### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11431383

Catalog #: 20036ST3QIE447TS-W22

: 44.7 sq.ft.lb

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

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) : -20°C to +40°C Starting method : Direct On Line

Ambient temperature : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 2053 lb Altitude

Protection degree : IP55

Moment of inertia (J)

Design		: B						
Output [HP]		200	150	150	150	200	200	200
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]		219	193	183	178	268	253	244
L. R. Amperes [A]		1424	1312	1391	1477	1447	1543	1635
LRC [A]		6.5x(Code	6.8x(Code	7.6x(Code H)	8.3x(Code H)	5.4x(Code E)	6.1x(Code F)	6.7x(Code
		G)	G)					G)
No load current [A	]	45.0	44.0	47.0	49.3	42.0	45.0	47.0
Rated speed [RPN	<b>/</b> 1]	3570	2975	2980	2980	2960	2965	2970
Slip [%]	Slip [%]		0.83	0.67	0.67	1.33	1.17	1.00
Rated torque [ft.lb]		294	265	264	264	355	354	354
Locked rotor torqu	e [%]	210	210	220	229	160	180	200
Breakdown torque	[%]	229	260	290	320	190	220	229
Service factor		1.15	1.15	1.15	1.15	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K	105 K	105 K	105 K
Locked rotor time		25s (cold)	50s (cold)	46s (cold)	43s (cold)	18s (cold)	18s (cold)	18s (cold)
		14s (hot)	28s (hot)	26s (hot)	24s (hot)	10s (hot)	10s (hot)	10s (hot)
Noise level <sup>2</sup>		81.0 dB(A)						
	25%							
Efficiency (%)	50%	95.0	95.0	95.0	95.0	95.0	95.0	95.0
Efficiency (70)	75%	95.4	95.2	95.3	95.3	95.0	95.0	95.4
100%		95.4	95.2	95.3	95.3	94.5	95.0	95.0
	25%							
Power Factor	50%	0.86	0.85	0.83	0.82	0.88	0.87	0.86
FUWEI FACIOI	75%	0.89	0.90	0.89	0.88	0.90	0.89	0.89

0.91

0.90

Drive end Non drive end Foundation loads

0.90

6314 C3 Bearing type 6314 C3 Max. traction : 1142 lb Sealing Inpro/Seal Inpro/Seal : 3194 lb Max. compression

0.91

Lubrication interval 4000 h 4000 h 27 g Lubricant amount 27 g Lubricant type Mobil Polyrex EM

100%

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.

0.90

0.90

0.90

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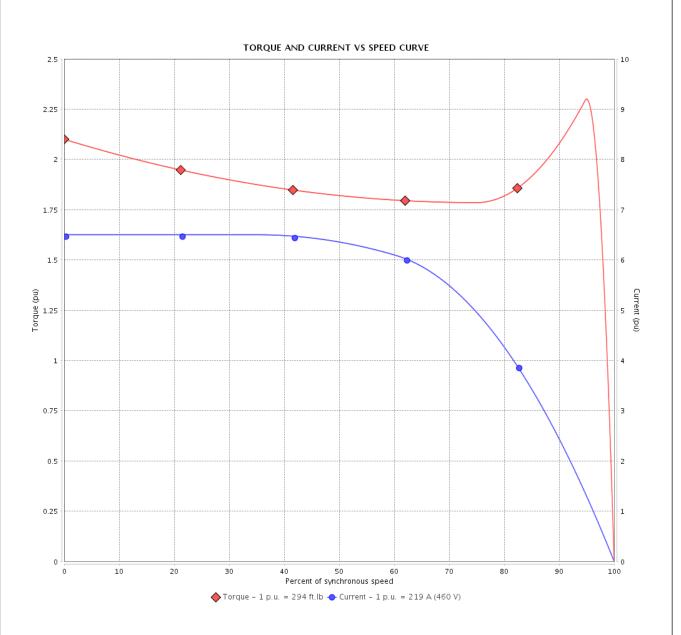


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 20036ST3QIE447TS-W22

11431383



Performance : 460 V 60 Hz 2P Rated current : 219 A Moment of inertia (J) : 44.7 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 294 ft.lb : F Service factor Locked rotor torque : 210 % : 1.15 : 229 % Breakdown torque Temperature rise : 80 K Rated speed : 3570 rpm Design : B

Locked rotor time : 25s (cold) 14s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11431383 Catalog #: 20036ST3QIE447TS-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3 40 50 60 Percent of synchronous speed ◆ Torque - 1 p.u. = 265 ft.lb ◆ Current - 1 p.u. = 193 A (380 V) : 380 V 50 Hz 2P IE3 Performance Moment of inertia (J) Rated current : 193 A : 44.7 sq.ft.lb LRC : 6.8 Duty cycle : Cont.(S1)

Rated forque : 265 ft.lb Insulation c Locked rotor torque : 210 % Service fact Breakdown torque : 260 % Temperatur Rated speed : 2975 rpm Design		or	: F : 1.15 : 80 K : B			
Locked rotor time	e : 50	Os (cold) 28s (ho	)			
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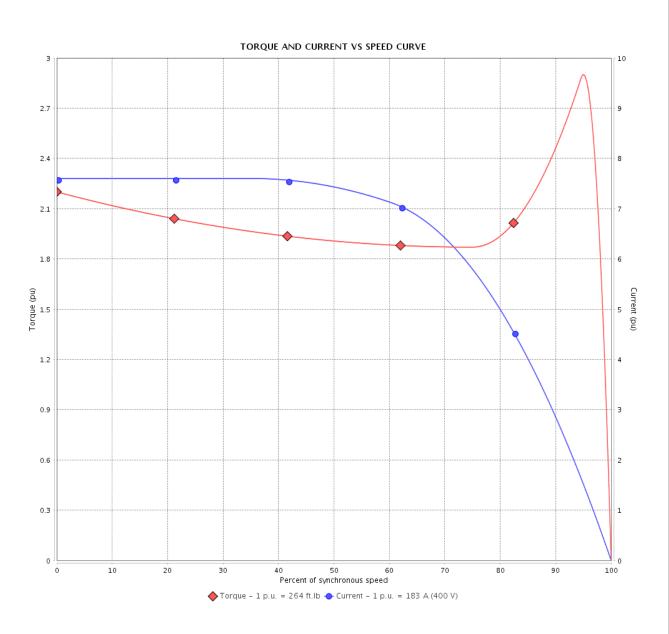
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 20036ST3QIE447TS-W22

11431383



Performance	: 400 V 50 Hz 2P IE3		
Rated current	: 183 A	Moment of inertia (J)	: 44.7 sq.ft.lb
LRC	: 7.6	Duty cycle	: Cont.(S1)
Rated torque	: 264 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 2980 rpm	Design	: B
Locked rotor time	· 46s (cold) 26s (hot)		

Locked rotor time : 46s (cold) 26s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11431383 Catalog #: 20036ST3QIE447TS-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Current Torque (pu) 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 264 ft.lb ◆ Current - 1 p.u. = 178 A (415 V) Performance : 415 V 50 Hz 2P IE3 Rated current : 178 A Moment of inertia (J) : 44.7 sq.ft.lb **LRC** : 8.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 264 ft.lb : F : 229 % Locked rotor torque Service factor : 1.15 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 2980 rpm Design : B Locked rotor time : 43s (cold) 24s (hot) Rev. Performed Checked Date **Changes Summary** Performed by

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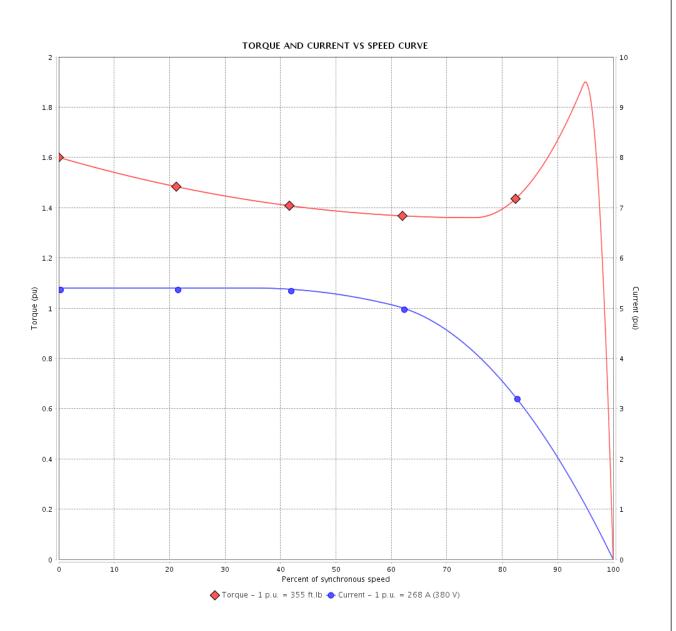


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11431383

Phase

Catalog #: 20036ST3QIE447TS-W22



Performance : 380 V 50 Hz 2P IE1 Rated current : 268 A Moment of inertia (J) : 44.7 sq.ft.lb **LRC** : 5.4 Duty cycle : Cont.(S1) Insulation class Rated torque : 355 ft.lb : F Locked rotor torque : 160 % Service factor : 1.00 Breakdown torque : 190 % Temperature rise : 105 K Rated speed : 2960 rpm Design : B

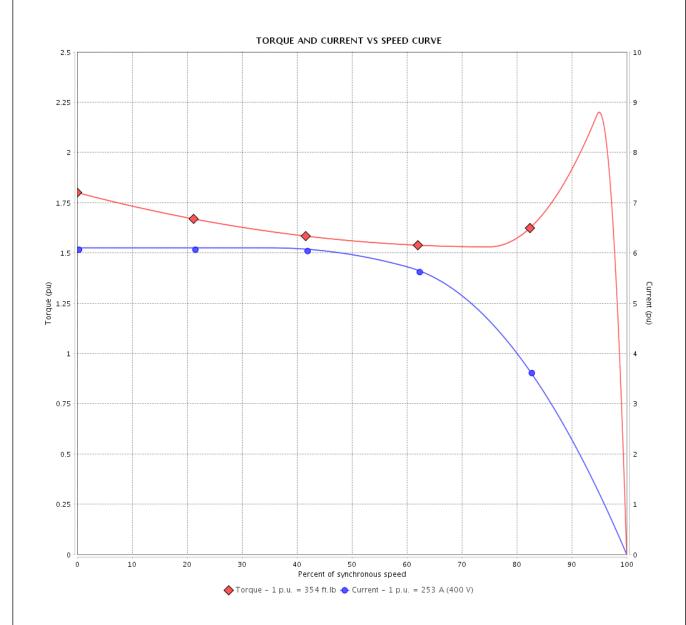
Locked rotor time : 18s (cold) 10s (hot)

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#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11431383 Catalog #: 20036ST3QIE447TS-W22



Performance	: 400 V 50 Hz 2P IE2			
Rated current	: 253 A	Moment of inertia (J)	: 44.7 sq.ft.lb	
LRC	: 6.1	Duty cycle	: Cont.(S1)	
Rated torque	: 354 ft.lb	Insulation class	:F	
Locked rotor torque	: 180 %	Service factor	: 1.00	
Breakdown torque	: 220 %	Temperature rise	: 105 K	
Rated speed	: 2965 rpm	Design	: B	
Locked rotor time	: 18s (cold) 10s (hot)			

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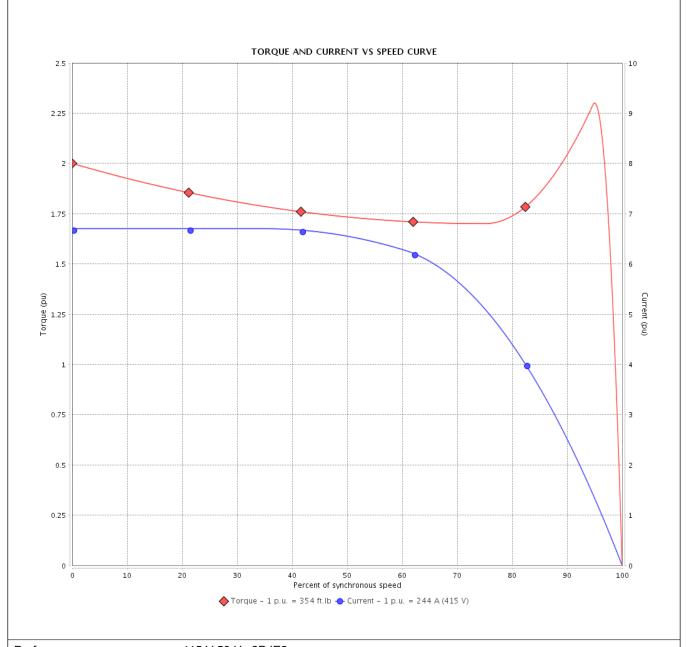
Customer :

Product line : NEMA Premium Efficiency Three- P

Phase

Product code: 11431383

Catalog #: 20036ST3QIE447TS-W22



Performance : 415 V 50 Hz 2P IE2 Rated current : 244 A Moment of inertia (J) : 44.7 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 354 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 200 % : 1.00 Breakdown torque : 229 % Temperature rise : 105 K

Locked rotor time : 18s (cold) 10s (hot)

: 2970 rpm

Rated speed

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Design

: B

#### Three Phase Induction Motor - Squirrel Cage

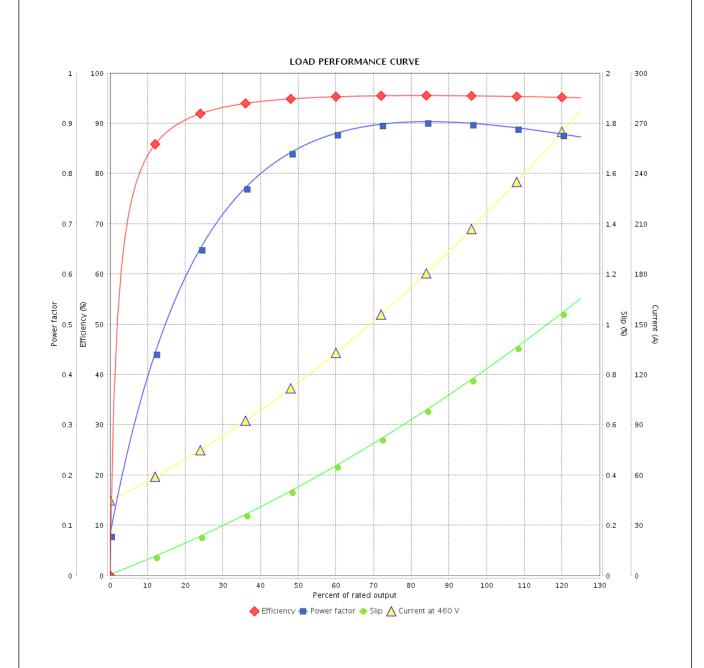


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431383

Phase

Catalog #: 20036ST3QIE447TS-W22



Performance	: 4	460 V 60 Hz 2P				
Rated current	: 2	219 A	Moment o	f inertia (J)	: 44.7 sq.ft.lb	
LRC	: 6	3.5	Duty cycle	}	: Cont.(S1)	
Rated torque	: 2	294 ft.lb	Insulation	class	: F	
Locked rotor torqu	e :2	210 %	Service fa	ctor	: 1.15	
Breakdown torque	: 2	229 %	Temperati	ıre rise	: 80 K	
Rated speed	: 3	3570 rpm	Design		: B	
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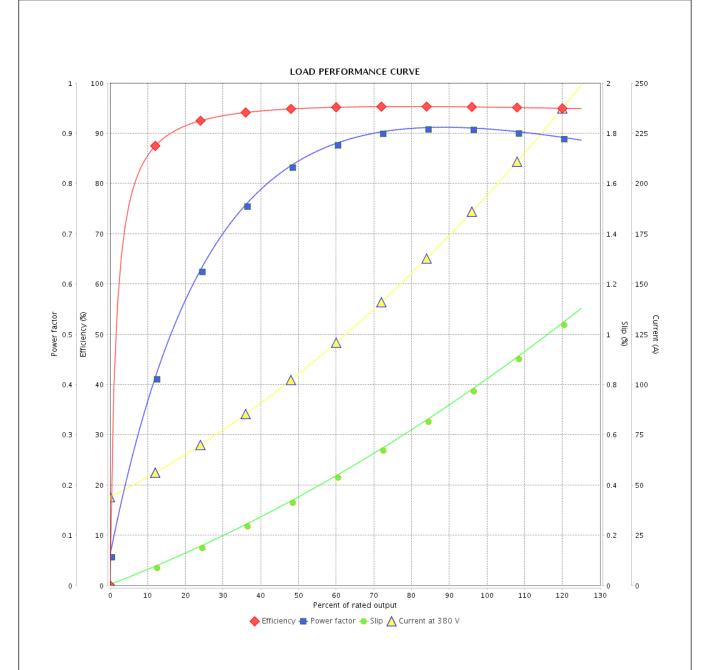
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 20036ST3QIE447TS-W22

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Performance	: 380 V 50 Hz 2P IE3				
Rated current	: 193 A	Moment of inertia (J)		: 44.7 sq.ft.lb	
LRC	: 6.8 : 265 ft.lb	Duty cycle		: Cont.(S1)	
Rated torque Locked rotor torque	: 210 %	Insulation class Service factor Temperature rise		: F : 1.15	
Breakdown torque	: 260 %			: 80 K	
Rated speed	: 2975 rpm	Design		: B	
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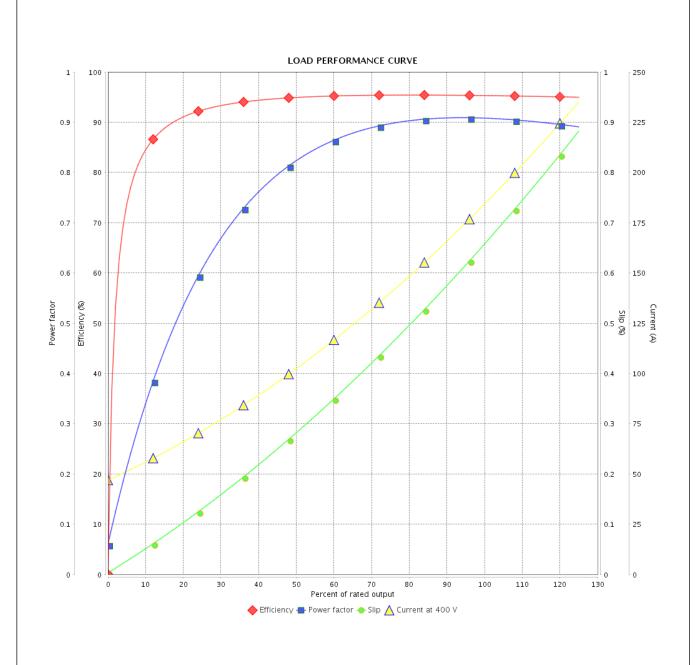


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431383

Phase

Catalog #: 20036ST3QIE447TS-W22



Performance	ormance : 400 V 50 Hz 2P IE3					
Rated current : 183 A		Moment o	Moment of inertia (J)			
LRC	: 7	.6	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 2	64 ft.lb	Insulation	class	: F	
Locked rotor torqu	ocked rotor torque : 220 % Service far		ctor	: 1.15		
Breakdown torque	: 2	90 %	Temperature rise		: 80 K	
Rated speed	: 2	980 rpm	Design		: B	
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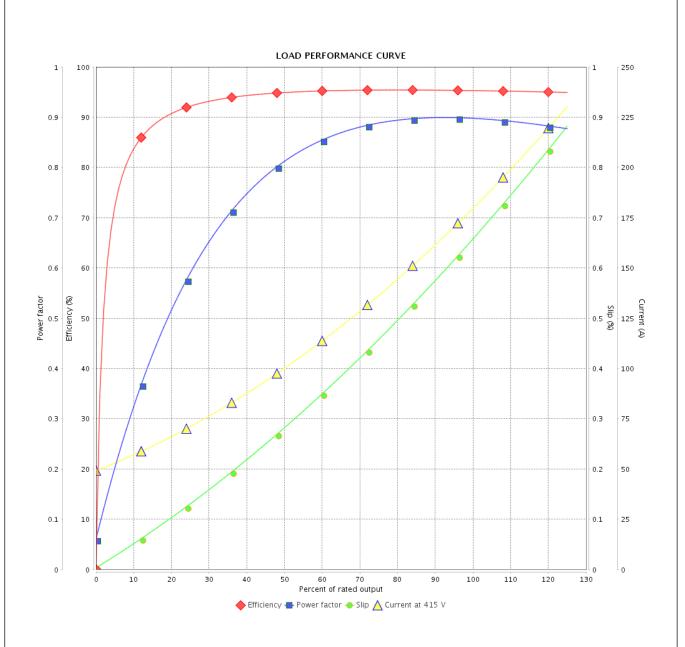
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Phase

Product code: 11431383

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Performance	: 415 V 50 Hz 2P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 178 A : 8.3 : 264 ft.lb : 229 % : 320 % : 2980 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 44.7 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage

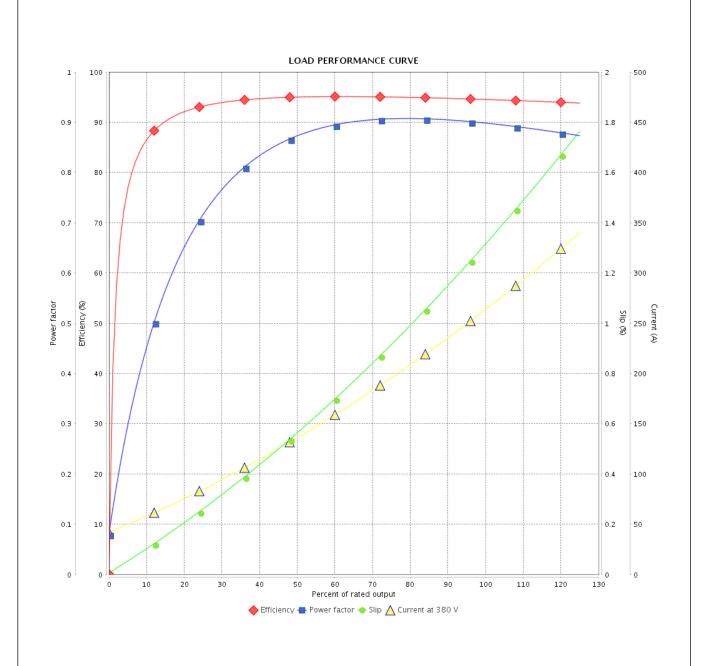


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431383

Phase

Catalog #: 20036ST3QIE447TS-W22



Performance	: 3	: 380 V 50 Hz 2P IE1				
Rated current : 268 A		Moment o	Moment of inertia (J)			
LRC	: 5	5.4	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 3	355 ft.lb	Insulation	class	: F	
Locked rotor torque : 1		160 %	Service fa	ctor	: 1.00	
Breakdown torque	: 1	190 %	Temperatu	Temperature rise		
Rated speed	: 2	2960 rpm	Design		: B	
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Product line : NEMA Premium Efficiency Three-

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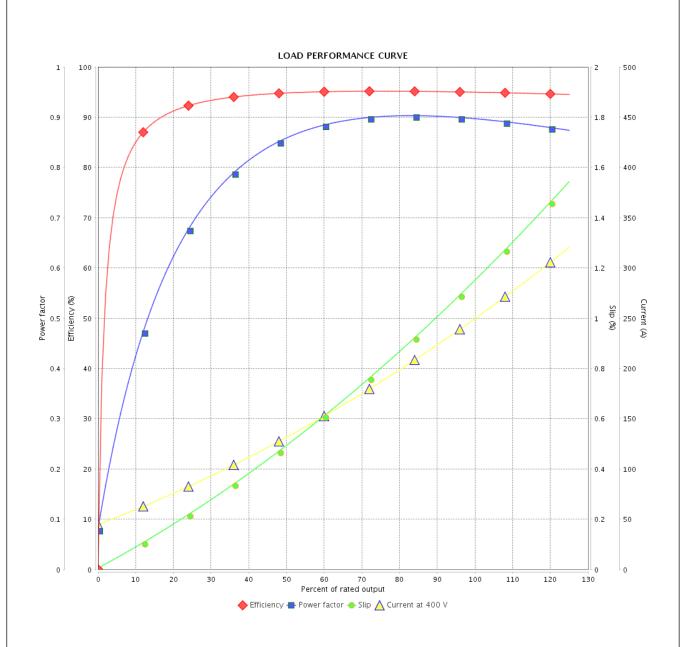
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Performance : 400 V 50 Hz 2P		: 400 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 253 A : 6.1 : 354 ft.lb : 180 % : 220 % : 2965 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 44.7 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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#### Three Phase Induction Motor - Squirrel Cage

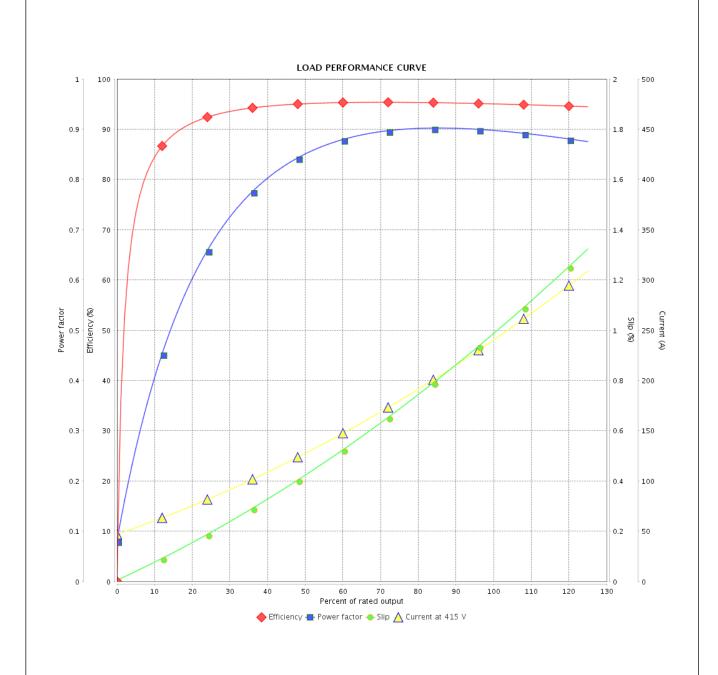


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431383

Phase

Catalog # : 20036ST3QIE447TS-W22



Performance	: 415 V 50 Hz 2P IE2					
Rated current	:	: 244 A Moment of inertia		f inertia (J)	: 44.7 sq.ft.lb	
LRC	:	6.7	Duty cycle	)	: Cont.(S1)	
Rated torque	:	354 ft.lb	Insulation	class	:F	
Locked rotor torque	e :	200 %	Service fa	ctor	: 1.00	
Breakdown torque	:	: 229 % Temperat		ıre rise	: 105 K	
Rated speed	: 2970 rpm		Design	Design		
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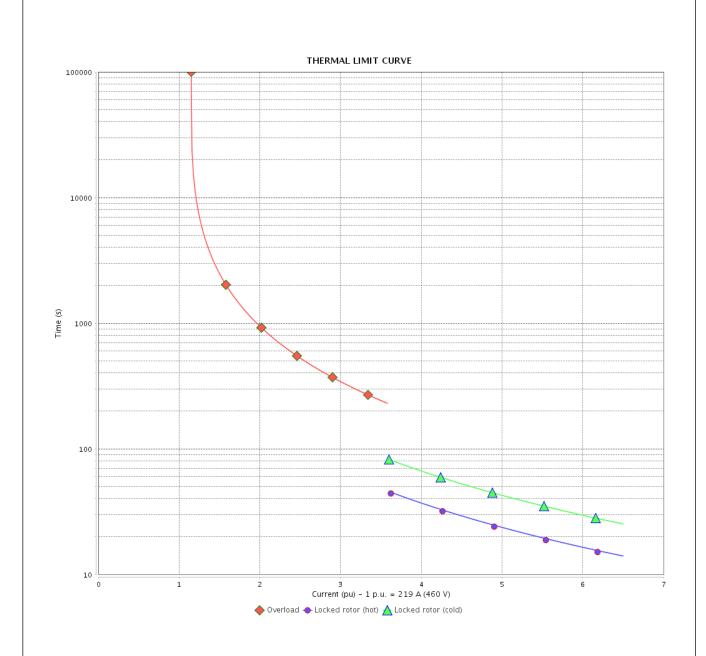


Customer	:				
Product line	: NEMA Premium Efficiend Phase		Product code : Catalog # :	11431383 20036ST3QIE	E447TS-W22
Performance	: 460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 219 A : 6.5 : 294 ft.lb : 210 % : 229 % : 3570 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class actor	: 44.7 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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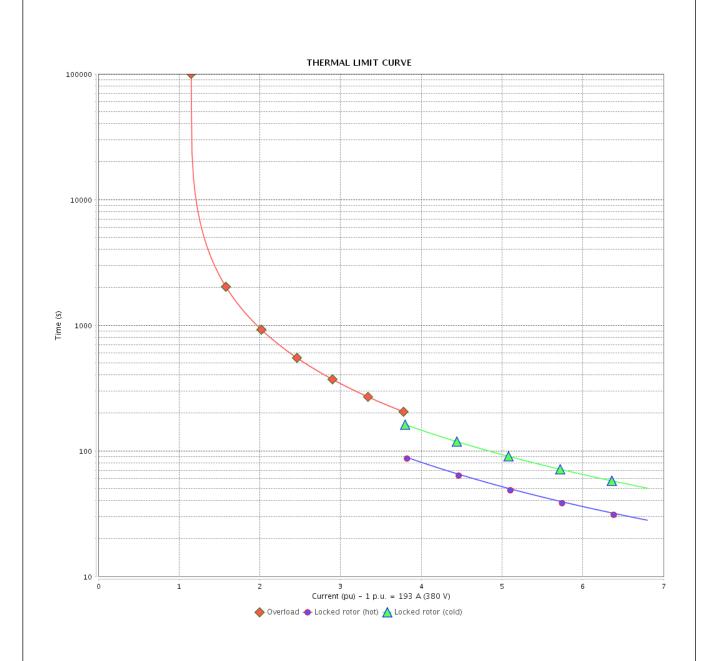


Customer	·				
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Product line	: NEMA Premium Efficiency Phase	Three-	Product code :	11431383	
	Priase		Catalog # :	20036ST3QIE	447TS-W22
Performance	: 380 V 50 Hz 2P IE3				
Rated current	: 193 A	Moment o	f inertia (J)	: 44.7 sq.ft.lb	
LRC Rated torque	: 6.8 : 265 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torque	: 210 %	Service fa	ctor	: 1.15	
Breakdown torque Rated speed	: 260 % : 2975 rpm	Temperatu Design	ure rise	: 80 K : B	
Heating constant	•				
Cooling constant					
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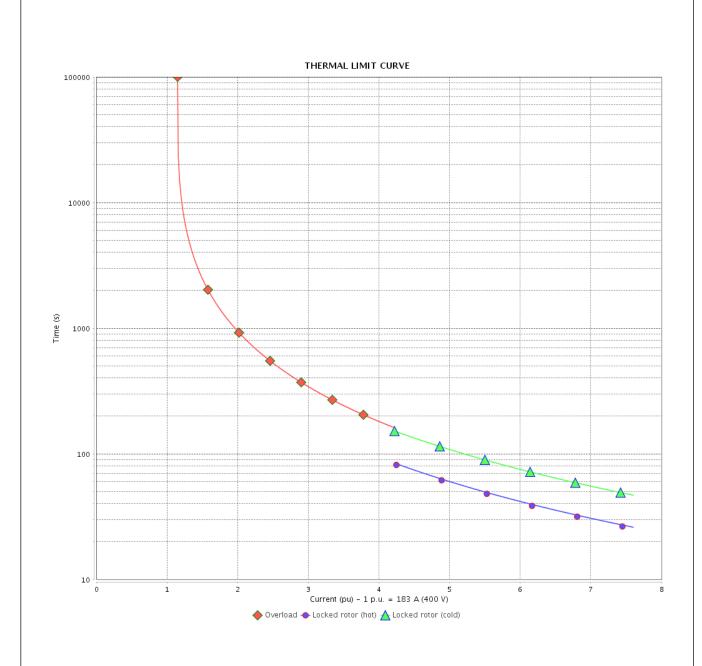


Customer		:				
Product line		: NEMA Premium Efficiency <sup>-</sup> Phase		Product code :	11431383 20036ST3QI	E447TS-W22
Performance Rated current LRC Rated torque Locked rotor toro Breakdown torque Rated speed	iue ::	400 V 50 Hz 2P IE3 183 A 7.6 264 ft.lb 220 % 290 % 2980 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 44.7 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant Cooling constant Rev.	t	Changes Summary		Performed	Checked	Date
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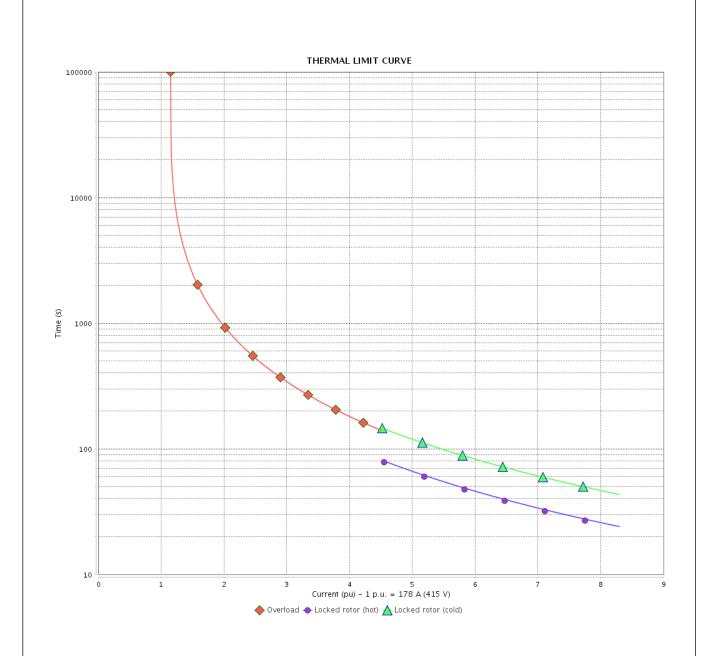


Customer		:			·	
Product line		: NEMA Premium Efficiency <sup>-</sup> Phase		Product code : Catalog # :	11431383 20036ST3QIE	447TS-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: : : :ue : :e :	415 V 50 Hz 2P IE3 178 A 8.3 264 ft.lb 229 % 320 % 2980 rpm	Moment or Duty cycle Insulation Service far Temperatu Design	class ctor	: 44.7 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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## Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage

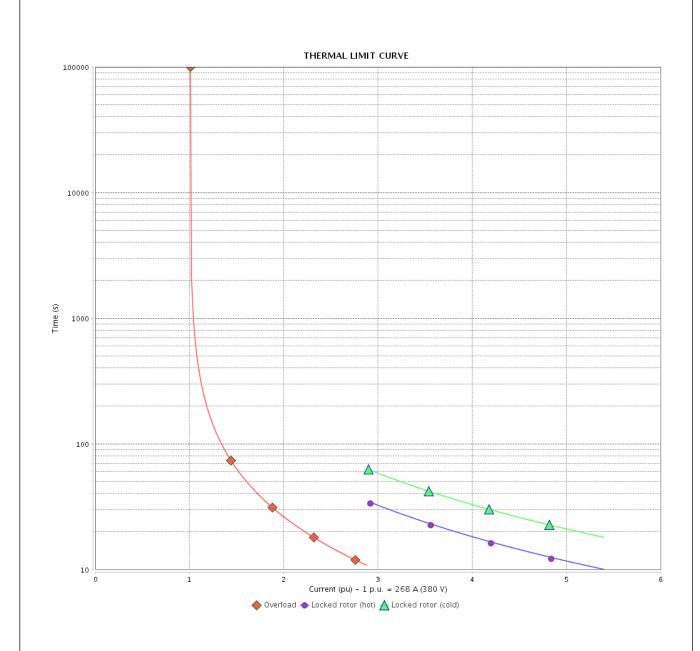


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11431383 20036ST3QIE	447TS-W22
				-		
Performance		: 380 V 50 Hz 2P IE1				
Rated current		: 268 A	Moment o	of inertia (J)	: 44.7 sq.ft.lb	
LRC		: 5.4	Duty cycle	Э	: Cont.(S1)	
Rated torque		: 355 ft.lb	Insulation		: F : 1.00	
Locked rotor tord Breakdown torqu		: 160 % : 190 %	Service fa Temperat		: 1.00 : 105 K	
Rated speed		: 2960 rpm	Design	ui C 113C	: B	
Heating constant						
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## Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage

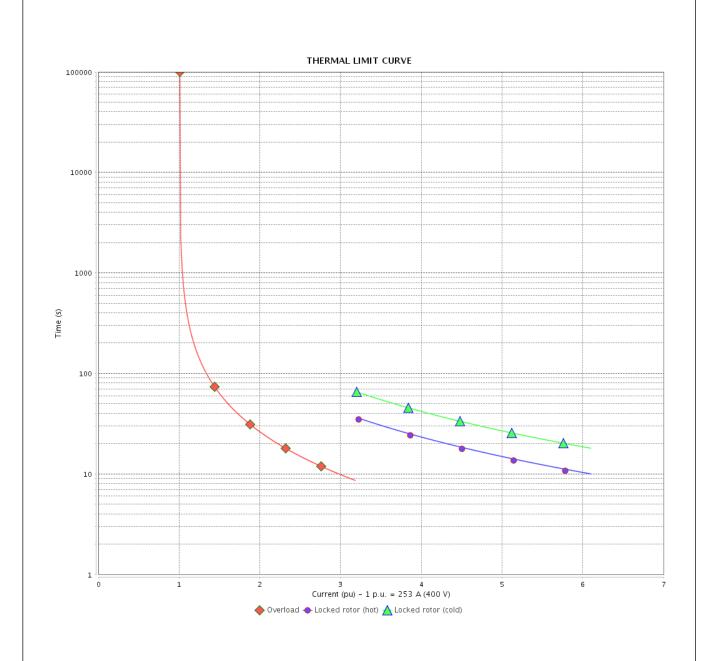


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11431383 20036ST3QIE	447TS-W22
Performance		: 400 V 50 Hz 2P IE2				
Rated current		: 253 A	Moment o	of inertia (J)	: 44.7 sq.ft.lb	
LRC Rated torque		: 6.1 : 354 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord		: 180 %	Service fa		: 1.00 : 105 K	
Breakdown torqu Rated speed		: 220 % : 2965 rpm	Temperat Design	ure rise	: 105 K : B	
Heating constan						
Cooling constant	t					
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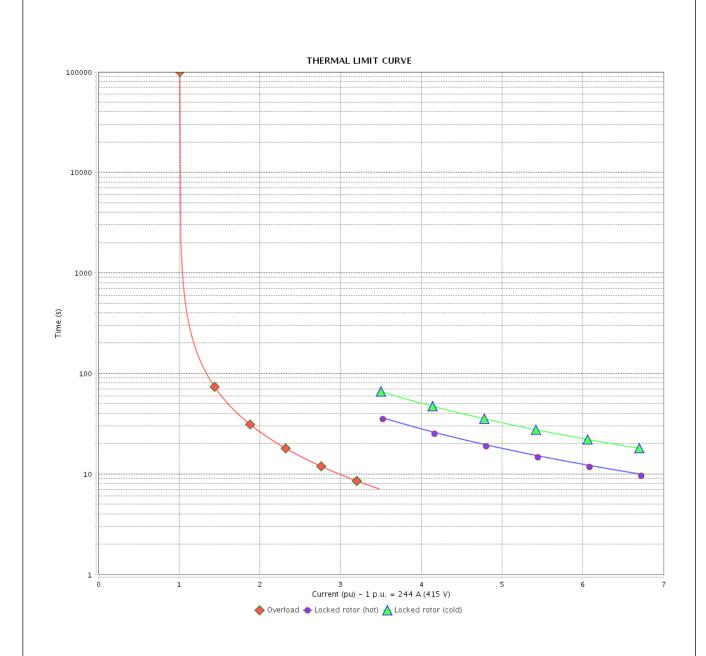


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11431383 20036ST3QIE	447TS-W22
					20000010412	
Performance		: 415 V 50 Hz 2P IE2				
Rated current		: 244 A	Moment of	of inertia (J)	: 44.7 sq.ft.lb	
LRC Rated torque		: 6.7 : 354 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que	: 200 %	Service fa	actor	: 1.00	
Breakdown torqu Rated speed		: 229 % : 2970 rpm	Temperat Design	ure rise	: 105 K : B	
Heating constan						
Cooling constant						
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#### Three Phase Induction Motor - Squirrel Cage



Customer

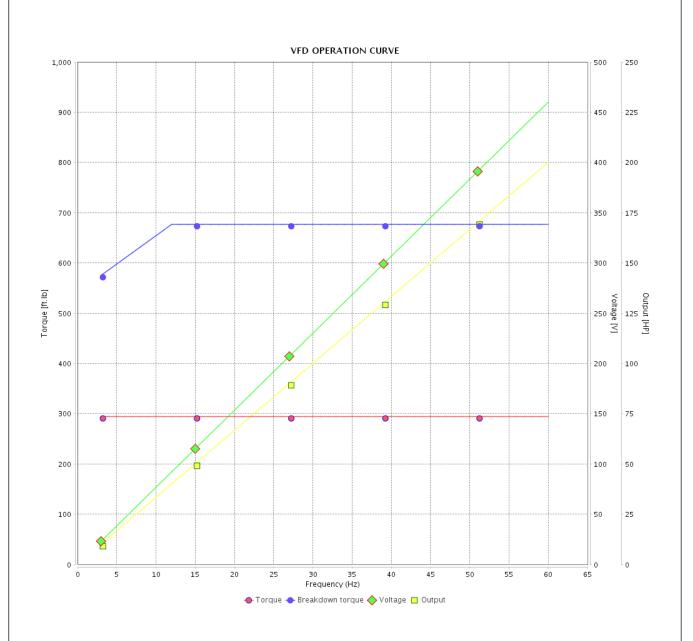
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11431383

Catalog #: 20036ST3QIE447TS-W22

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Performance	: 460 V 60 Hz 2P				
Rated current LRC	: 219 A : 6.5	Moment of inertia (J)		: 44.7 sq.ft.lb	
Rated torque	: 294 ft.lb	Duty cycle Insulation class Service factor Temperature rise		: Cont.(S1) : F	
Locked rotor torque Breakdown torque	: 210 % : 229 %			: 1.15 : 80 K	
Rated speed	: 3570 rpm	Design	u. 0 1.00	: B	
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#### Three Phase Induction Motor - Squirrel Cage

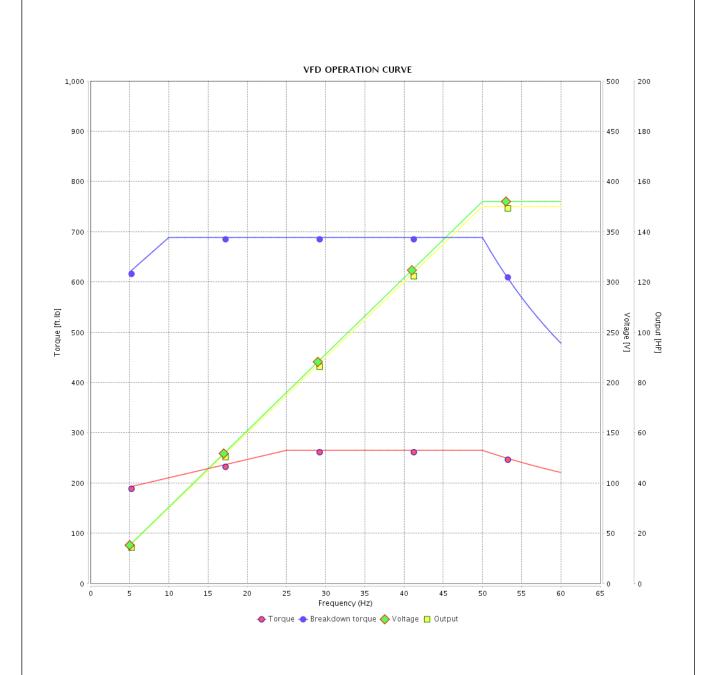


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431383

Phase

Catalog #: 20036ST3QIE447TS-W22



Performance	: 3	80 V 50 Hz 2P IE3				
Rated current	: 1	: 193 A Moment		f inertia (J)	: 44.7 sq.ft.lb	
LRC	: 6	.8	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 2	65 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2	10 %	Service fa	ctor	: 1.15	
Breakdown torque	e : 2	60 %	Temperature rise		: 80 K	
Rated speed	: 2	975 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

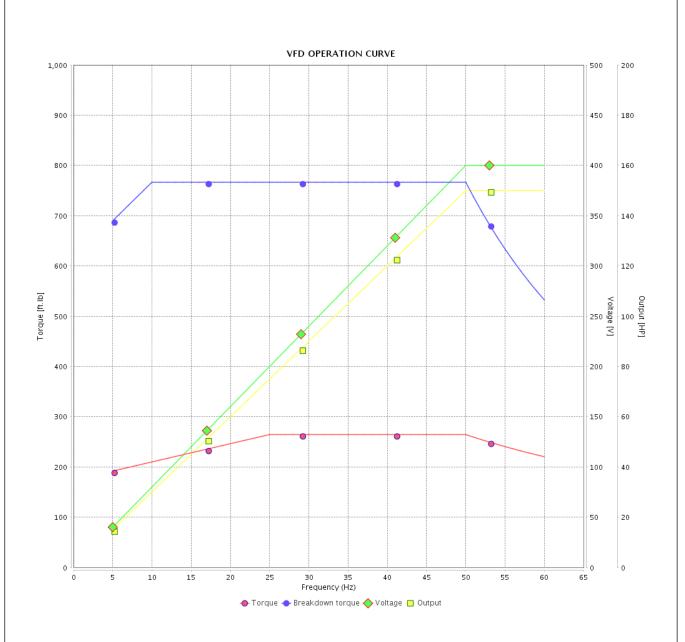
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11431383

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Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC	: 183 A : 7.6	Moment of inertia (J) Duty cycle		: 44.7 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque Breakdown torque Rated speed	: 264 ft.lb : 220 % : 290 % : 2980 rpm	Insulation class Service factor Temperature rise Design		: F : 1.15 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
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#### Three Phase Induction Motor - Squirrel Cage

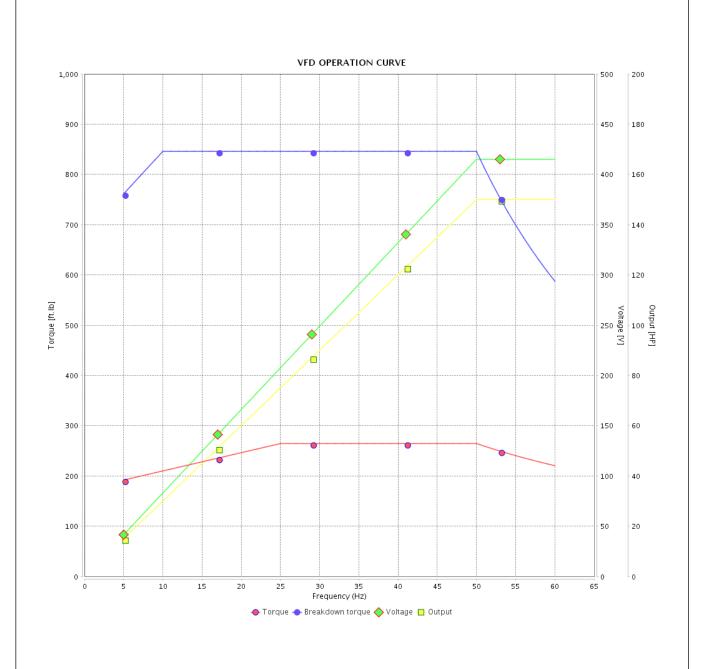


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431383

Phase

Catalog #: 20036ST3QIE447TS-W22



Performance	:	415 V 50 Hz 2P IE3				
Rated current	irrent : 178 A Mome		Moment o	f inertia (J)	: 44.7 sq.ft.lb	
LRC	:	8.3	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	:	264 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	229 %	Service fa	ctor	: 1.15	
Breakdown torque	:	320 %	Temperature rise		: 80 K	
Rated speed	:	2980 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



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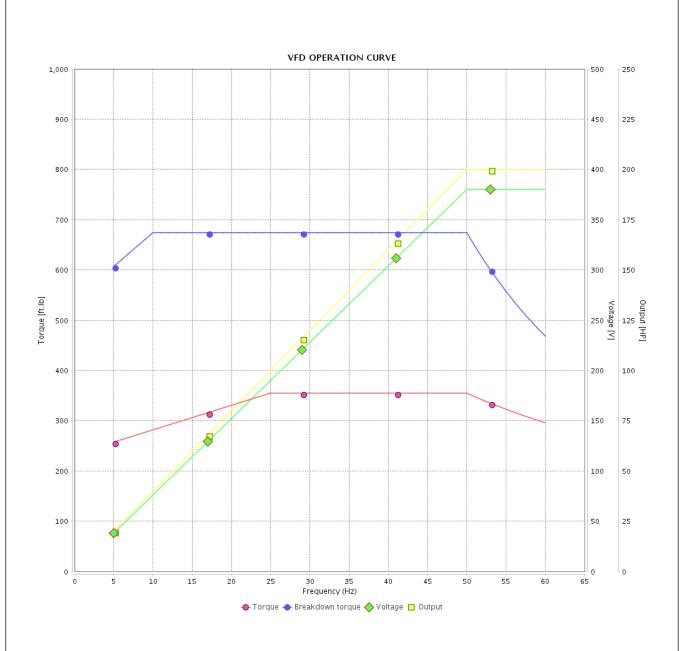
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11431383

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Performance : 380 V 50 Hz 2P IE1 : 268 A Rated current Moment of inertia (J) : 44.7 sq.ft.lb **LRC** : 5.4 Duty cycle : Cont.(S1) : 355 ft.lb Insulation class Rated torque : F Locked rotor torque : 160 % Service factor : 1.00 Breakdown torque : 190 % Temperature rise : 105 K Rated speed : 2960 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

#### Three Phase Induction Motor - Squirrel Cage



Customer

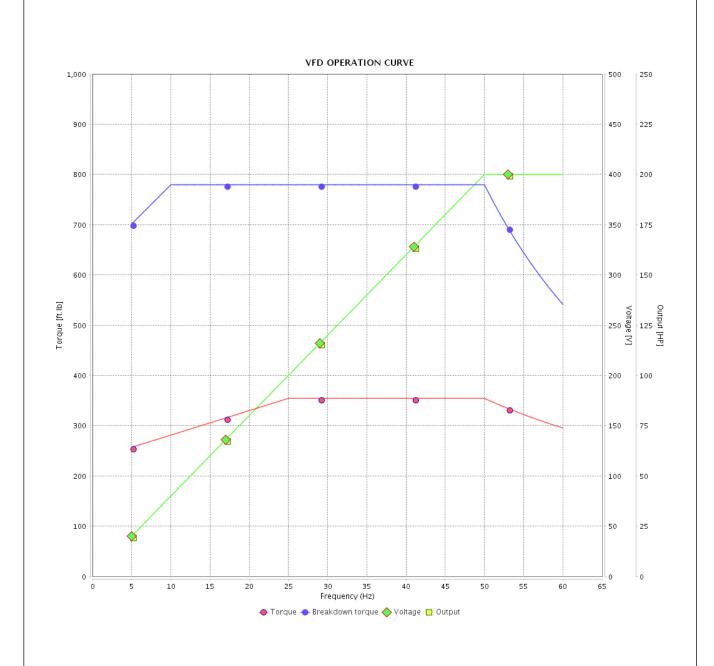
Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11431383

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Performance : 400 V 50 Hz 2P IE2 : 253 A Rated current Moment of inertia (J) : 44.7 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) : 354 ft.lb Insulation class : F Rated torque Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 105 K Rated speed : 2965 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Page Revision

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#### Three Phase Induction Motor - Squirrel Cage



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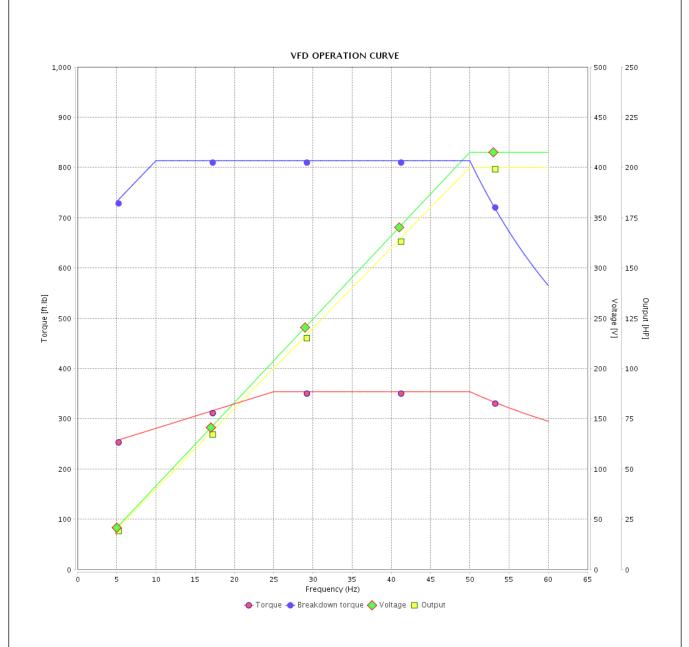
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11431383

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Performance : 415 V 50 Hz 2P IE2 : 244 A Rated current Moment of inertia (J) : 44.7 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 354 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 2970 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

