DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11708018

Catalog #: 12512ST3QIERB445T-W2

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 Ambient temperature Starting method : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight³ : 1852 lb

/ Williado		. 1000 III.a.	J.I.	/ \ppiox	. weigin		002 10	
Protection degree		: IP55		Moment of inertia (J) : 104 sq.ft.lb		04 sq.ft.lb		
Design		: B						
Output [HP]		125	100	100	100	125	125	125
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]		143	143	138	136	172	165	160
L. R. Amperes [A]		901	901	966	1020	860	924	976
LRC [A]		6.3x(Code	6.3x(Code	7.0x(Code H)	7.5x(Code J)	5.0x(Code E)	5.6x(Code F)	6.1x(Code
		G)	G)					G)
No load current [A	No load current [A]		49.4	53.3	56.3	49.4	53.3	56.3
Rated speed [RPM]		1185	985	985	985	980	980	985
Slip [%]		1.25	1.50	1.50	1.50	2.00	2.00	1.50
Rated torque [ft.lb]	Rated torque [ft.lb]		533	533	533	670	670	666
Locked rotor torqu	Locked rotor torque [%]		200	229	250	160	180	200
Breakdown torque	: [%]	229	229	250	280	180	200	220
Service factor		1.15	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		34s (cold)	27s (cold)	27s (cold)	27s (cold)	27s (cold)	27s (cold)	27s (cold)
		19s (hot)	15s (hot)	15s (hot)	15s (hot)	15s (hot)	15s (hot)	15s (hot)
Noise level ²		69.0 dB(A)	65.0 dB(A)	65.0 dB(A)	65.0 dB(A)	65.0 dB(A)	65.0 dB(A)	65.0 dB(A)
	25%	95.2	94.9	95.0	94.8	95.7	95.7	95.7
Efficiency (%)	50%	95.0	94.8	94.7	94.7	95.0	95.0	95.0
Liliciency (70)	75%	95.4	94.9	94.9	95.1	94.5	94.5	95.0
	100%	95.0	94.6	94.4	94.8	93.6	93.6	94.1
	25%	0.46	0.45	0.41	0.39	0.52	0.49	0.46
Power Factor	50%	0.70	0.68	0.65	0.62	0.76	0.73	0.70

Drive end Non drive end Foundation loads

0.77

0.83

0.75

0.81

NU-319 C3 Bearing type 6316 C3 Max. traction : 2982 lb Sealing Inpro/Seal Inpro/Seal : 4834 lb Max. compression Lubrication interval

0.79

0.84

9000 h 16000 h Lubricant amount 45 g 34 g

0.79

0.83

75%

100%

Mobil Polyrex EM Lubricant type

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.

0.82

0.85

0.81

0.84

0.79

0.83

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

Three Phase Induction Motor - Squirrel Cage



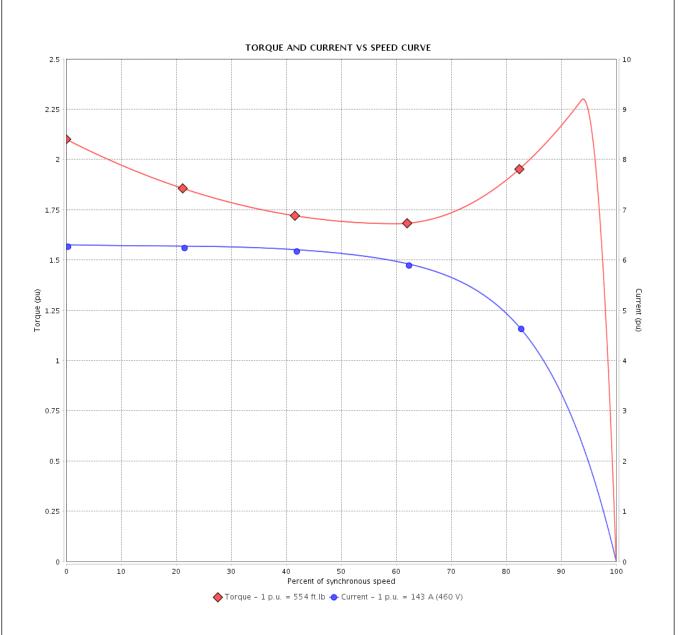
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11708018

Catalog #: 12512ST3QIERB445T-W2



Performance	: 460 V 60 Hz 6P			
Rated current	: 143 A	Moment of inertia (J)	: 104 sq.ft.lb	
LRC	: 6.3	Duty cycle	: Cont.(S1)	
Rated torque	: 554 ft.lb	Insulation class	: F	
Locked rotor torque	: 210 %	Service factor	: 1.15	
Breakdown torque	: 229 %	Temperature rise	: 80 K	
Rated speed	: 1185 rpm	Design	: B	

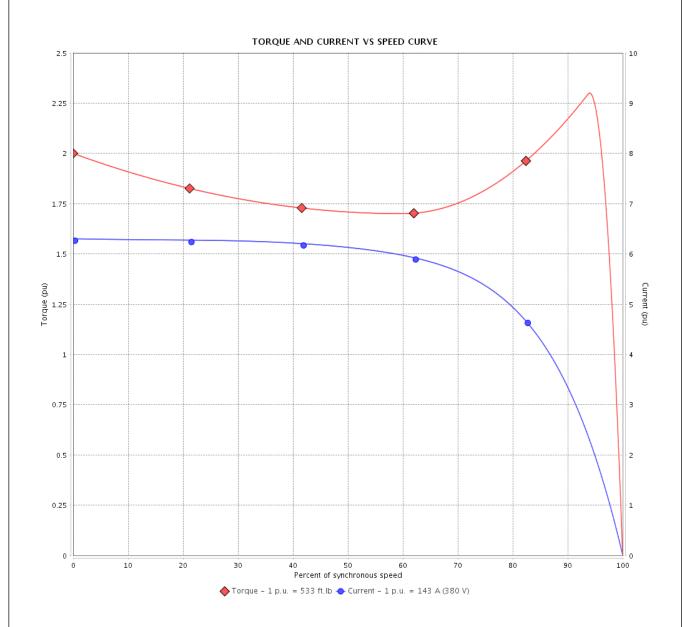
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			2/36	

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Product code : 11708018
Phase Catalog # : 12512ST3QIERB445T-W2



Performance	: 380 V 50 Hz 6P IE3			
Rated current	: 143 A	Moment of inertia (J)	: 104 sq.ft.lb	
LRC	: 6.3	Duty cycle	: Cont.(S1)	
Rated torque	: 533 ft.lb	Insulation class	: F	
Locked rotor torque	: 200 %	Service factor	: 1.00	
Breakdown torque	: 229 %	Temperature rise	: 80 K	
Rated speed	: 985 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	13/04/2022			3 / 36	

Three Phase Induction Motor - Squirrel Cage



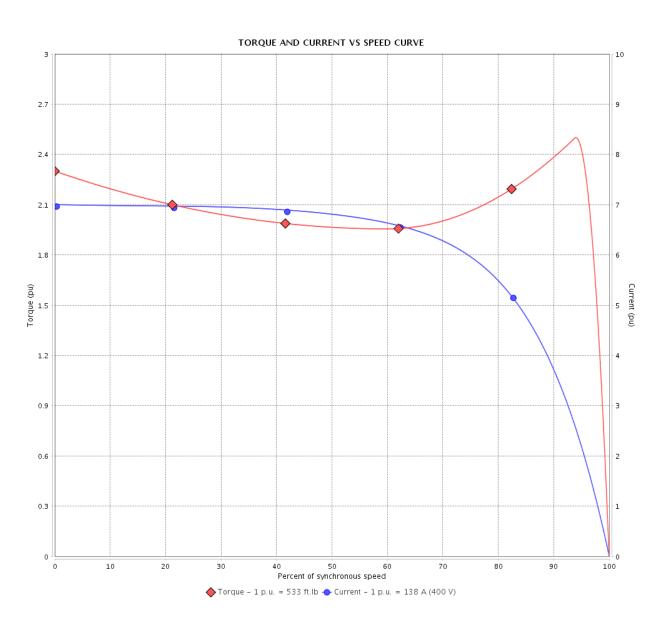
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11708018

Catalog #: 12512ST3QIERB445T-W2



Performance	: 400 V 50 Hz 6P IE2		
Rated current	: 138 A	Moment of inertia (J)	: 104 sq.ft.lb
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 533 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 985 rpm	Design	: B

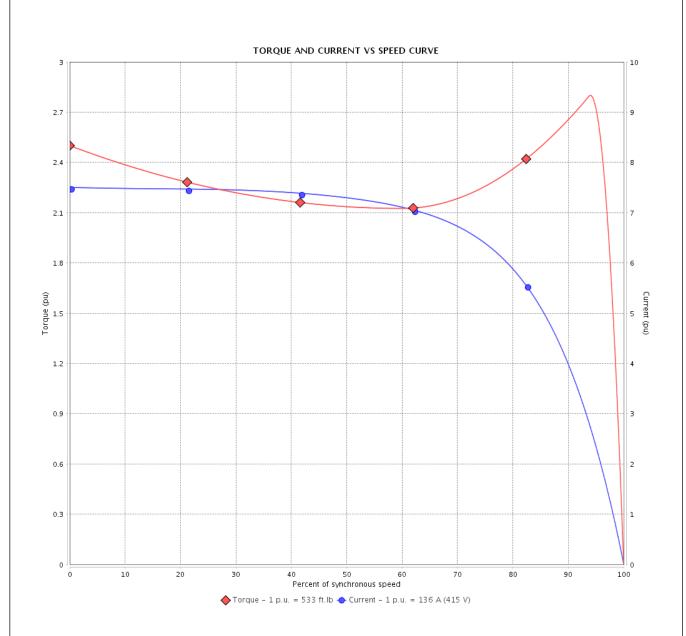
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			4 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11708018

> Catalog #: 12512ST3QIERB445T-W2



Performance	: 415 V 50 Hz 6P IE3			
Rated current	: 136 A	Moment of inertia (J)	: 104 sq.ft.lb	
LRC	: 7.5	Duty cycle	: Cont.(S1)	
Rated torque	: 533 ft.lb	Insulation class	: F	
Locked rotor torque	: 250 %	Service factor	: 1.00	
Breakdown torque	: 280 %	Temperature rise	: 80 K	
Rated speed	: 985 rpm	Design	: B	
Locked rotor time	: 27s (cold) 15s (hot)		-	

LOCKEU TOLOT LITTLE	. 2	73 (Cold) 133 (110t)			
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			5 / 36	

Three Phase Induction Motor - Squirrel Cage

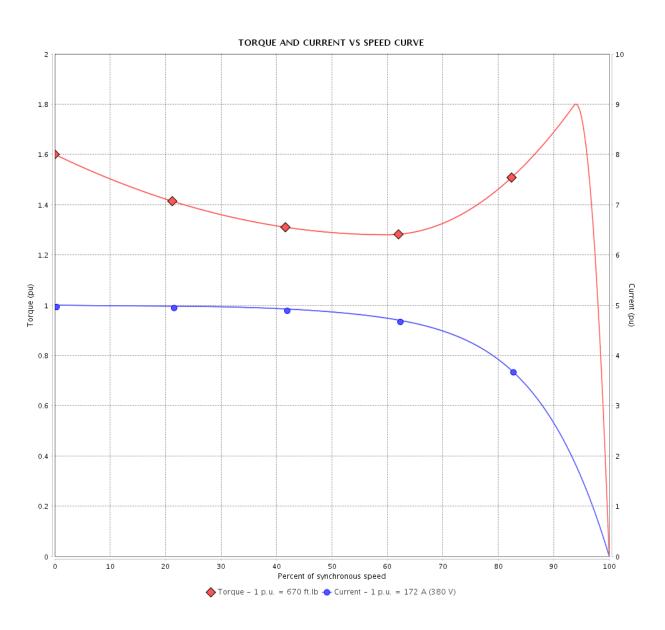


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11708018

Phase

Catalog #: 12512ST3QIERB445T-W2



Performance	: 380 V 50 Hz 6P IE1			
Rated current	: 172 A	Moment of inertia (J)	: 104 sq.ft.lb	
LRC	: 5.0	Duty cycle	: Cont.(S1)	
Rated torque	: 670 ft.lb	Insulation class	: F	
Locked rotor torque	: 160 %	Service factor	: 1.00	
Breakdown torque	: 180 %	Temperature rise	: 105 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	13/04/2022			6 / 36	



Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11708018 Catalog #: 12512ST3QIERB445T-W2 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 (pd) 1.25 Current (pu) 0.5 0.25 40 50 -Percent of synchronous speed ♦ Torque - 1 p.u. = 670 ft.lb ♦ Current - 1 p.u. = 165 A (400 V)

Performance	: 400 V 50 Hz 6P IE1			
Rated current	: 165 A	Moment of inertia (J)	: 104 sq.ft.lb	
LRC	: 5.6	Duty cycle	: Cont.(S1)	
Rated torque	: 670 ft.lb	Insulation class	: F	
Locked rotor torque	: 180 %	Service factor	: 1.00	
Breakdown torque	: 200 %	Temperature rise	: 105 K	
Rated speed	: 980 rpm	Design	: B	

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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			7 / 36	

Three Phase Induction Motor - Squirrel Cage

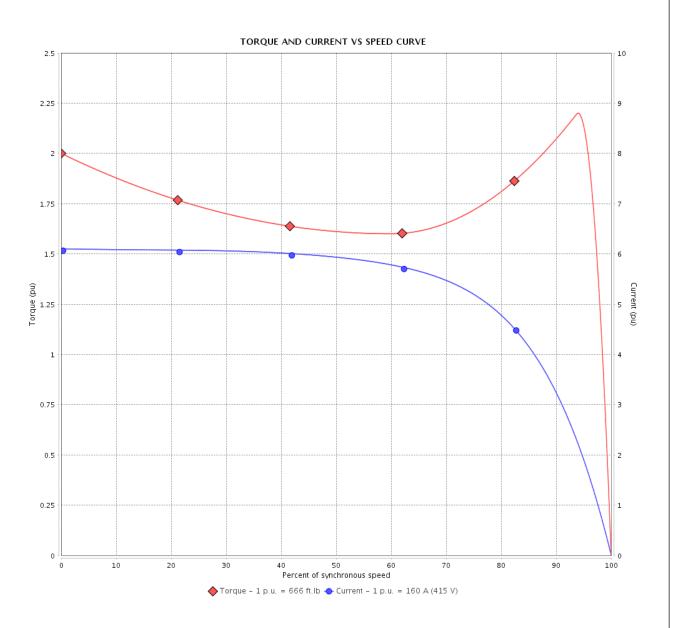


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11708018

Phase

Catalog #: 12512ST3QIERB445T-W2



Performance : 415 V 50 Hz 6P IE2 Rated current : 160 A Moment of inertia (J) : 104 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 666 ft.lb : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 105 K Rated speed : 985 rpm Design : B

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

Three Phase Induction Motor - Squirrel Cage



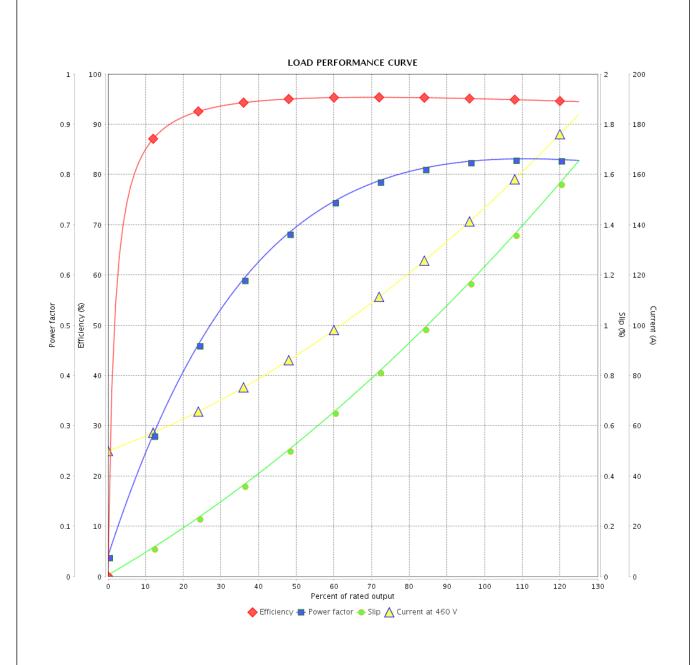
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11708018

Phase

Catalog #: 12512ST3QIERB445T-W2

9/36



Performance	Performance : 460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 143 A : 6.3 : 554 ft.lb : 210 % : 229 % : 1185 rpm	Moment of inertia (J) : 104 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.15 Temperature rise : 80 K Design : B			
Rev.	Changes Summary		Performed	Checked	Date
Performed by					

13/04/2022

Date

Three Phase Induction Motor - Squirrel Cage



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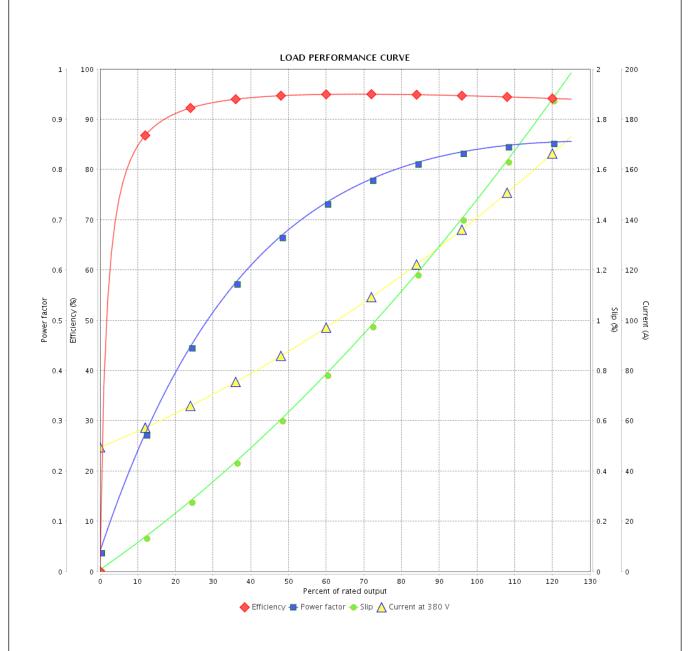
Product line : NEMA Premium Efficiency Three- Pro

Phase

Product code: 11708018

Catalog #: 12512ST3QIERB445T-W2

10/36



Performance : 380 \		30 V 50 Hz 6P IE3				
LRC : 6. Rated torque : 53 Locked rotor torque : 20 Breakdown torque : 22		43 A 3 33 ft.lb 00 % 29 % 85 rpm	Moment of inertia (J) : 104 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						
Checked by					Page	Revision

13/04/2022

Date

Three Phase Induction Motor - Squirrel Cage

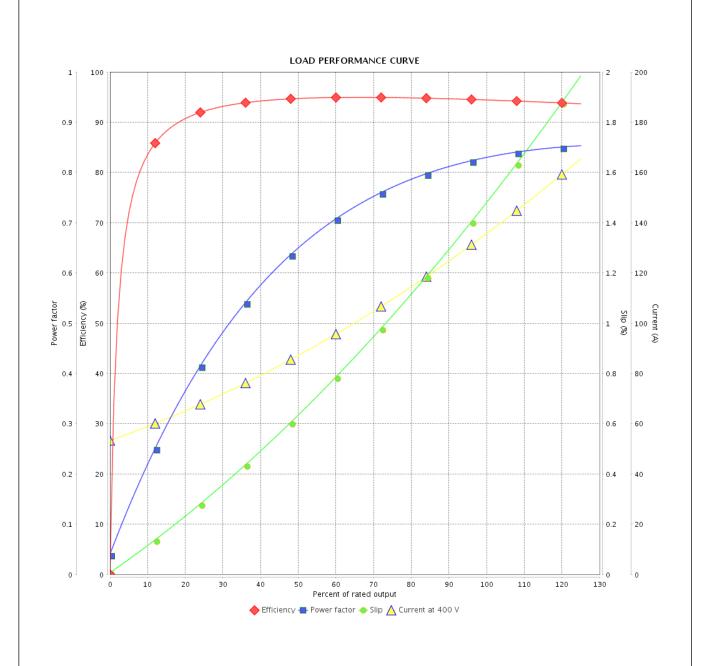


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Product line : NEMA Premium Efficiency Three- Product code : 11708018

Phase

Catalog #: 12512ST3QIERB445T-W2



	·					
Performance	: 4	: 400 V 50 Hz 6P IE2				
Rated current	: 1	138 A	Moment o	f inertia (J)	: 104 sq.ft.lb	
LRC	: 7	7.0	Duty cycle	;	: Cont.(S1)	
Rated torque	: 5	533 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2	229 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 2	250 % Temperature rise		ıre rise	: 80 K	
Rated speed	: 9	985 rpm	Design		: B	
Rev.		Changes Summa	ary	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				11 / 36	

Three Phase Induction Motor - Squirrel Cage



12/36

Customer

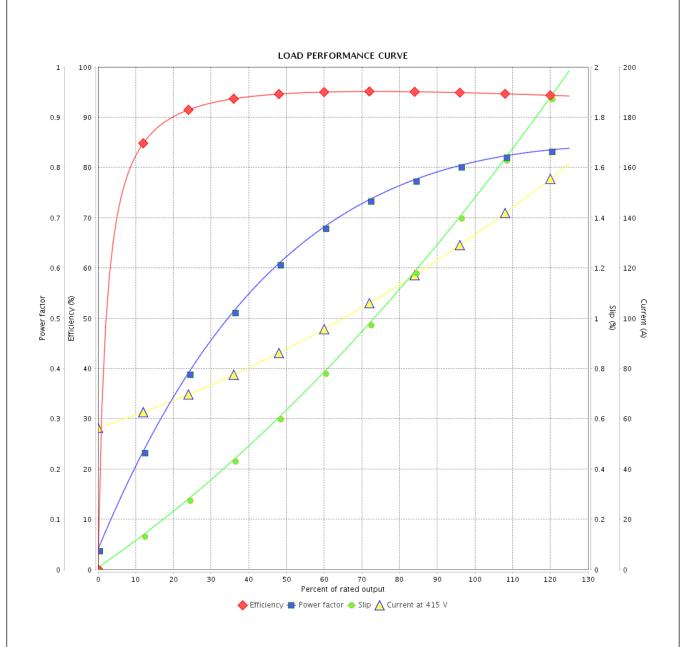
Date

13/04/2022

Product line : NEMA Premium Efficiency Three-

Product code: 11708018

Catalog #: 12512ST3QIERB445T-W2



Performance	: 415 V 50 Hz 6P IE3			
Rated current LRC Rated torque Locked rotor torqu Breakdown torque Rated speed		Moment of inertia (J) : 104 sq.ft Duty cycle : Cont.(S1 Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B		
Rev.	Changes Summar	ry Performed	Checked	Date
Performed by Checked by			Page	Revision

Three Phase Induction Motor - Squirrel Cage

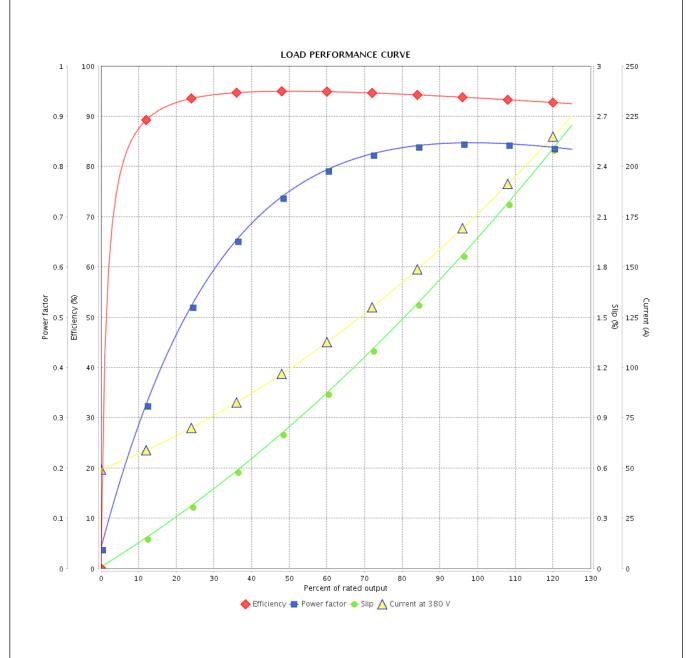


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11708018

Phase

Catalog #: 12512ST3QIERB445T-W2



Performance	erformance : 380 V 50 Hz 6P IE1					
Rated current	: 1	72 A	Moment o	f inertia (J)	: 104 sq.ft.lb	
LRC	: 5	.0	Duty cycle)	: Cont.(S1)	
Rated torque	: 6	70 ft.lb	Insulation	class	:F	
Locked rotor torque	e :1	60 %	Service fa	ctor	: 1.00	
Breakdown torque	: 1	80 %	Temperati	Temperature rise		
Rated speed	: 9	: 980 rpm			: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				13 / 36	

Three Phase Induction Motor - Squirrel Cage



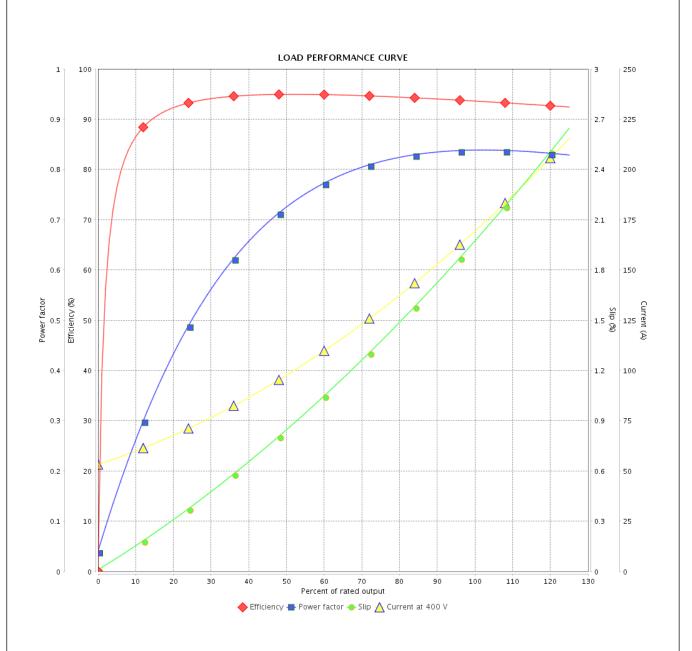
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11708018

Catalog #: 12512ST3QIERB445T-W2



Performance	: 4	00 V 50 Hz 6P IE1				
Rated current	Rated current : 165 A		Moment of	of inertia (J)	: 104 sq.ft.lb	
LRC	: 5	.6	Duty cycle	е	: Cont.(S1)	
Rated torque	: 6	70 ft.lb	Insulation	class	: F	
Locked rotor torc	que : 1	80 %	Service fa	actor	: 1.00	
Breakdown torque :		00 %	Temperat	Temperature rise		
Rated speed	: 9	80 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by		-			Page	Revision
Date	13/04/2022	1			14 / 36	

Three Phase Induction Motor - Squirrel Cage



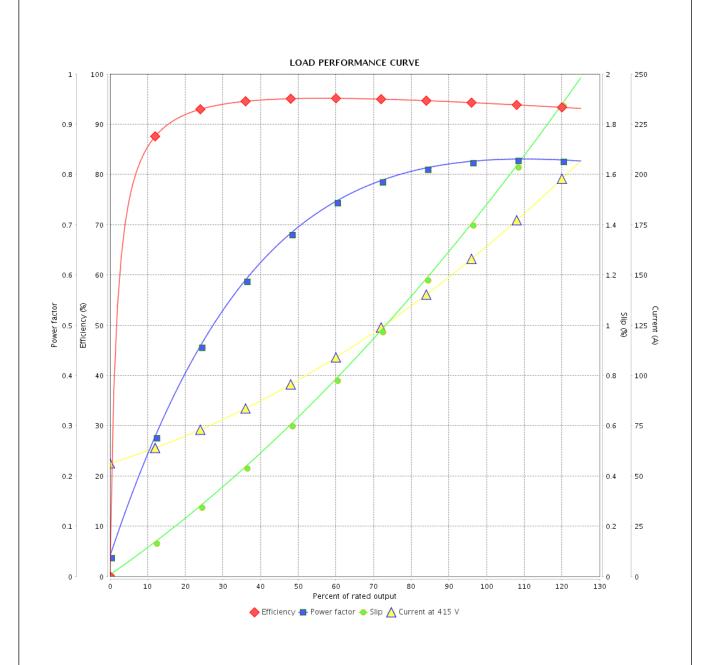
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11708018

Phase

Catalog #: 12512ST3QIERB445T-W2

15/36



Performance : 415 V 50 Hz 6P IE2					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 160 A : 6.1 : 666 ft.lb : 200 % : 220 % : 985 rpm	Moment of inertia (J) : 104 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 105 K Design : B			
Rev.	Changes Summary	Performed		Checked Date	
Performed by				Page	Revision

13/04/2022

Date

Three Phase Induction Motor - Squirrel Cage

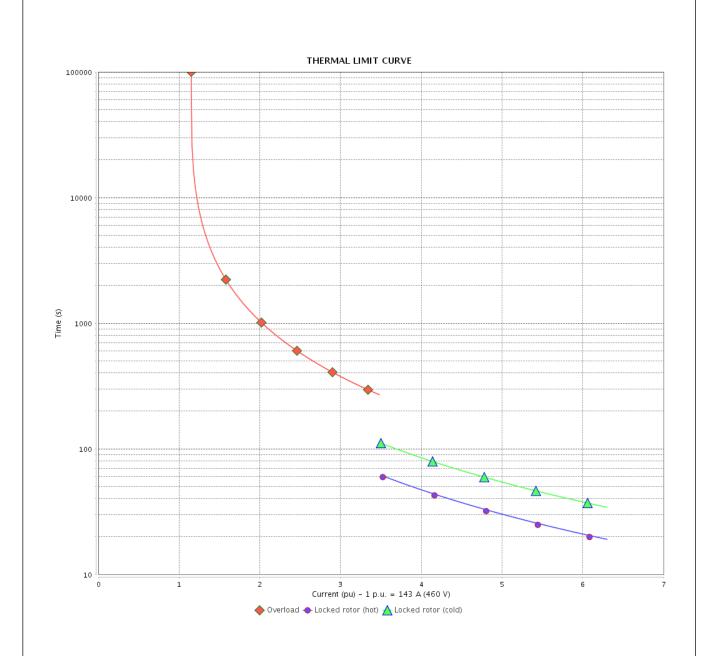


Customer	:				
Product line	: NEMA Premium Efficien Phase		Product code :	11708018 12512ST3QIE	ERB445T-W2
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed Heating constant Cooling constant Rev.	: 460 V 60 Hz 6P : 143 A : 6.3 : 554 ft.lb : 210 % : 229 % : 1185 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 104 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	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			17 / 36	

Three Phase Induction Motor - Squirrel Cage

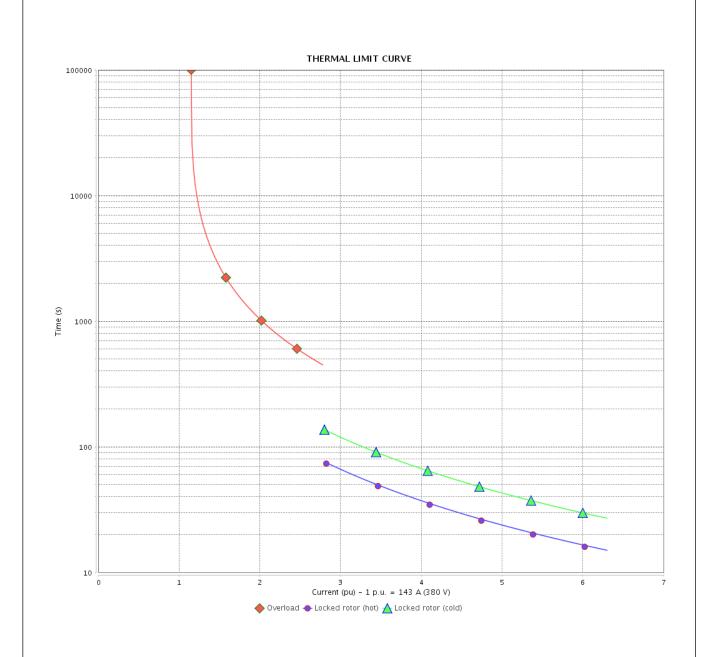


Customer	:				
Product line	: NEMA Premium Efficienc		Product code :	11708018	
			Catalog # :	12512ST3QIE	RB445T-W2
Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 143 A : 6.3 : 533 ft.lb : 200 % : 229 % : 985 rpm	Moment or Duty cycle Insulation Service fa Temperatu Design	class ctor	: 104 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
		200.911			
Heating constant					
Cooling constant	C'		D(Oh I I	Б.
Rev.	Changes Summary		Performed	Checked	Date
Performed by Checked by				Page	Revision
Data 1	3/04/2022			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

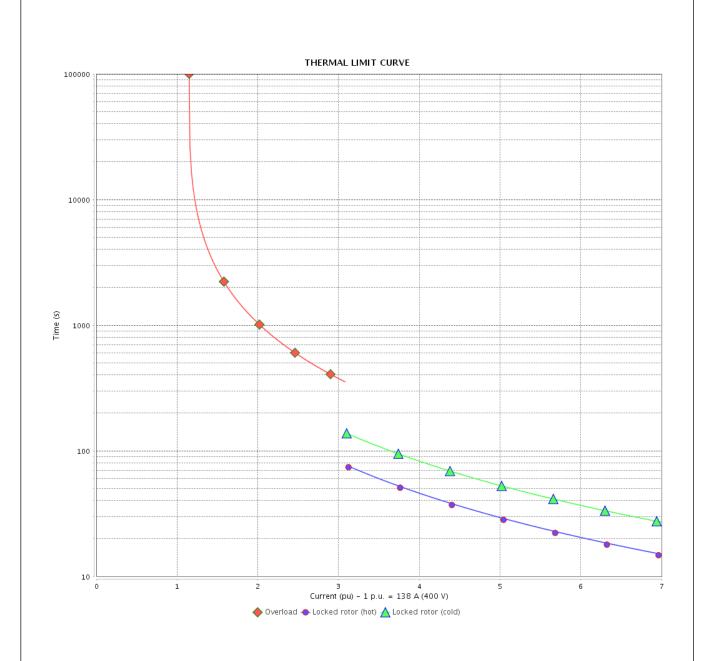


Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	11708018	
		Tidoo		Catalog # :	12512ST3QIE	RB445T-W2
Performance		: 400 V 50 Hz 6P IE2				
Rated current		: 138 A	Moment o	of inertia (J)	: 104 sq.ft.lb	
LRC	:	: 7.0	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor torq		: 533 ft.lb : 229 %	Insulation Service fa		: F : 1.00	
Breakdown torqu		250 %	Temperat		: 80 K	
Rated speed		: 985 rpm	Design		: B	
Heating constant	İ					
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
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Performed by					Б	David
Checked by	13/04/2022				Page 20 / 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			21 / 36	

Three Phase Induction Motor - Squirrel Cage

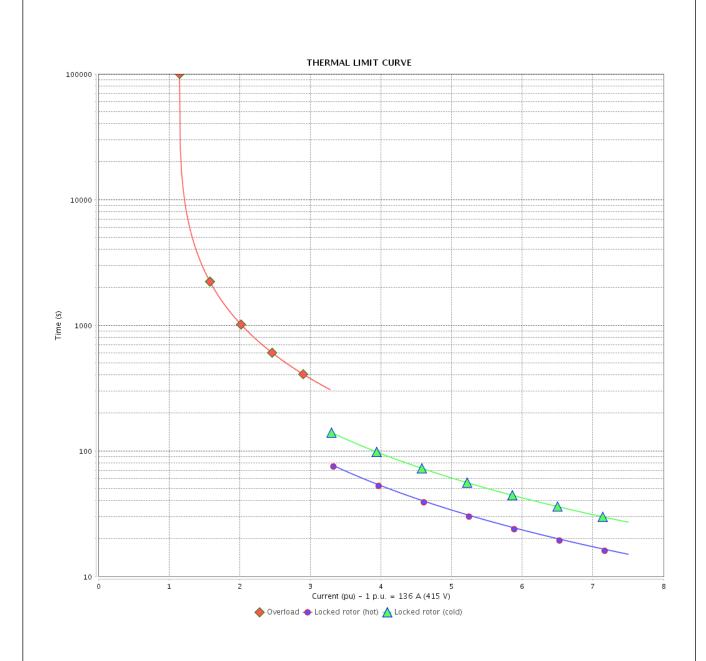


Customer	:			
Product line	: NEMA Premium Efficiency Phase		11708018	
		Catalog #:	12512ST3QIE	RB445T-W2
Performance	: 415 V 50 Hz 6P IE3			
Rated current LRC	: 136 A : 7.5 : 523 ft lb	Moment of inertia (J) Duty cycle	: 104 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque	: 533 ft.lb : 250 %	Insulation class Service factor	: F : 1.00	
Breakdown torque	: 280 %	Temperature rise	: 80 K	
Rated speed	: 985 rpm	Design	: B	
Heating constant				
Cooling constant	-			
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
	04/2022		22 / 36	1.00101011

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

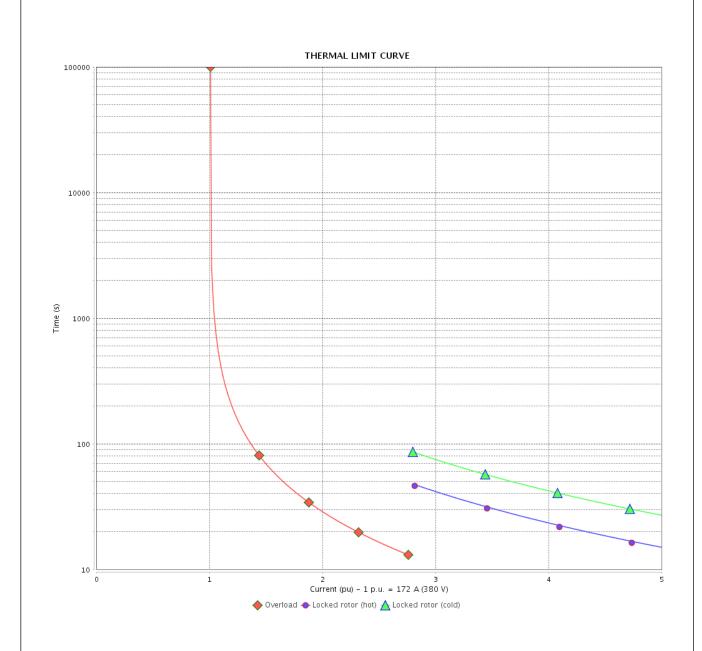


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Product line		: NEMA Premium Efficiency Phase	inree-	Product code :	11708018	
				Catalog # :	12512ST3QIE	RB445T-W2
Performance		: 380 V 50 Hz 6P IE1				
Rated current		: 172 A	Moment o	of inertia (J)	: 104 sq.ft.lb	
LRC Rated torque		: 5.0 : 670 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que	: 160 %	Service fa	actor	: 1.00	
Breakdown torqu	ue	: 180 %	Temperat	ure rise	: 105 K	
Rated speed		: 980 rpm	Design		: B	
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Cooling constant	t	Changes Summers		Performed	Checked	Date
rev.		Changes Summary		renomea	Спескеа	Date
Performed by						
Checked by					Page	Revision
Date 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

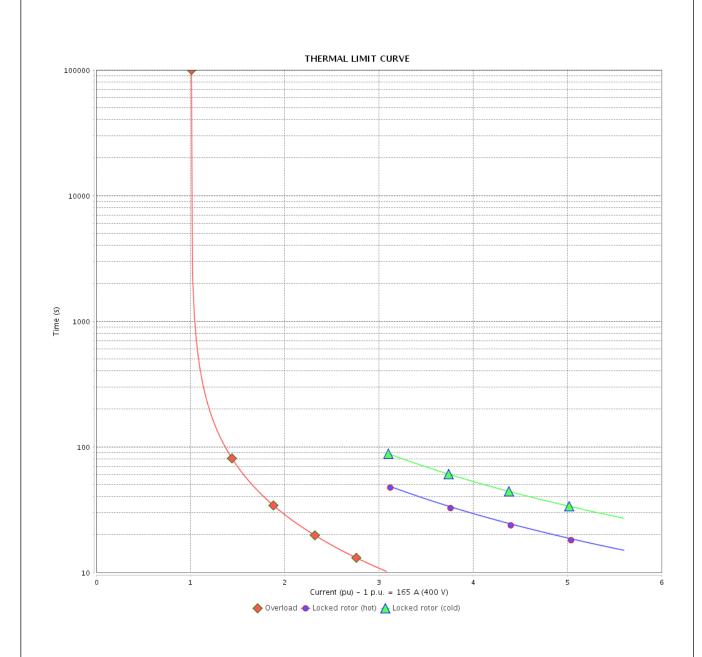


Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	11708018	
		1 11000		Catalog # :	12512ST3QIE	RB445T-W2
Performance		: 400 V 50 Hz 6P IE1				
Rated current		: 165 A	Moment of	of inertia (J)	: 104 sq.ft.lb	
LRC Rated torque		: 5.6 : 670 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord		: 180 %	Service fa		. r : 1.00	
Breakdown torqu	ue	: 200 %	Temperat	ure rise	: 105 K	
Rated speed		: 980 rpm	Design		: B 	
Heating constant						
Cooling constant	t	Changes Summary		Performed	Checked	Date
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Performed by						
Checked by					Page	Revision
	13/04/2022				26 / 36	

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

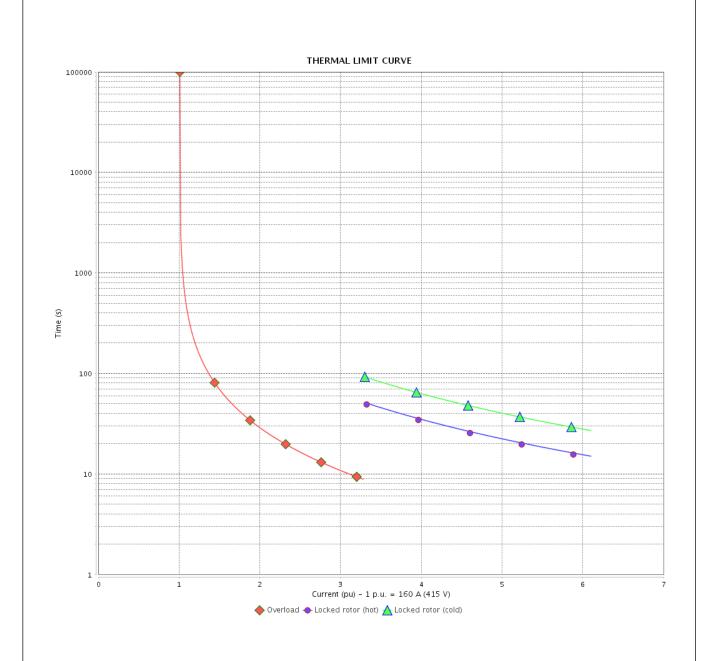


Customer	:				
Product line	: NEMA Premium Efficiency ¹ Phase		Product code :	11708018	
			Catalog # :	12512ST3QIE	RB445T-W2
Performance	: 415 V 50 Hz 6P IE2				
LRC Rated torque Locked rotor torque Breakdown torque	: 160 A : 6.1 : 666 ft.lb : 200 % : 220 % : 985 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 104 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
	•				
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



Customer



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

Three Phase Induction Motor - Squirrel Cage



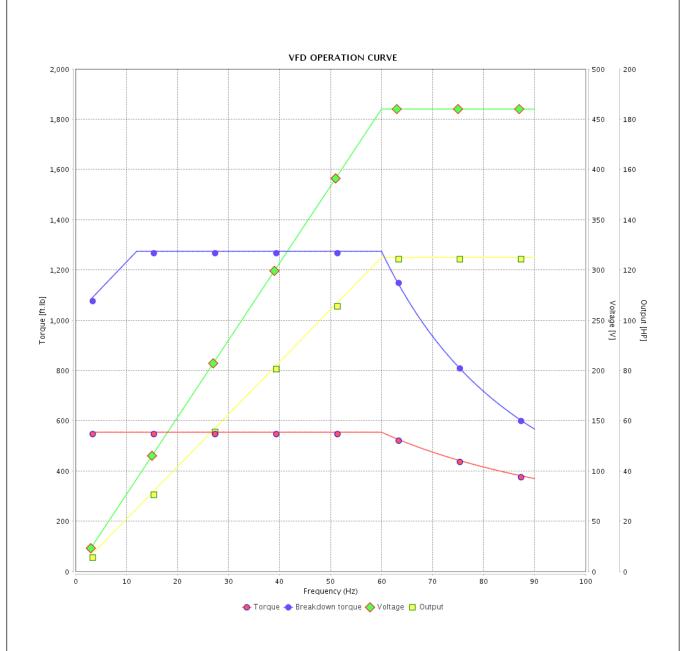
Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11708018

Phase

Catalog #: 12512ST3QIERB445T-W2

30 / 36



Performance	: 460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 143 A : 6.3 : 554 ft.lb : 210 % : 229 % : 1185 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 104 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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13/04/2022

Date

Three Phase Induction Motor - Squirrel Cage



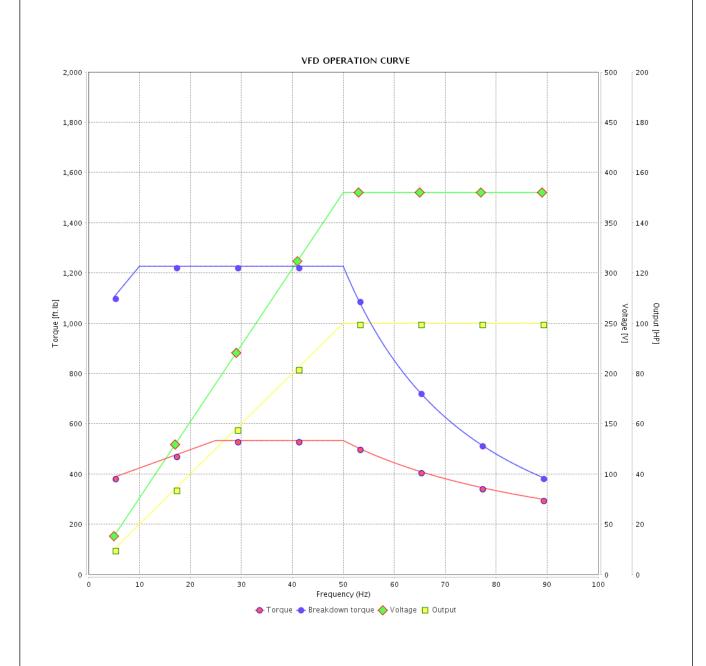
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 12512ST3QIERB445T-W2

11708018



Performance	: 3	: 380 V 50 Hz 6P IE3				
		43 A	1	Moment of inertia (J)		
LRC	: 6	.3	Duty cycle)	: Cont.(S1)	
Rated torque	: 5	33 ft.lb	Insulation	class	: F	
Locked rotor torqu	Locked rotor torque : 200 %		Service fa	ctor	: 1.00	
Breakdown torque		29 %	Temperati	Temperature rise		
Rated speed	: 98	85 rpm	Design		: B	
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Checked by					Page	Revision
Date	13/04/2022	1			31 / 36	

Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three- Produ

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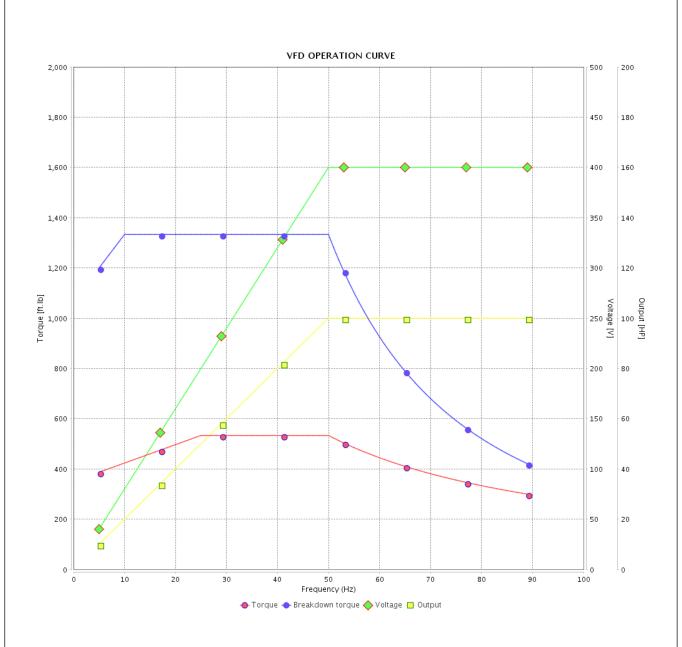
Product code: 11708018

Catalog #: 12512ST3QIERB445T-W2

Page

32 / 36

Revision



Performance	: 4	00 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7 : 5 jue : 2	38 A 7.0 333 ft.lb 229 % 250 % 85 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 104 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Performed by						

Three Phase Induction Motor - Squirrel Cage

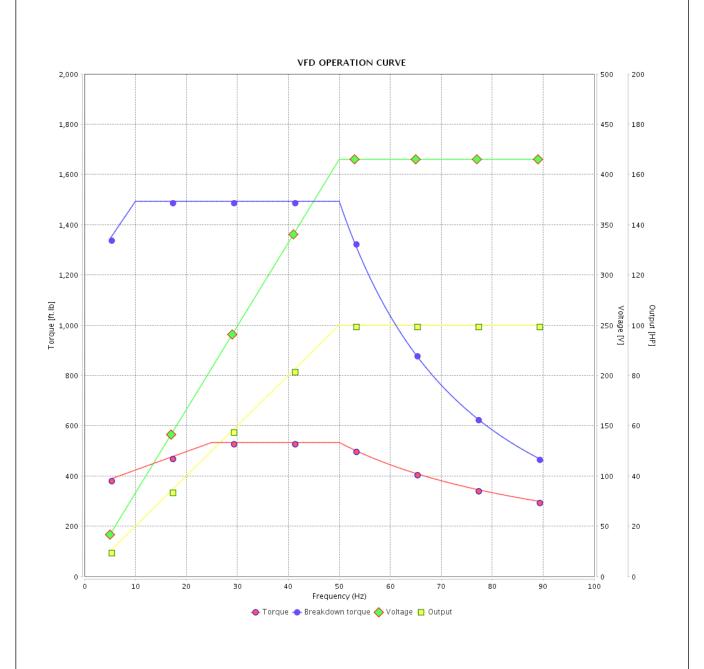


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11708018

Phase

Catalog #: 12512ST3QIERB445T-W2



Performance	: 4	415 V 50 Hz 6P IE3	}				
Rated current : 136 A		Moment o	Moment of inertia (J)				
LRC	: 7	7.5	Duty cycle		: Cont.(S1)		
Rated torque	:	533 ft.lb	Insulation	class	: F		
Locked rotor torqu	ie : 2	250 %	Service fa	ctor	: 1.00		
Breakdown torque : 280		280 %	Temperatu	Temperature rise		: 80 K	
Rated speed	: 9	985 rpm	Design		: B		
Rev.		Changes Summa	nry	Performed	Checked	Date	
Performed by							
Checked by					Page	Revision	
Date	13/04/2022				33 / 36		

Three Phase Induction Motor - Squirrel Cage



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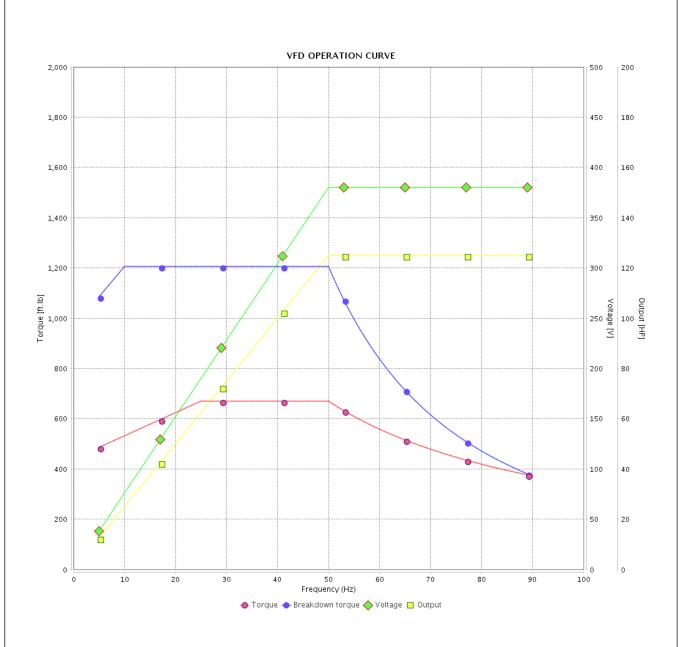
Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 11708018

Catalog #: 12512ST3QIERB445T-W2

34 / 36



Performance	: 380 V 50 Hz 6P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 172 A : 5.0 : 670 ft.lb : 160 % : 180 % : 980 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 104 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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13/04/2022

Date

Three Phase Induction Motor - Squirrel Cage



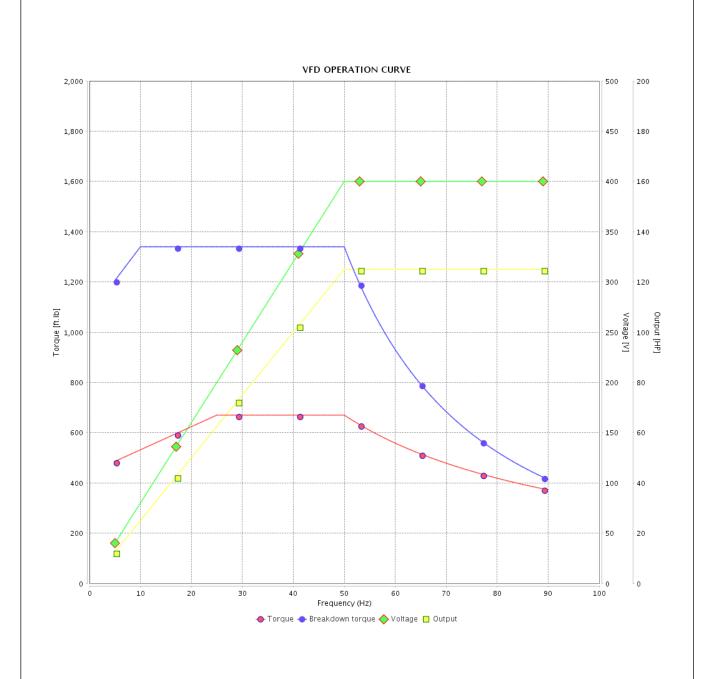
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 12512ST3QIERB445T-W2

11708018



Performance	:	: 400 V 50 Hz 6P IE1					
Rated current	:	165 A	Moment o	Moment of inertia (J)		: 104 sq.ft.lb	
LRC	:	5.6	Duty cycle)	: Cont.(S1)		
Rated torque	:	670 ft.lb	Insulation	class	: F		
Locked rotor torque	:	: 180 % Service factor		ctor	: 1.00		
Breakdown torque	:	200 %	Temperati	Temperature rise			
Rated speed	:	: 980 rpm			: B		
Rev.		Changes Summary		Performed	Checked	Date	
Performed by							
Checked by					Page	Revision	
Data	13/04/2022				35 / 36		

Three Phase Induction Motor - Squirrel Cage

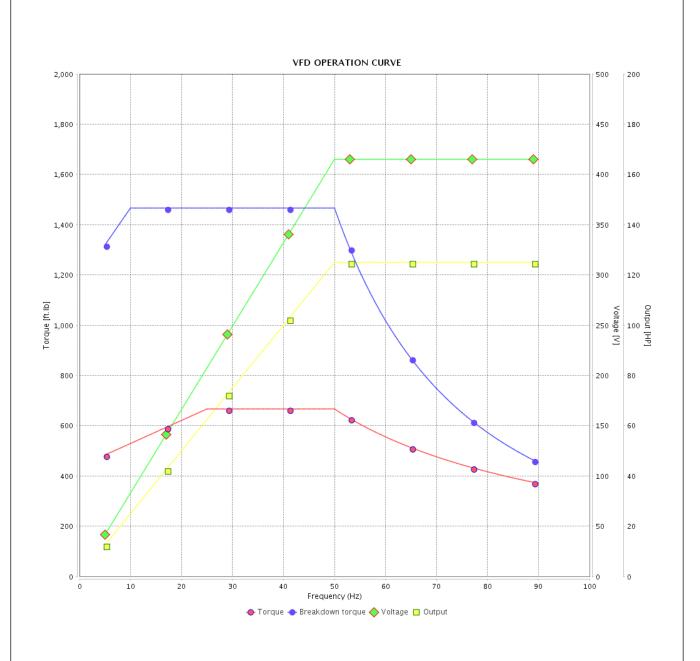


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11708018

Phase

Catalog #: 12512ST3QIERB445T-W2



Performance	: 4	115 V 50 Hz 6P IE2	2				
Rated current : 16		160 A	Moment of	Moment of inertia (J)		: 104 sq.ft.lb	
LRC : 6.		3.1	Duty cycle	Duty cycle			
Rated torque	: 6	666 ft.lb	Insulation	Insulation class			
Locked rotor torque : 2		200 %	Service fa	Service factor			
Breakdown torque		220 %	Temperat	Temperature rise		: 105 K	
Rated speed	: 9	985 rpm	Design		: B		
Rev.		Changes Summa	ary	Performed	Checked	Date	
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Checked by					Page	Revision	
Date	13/04/2022				36 / 36		

