DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11431708

Catalog #: 05012ST3QIE365T-W22

Frame : 364/5T 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 · 912 lb

Altitude				Approx	Approx. weight : 912 lb			
Protection degre	е	: IP55		Momer	nt of inertia (J)) : 3	2.4 sq.ft.lb	
Design		: B						
Output [HP]		50	40	40	40	50	50	50
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]		57.4	57.7	55.5	53.5	70.5	66.4	64.8
L. R. Amperes [A]		367	358	377	396	345	365	389
LRC [A]		6.4x(Code	6.2x(Code	6.8x(Code H)	7.4x(Code J)	4.9x(Code E)	5.5x(Code F)	6.0x(Code F)
		G)	G)					
No load current [A	.]	20.0	19.8	21.1	22.1	19.8	21.1	22.1
Rated speed [RPN	Л]	1180	980	980	985	970	975	980
Slip [%]		1.67	2.00	2.00	1.50	3.00	2.50	2.00
Rated torque [ft.lb]		223	214	214	213	271	269	268
Locked rotor torqu	ie [%]	200	200	229	250	160	180	200
Breakdown torque	: [%]	240	240	260	290	190	210	229
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	80 K	80 K
Locked rotor time		32s (cold)	27s (cold)	27s (cold)	27s (cold)	27s (cold)	27s (cold)	27s (cold)
		18s (hot)	15s (hot)	15s (hot)	15s (hot)	15s (hot)	15s (hot)	15s (hot)
Noise level ²		66.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)
	25%							
Efficiency (%)	50%	93.6	92.7	92.7	92.6	93.0	93.0	93.0
Emcleticy (%)	75%	94.1	92.8	93.1	93.1	92.4	93.0	93.0
	100%	94.1	92.9	92.9	92.9	91.7	92.4	92.4
		1	1	1			1	1

Drive end Non drive end Foundation loads

0.70

0.81

0.84

6314 C3 Bearing type 6314 C3 Max. traction : 1653 lb Sealing Inpro/Seal Inpro/Seal : 2565 lb Max. compression

0.72

0.82

0.85

17000 h Lubricant amount 27 g 27 g Mobil Polyrex EM Lubricant type

0.74

0.83

0.86

17000 h

25%

50%

75%

100%

Notes

Power Factor

Lubrication interval

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.

0.77

0.84

0.87

0.66

0.79

0.84

0.77

0.83

0.87

0.74

0.83

0.86

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			1 / 36	

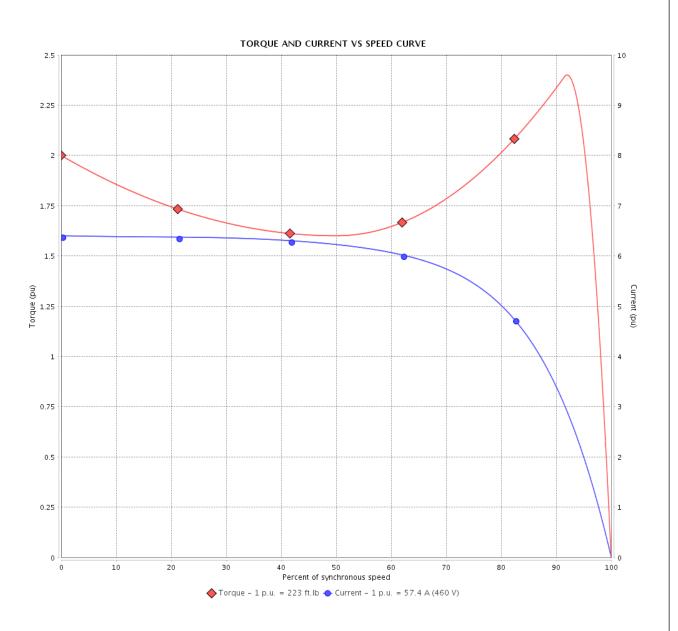
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11431708

Catalog #: 05012ST3QIE365T-W22



Performance : 460 V 60 Hz 6P Rated current : 57.4 A Moment of inertia (J) : 32.4 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) Insulation class Rated torque : 223 ft.lb : F Service factor Locked rotor torque : 200 % : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1180 rpm Design : B

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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			2 / 36	

Three Phase Induction Motor - Squirrel Cage

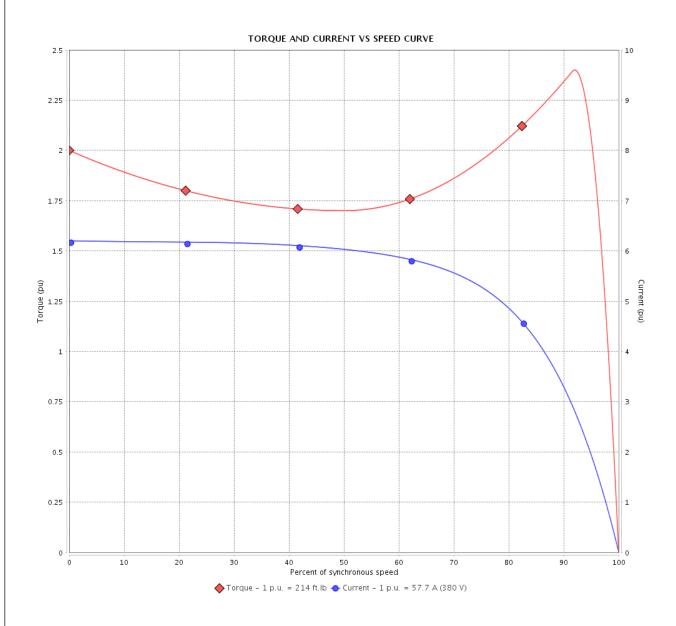


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11431708

Phase

Catalog #: 05012ST3QIE365T-W22



Performance	: 380 V 50 Hz 6P IE3			
Rated current	: 57.7 A	Moment of inertia (J)	: 32.4 sq.ft.lb	
LRC	: 6.2	Duty cycle	: Cont.(S1)	
Rated torque	: 214 ft.lb	Insulation class	: F	
Locked rotor torque	: 200 %	Service factor	: 1.00	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 980 rpm	Design	: B	

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

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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			3 / 36	

Three Phase Induction Motor - Squirrel Cage

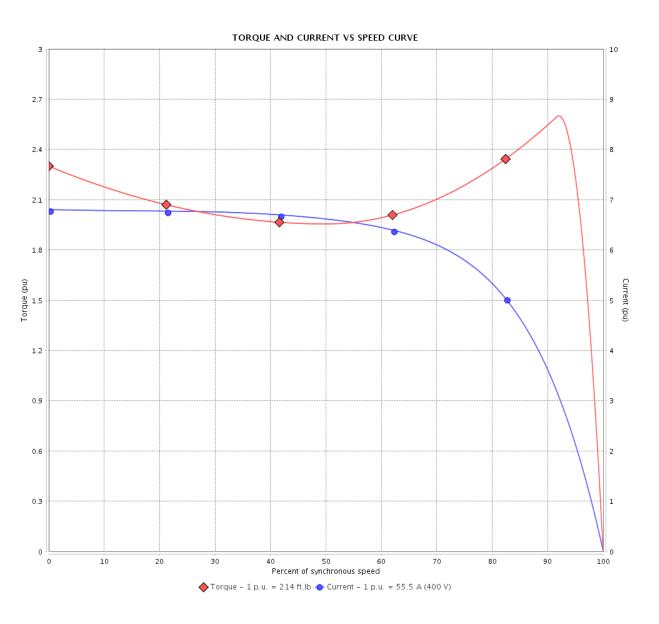


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11431708

Phase

Catalog # : 05012ST3QIE365T-W22



Performance	: 400 V 50 Hz 6P IE3			
Rated current	: 55.5 A	Moment of inertia (J)	: 32.4 sq.ft.lb	
LRC	: 6.8	Duty cycle	: Cont.(S1)	
Rated torque	: 214 ft.lb	Insulation class	: F	
Locked rotor torque	: 229 %	Service factor	: 1.00	
Breakdown torque	: 260 %	Temperature rise	: 80 K	
Rated speed	: 980 rpm	Design	: B	

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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			4 / 36	



Revision

Page

5/36

Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11431708 Catalog #: 05012ST3QIE365T-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. = 213 ft.lb ◆ Current - 1 p.u. = 53.5 A (415 V) Performance : 415 V 50 Hz 6P IE3 Rated current : 53.5 A Moment of inertia (J) : 32.4 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) Insulation class Rated torque : 213 ft.lb : F Locked rotor torque : 250 % Service factor : 1.00 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 985 rpm Design : B Locked rotor time : 27s (cold) 15s (hot) Rev. Performed Checked Date **Changes Summary**

Performed by Checked by

Date

12/04/2022

Three Phase Induction Motor - Squirrel Cage



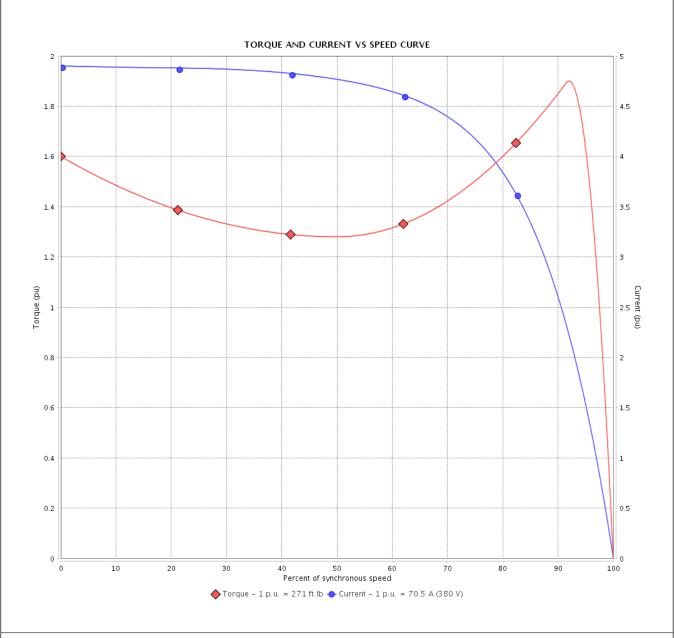
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11431708

Catalog #: 05012ST3QIE365T-W22



Performance	: 380 V 50 Hz 6P IE1		
Rated current	: 70.5 A	Moment of inertia (J)	: 32.4 sq.ft.lb
LRC	: 4.9	Duty cycle	: Cont.(S1)
Rated torque	: 271 ft.lb	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 190 %	Temperature rise	: 105 K
Rated speed	: 970 rpm	Design	: B

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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			6 / 36	

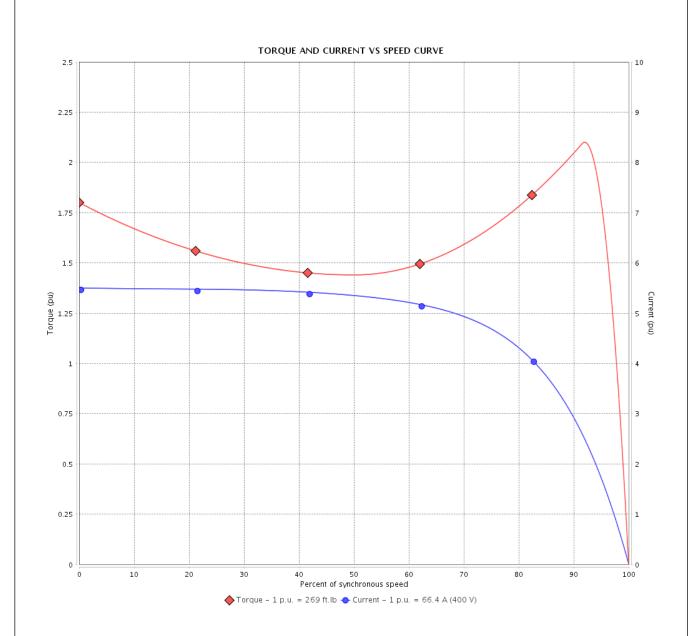
Three Phase Induction Motor - Squirrel Cage



05012ST3QIE365T-W22

Customer Product line : NEMA Premium Efficiency Three-Product code: 11431708

Catalog #:



Performance : 400 V 50 Hz 6P IE2 Rated current : 66.4 A Moment of inertia (J) : 32.4 sq.ft.lb **LRC** : 5.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 269 ft.lb : F Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 210 % Temperature rise : 80 K : B Rated speed : 975 rpm Design Locked rotor time : 27s (cold) 15s (hot)

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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			7 / 36	

Three Phase Induction Motor - Squirrel Cage

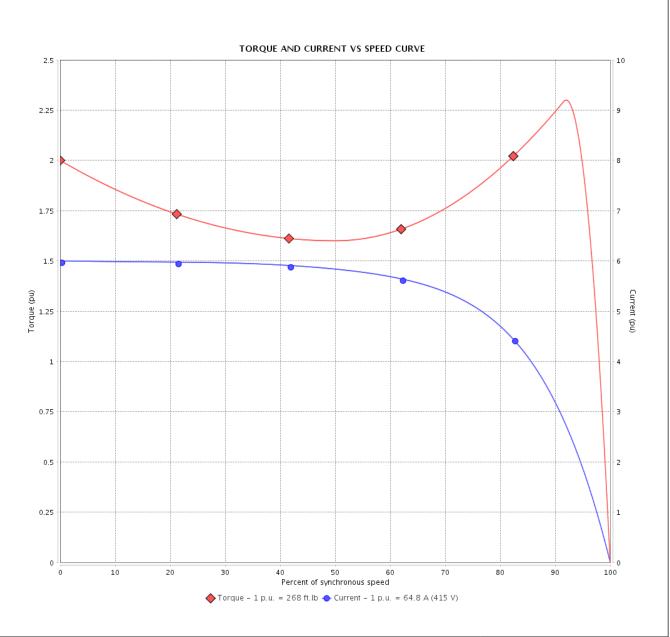


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11431708

Phase

Catalog # : 05012ST3QIE365T-W22



Performance	: 415 V 50 Hz 6P IE2		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 64.8 A : 6.0 : 268 ft.lb : 200 % : 229 % : 980 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 32.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B

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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			8 / 36	

Three Phase Induction Motor - Squirrel Cage

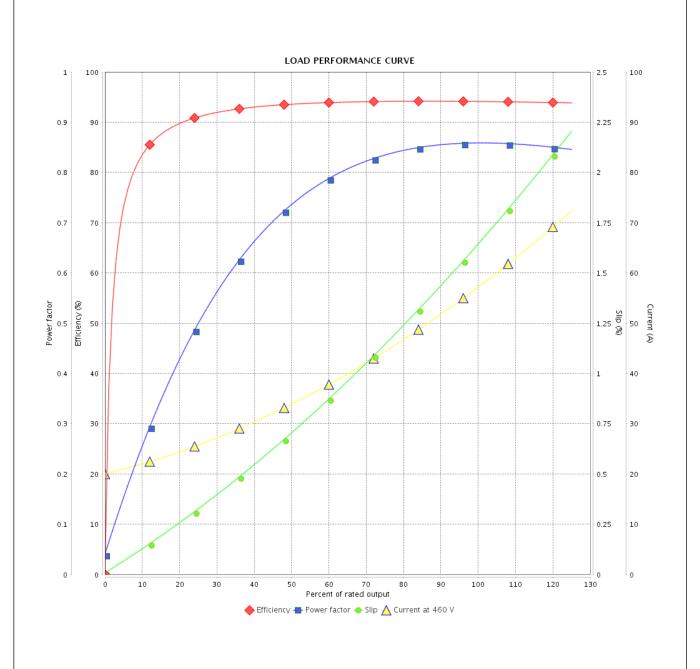


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431708

Phase

Catalog #: 05012ST3QIE365T-W22



Performance	: 4	460 V 60 Hz 6P				
Rated current	: :	57.4 A	Moment o	f inertia (J)	: 32.4 sq.ft.lb	
LRC	: (6.4	Duty cycle)	: Cont.(S1)	
Rated torque	: :	223 ft.lb	Insulation	class	:F	
Locked rotor torque	e ::	200 %	Service fa	ctor	: 1.25	
Breakdown torque	: :	: 240 %		ıre rise	: 80 K	
Rated speed	:	1180 rpm	Design		: B	
Rev.		Changes Summary	/	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				9 / 36	

Three Phase Induction Motor - Squirrel Cage

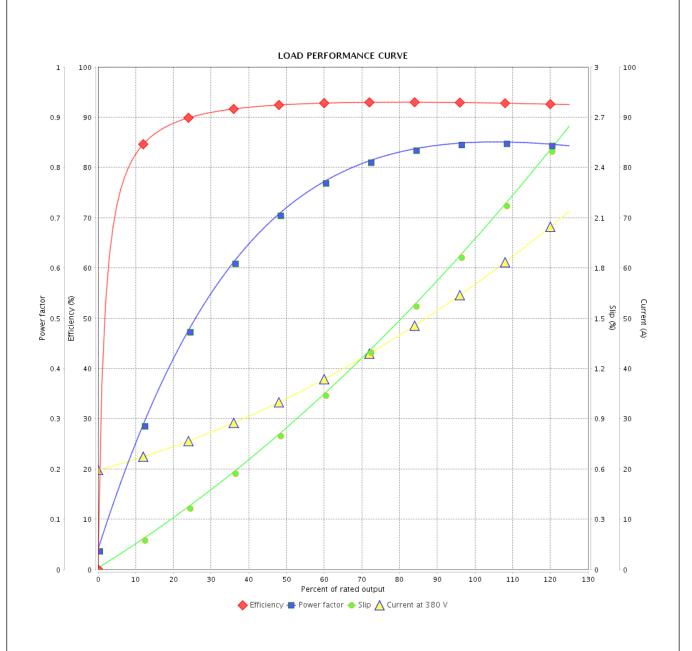


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 11431708

Catalog #: 05012ST3QIE365T-W22



Performance	: 3	80 V 50 Hz 6P IE3				
Rated current	: 5	7.7 A	Moment of	Moment of inertia (J)		
LRC : 6.2		.2	Duty cycle	Э	: Cont.(S1)	
Rated torque : 21		14 ft.lb	Insulation	class	: F	
Locked rotor torque :		00 %	Service fa	actor	: 1.00	
Breakdown torqu	e : 2	40 %	Temperature rise		: 80 K	
Rated speed	: 9	: 980 rpm			: B	
Rev.		Changes Summary	,	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				10 / 36	

Three Phase Induction Motor - Squirrel Cage

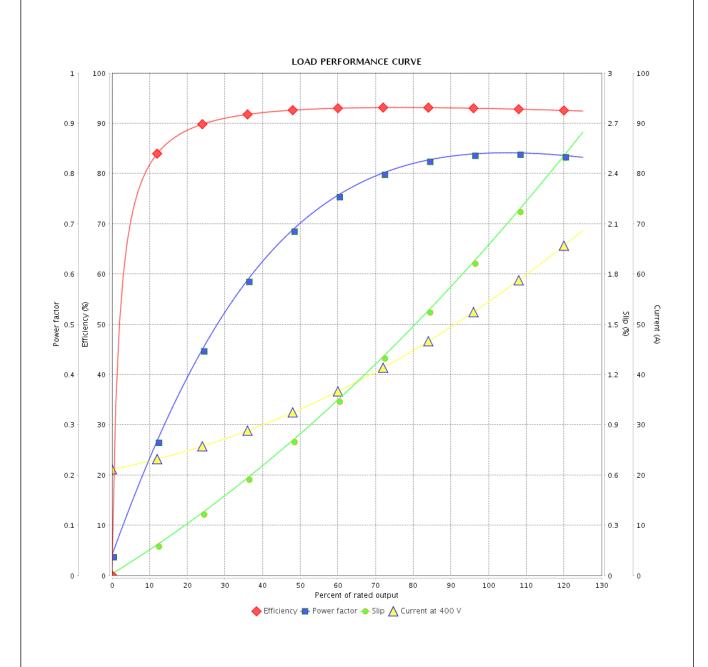


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431708

Phase

Catalog #: 05012ST3QIE365T-W22



Performance	: 4	00 V 50 Hz 6P IE3				
Rated current	: 5	5.5 A	Moment o	f inertia (J)	: 32.4 sq.ft.lb	
LRC	: 6	8.8	Duty cycle	;	: Cont.(S1)	
Rated torque	: 2	14 ft.lb	Insulation	class	: F	
Locked rotor torque		29 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	260 % Temperature rise		ıre rise	: 80 K	
Rated speed	: 9	80 rpm	Design		: B	
Rev.		Changes Summa	ry	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				11 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer :

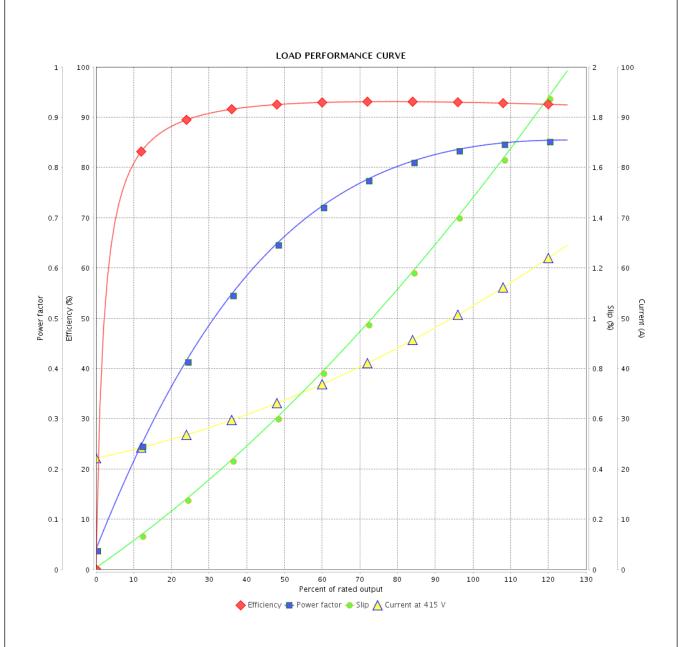
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11431708

Catalog #: 05012ST3QIE365T-W22

12/36



Performance	: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 53.5 A : 7.4 : 213 ft.lb : 250 % : 290 % : 985 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 32.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

12/04/2022

Date

Three Phase Induction Motor - Squirrel Cage

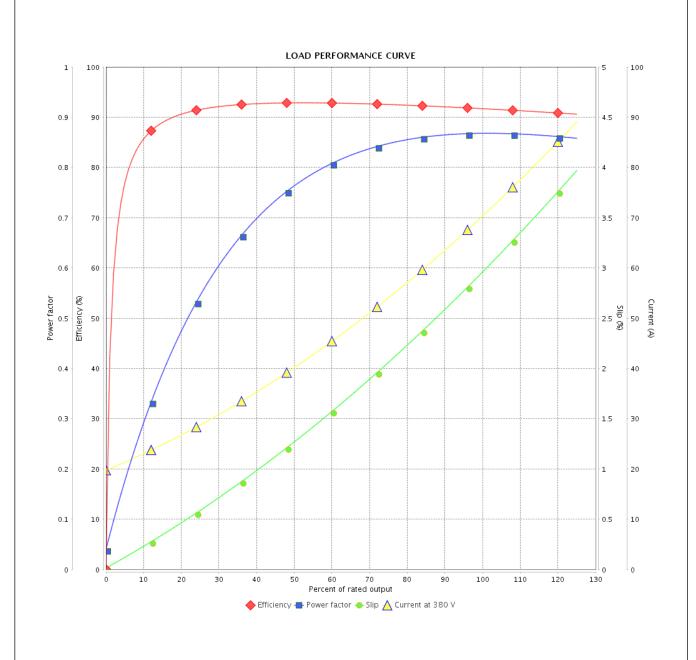


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431708

Phase

Catalog #: 05012ST3QIE365T-W22



Performance	: 3	80 V 50 Hz 6P IE1				
Rated current : 70.5 A		Moment o	Moment of inertia (J)			
LRC	: 4	.9	Duty cycle	;	: Cont.(S1)	
Rated torque : 2		71 ft.lb	Insulation	class	: F	
Locked rotor torque		60 %	Service fa	ctor	: 1.00	
Breakdown torque	: 1	190 % Temperature rise		ıre rise	: 105 K	
Rated speed	: 9	70 rpm	Design		: B	
Rev.		Changes Summa	ry	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				13 / 36	

Three Phase Induction Motor - Squirrel Cage



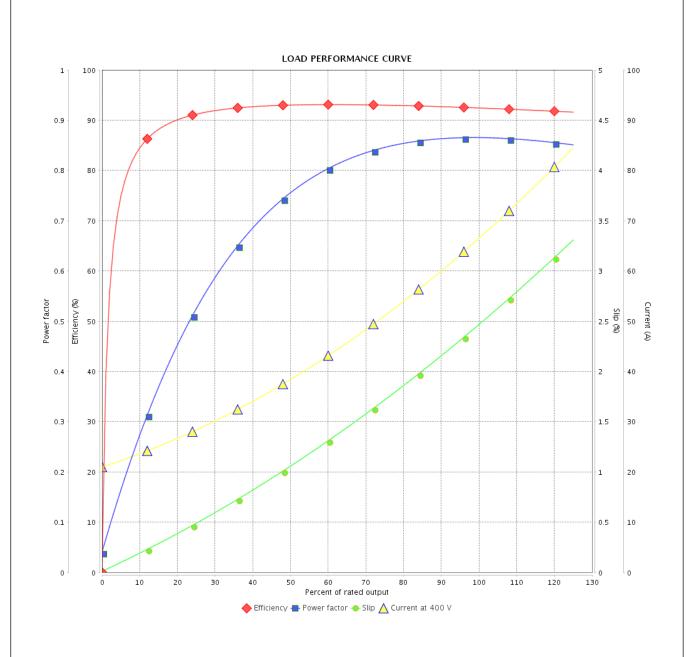
Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11431708

Phase

Catalog #: 05012ST3QIE365T-W22

14/36



Performance	: 400 V 50 Hz 6P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 66.4 A : 5.5 : 269 ft.lb : 180 % : 210 % : 975 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 32.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision

12/04/2022

Date

Three Phase Induction Motor - Squirrel Cage

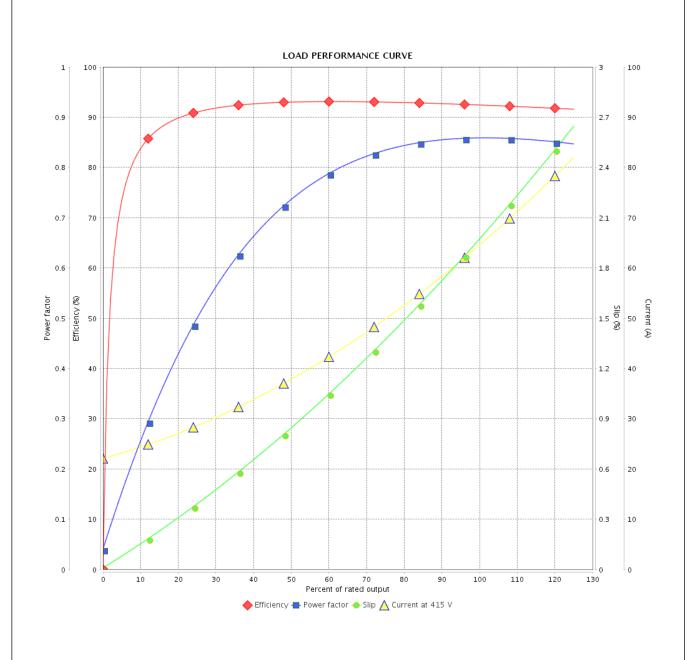


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431708

Phase

Catalog #: 05012ST3QIE365T-W22



Performance	: 4	15 V 50 Hz 6P IE2				
Rated current : 64.8 A		Moment o	Moment of inertia (J)			
LRC	: 6	.0	Duty cycle	;	: Cont.(S1)	
Rated torque	: 2	68 ft.lb	Insulation	class	: F	
Locked rotor torque		00 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	229 % Temperature rise		ıre rise	: 80 K	
Rated speed	: 9	80 rpm	Design		: B	
Rev.		Changes Summa	ry	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				15 / 36	

Three Phase Induction Motor - Squirrel Cage

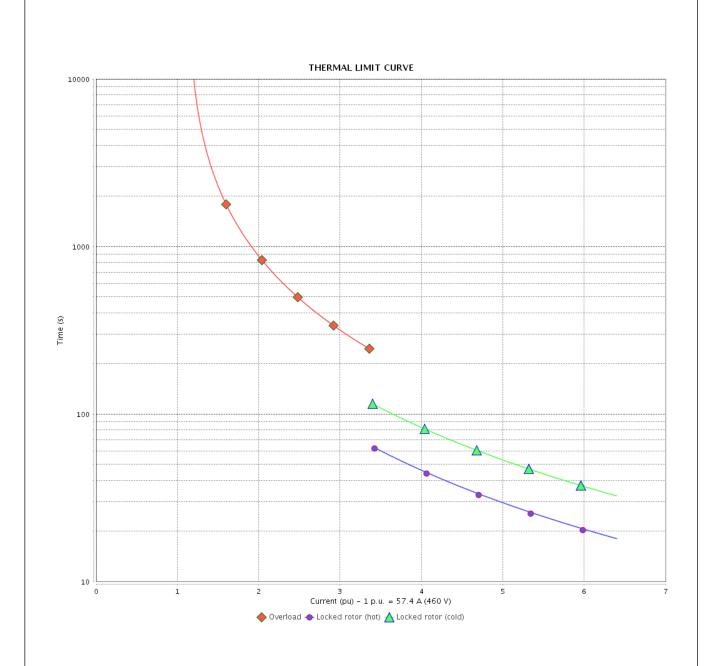


Customer	:				
Product line	: NEMA Premium Effic Phase		Product code : Catalog # :	11431708 05012ST3QII	E365T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 460 V 60 Hz 6P : 57.4 A : 6.4 : 223 ft.lb : 200 % : 240 % : 1180 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class actor	: 32.4 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	(0.1/0.00			Page	Revision

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			17 / 36	

Three Phase Induction Motor - Squirrel Cage

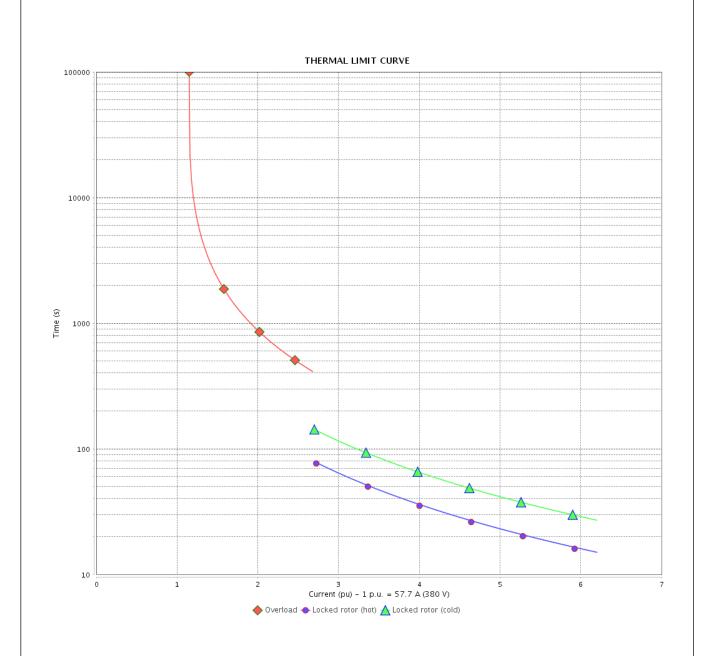


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	11431708	
				Catalog # :	05012ST3QIE	365T-W22
Performance		: 380 V 50 Hz 6P IE3				
Rated current		: 57.7 A	Moment of	of inertia (J)	: 32.4 sq.ft.lb	
LRC Rated torque		: 6.2 : 214 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que	: 200 %	Service fa	actor	: 1.00	
Breakdown torqu		: 240 %	Temperat	ure rise	: 80 K : B	
Rated speed		: 980 rpm	Design			
Heating constant Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by					,	
Checked by					Page	Revision
Date	12/04/2022				18 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.	Changes Summary		Performed	Checked	Date
Performed by			·		
Checked by				Page	Revision
Date	12/04/2022			19 / 36	

Three Phase Induction Motor - Squirrel Cage

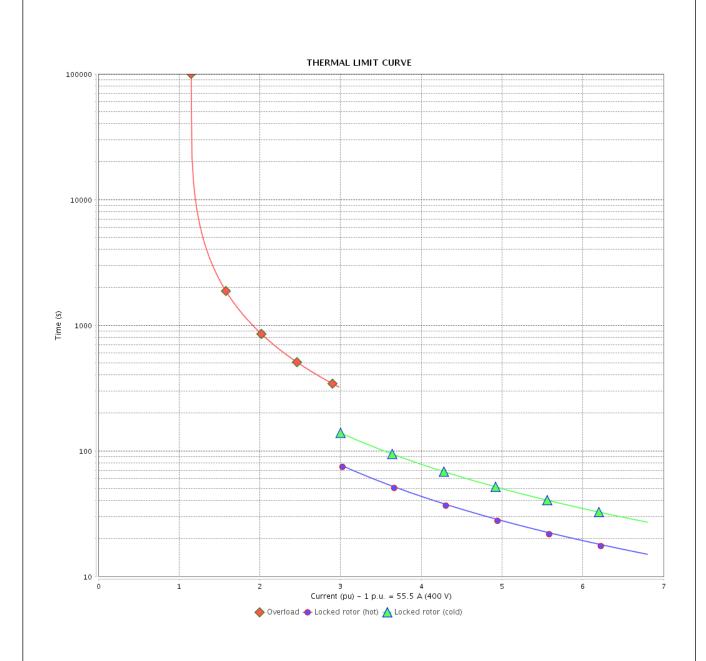


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11431708 05012ST3QIE	:265T W/22
					00012010Q12	.0001 VVZZ
Performance		: 400 V 50 Hz 6P IE3				
Rated current		: 55.5 A	Moment o	of inertia (J)	: 32.4 sq.ft.lb	
LRC Rated torque		: 6.8 : 214 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que	: 229 %	Service fa	actor	: 1.00	
Breakdown torqu Rated speed		: 260 % : 980 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constan						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				20 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			21 / 36	

Three Phase Induction Motor - Squirrel Cage

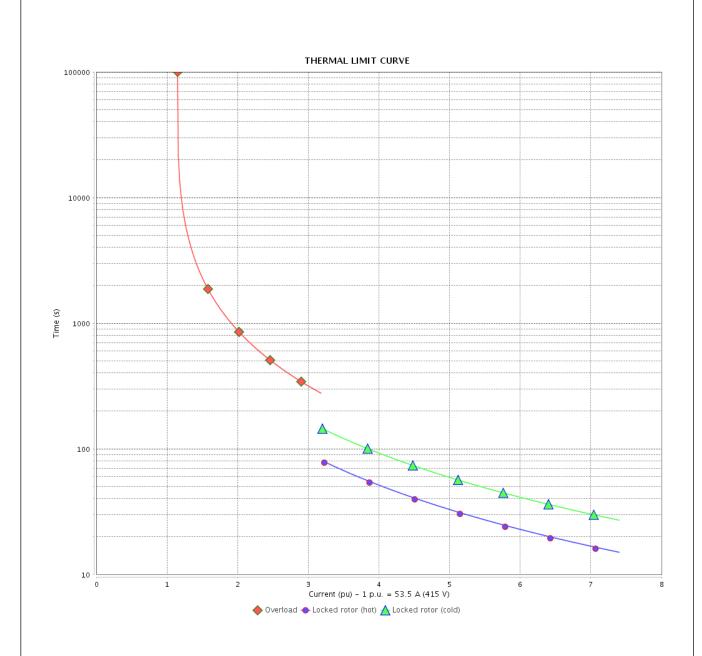


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	11431708	TOOFT MACC
				Catalog # :	05012ST3QIE	.500 I -VVZZ
Performance		: 415 V 50 Hz 6P IE3				
Rated current LRC		: 53.5 A : 7.4	Moment of Duty cycle	of inertia (J)	: 32.4 sq.ft.lb : Cont.(S1)	
Rated torque		: 213 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 250 % : 290 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 985 rpm	Design	a. 5 1100	: B	
Heating constan					,	
Cooling constant	t	01 0			<u> </u>	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				22 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			23 / 36	

Three Phase Induction Motor - Squirrel Cage

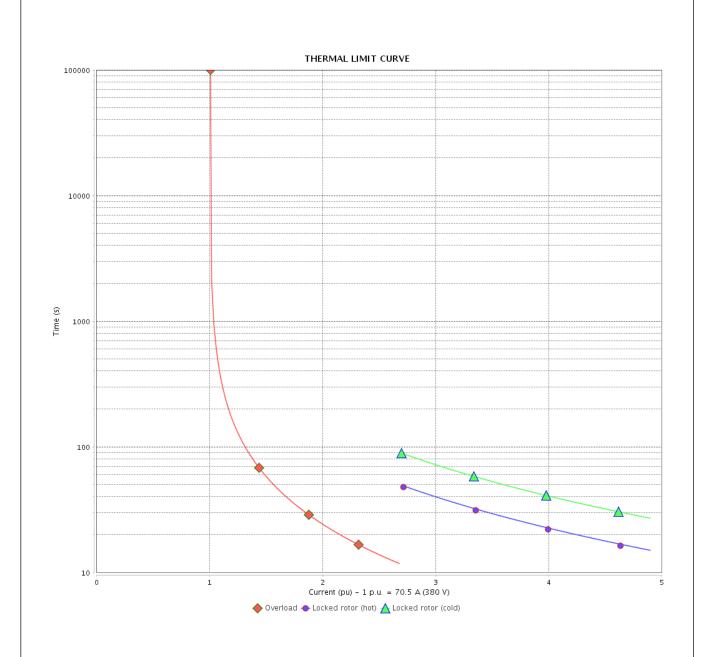


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	11431708 05012ST3QI	E365T-W22
Performance		380 V 50 Hz 6P IE1				
Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: : que :	70.5 A 4.9 271 ft.lb 160 % 190 % 970 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 32.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant Cooling constant Rev.	t	Changes Summary		Performed	Checked	Date
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Checked by	40/04/0000				Page	Revision
Date	12/04/2022				24 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			25 / 36	

Three Phase Induction Motor - Squirrel Cage

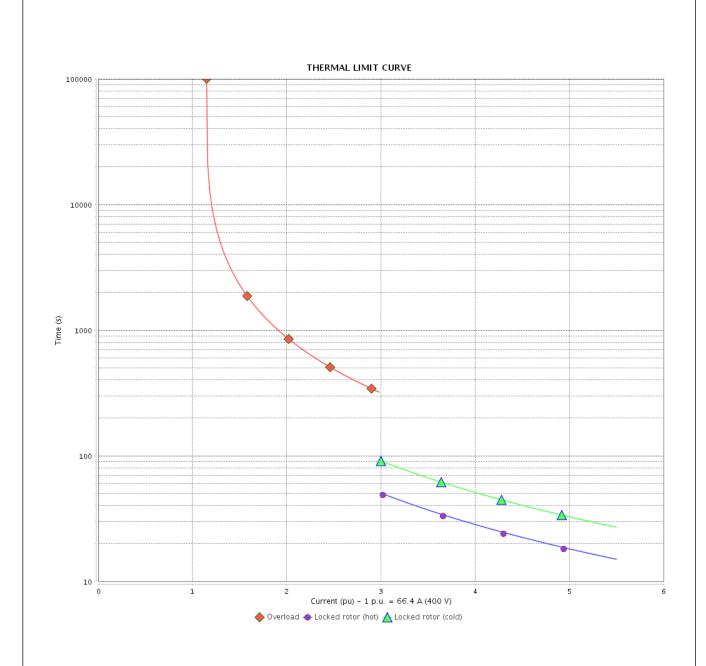


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11431708 05012ST3QIE	:365T-W22
Performance		: 400 V 50 Hz 6P IE2				
Rated current		: 66.4 A : 5.5	Moment o	of inertia (J)	: 32.4 sq.ft.lb	
LRC Rated torque		: 269 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor tord		: 180 %	Service fa		: 1.00	
Breakdown torqu Rated speed		: 210 % : 975 rpm	Temperat Design	uie lise	: 80 K : B	
Heating constan						
Cooling constant	t					
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				26 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by			·		
Checked by				Page	Revision
Date	12/04/2022			27 / 36	

Three Phase Induction Motor - Squirrel Cage

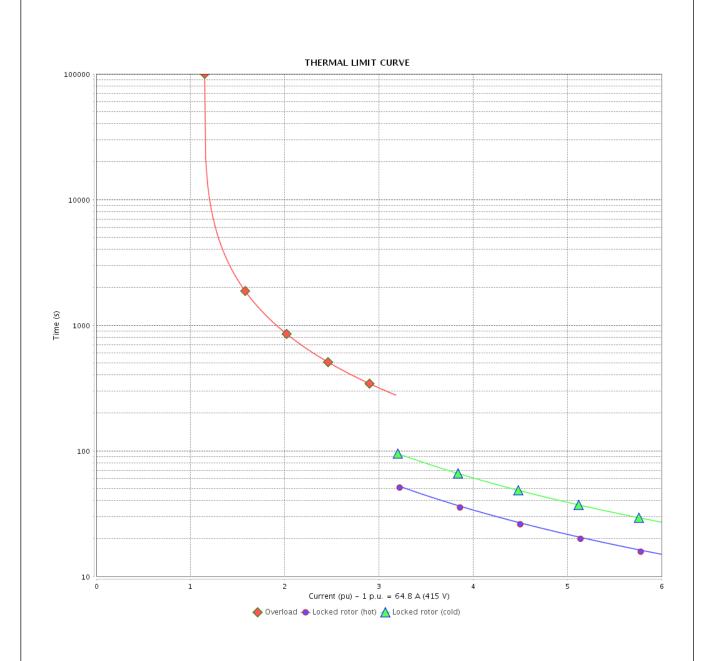


Customer	<u> </u>				
	•				
Product line	: NEMA Premium Efficiency Phase	Three- P	roduct code :	11431708	
	i nase	C	atalog # :	05012ST3QIE	365T-W22
Performance	: 415 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 64.8 A : 6.0 : 268 ft.lb : 200 % : 229 % : 980 rpm	Moment of Duty cycle Insulation of Service fac Temperatur Design	class tor	: 32.4 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
Date 11	2/04/2022			28 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
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Date	12/04/2022			29 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

12/04/2022

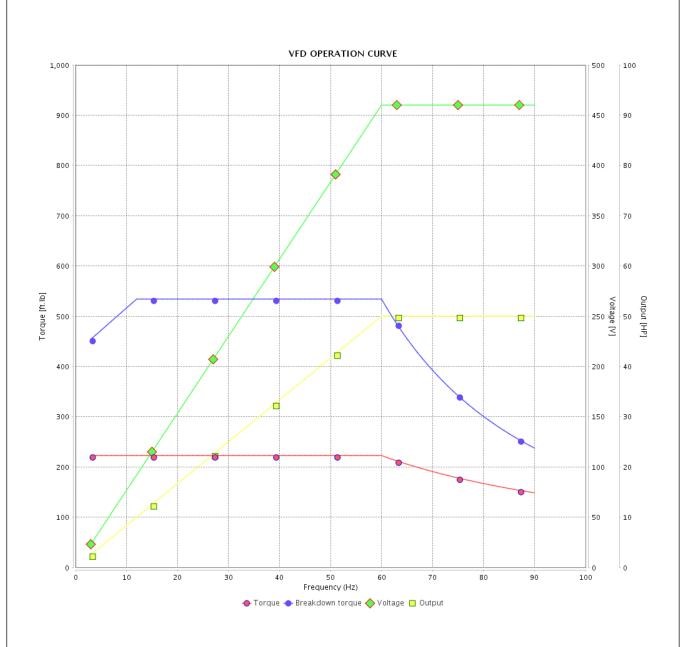
Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 11431708

Catalog #: 05012ST3QIE365T-W22

30 / 36



Performance : 460 V 60 Hz 6P Rated current : 57.4 A Moment of inertia (J) : 32.4 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 223 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1180 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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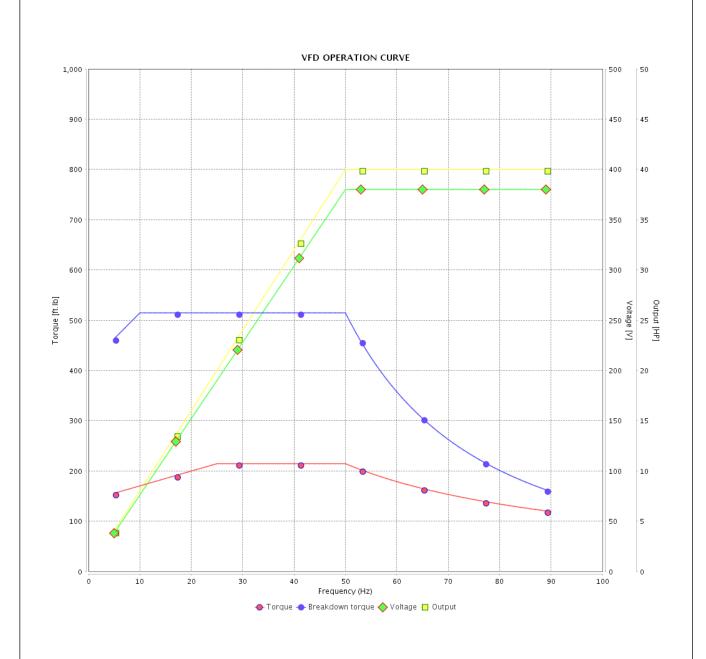
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Product line : NEMA Premium Efficiency Three- Product code : 11431708

Phase

Catalog #: 05012ST3QIE365T-W22

31 / 36



Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 57.7 A : 6.2 : 214 ft.lb : 200 % : 240 % : 980 rpm	Moment of inertia (J) : 32.4 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B			
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
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12/04/2022

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Customer :

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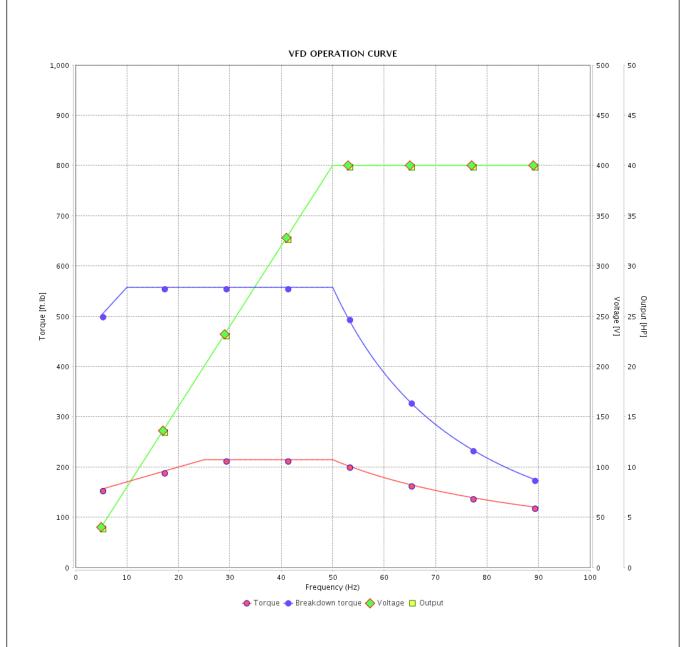
Product code: 11431708

Catalog #: 05012ST3QIE365T-W22

Page

32 / 36

Revision



Performance	: 400 V 50 Hz 6P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 55.5 A : 6.8 : 214 ft.lb	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 32.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date	
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Product line : NEMA Premium Efficiency Three- Product code : 11431708

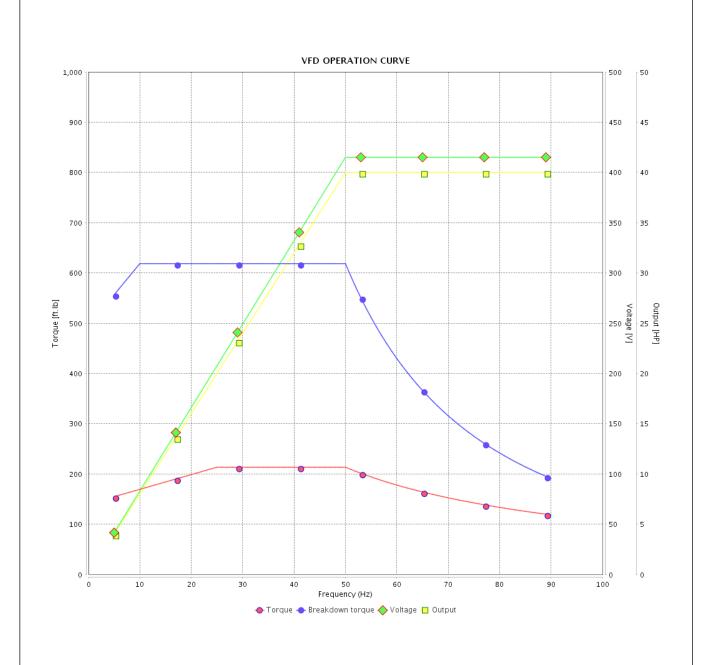
Phase

Catalog #: 05012ST3QIE365T-W22

Page

33 / 36

Revision



Performance		: 415 V 50 Hz 6P II	≣3			
Rated current : 53.5 A LRC : 7.4 Rated torque : 213 ft.lb Locked rotor torque : 250 % Breakdown torque : 290 % Rated speed : 985 rpm		Moment Duty cyc Insulation Service f Tempera Design	n class actor	: 32.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B		
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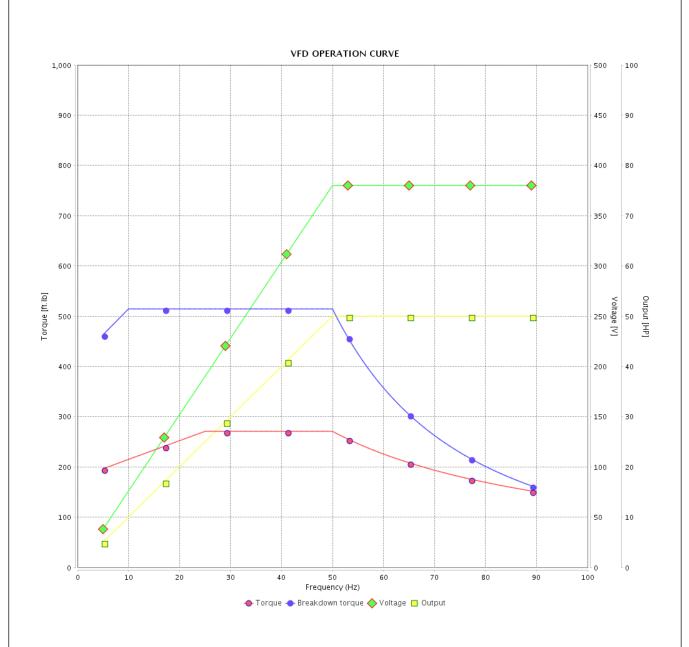
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11431708

Catalog #: 05012ST3QIE365T-W22

34 / 36



Performance	: 380 V 50 Hz 6P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 70.5 A : 4.9 : 271 ft.lb : 160 % : 190 % : 970 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 32.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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12/04/2022

Date

Three Phase Induction Motor - Squirrel Cage

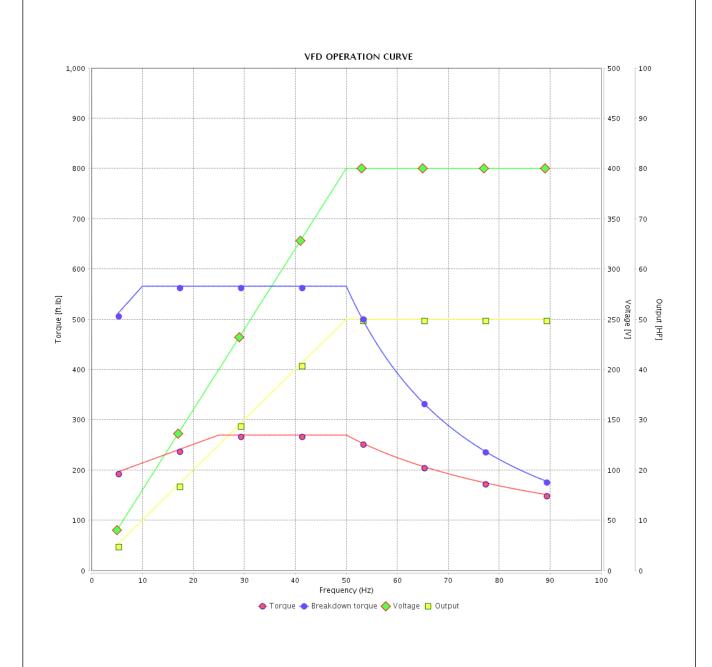


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Product line : NEMA Premium Efficiency Three- Product code : 11431708

Phase

Catalog #: 05012ST3QIE365T-W22



Performance	: 40	: 400 V 50 Hz 6P IE2					
Rated current	urrent : 66.4 A		Moment o	Moment of inertia (J)		: 32.4 sq.ft.lb	
LRC	: 5.	5	Duty cycle		: Cont.(S1)		
Rated torque	: 26	69 ft.lb	Insulation class		:F		
Locked rotor torqu	ue : 18	30 %	Service factor		: 1.00		
Breakdown torque	e : 2 ⁻	10 %	Temperature rise		: 80 K		
Rated speed	: 97	5 rpm Design		: B			
Rev.		Changes Summary		Performed	Checked	Date	
Performed by							
Checked by					Page	Revision	
Date	12/04/2022				35 / 36		

Three Phase Induction Motor - Squirrel Cage



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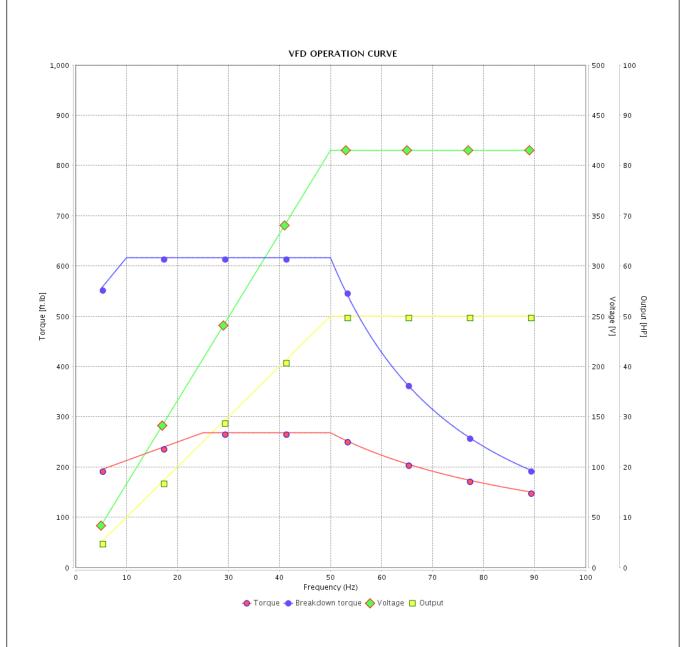
Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 11431708

Catalog #: 05012ST3QIE365T-W22

36 / 36



Performance	: 41	5 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6.0 Duty cycle torque : 268 ft.lb Insulation d rotor torque : 200 % Service fa down torque : 229 % Temperat		lation class : F ice factor : 1.00 perature rise : 80 K			
Rev.	Changes Summary		Performed	Checked	Date	
Performed by						
Checked by					Page	Revision

12/04/2022

Date

