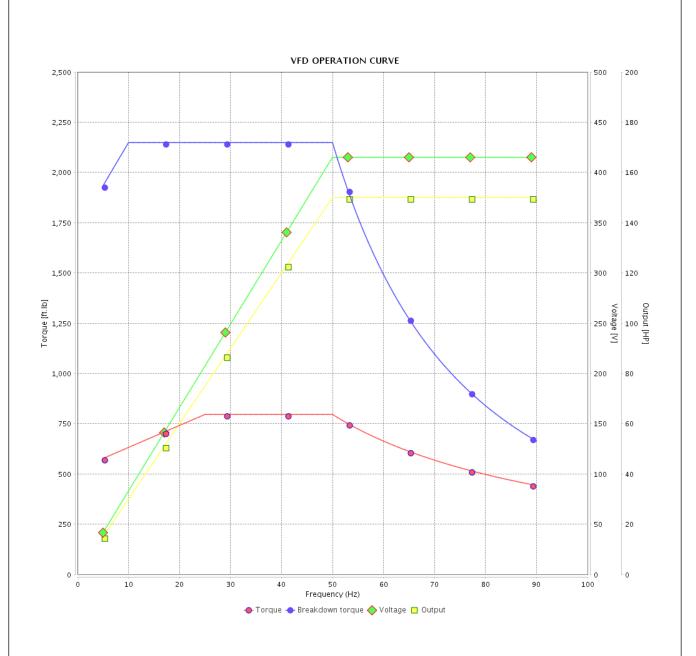
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11431381

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Performance	: 415 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 196 A : 5.9 : 796 ft.lb : 210 % : 270 % : 990 rpm	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	: Cont.(S1) : F : 1.00 : 105 K	
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