### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11431312

Catalog #: 00536ST3QIE184T-W22

Frame : 182/4T 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 Ambient temperature Starting method : Direct On Line

Approx weight<sup>3</sup>

Altitude		: 1000 m.a.:	S.I.	Approx	c. weight <sup>3</sup>	: 1	10 lb	
Protection degree	Э	: IP55		Momer	nt of inertia (J)	: 0	.2233 sq.ft.lb	
Design		: B						
Output [HP]		5	4	4	4	5	5	5
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]		5.90	5.79	5.57	5.43	7.14	6.78	6.61
L. R. Amperes [A]		44.8	42.8	45.1	48.3	42.1	44.7	47.6
LRC [A]		7.6x(Code J)	7.4x(Code H)	8.1x(Code J)	8.9x(Code K)	5.9x(Code F)	6.6x(Code	7.2x(Code H)
							G)	
No load current [A]		2.00	2.00	2.15	2.25	2.00	2.15	2.25
Rated speed [RPM	1]	3485	2890	2900	2910	2850	2870	2880
Slip [%]		3.19	3.67	3.33	3.00	5.00	4.33	4.00
Rated torque [ft.lb]		7.53	7.27	7.24	7.22	9.21	9.15	9.12
Locked rotor torque	e [%]	229	229	270	300	180	210	240
Breakdown torque	[%]	350	320	370	400	250	290	320
Service factor		1.25	1.25	1.25	1.25	1.25	1.25	1.25
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		45s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)
		25s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)
Noise level <sup>2</sup>		66.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)
	25%							
Efficiency (%)	50%	86.5	86.3	86.3	86.1	87.5	87.5	87.5
Lilicition (70)	75%	88.5	87.7	88.2	88.2	87.5	88.5	88.5
	100%	88.5	87.5	88.3	88.3	86.5	87.5	87.5

0.71

0.83

100% 0.89 0.90 0.88 0.87 Drive end Non drive end Foundation loads

0.76

0.85

6207 C3 Bearing type 6206 C3 Max. traction : 131 lb Sealing Inpro/Seal Inpro/Seal : 241 lb Max. compression

0.74

0.85

20000 h 20000 h Lubrication interval Lubricant amount 7 g 5 g Mobil Polyrex EM Lubricant type

25%

50%

75%

Notes

Power Factor

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.

0.81

0.88

0.91

0.78

0.87

0.90

0.76

0.85

0.89

0.68

0.81

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#### Three Phase Induction Motor - Squirrel Cage

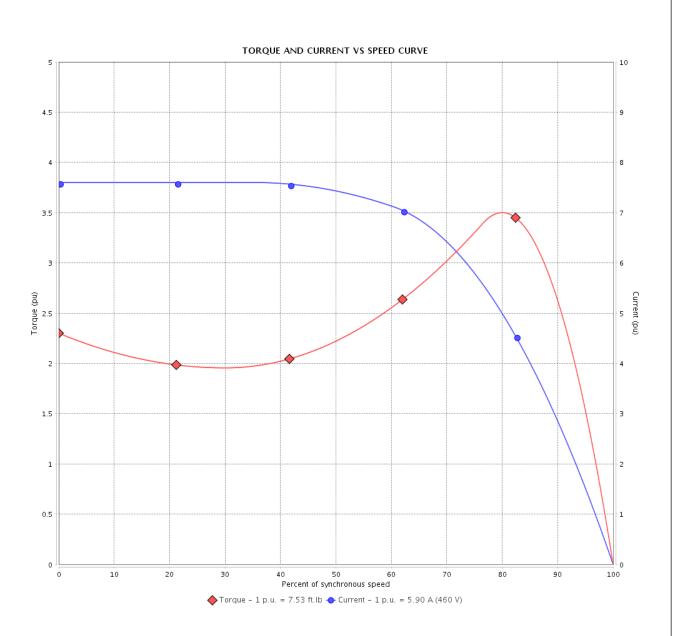


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 00536ST3QIE184T-W22

11431312



Performance : 460 V 60 Hz 2P Rated current : 5.90 A Moment of inertia (J) : 0.2233 sq.ft.lb **LRC** : 7.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 7.53 ft.lb : F Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 3485 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: 11431312 Catalog #: 00536ST3QIE184T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Current Torque (pu) 0.5

Performance : 380 V 50 Hz 2P IE3 Rated current : 5.79 A Moment of inertia (J) : 0.2233 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 7.27 ft.lb Insulation class : F Rated torque Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 320 % Temperature rise : 80 K : B Rated speed : 2890 rpm Design

Percent of synchronous speed

◆ Torque – 1 p.u. = 7.27 ft.lb ◆ Current – 1 p.u. = 5.79 A (380 V)

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

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#### Three Phase Induction Motor - Squirrel Cage



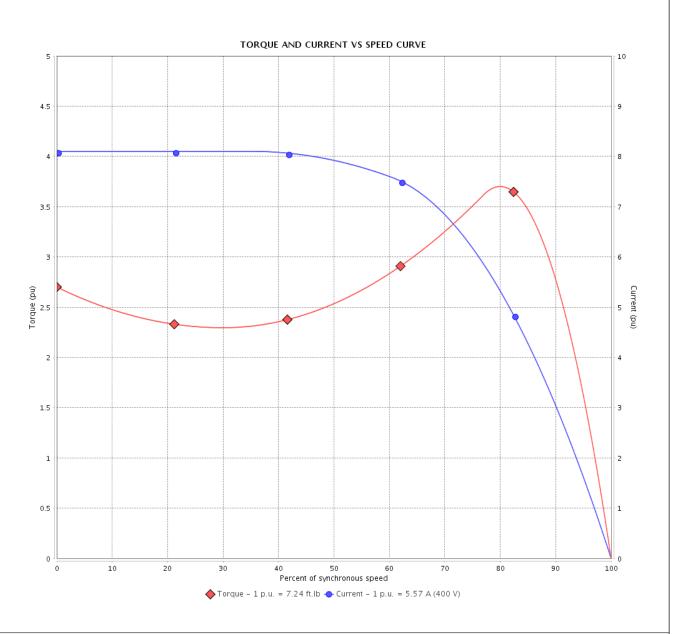
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00536ST3QIE184T-W22

11431312



Performance : 400 V 50 Hz 2P IE3 Rated current : 5.57 A Moment of inertia (J) : 0.2233 sq.ft.lb **LRC** : 8.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 7.24 ft.lb : F Locked rotor torque : 270 % Service factor : 1.25 Breakdown torque : 370 % Temperature rise : 80 K Rated speed : 2900 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: 11431312 Catalog #: 00536ST3QIE184T-W22 TORQUE AND CURRENT VS SPEED CURVE

3.5								\	\
3		•						•	
2.5									
2								\	
1.5									
1									
0.5									
0	10	20	30	40	50 of synchronous	60	70	80	90 1

Performance : 415 V 50 Hz 2P IE3 Rated current : 5.43 A Moment of inertia (J) : 0.2233 sq.ft.lb LRC : 8.9 Duty cycle : Cont.(S1) : 7.22 ft.lb Insulation class : F Rated torque : 300 % Locked rotor torque Service factor : 1.25 Breakdown torque : 400 % Temperature rise : 80 K Rated speed : 2910 rpm Design : B Locked rotor time : 32s (cold) 18s (hot)

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#### Three Phase Induction Motor - Squirrel Cage

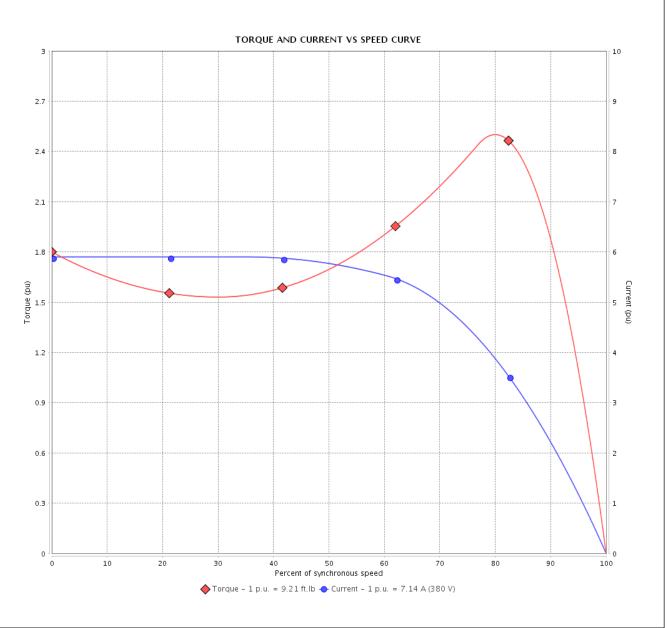


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11431312

Phase

Catalog # : 00536ST3QIE184T-W22



Performance : 380 V 50 Hz 2P IE2 Rated current : 7.14 A Moment of inertia (J) : 0.2233 sq.ft.lb **LRC** : 5.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 9.21 ft.lb : F Locked rotor torque : 180 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 2850 rpm Design : B

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

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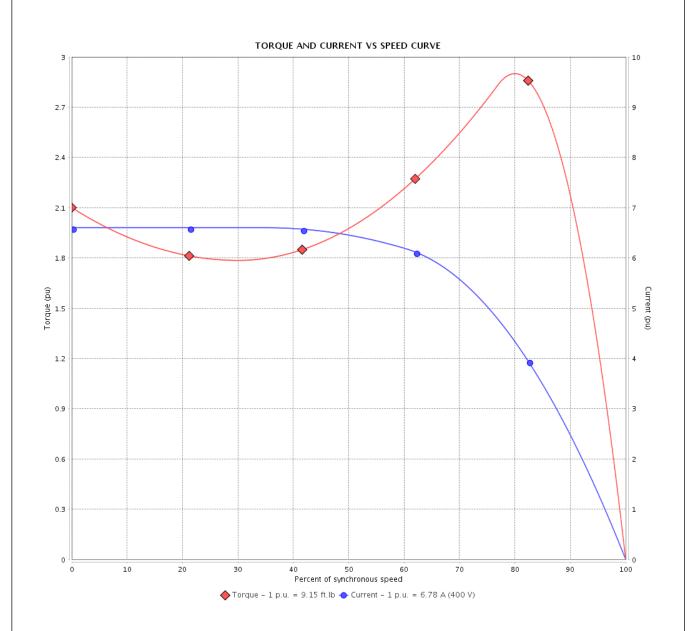
#### Three Phase Induction Motor - Squirrel Cage



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Customer Product line : NEMA Premium Efficiency Three-Product code: 11431312

Catalog #:



Performance : 400 V 50 Hz 2P IE2 Rated current : 6.78 A Moment of inertia (J) : 0.2233 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 9.15 ft.lb Locked rotor torque : 210 % Service factor : 1.25 Breakdown torque : 290 % Temperature rise : 80 K : B Rated speed : 2870 rpm Design Locked rotor time

: 32s (cold) 18s (hot)

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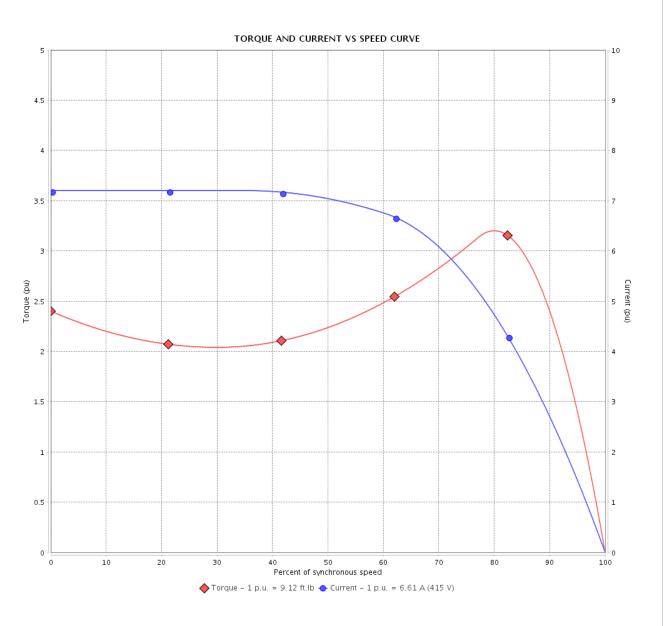


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 11431312

Catalog #: 00536ST3QIE184T-W22



Performance : 415 V 50 Hz 2P IE2 Rated current : 6.61 A Moment of inertia (J) : 0.2233 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 9.12 ft.lb : F Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 2880 rpm Design : B Locked rotor time

: 32s (cold) 18s (hot)

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### Three Phase Induction Motor - Squirrel Cage



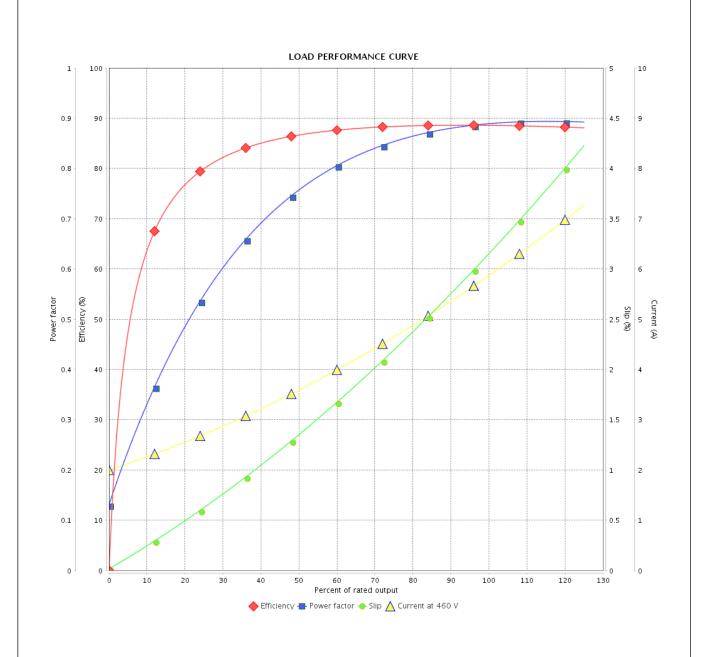
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431312

Phase

Catalog #: 00536ST3QIE184T-W22

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Performance	: 460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5.90 A : 7.6 : 7.53 ft.lb : 229 % : 350 % : 3485 rpm	Moment of i Duty cycle Insulation cl Service fact Temperature Design	lass	: 0.2233 sq.ft.I : Cont.(S1) : F : 1.25 : 80 K : B	b
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### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code :

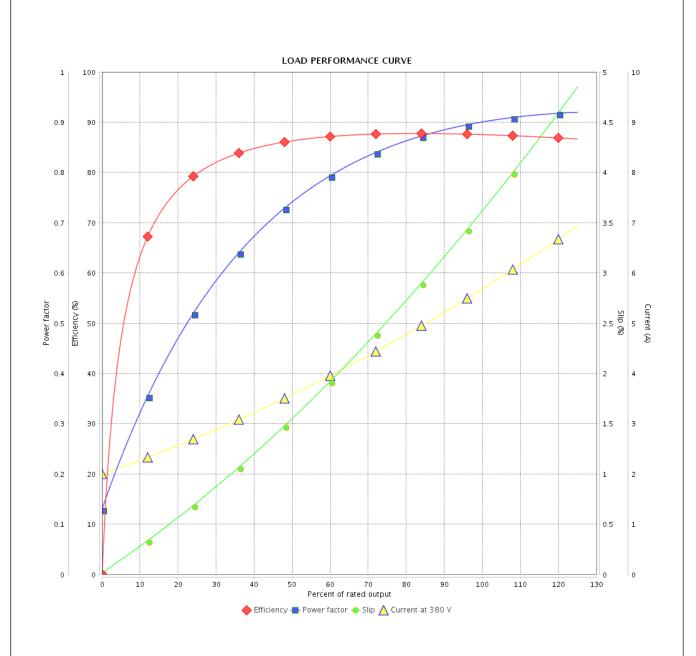
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Performance	: 380 V 50 Hz 2P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5.79 A : 7.4 : 7.27 ft.lb : 229 % : 320 % : 2890 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.2233 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	b
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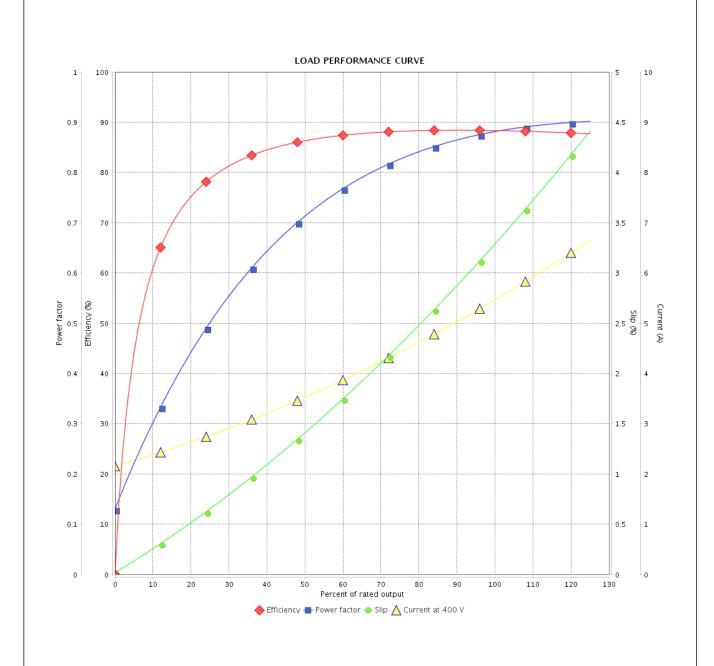


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431312

Phase

Catalog #: 00536ST3QIE184T-W22



Performance	: 4	00 V 50 Hz 2P IE3				
Rated current	ated current : 5.57 A		Moment o	f inertia (J)	: 0.2233 sq.ft.lb	
LRC	: 8	3.1	Duty cycle	}	: Cont.(S1)	
Rated torque	: 7	'.24 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	270 %	Service fa	ctor	: 1.25	
Breakdown torque	reakdown torque : 370 %		Temperature rise		: 80 K	
Rated speed	: 2	900 rpm	Design		: B	
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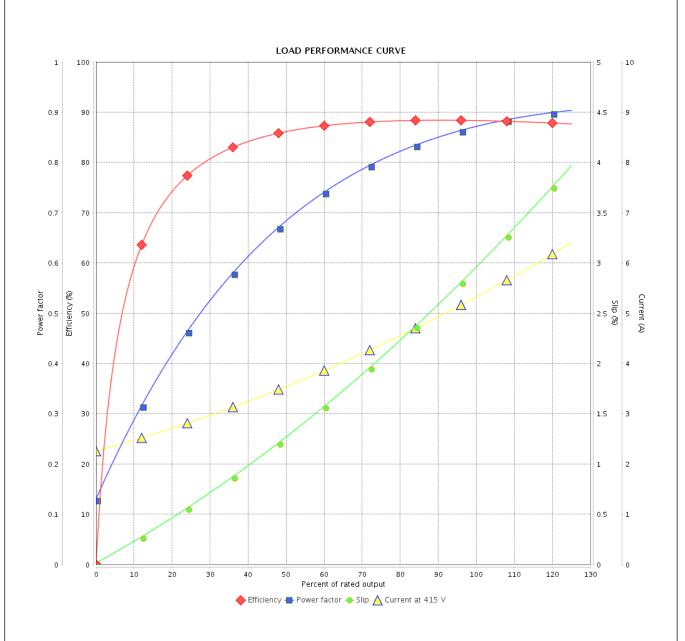
Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 11431312

Catalog #: 00536ST3QIE184T-W22

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Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Moment o Duty cycle Insulation Service fa Temperati Design	class ctor	: 0.2233 sq.ft : Cont.(S1) : F : 1.25 : 80 K : B	lb
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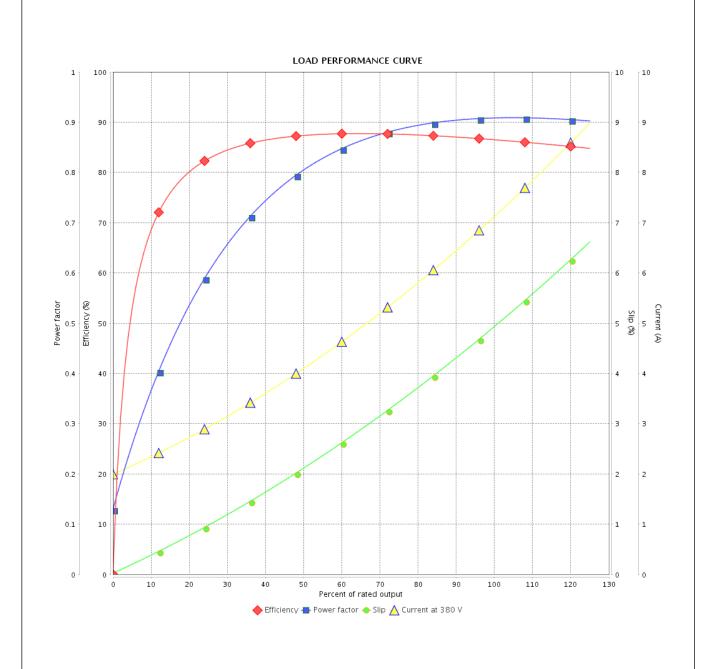
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11431312

Catalog #: 00536ST3QIE184T-W22



Performance	: 3	80 V 50 Hz 2P IE2				
Rated current	: 7	7.14 A Moment of inertia (J)		f inertia (J)	: 0.2233 sq.ft.	lb
LRC	: 5	5.9	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 9	).21 ft.lb	Insulation	class	: F	
Locked rotor torqu	ıe : 1	80 %	Service factor		: 1.25	
Breakdown torque	: 2	250 %	Temperature rise		: 80 K	
Rated speed	: 2	850 rpm	Design		: B	
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### Three Phase Induction Motor - Squirrel Cage



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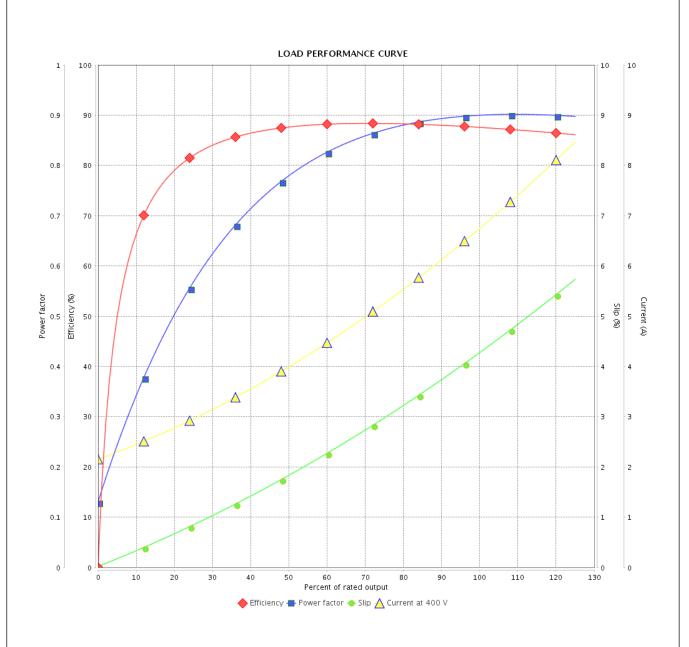
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11431312

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Performance	: 400 V 50 Hz 2P IE2		<del>.</del>	
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.78 A : 6.6 : 9.15 ft.lb : 210 % : 290 % : 2870 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.2233 sq.ft : Cont.(S1) : F : 1.25 : 80 K : B	.lb
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### Three Phase Induction Motor - Squirrel Cage

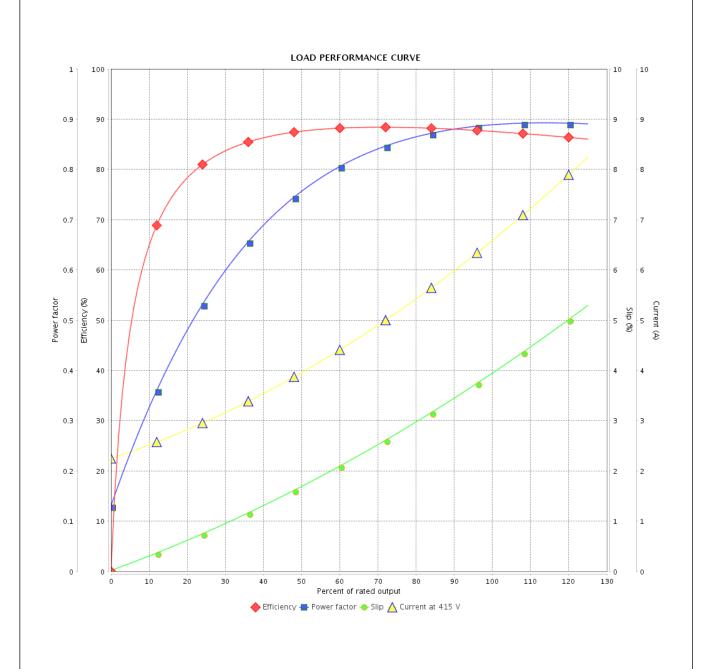


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431312

Phase

Catalog #: 00536ST3QIE184T-W22



Performance : 415 V 50 Hz 2P IE2  Rated current : 6.61 A Moment of inertia (J) : 0.2233 sq.ft. LRC : 7.2 Duty cycle : Cont.(S1)  Rated torque : 9.12 ft.lb Insulation class : F	
LRC : 7.2 Duty cycle : Cont.(S1)	
- my syste	:.lb
Pated torque : 0.12 ft lb   Insulation class   F	
Rated torque : 9.12 ft.lb   Insulation class : F	
Locked rotor torque : 240 % Service factor : 1.25	
Breakdown torque : 320 % Temperature rise : 80 K	
Rated speed : 2880 rpm Design : B	
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### Three Phase Induction Motor - Squirrel Cage

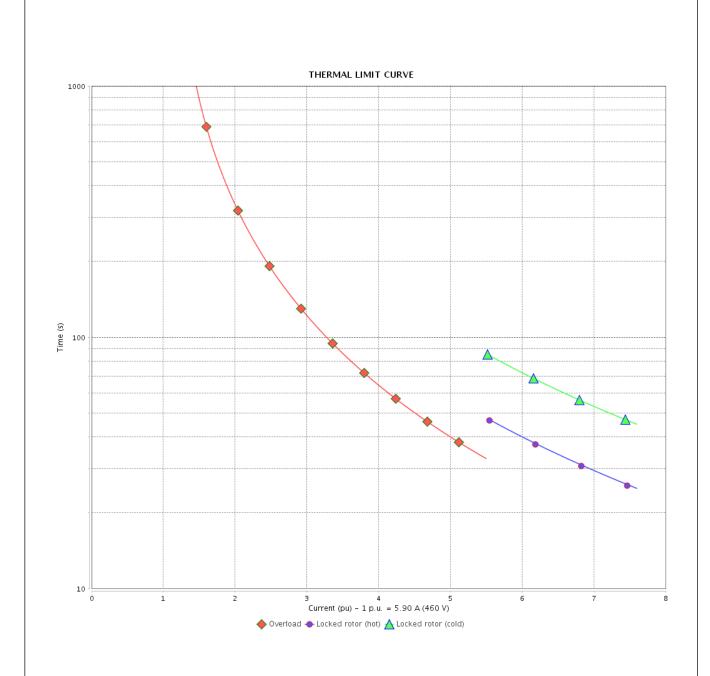


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code : Catalog # :	11431312 00536ST3QII	F184T-W22
				Catalog #:	00536513QII	E1841-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed Heating constant Cooling constant Rev.	: 5. : 7. : 7. : 22 : 3	60 V 60 Hz 2P 90 A 6 .53 ft.lb 29 % 50 % 485 rpm Changes Summary	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.2233 sq.ft.I : Cont.(S1) : F : 1.25 : 80 K : B	b
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### Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage

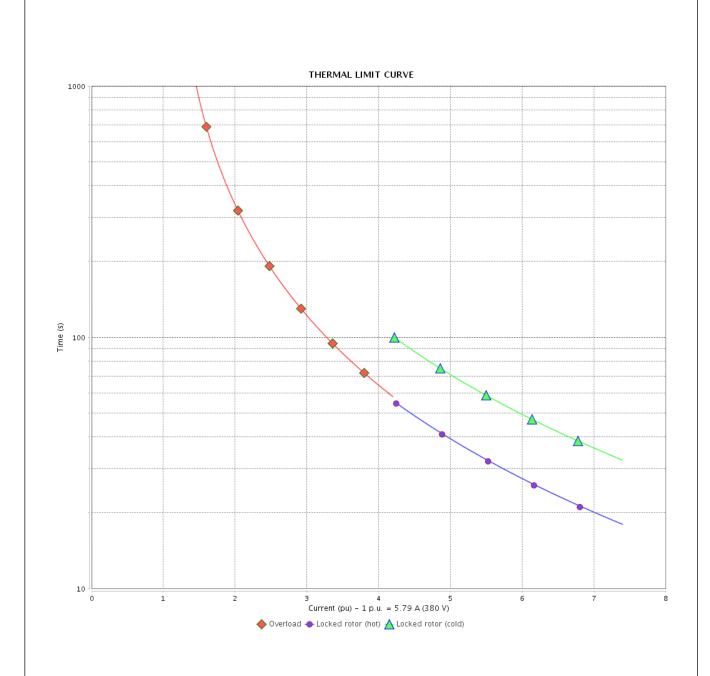


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Product line		NEMA Premium Efficiency hase		Product code :	11431312 00536ST3QI	E184T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed Heating constant Cooling constant	: 5. : 7. : 7. : 22 : 33	80 V 50 Hz 2P IE3 .79 A .4 .27 ft.lb 29 % 20 % 890 rpm	Moment or Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.2233 sq.ft.l : Cont.(S1) : F : 1.25 : 80 K : B	b
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### Three Phase Induction Motor - Squirrel Cage

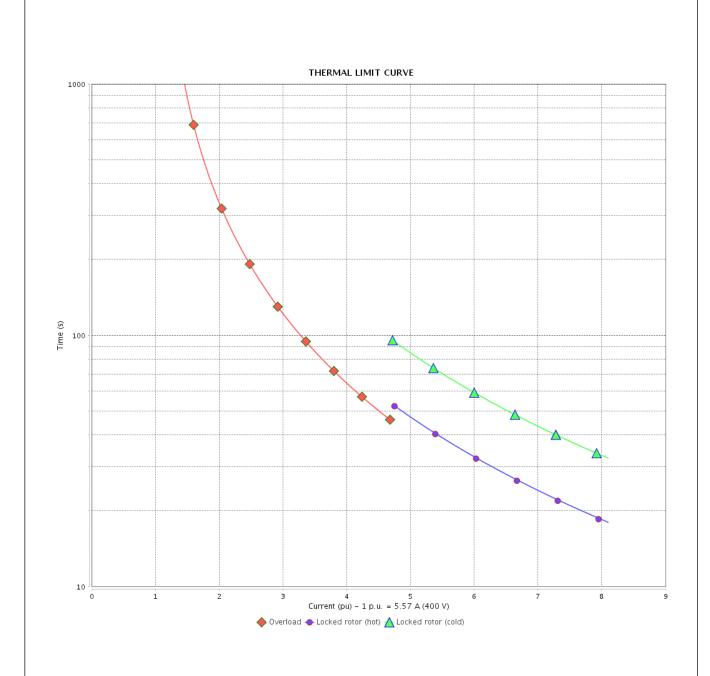


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11431312 00536ST3QI	E184T-W22
Performance	:	: 400 V 50 Hz 2P IE3				
Rated current LRC		: 5.57 A : 8.1	Duty cycle		: 0.2233 sq.ft.l : Cont.(S1)	b
Rated torque Locked rotor tord	que	: 7.24 ft.lb : 270 %	Insulation Service fa	actor	: F : 1.25	
Breakdown torqu Rated speed	ue	: 370 % : 2900 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constan						
Cooling constant	<u>t</u>	Changes Summary		Performed	Checked	Date
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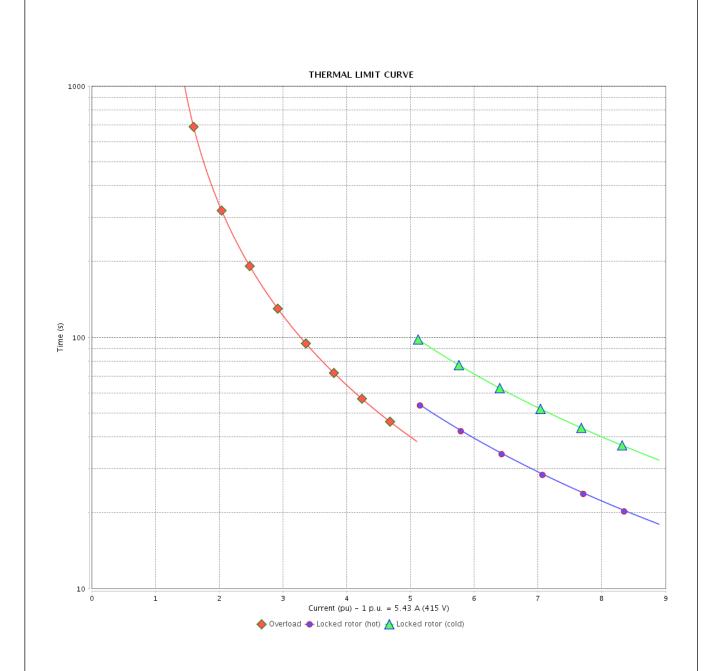


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11431312 00536ST3QII	E184T-W22
				<u> </u>		
Performance		: 415 V 50 Hz 2P IE3	Mamanta	of in outin (1)	. 0 2222 # 11	<b>L</b>
Rated current LRC		: 5.43 A : 8.9	Duty cycle		: 0.2233 sq.ft.li : Cont.(S1)	0
Rated torque Locked rotor tord		: 7.22 ft.lb : 300 %	Insulation Service fa		: F : 1.25	
Breakdown torqu		: 400 %	Temperat		: 80 K	
Rated speed		: 2910 rpm	Design		: B	
Heating constan						
Cooling constant	t 	Changes Comes		Doutour	Charles	Data
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### Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage

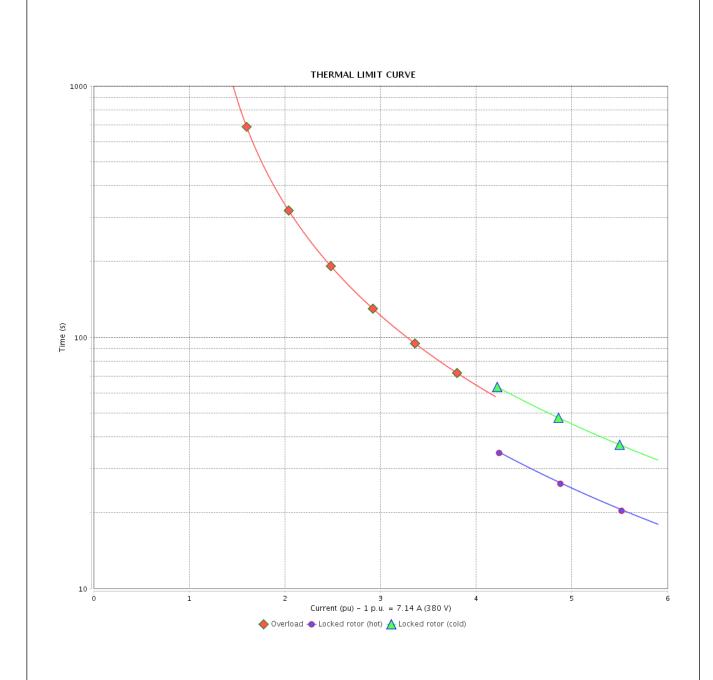


Customer		:				
Product line		: NEMA Premium Efficiency <sup>-</sup> Phase		Product code :	11431312 00536ST3QIE	E184T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: : : :ue :e	380 V 50 Hz 2P IE2  7.14 A 5.9 9.21 ft.lb 180 % 250 % 2850 rpm	Moment or Duty cycle Insulation Service far Temperatu Design	class ctor	: 0.2233 sq.ft.lt : Cont.(S1) : F : 1.25 : 80 K : B	)
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

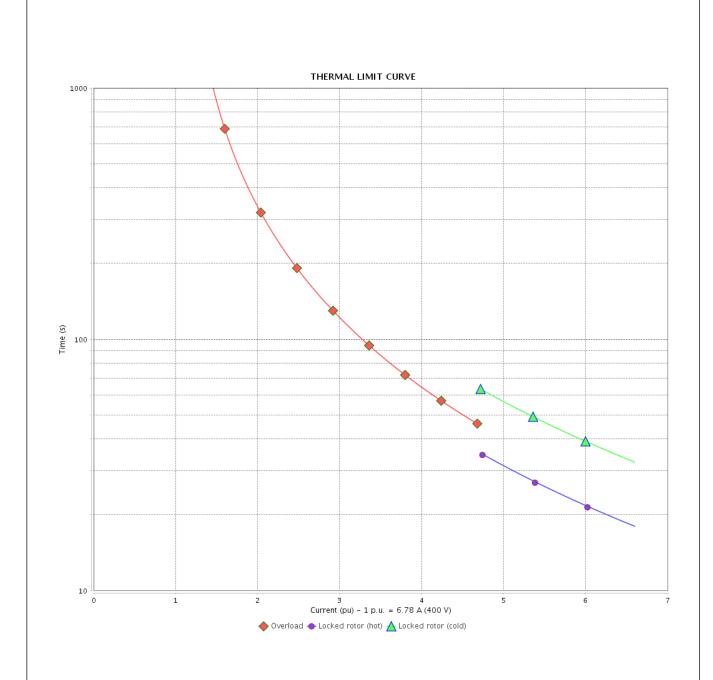


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	11431312 00536ST3QI	E184T-W22
Dorformanos	· 400 V 50 Hz 2D IF2				
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 400 V 50 Hz 2P IE2 : 6.78 A : 6.6 : 9.15 ft.lb : 210 % : 290 %	Duty cycle Insulation Service fa Temperati	class ctor	: 0.2233 sq.ft. : Cont.(S1) : F : 1.25 : 80 K	b
Rated speed Heating constant	: 2870 rpm	Design		: B	
Cooling constant  Rev.	Changes Summary		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

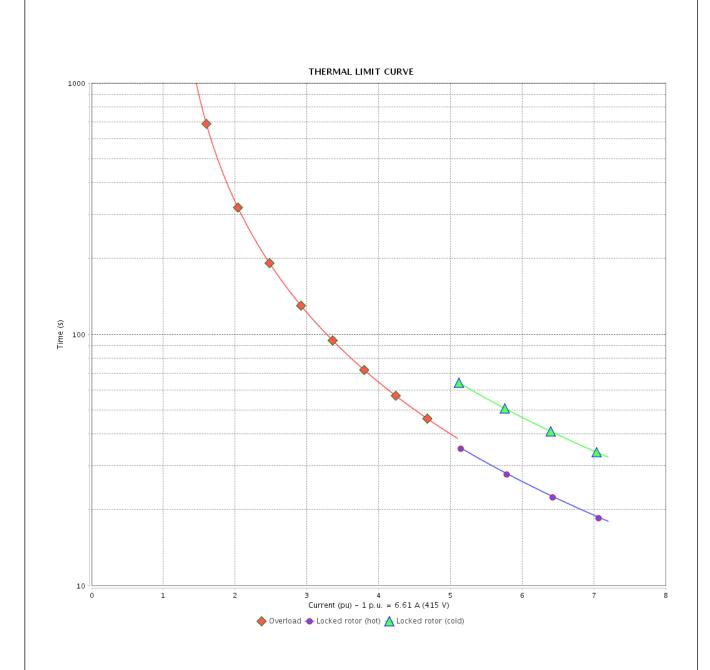


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11431312 00536ST3QII	≣184T-W22
Performance		: 415 V 50 Hz 2P IE2				
Rated current LRC		: 6.61 A : 7.2	Moment of Duty cycle	of inertia (J) e	: 0.2233 sq.ft.ll : Cont.(S1)	b
Rated torque		: 9.12 ft.lb : 240 %	Insulation Service fa	class	: F : 1.25	
Locked rotor tord Breakdown torqu		: 320 %	Temperat		: 80 K	
Rated speed		: 2880 rpm	Design		: B	
Heating constan						
Cooling constant	t	Changes Summers		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

13/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

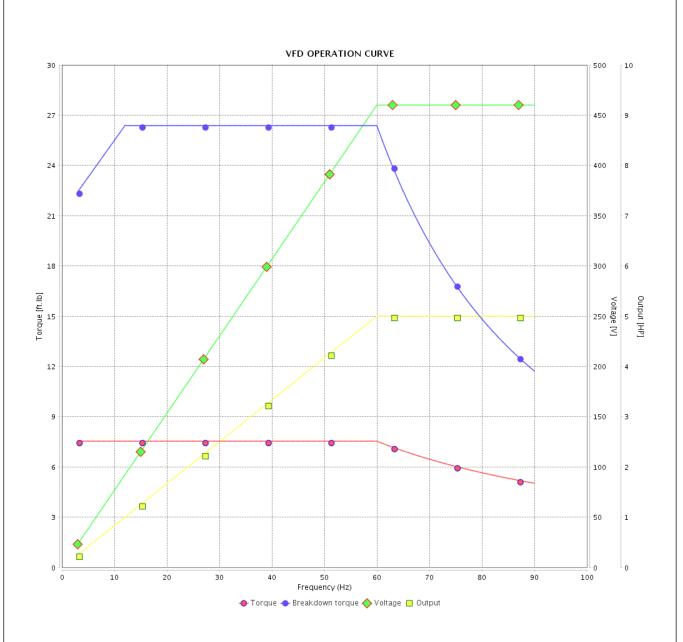
Product code: 11431312

Catalog # : 00536ST3QIE184T-W22

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Revision



Performance	: 4	160 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7 : 7 : 7 : 1 : 2 : 3	5.90 A 7.6 7.53 ft.lb 229 % 350 % 8485 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.2233 sq.ft.I : Cont.(S1) : F : 1.25 : 80 K : B	b
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### Three Phase Induction Motor - Squirrel Cage

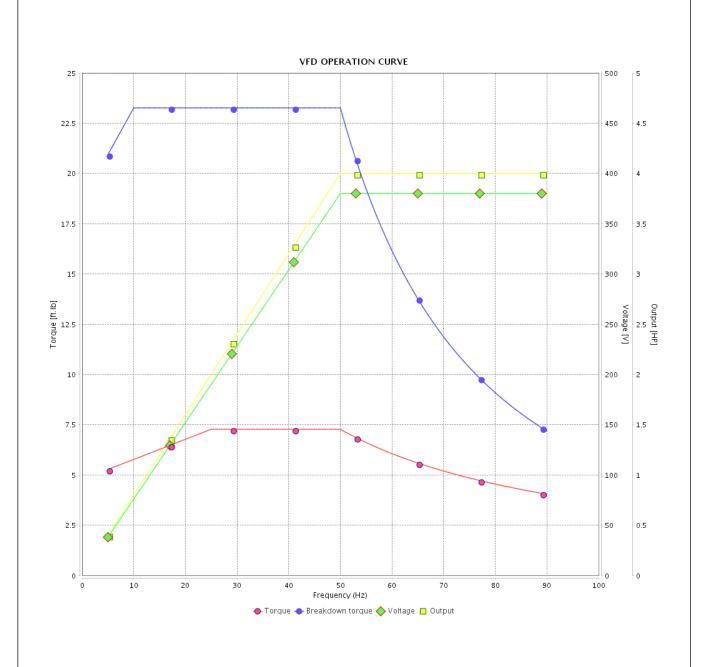


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431312

Phase

Catalog #: 00536ST3QIE184T-W22



Performance	: 3	80 V 50 Hz 2P IE3					
Rated current	Rated current : 5.79 A		Moment o	f inertia (J)	: 0.2233 sq.ft.	.lb	
LRC	: 7	.4	Duty cycle	<b>:</b>	: Cont.(S1)		
Rated torque	: 7	.27 ft.lb	Insulation	class	: F		
Locked rotor torqu	ue : 2	29 %	Service fa	ctor	: 1.25		
Breakdown torque	e : 3	20 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 2	890 rpm	Design		: B		
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Customer :

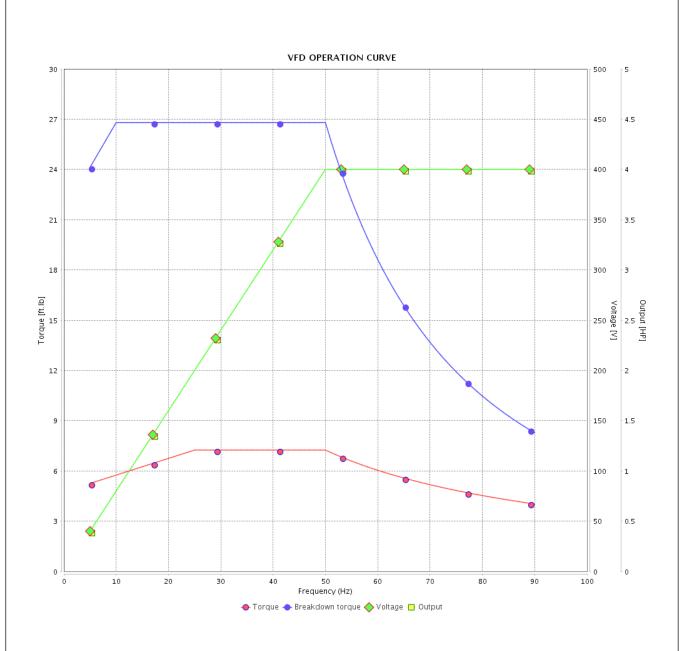
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11431312

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				,	
Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC	: 5.57 A : 8.1	Moment of inertia (J) Duty cycle		: 0.2233 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.24 ft.lb : 270 % : 370 % : 2900 rpm	Insulation class Service factor Temperature rise Design		: F : 1.25 : 80 K : B	
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### Three Phase Induction Motor - Squirrel Cage

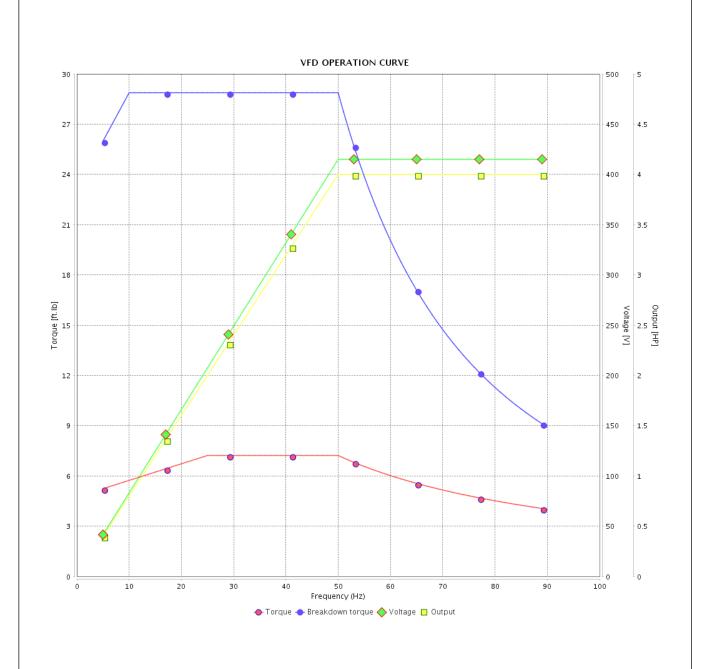


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431312

Phase

Catalog #: 00536ST3QIE184T-W22



Performance	: 4	15 V 50 Hz 2P IE3				
Rated current	Rated current : 5.43 A		Moment o	f inertia (J)	: 0.2233 sq.ft.	lb
LRC	: 8	.9	Duty cycle	;	: Cont.(S1)	
Rated torque	: 7	.22 ft.lb	Insulation	class	: F	
Locked rotor torque	e :3	00 %	Service fa	ctor	: 1.25	
Breakdown torque	: 4	00 %	Temperati	Temperature rise		
Rated speed	: 2	910 rpm	Design		: B	
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### Three Phase Induction Motor - Squirrel Cage



Customer :

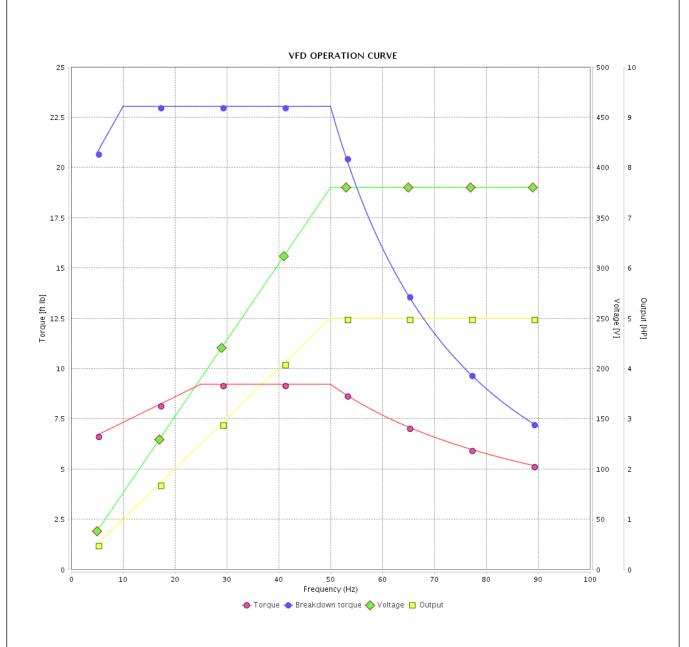
Product line : NEMA Premium Efficiency Three- Prod

Phase

Product code: 11431312

Catalog #: 00536ST3QIE184T-W22

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Performance	: 38	30 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5. : 9. que : 18 ue : 25	14 A 9 21 ft.lb 30 % 50 % 350 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.2233 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
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### Three Phase Induction Motor - Squirrel Cage

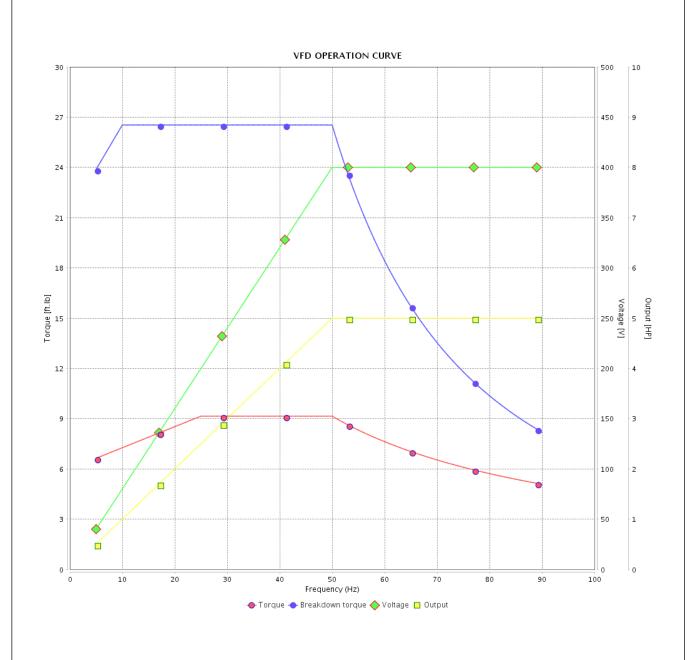


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431312

Phase

Catalog #: 00536ST3QIE184T-W22



Performance	: 4	00 V 50 Hz 2P IE2				
Rated current	: 6	.78 A	Moment o	f inertia (J)	: 0.2233 sq.ft.	.lb
LRC	: 6	.6	Duty cycle	<b>:</b>	: Cont.(S1)	
Rated torque	: 9	.15 ft.lb	Insulation	class	: F	
Locked rotor torqu	e :2	10 %	Service fa	ctor	: 1.25	
Breakdown torque	: 2	90 %	Temperatu	Temperature rise		
Rated speed	: 2	870 rpm	Design		: B	
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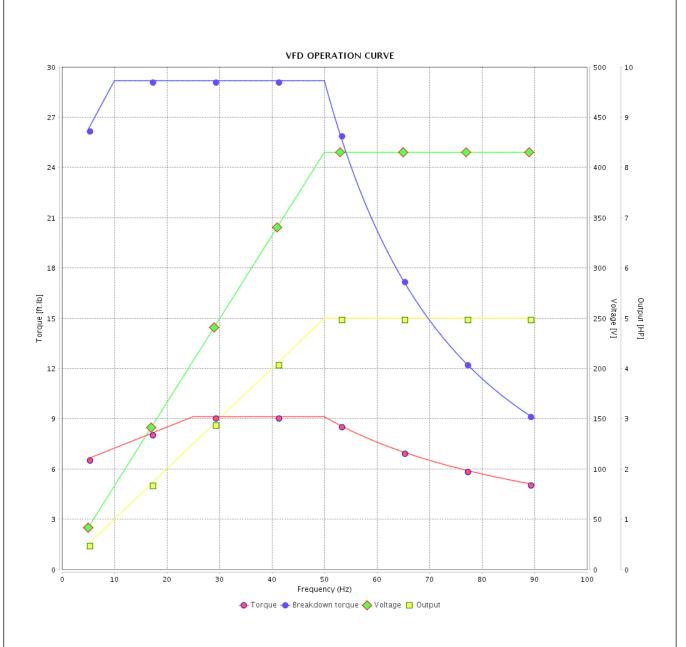
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11431312

Catalog #: 00536ST3QIE184T-W22



Performance : 415 V 50 Hz 2P IE2 Rated current : 6.61 A Moment of inertia (J) : 0.2233 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 7.2 : 9.12 ft.lb Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 2880 rpm Design : B

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