DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11431840

Catalog #: 07509ST3QIE444T-W22

Frame : 444/5T Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) : -20°C to +40°C Starting method Ambient temperature : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight³ : 1496 lb Protection degree : IP55 Moment of inertia (J) : 73.6 sq.ft.lb

i iotection acgre	C	. 11 55		IVIOITICI	it of incrtia (5)	, .,	J.0 34.11.1D	
Design		: B						
Output [HP]		75	60	60	60	75	75	75
Poles		8	8	8	8	8	8	8
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		460	380	400	415	380	400	415
Rated current [A]		93.4	95.5	95.8	94.9	114	109	106
L. R. Amperes [A]		598	525	565	607	536	567	604
LRC [A]		6.4x(Code H)	5.5x(Code	5.9x(Code H)	6.4x(Code J)	4.7x(Code E)	5.2x(Code F)	5.7x(Code
			G)					G)
No load current [A]	40.0	39.3	43.6	47.0	39.3	43.6	47.0
Rated speed [RPN	/ []	890	740	740	740	735	735	740
Slip [%]		1.11	1.33	1.33	1.33	2.00	2.00	1.33
Rated torque [ft.lb]		443	426	426	426	536	536	532
Locked rotor torque [%]		170	170	200	220	140	160	180
Breakdown torque [%]		200	210	229	250	170	190	210
Service factor		1.25	1.00	1.00	1.00	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		32s (cold)	72s (cold)	64s (cold)	61s (cold)	46s (cold)	46s (cold)	48s (cold)
		18s (hot)	40s (hot)	36s (hot)	34s (hot)	26s (hot)	26s (hot)	27s (hot)
Noise level ²		63.0 dB(A)	59.0 dB(A)	59.0 dB(A)	59.0 dB(A)	59.0 dB(A)	59.0 dB(A)	59.0 dB(A)
	25%							
Efficiency (%)	50%	93.0	92.6	91.3	91.2	91.5	92.0	92.0
Liliciency (70)	75%	93.6	93.0	92.6	92.5	91.7	92.4	92.4
	100%	93.6	93.0	92.9	92.9	91.7	92.4	92.4
	25%							
Power Factor	50%	0.64	0.56	0.52	0.49	0.70	0.66	0.63
FUWEI FACIOI	75%	0.74	0.69	0.65	0.62	0.77	0.75	0.73
	100%	0.79	0.77	0.73	0.71	0.80	0.79	0.78

Non drive end Drive end Foundation loads

Bearing type 6319 C3 6316 C3 Max. traction : 2231 lb Sealing Inpro/Seal Inpro/Seal : 3727 lb Max. compression

Lubrication interval 17000 h 20000 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.

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			1 / 36	

Three Phase Induction Motor - Squirrel Cage



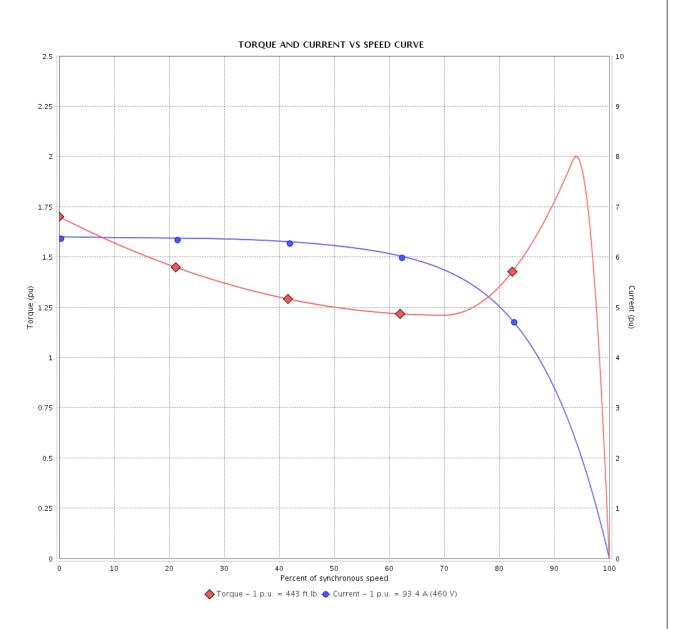
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 07509ST3QIE444T-W22

11431840



Performance : 460 V 60 Hz 8P Rated current : 93.4 A Moment of inertia (J) : 73.6 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 443 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 170 % : 1.25 Breakdown torque : 200 % Temperature rise : 80 K Rated speed : 890 rpm Design : B

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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			2 / 36	



Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11431840 Catalog #: 07509ST3QIE444T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 (pd) 1.25 Current 0.5 0.25

Performance : 380 V 50 Hz 8P IE3 Rated current : 95.5 A Moment of inertia (J) : 73.6 sq.ft.lb **LRC** : 5.5 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 426 ft.lb Locked rotor torque : 170 % Service factor : 1.00 Breakdown torque : 210 % Temperature rise : 80 K : B Rated speed : 740 rpm Design

Percent of synchronous speed

◆ Torque – 1 p.u. = 426 ft.lb ◆ Current – 1 p.u. = 95.5 A (380 V)

Locked rotor time : 72s (cold) 40s (hot)

		` , ` ,			
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			3 / 36	

Three Phase Induction Motor - Squirrel Cage



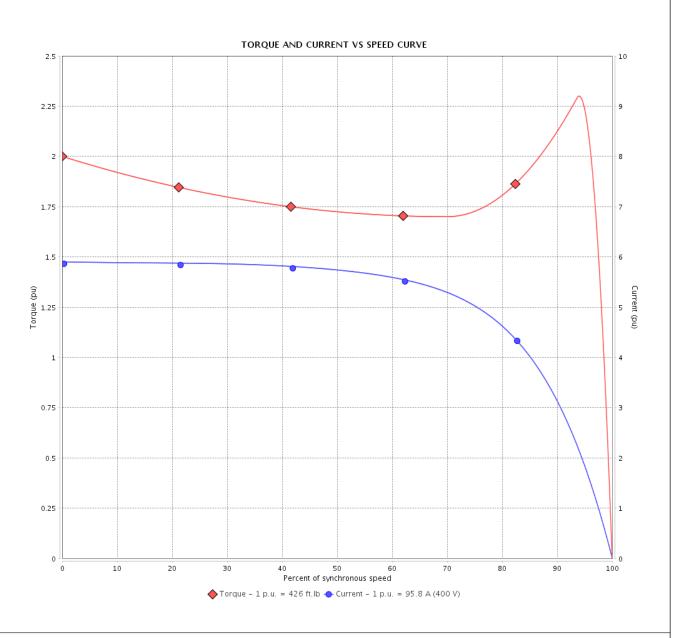
Customer :

Product line : NEMA Premium Efficiency Three- P

Phase

Product code: 11431840

Catalog #: 07509ST3QIE444T-W22



Performance	: 400 V 50 Hz 8P IE3		
Rated current	: 95.8 A	Moment of inertia (J)	: 73.6 sq.ft.lb
LRC	: 5.9	Duty cycle	: Cont.(S1)
Rated torque	: 426 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 740 rpm	Design	: B
<u> </u>			

Locked rotor time : 64s (cold) 36s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			4 / 36	



Revision

Page

5/36

Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11431840 Catalog #: 07509ST3QIE444T-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. = 426 ft.lb ◆ Current - 1 p.u. = 94.9 A (415 V) Performance : 415 V 50 Hz 8P IE3 Rated current : 94.9 A Moment of inertia (J) : 73.6 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 426 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 740 rpm Design : B Locked rotor time : 61s (cold) 34s (hot) Rev. Performed Checked Date **Changes Summary**

Performed by Checked by

Date

13/04/2022

Three Phase Induction Motor - Squirrel Cage



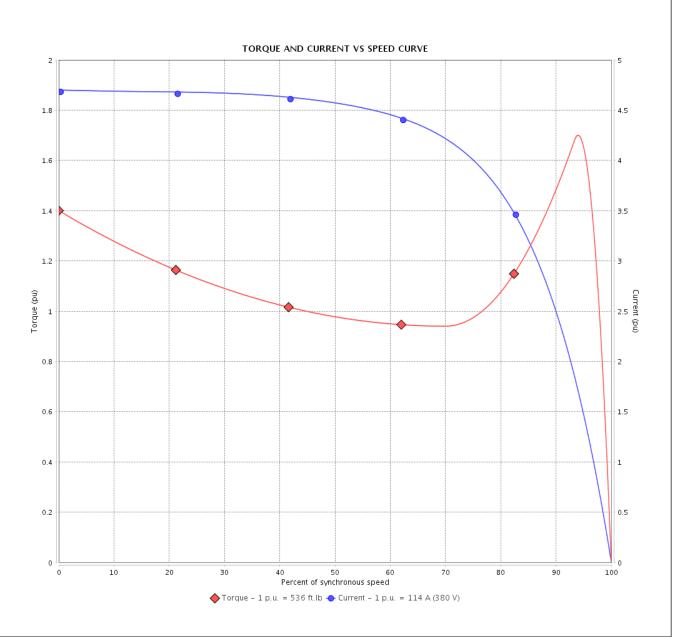
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 11431840

Catalog #: 07509ST3QIE444T-W22



Performance	: 380 V 50 Hz 8P IE2		
Rated current	: 114 A	Moment of inertia (J)	: 73.6 sq.ft.lb
LRC Rated torque	: 4.7 : 536 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F
Locked rotor torque	: 140 %	Service factor	. F : 1.00
Breakdown torque	: 170 %	Temperature rise	: 105 K
Rated speed	: 735 rpm	Design	: B
Locked roter time	: 46s (sold) 26s (hot)		

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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			6 / 36	



Revision

Page 7 / 36

Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11431840 Catalog #: 07509ST3QIE444T-W22 TORQUE AND CURRENT VS SPEED CURVE 1.8 1.4 1.2 Current Torque (pu) 0.8 0.4 0.2 Percent of synchronous speed ◆ Torque - 1 p.u. = 536 ft.lb ◆ Current - 1 p.u. = 109 A (400 V) Performance : 400 V 50 Hz 8P IE2 Rated current : 109 A Moment of inertia (J) : 73.6 sq.ft.lb **LRC** : 5.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 536 ft.lb : F : 160 % Locked rotor torque Service factor : 1.00 : 105 K Breakdown torque : 190 % Temperature rise Rated speed : 735 rpm Design : B Locked rotor time : 46s (cold) 26s (hot) Rev. Performed Checked Date **Changes Summary** Performed by

Checked by

Date

13/04/2022

Three Phase Induction Motor - Squirrel Cage



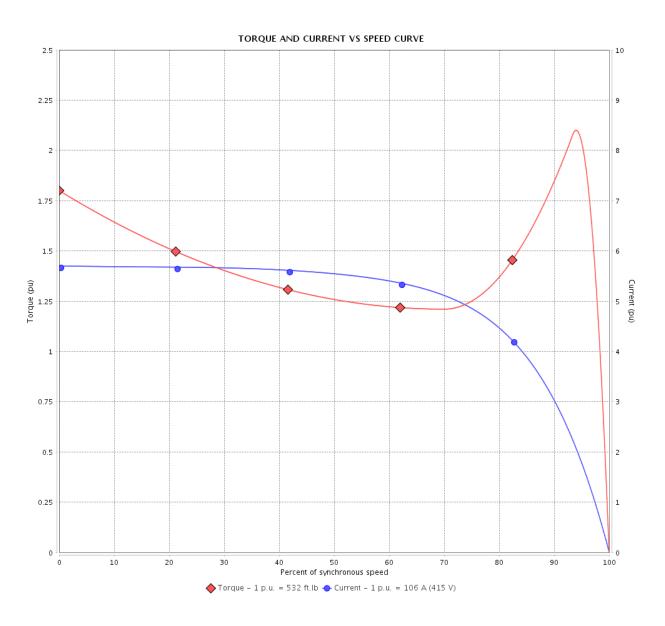
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11431840

Catalog #: 07509ST3QIE444T-W22



Performance	: 415 V 50 Hz 8P IE2		
Rated current	: 106 A	Moment of inertia (J)	: 73.6 sq.ft.lb
Rated torque	: 5.7 : 532 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 105 K
Rated speed	: 740 rpm	Design	: B

Locked rotor time : 48s (cold) 27s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			8 / 36	

Three Phase Induction Motor - Squirrel Cage

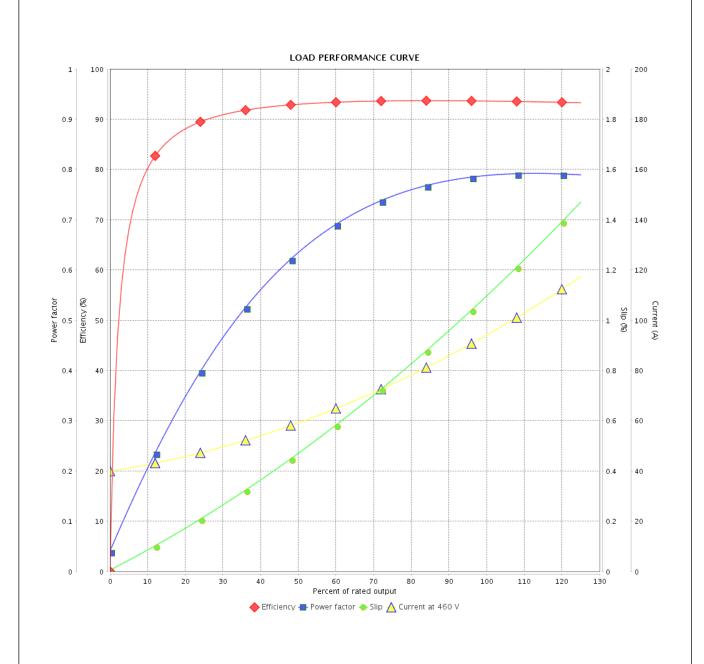


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431840

Phase

Catalog #: 07509ST3QIE444T-W22



Performance	: 4	460 V 60 Hz 8P				
Rated current	: 9	93.4 A	Moment o	Moment of inertia (J)		
LRC	: (6.4	Duty cycle)	: Cont.(S1)	
Rated torque	: 4	443 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : '	170 %	Service fa	ctor	: 1.25	
Breakdown torque	: 2	200 %	Temperati	ıre rise	: 80 K	
Rated speed	: 8	890 rpm	Design		: B	
Rev.		Changes Summa	ary	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				9 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer :

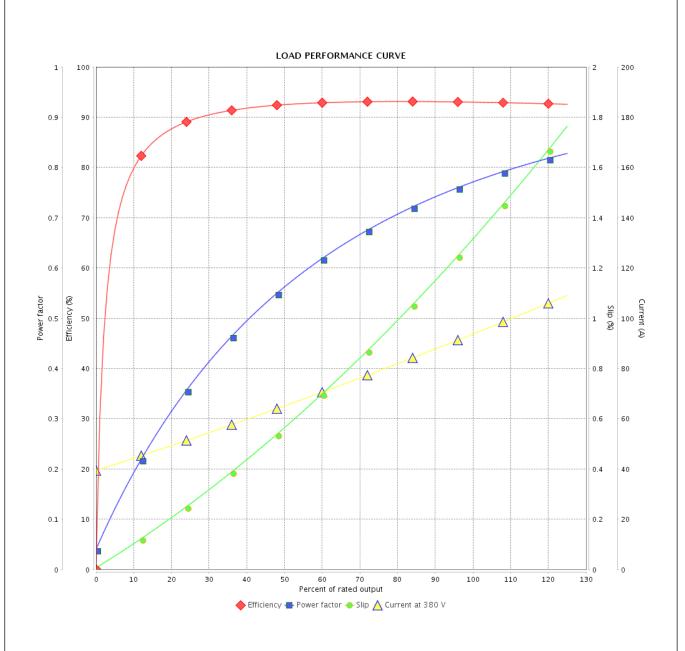
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11431840

Catalog #: 07509ST3QIE444T-W22

10/36



Performance	: 380 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 95.5 A : 5.5 : 426 ft.lb : 170 % : 210 % : 740 rpm	Moment of inertia (J Duty cycle Insulation class Service factor Temperature rise Design	J)	: 73.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary	Perfor	rmed	Checked	Date
Performed by					
Checked by				Page	Revision

13/04/2022

Date

Three Phase Induction Motor - Squirrel Cage

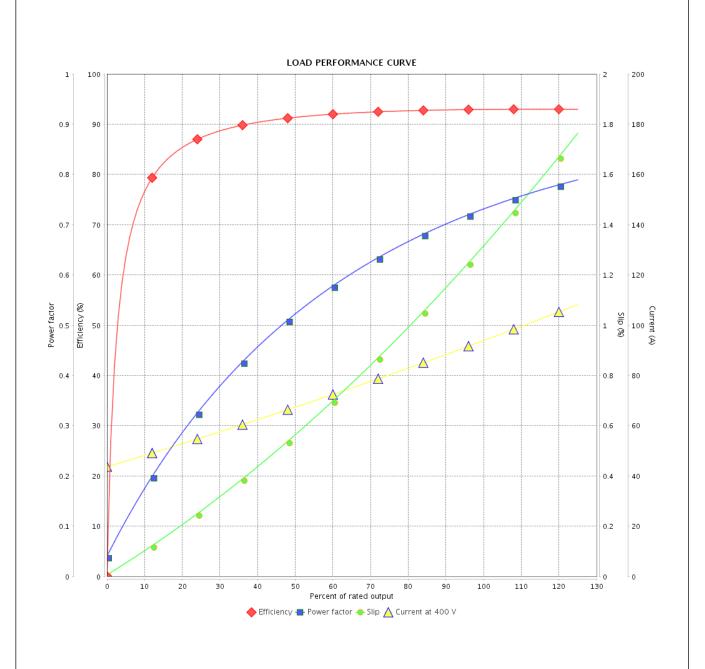


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431840

Phase

Catalog #: 07509ST3QIE444T-W22



Performance	: 400 V 50 Hz 8P IE3					
Rated current : 95.8 A		Moment o	f inertia (J)	: 73.6 sq.ft.lb		
LRC	:	5.9	Duty cycle	}	: Cont.(S1)	
Rated torque	:	426 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	200 %	Service fa	ctor	: 1.00	
Breakdown torque	:	: 229 % Temperature rise		ıre rise	: 80 K	
Rated speed	:	740 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				11 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer :

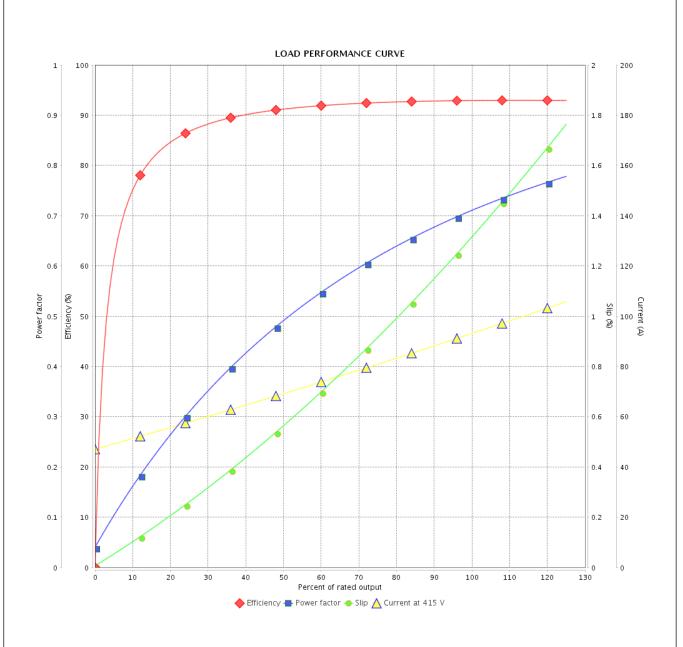
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11431840

Catalog #: 07509ST3QIE444T-W22

12/36



Performance	erformance : 415 V 50 Hz 8P IE3				
Rated current : 94.9 A Moment of LRC : 6.4 Duty cycle Rated torque : 426 ft.lb Insulation of Service factor torque : 220 % Service factor torque : 250 % Temperature Rated speed : 740 rpm Design		class actor	: 73.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B		
Rev.	Changes Summary		Performed	Checked	Date
Performed by				Davis	Davisies
Checked by				Page	Revision

13/04/2022

Date

Three Phase Induction Motor - Squirrel Cage

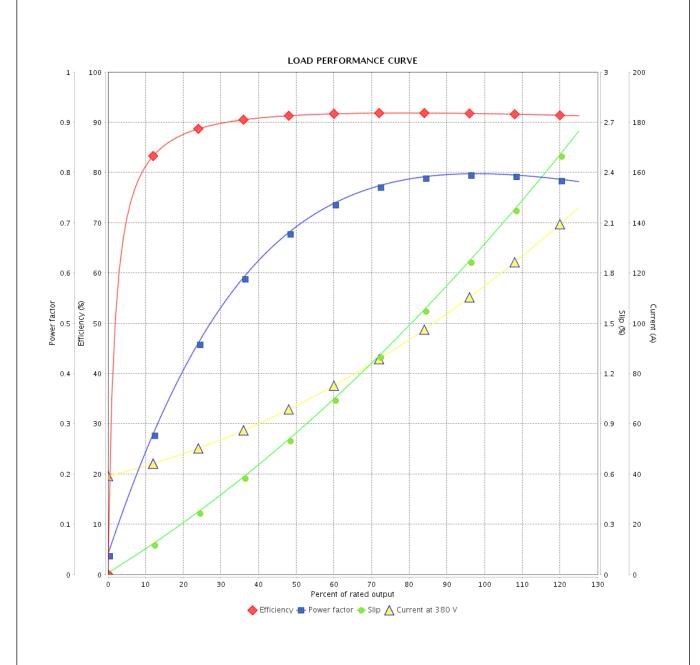


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431840

Phase

Catalog #: 07509ST3QIE444T-W22



Performance	: 3	380 V 50 Hz 8P IE2				
Rated current	Rated current : 114 A		Moment o	f inertia (J)	: 73.6 sq.ft.lb	
LRC	: 4	.7	Duty cycle	;	: Cont.(S1)	
Rated torque	: 5	36 ft.lb	Insulation	class	: F	
Locked rotor torque	e :1	40 %	Service fa	ctor	: 1.00	
Breakdown torque	: 1	70 % Temperature rise		ıre rise	: 105 K	
Rated speed	: 7	35 rpm	Design		: B	
Rev.		Changes Summa	ry	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				13 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer :

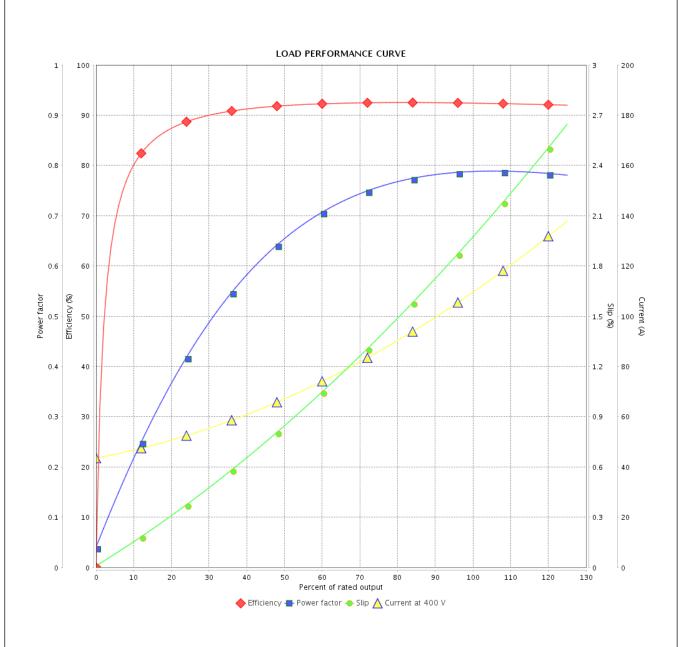
Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11431840

Catalog #: 07509ST3QIE444T-W22

14/36



Performance	: 400 V 50 Hz 8P IE2	: 400 V 50 Hz 8P IE2				
LRC : 5.2 Duty cycle Rated torque : 536 ft.lb Insulation c Locked rotor torque : 160 % Service fact		ation class : F ice factor : 1.00 perature rise : 105 K				
Rev.	Changes Summary		Performed	Checked	Date	
Performed by						
Checked by				Page	Revision	

13/04/2022

Date

Three Phase Induction Motor - Squirrel Cage



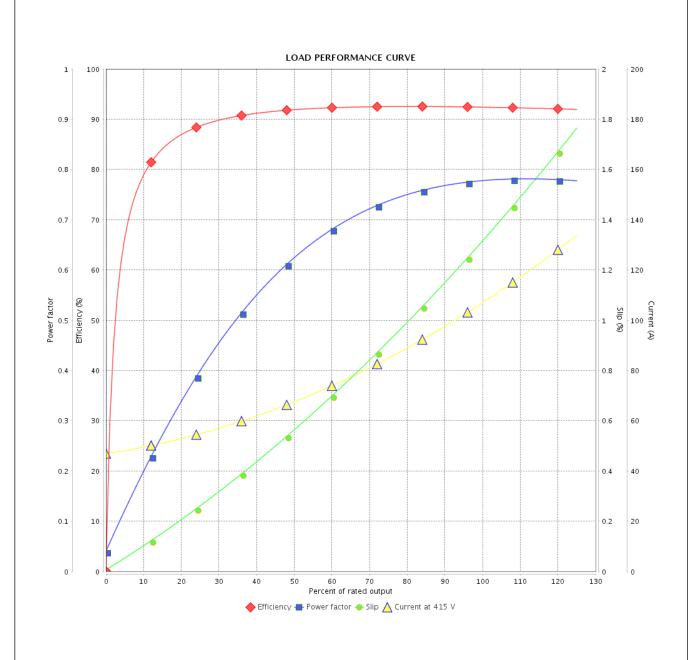
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431840

Phase

Catalog #: 07509ST3QIE444T-W22

15/36



Performance	: 415 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 106 A : 5.7 : 532 ft.lb : 180 % : 210 % : 740 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 73.6 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

Date

Three Phase Induction Motor - Squirrel Cage

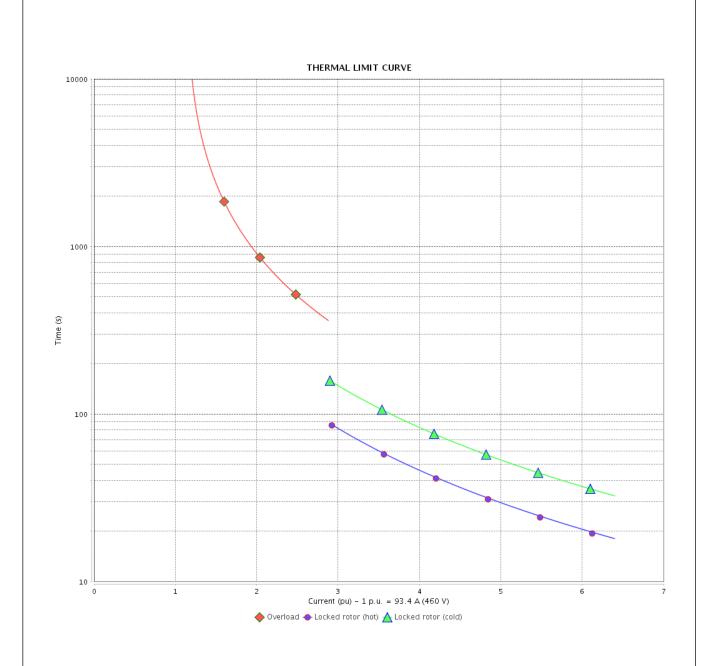


Customer	:				_	
Product line		NEMA Premium Efficiency hase		Product code :	11431840 07509ST3QIE	444T-W22
Performance Rated current LRC Rated torque Locked rotor torqu Breakdown torque Rated speed	: 93 : 6. : 44 e : 17 : 20	60 V 60 Hz 8P 3.4 A 4 43 ft.lb 70 % 90 rpm	Moment or Duty cycle Insulation Service fa Temperatu Design	class ctor	: 73.6 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
Performed by Checked by	40/04/0222				Page	Revision

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			17 / 36	

Three Phase Induction Motor - Squirrel Cage

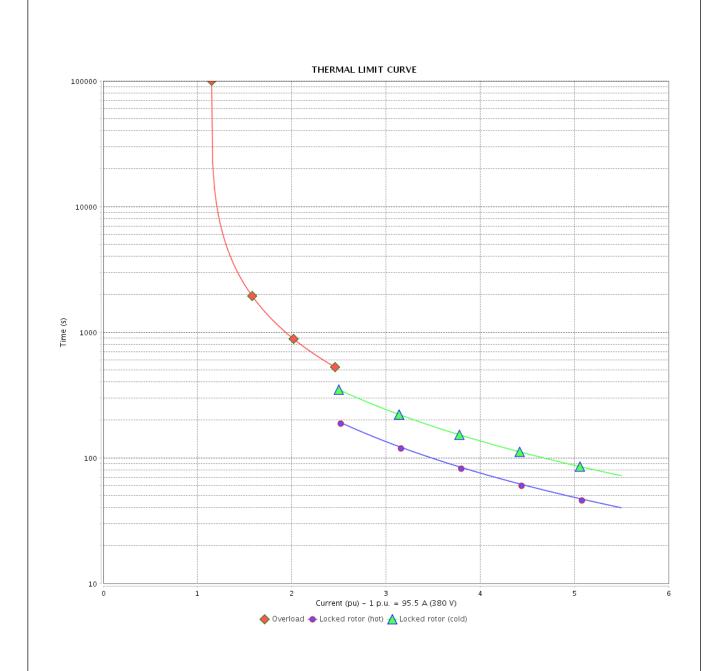


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11431840 07509ST3QIE	444T-W22
Performance		: 380 V 50 Hz 8P IE3				
Rated current LRC		: 95.5 A : 5.5	Duty cycle		: 73.6 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 426 ft.lb : 170 %	Insulation Service fa		: F : 1.00	
Breakdown torqu Rated speed	ue	: 210 % : 740 rpm	Temperat Design		: 80 K : B	
Heating constan		. τ το τριτι	Design		. D	
Cooling constant						
Rev.		Changes Summary	ı	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				18 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer :



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			19 / 36	

Three Phase Induction Motor - Squirrel Cage

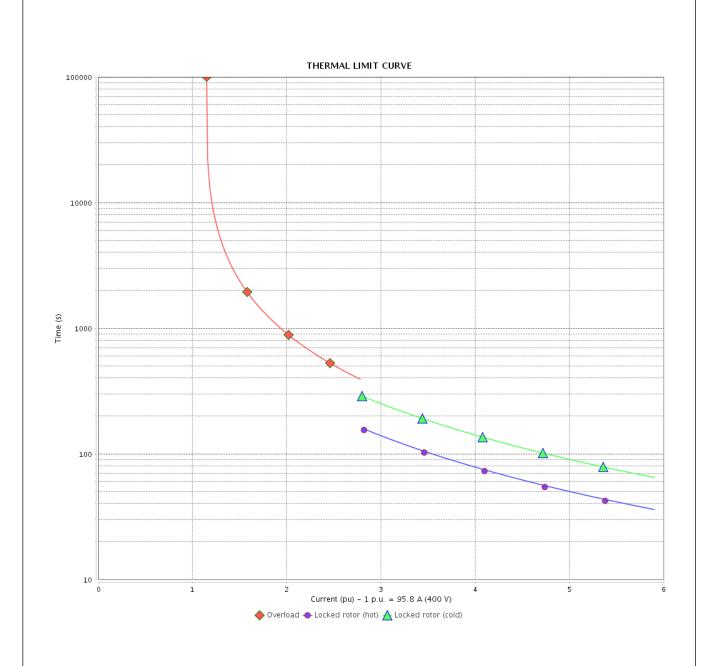


					<u> </u>
Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code :	11431840	-444T W22
			Catalog # :	07509ST3QIE	-4441-VVZZ
Performance	: 400 V 50 Hz 8P IE3				
Rated current LRC	: 95.8 A : 5.9	Moment o	f inertia (J)	: 73.6 sq.ft.lb : Cont.(S1)	
Rated torque	: 426 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque	: 200 % : 229 %	Service fa Temperatu		: 1.00 : 80 K	
Rated speed	: 740 rpm	Design		: B	
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
INGV.	Changes Summary		i enomieu	OHEUNEU	Dale
Performed by					
Checked by				Page	Revision
Date 13/04/20	122 I			20 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer :



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			21 / 36	

Three Phase Induction Motor - Squirrel Cage

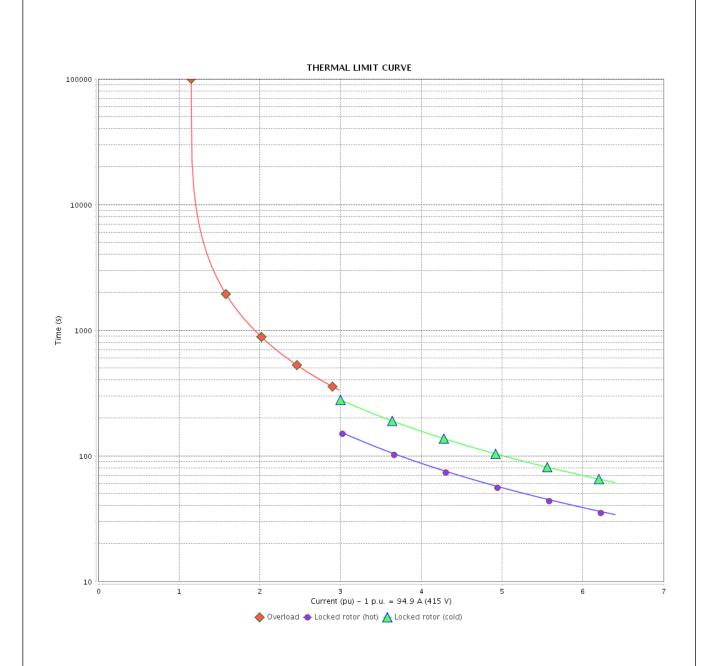


Customer	:				
Product line	: NEMA Premium Efficie Phase		Product code : Catalog # :	11431840 07509ST3QII	≣444T-W22
Performance	: 415 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 94.9 A : 6.4 : 426 ft.lb : 220 % : 250 % : 740 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 73.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant Rev.	Changes Summary		Performed	Checked	Date
Performed by Checked by				Page	Revision

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			23 / 36	

Three Phase Induction Motor - Squirrel Cage

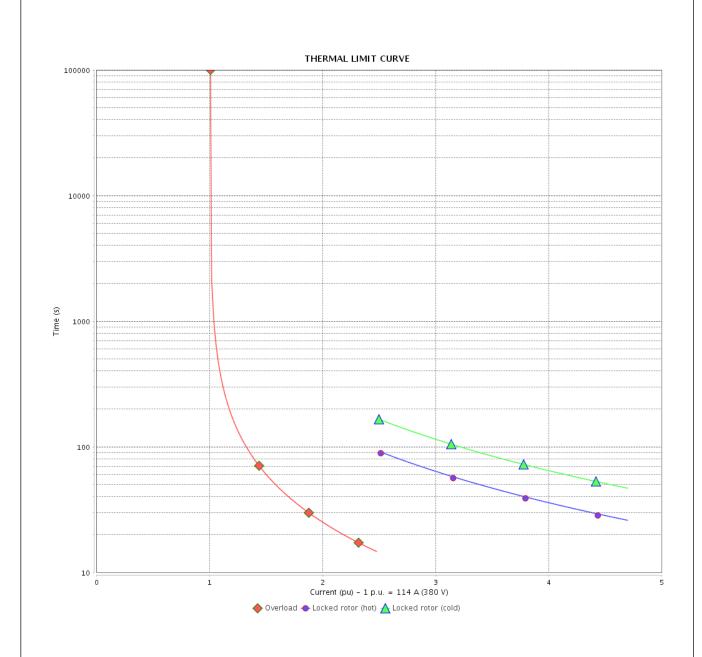


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11431840 07509ST3QIE	E444T-W22
Performance		: 380 V 50 Hz 8P IE2				
Rated current		: 114 A	Moment of	of inertia (J)	: 73.6 sq.ft.lb	
LRC Rated torque		: 4.7 : 536 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que	: 140 %	Service fa	actor	: 1.00	
Breakdown torqu Rated speed		: 170 % : 735 rpm	Temperat Design	ure rise	: 105 K : B	
Heating constan	t					
Cooling constant	t					
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				24 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			25 / 36	

Three Phase Induction Motor - Squirrel Cage

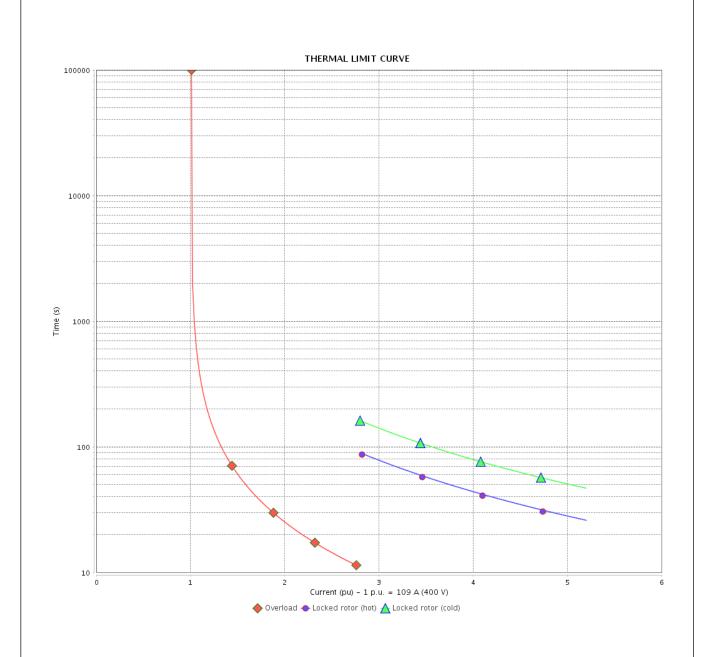


Customer		:			·	
Product line		: NEMA Premium Efficiency [*] Phase		Product code : Catalog # :	11431840 07509ST3QI	E444T-W22
Dorformana		400 V 50 Hz 9D IF2				
Performance Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: : : que :	400 V 50 Hz 8P IE2 109 A 5.2 536 ft.lb 160 % 190 % 735 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 73.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
Performed by Checked by Date	13/04/2022				Page 26 / 36	Revision

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			27 / 36	

Three Phase Induction Motor - Squirrel Cage

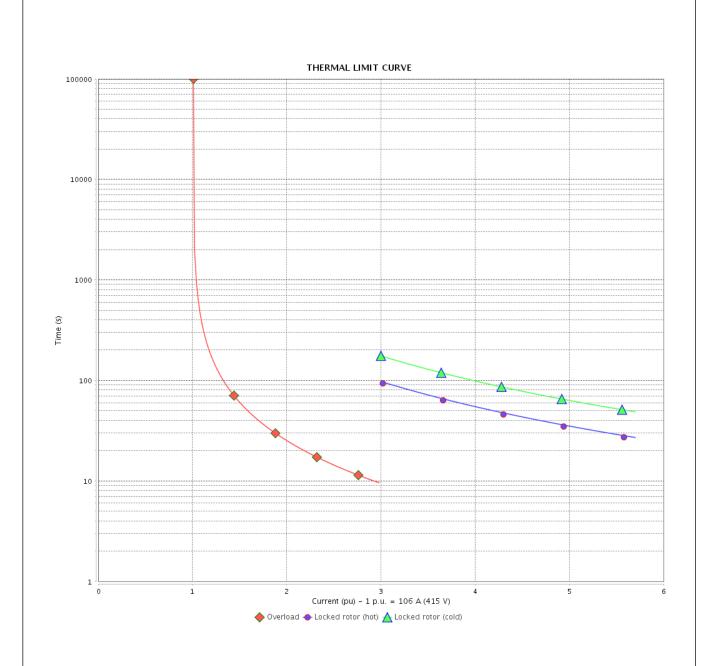


Customer		:				
Product line		: NEMA Premium Efficiency [*] Phase		Product code : Catalog # :	11431840 07509ST3QI	E444T-W22
Performance Rated current		415 V 50 Hz 8P IE2 106 A	Moment	f inertia (J)	: 73.6 sq.ft.lb	
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: que : ue :	5.7 532 ft.lb 180 % 210 % 740 rpm	Duty cycle Insulation Service fa Temperatu Design	class ctor	: Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
Performed by Checked by Date	13/04/2022				Page 28 / 36	Revision

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			29 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer :

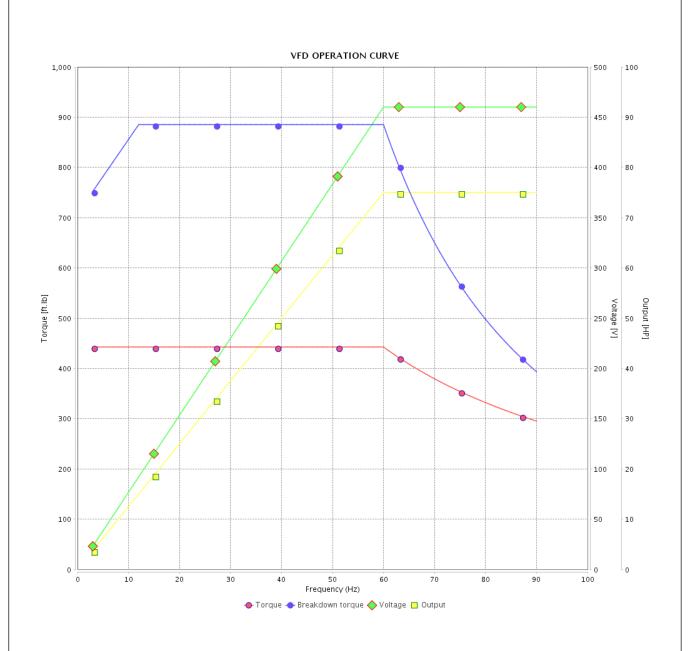
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11431840

Catalog #: 07509ST3QIE444T-W22

30 / 36



Performance	: 460 V 60 Hz 8P				
Rated current	: 93.4 A	Moment o	f inertia (J)	: 73.6 sq.ft.lb	
LRC	: 6.4	Duty cycle)	: Cont.(S1)	
Rated torque	: 443 ft.lb	Insulation	class	: F	
Locked rotor torqu	ıe : 170 %	Service fa	ctor	: 1.25	
Breakdown torque	: 200 %	Temperati	ıre rise	: 80 K	
Rated speed	: 890 rpm	Design		: B	
Rev.	Changes Summar	ry	Performed	Checked	Date
Performed by					
Checked by				Page	Revision

13/04/2022

Date

Three Phase Induction Motor - Squirrel Cage

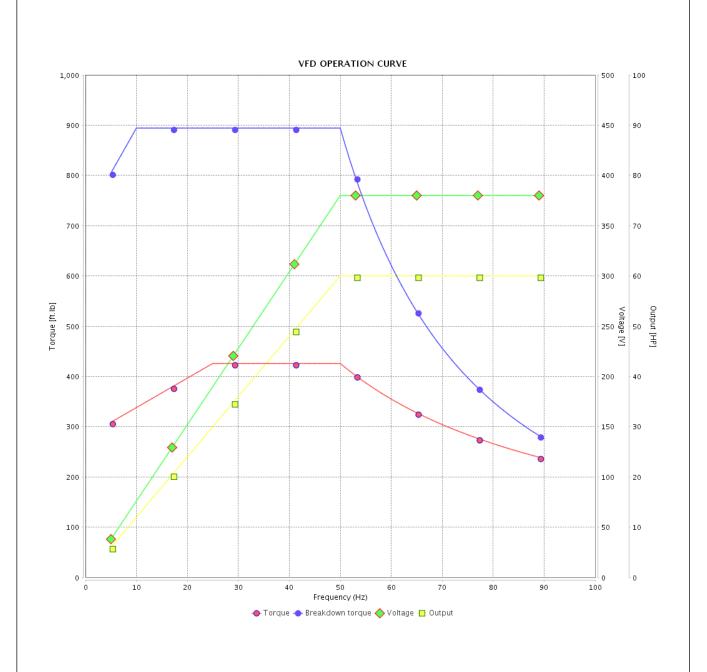


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 07509ST3QIE444T-W22

11431840



Performance	: 3	80 V 50 Hz 8P IE3	•			
Rated current	: 9	5.5 A	Moment o	f inertia (J)	: 73.6 sq.ft.lb	
LRC	: 5	5.5	Duty cycle	;	: Cont.(S1)	
Rated torque	: 4	26 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 1	70 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	10 %	Temperati	ıre rise	: 80 K	
Rated speed	: 7	'40 rpm	Design		: B	
Rev.		Changes Summa	ry	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022	7			31 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer :

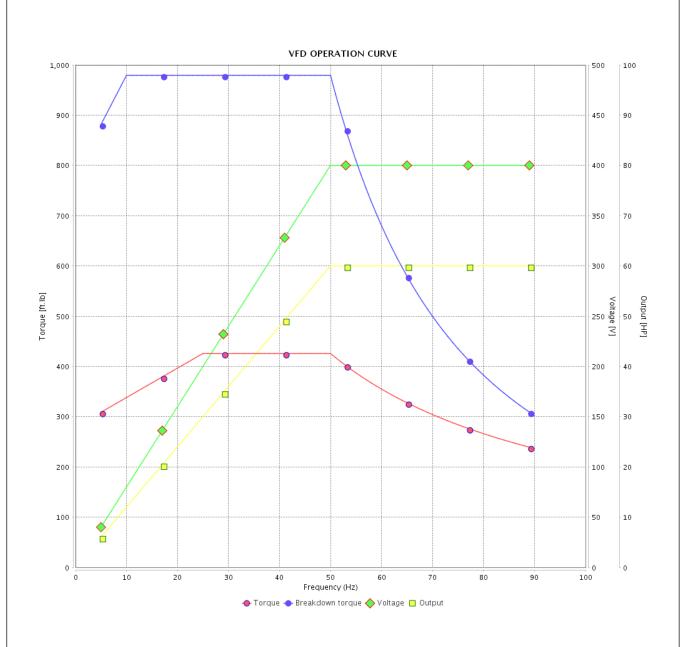
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11431840

Catalog #: 07509ST3QIE444T-W22

32 / 36



Df	. 400 V 50 LI- 0D IE0	·			
Performance	: 400 V 50 Hz 8P IE3				
Rated current	: 95.8 A	Moment of inertia (J)	: 73.6 sq.ft.lb	
LRC Rated torque	: 5.9 : 426 ft.lb	Duty cycle Insulation class		: Cont.(S1) : F	
Locked rotor torque	: 200 %	Service factor		: 1.00	
Breakdown torque Rated speed	: 229 % : 740 rpm	Temperature rise Design		: 80 K : B	
Rev.	Changes Summary	Perfo	rmed	Checked	Date
Performed by					
Checked by				Page	Revision

13/04/2022

Date

Three Phase Induction Motor - Squirrel Cage

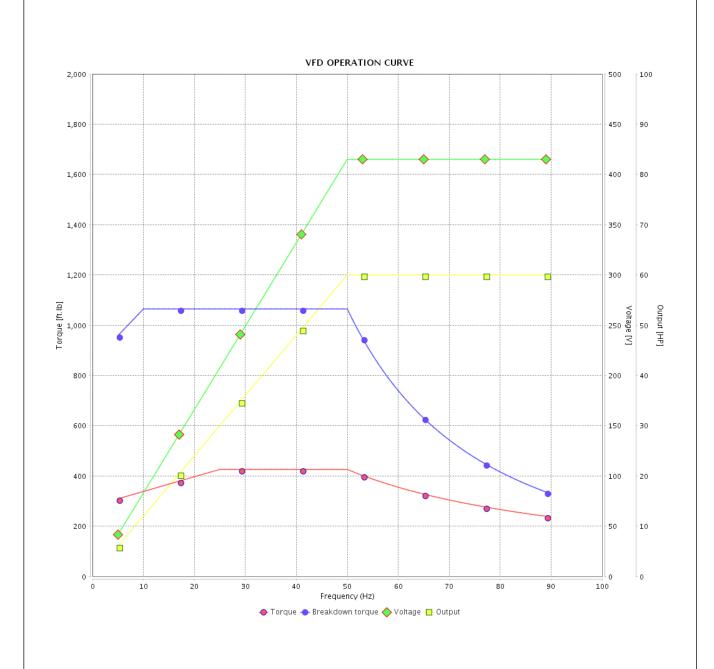


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431840

Phase

Catalog #: 07509ST3QIE444T-W22



5 (45.7.50.11.00.150				
Performance	: 4	15 V 50 Hz 8P IE3				
Rated current	: 94	4.9 A	Moment o	f inertia (J)	: 73.6 sq.ft.lb	
LRC	: 6.	4	Duty cycle	;	: Cont.(S1)	
Rated torque	: 42	26 ft.lb	Insulation	class	: F	
Locked rotor torqu		20 %	Service fa		: 1.00	
Breakdown torque	: 25	50 %	Temperati	ıre rise	: 80 K	
Rated speed	: 74	40 rpm	Design		: B	
Rev.		Changes Summary	'	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				33 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

13/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

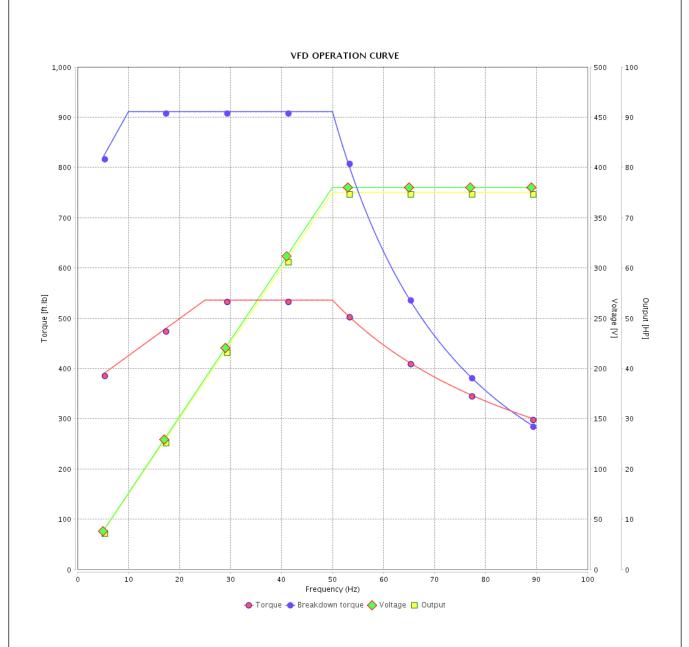
Product code: 11431840

Catalog #: 07509ST3QIE444T-W22

Page

34 / 36

Revision



Performance : 380 V 50 Hz 8P IE2 : 114 A Rated current Moment of inertia (J) : 73.6 sq.ft.lb **LRC** : 4.7 Duty cycle : Cont.(S1) : 536 ft.lb Insulation class Rated torque : F Locked rotor torque : 140 % Service factor : 1.00 Breakdown torque : 170 % Temperature rise : 105 K Rated speed : 735 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



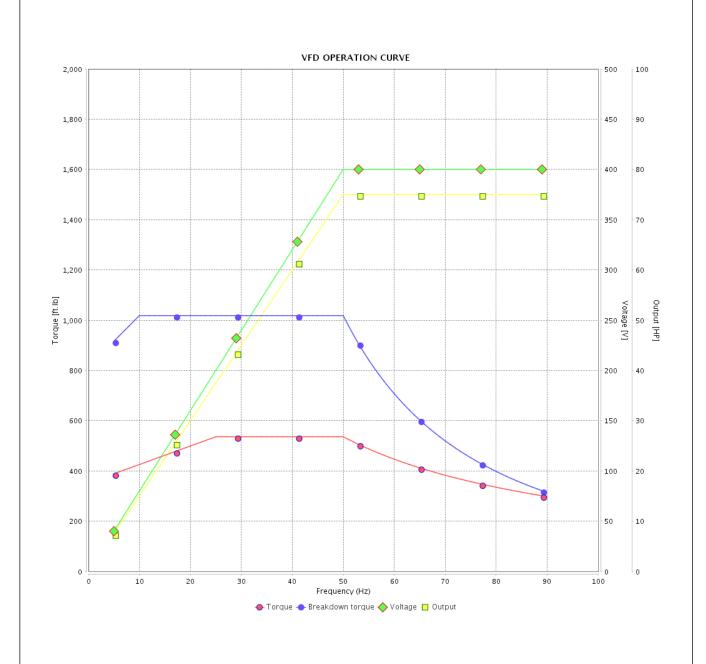
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431840

Phase

Catalog #: 07509ST3QIE444T-W22

35 / 36



Performance	: 400 V 50 Hz 8P IE2				
Rated current LRC Rated torque	: 109 A : 5.2 : 536 ft.lb	Moment of iner Duty cycle Insulation class	, ,	: 73.6 sq.ft.lb : Cont.(S1) : F	
Locked rotor torque Breakdown torque Rated speed	: 160 % : 190 % : 735 rpm	Service factor Temperature ri		: 1.00 : 105 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

13/04/2022

Date

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

13/04/2022

Product line : NEMA Premium Efficiency Three- Product

Phase

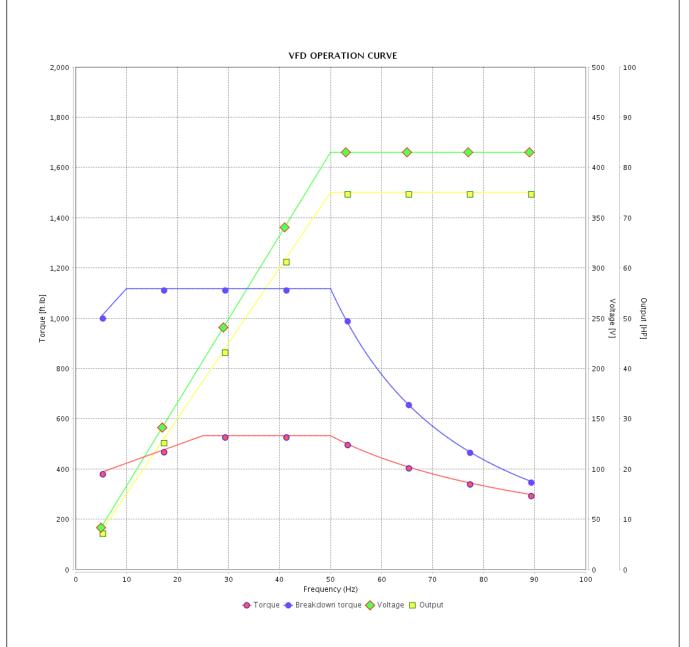
Product code: 11431840

Catalog #: 07509ST3QIE444T-W22

Page

36 / 36

Revision



Performance	: 4	415 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		106 A 5.7 532 ft.lb 180 % 210 % 740 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 73.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Rev.	Changes Summary			Performed	Checked	Date
Performed by						

