### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14325713

Catalog #: 25012ST3QIERB449T-W2

Frame : 447/9T 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

: 1000 m.a.s.l. Approx. weight<sup>3</sup> : 2538 lb Altitude Protection degree : IP55 Moment of inertia (J) : 145 sq.ft.lb

Design	: B						
Output [HP]	250	200	200	200	250	250	250
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]	292	284	280	273	350	336	326
L. R. Amperes [A]	1781	1732	1904	2020	1680	1848	1956
LRC [A]	6.1x(Code	6.1x(Code	6.8x(Code H)	7.4x(Code J)	4.8x(Code D)	5.5x(Code F)	6.0x(Code
	G)	G)					G)
No load current [A]	120	119	127	134	119	127	134
Rated speed [RPM]	1185	980	980	985	980	980	985
Slip [%]	1.25	2.00	2.00	1.50	2.00	2.00	1.50
Rated torque [ft.lb]	1110	1070	1070	1070	1340	1340	1330
Locked rotor torque [%]	240	220	260	280	180	210	229

Breakdown torque	[%]	240	240	260	280	190	210	229
Service factor		1.15	1.15	1.15	1.15	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K	105 K	105 K	105 K
Locked rotor time		21s (cold)	18s (cold)	18s (cold)				
		12s (hot)	10s (hot)	10s (hot)				
Noise level <sup>2</sup>		70.0 dB(A)						
	25%	94.5	94.6	94.5	94.4	94.9	1.00 105 K 1) 18s (cold)	94.3
Efficiency (%)	50%	95.0	94.8	94.7	94.6	95.0	94.5	94.5
Linciency (70)	75%	95.4	95.5	95.5	95.5	94.5	94.5	95.0
	100%	95.8	95.5	95.5	95.5	94.5	94.5	95.0
	25%	0.43	0.42	0.40	0.36	0.49	0.46	0.43
Power Factor	50%	0.68	0.68	0.65	0.61	0.74	0.71	0.68
Fower Factor	75%	0.79	0.79	0.77	0.74	0.83	0.81	0.79
	100%	0.83	0.84	0.81	0.80	0.85	0.84	0.83

Drive end Non drive end Foundation loads Bearing type NU-322 C3 6319 C3 Max. traction

Mobil Polyrex EM

60 g

: 6903 lb Sealing Inpro/Seal Inpro/Seal : 9441 lb Max. compression Lubrication interval 7000 h 13000 h Lubricant amount

45 g

Notes

Lubricant type

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.

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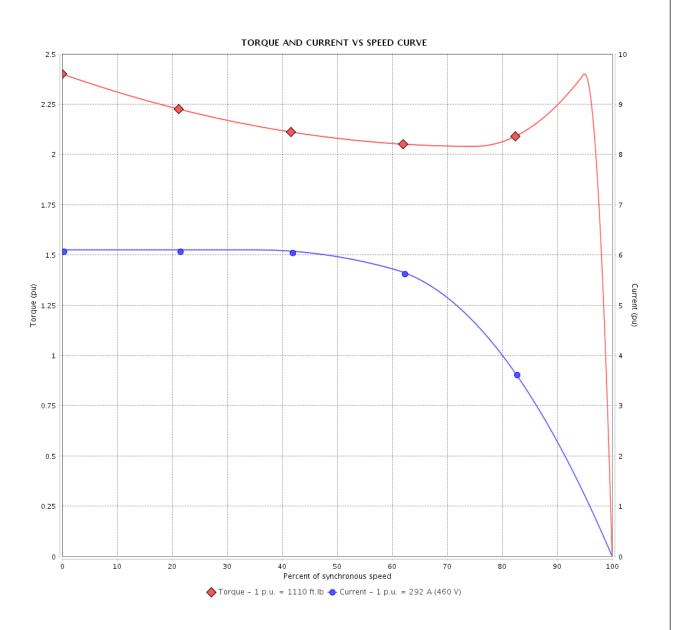


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14325713

Phase

Catalog #: 25012ST3QIERB449T-W2



Performance : 460 V 60 Hz 6P Rated current : 292 A Moment of inertia (J) : 145 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) : F : 1110 ft.lb Insulation class Rated torque : 240 % Service factor Locked rotor torque : 1.15 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1185 rpm Design : B

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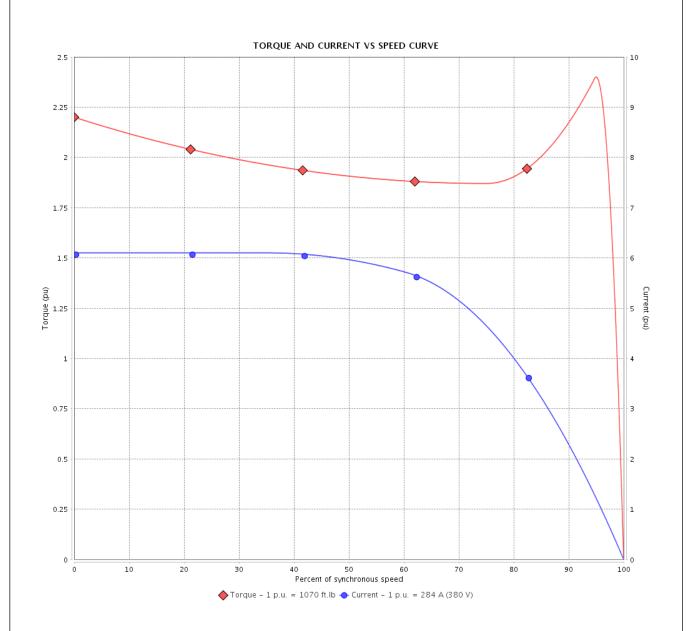


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14325713

Phase

Catalog #: 25012ST3QIERB449T-W2



Performance	: 380 V 50 Hz 6P IE3			
Rated current	: 284 A	Moment of inertia (J)	: 145 sq.ft.lb	
LRC	: 6.1	Duty cycle	: Cont.(S1)	
Rated torque	: 1070 ft.lb	Insulation class	:F	
Locked rotor torque	: 220 %	Service factor	: 1.15	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 980 rpm	Design	: B	

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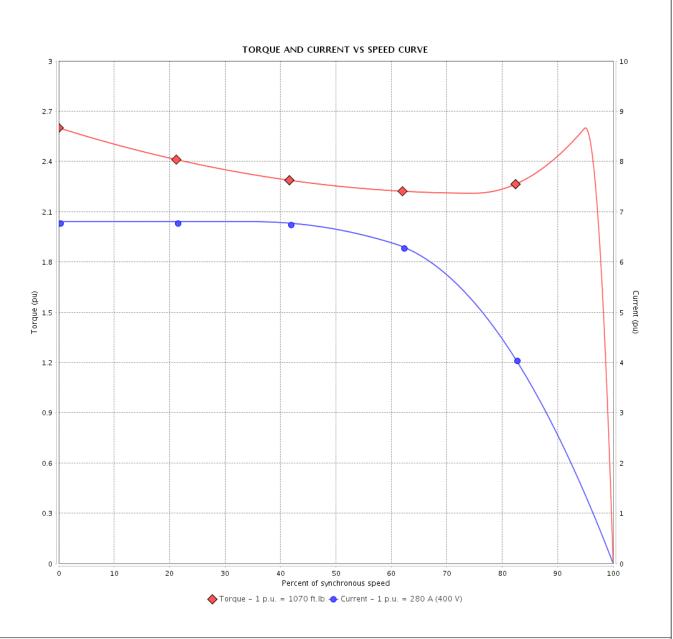
Customer :

Product line : NEMA Premium Efficiency Three- Pro

Phase

Product code: 14325713

Catalog #: 25012ST3QIERB449T-W2



Performance	: 400 V 50 Hz 6P IE3		
Rated current	: 280 A	Moment of inertia (J) Duty cycle Insulation class Service factor	: 145 sq.ft.lb
LRC	: 6.8		: Cont.(S1)
Rated torque	: 1070 ft.lb		: F
Locked rotor torque	: 260 %		: 1.15
Breakdown torque	: 260 %	Temperature rise Design	: 80 K
Rated speed	: 980 rpm		: B
Looked roter time	: 10a (aald) 10a (bat)		

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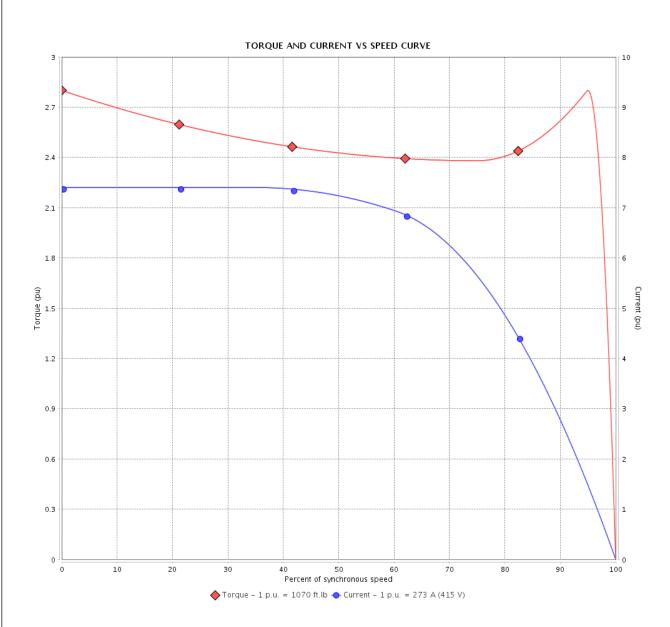


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14325713

Phase

Catalog #: 25012ST3QIERB449T-W2



Performance	: 415 V 50 Hz 6P IE3			
Rated current	: 273 A	Moment of inertia (J)	: 145 sq.ft.lb	
LRC	: 7.4	Duty cycle	: Cont.(S1)	
Rated torque	: 1070 ft.lb	Insulation class	: F	
Locked rotor torque	: 280 %	Service factor	: 1.15	
Breakdown torque	: 280 %	Temperature rise	: 80 K	
Rated speed	: 985 rpm	Design	: B	

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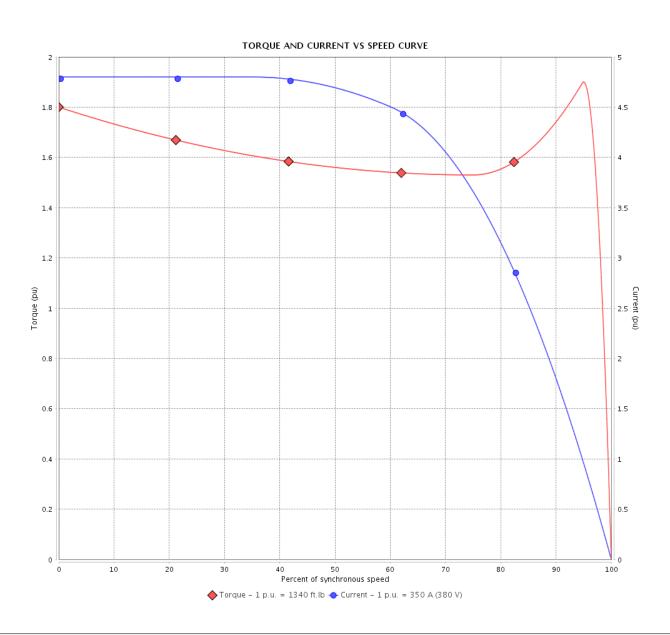
Customer :

Product line : NEMA Premium Efficiency Three- Product co

Phase

Product code: 14325713

Catalog #: 25012ST3QIERB449T-W2



Performance : 380 V 50 Hz 6P IE1 Rated current : 350 A Moment of inertia (J) : 145 sq.ft.lb **LRC** : 4.8 Duty cycle : Cont.(S1) : 1340 ft.lb Insulation class Rated torque : F Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 190 % Temperature rise : 105 K Rated speed : 980 rpm Design : B

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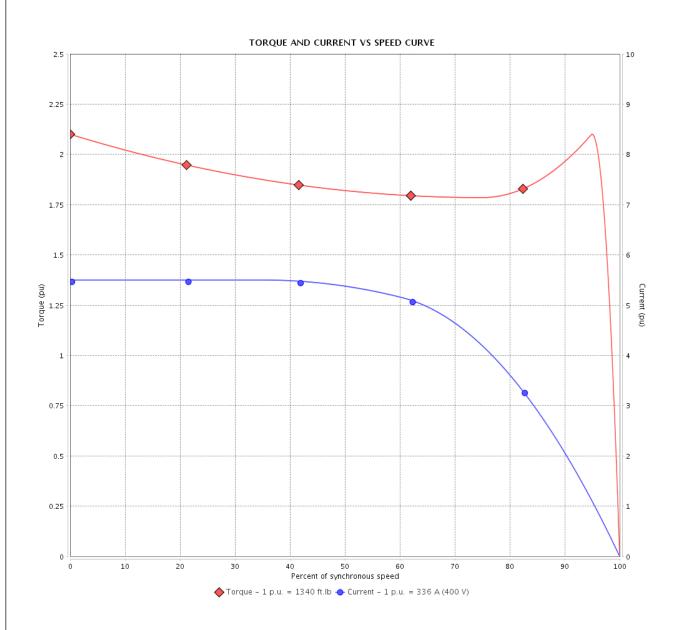
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 14325713

Catalog #: 25012ST3QIERB449T-W2



Performance	: 400 V 50 Hz 6P IE1			
Rated current	: 336 A	Moment of inertia (J)	: 145 sq.ft.lb	
LRC	: 5.5	Duty cycle	: Cont.(S1)	
Rated torque	: 1340 ft.lb	Insulation class	: F	
Locked rotor torque	: 210 %	Service factor	: 1.00	
Breakdown torque	: 210 %	Temperature rise	: 105 K	
Rated speed .	: 980 rpm	Design	: B	
Locked rotor time	· 18s (cold) 10s (hot)			

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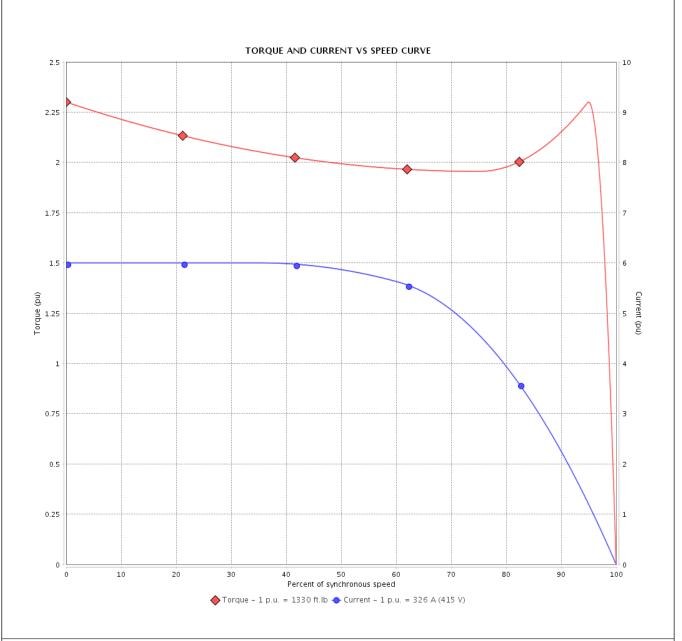


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14325713

Phase

Catalog #: 25012ST3QIERB449T-W2



Performance : 415 V 50 Hz 6P IE2 Rated current : 326 A Moment of inertia (J) : 145 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) : 1330 ft.lb Insulation class Rated torque : F : 229 % Service factor Locked rotor torque : 1.00 Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 985 rpm Design : B

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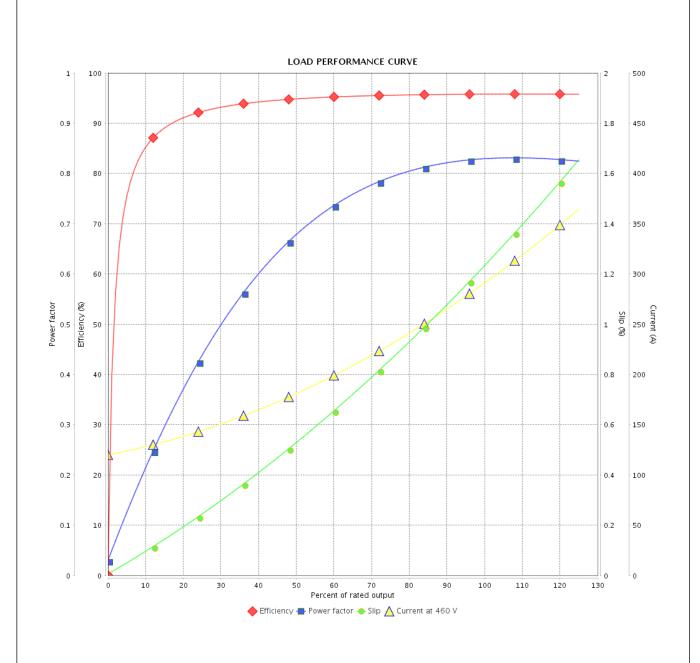
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Performance	: 460 V 60 Hz 6P				
Rated current : 292 A LRC : 6.1 Rated torque : 1110 ft.lb Locked rotor torque : 240 % Breakdown torque : 240 % Rated speed : 1185 rpm		Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 145 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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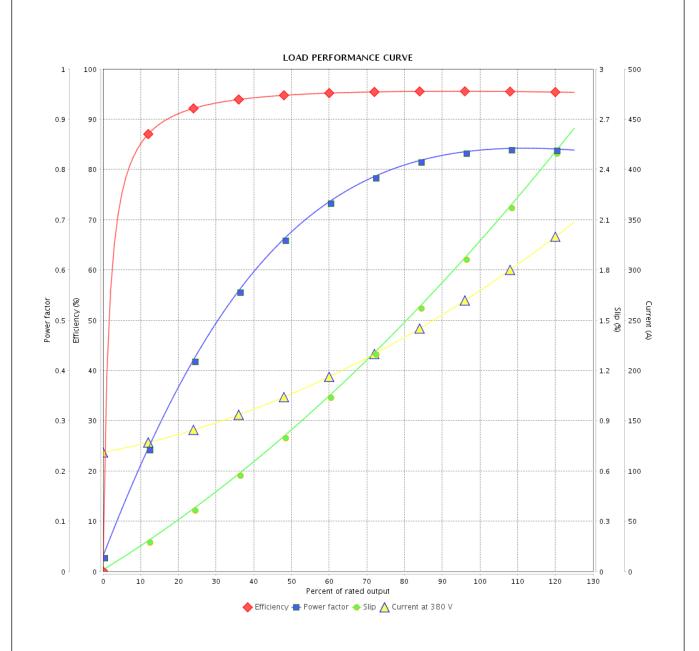
Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14325713

Phase

Catalog #: 25012ST3QIERB449T-W2

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					,	
Performance	::	380 V 50 Hz 6P IE	3			
Rated current : 284 A LRC : 6.1 Rated torque : 1070 ft.lb Locked rotor torque : 220 % Breakdown torque : 240 % Rated speed : 980 rpm		Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 145 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B		
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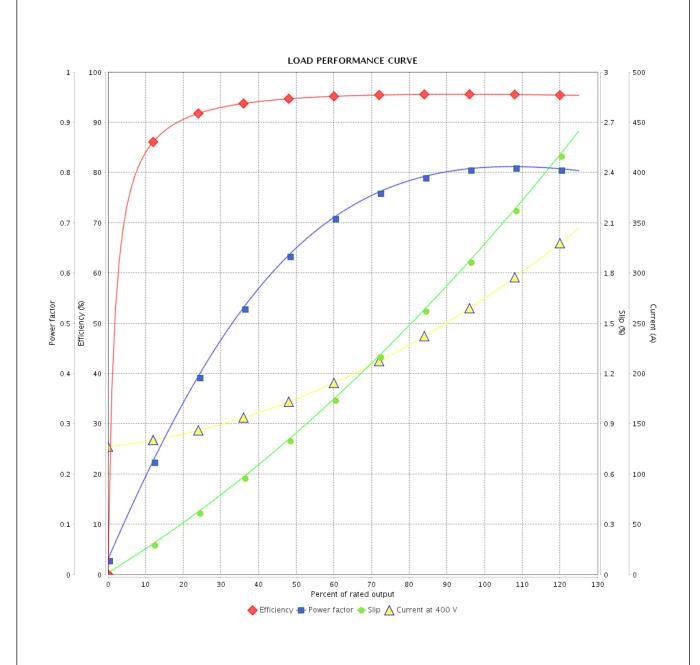


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14325713

Phase

Catalog #: 25012ST3QIERB449T-W2



Performance	: 4	00 V 50 Hz 6P IE3				
Rated current	: 2	280 A	Moment o	f inertia (J)	: 145 sq.ft.lb	
LRC	: 6	5.8	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 1	070 ft.lb	Insulation	class	: F	
Locked rotor torque		.60 %	Service fa	ctor	: 1.15	
Breakdown torque	: 2	.60 %	Temperature rise		: 80 K	
Rated speed	: 9	180 rpm	Design		: B	
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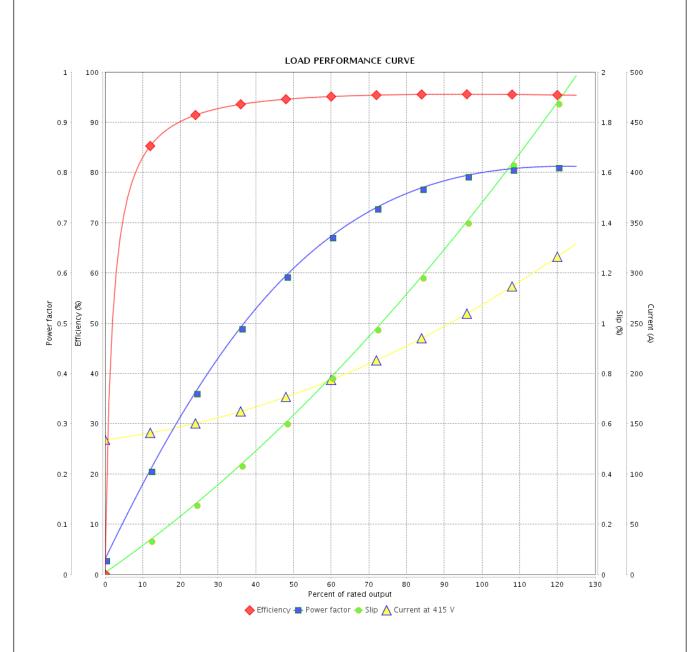
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 25012ST3QIERB449T-W2

14325713



Performance : 415 V 50 Hz 6P IE3 : 273 A Rated current Moment of inertia (J) : 145 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 1070 ft.lb Insulation class Rated torque : F Locked rotor torque : 280 % Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 985 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

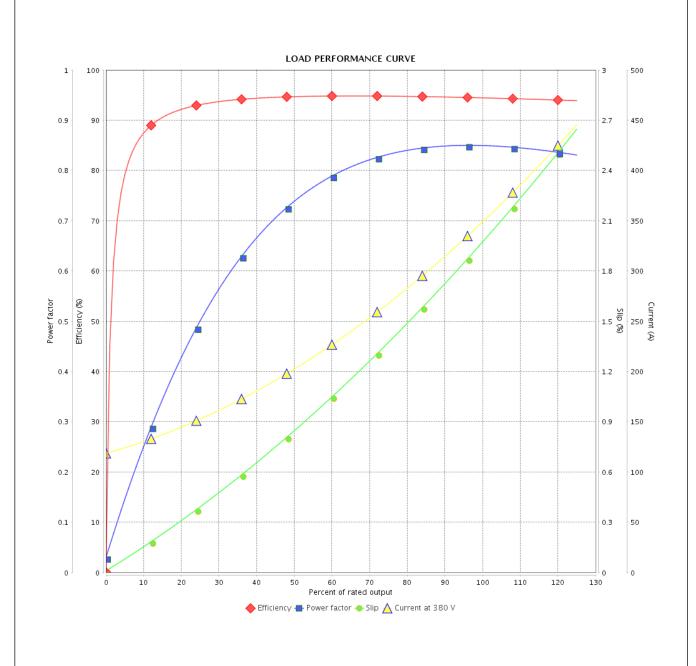
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14325713

Catalog #: 25012ST3QIERB449T-W2



Performance	erformance : 380 V 50 Hz 6P IE1					
Rated current		350 A	Moment o	f inertia (J)	: 145 sq.ft.lb	
LRC	: 4	1.8	Duty cycle	<b>:</b>	: Cont.(S1)	
Rated torque		1340 ft.lb	Insulation	class	: F ` ´	
Locked rotor torque		180 %	Service fa	ctor	: 1.00	
Breakdown torque	: 1	190 %	Temperature rise		: 105 K	
Rated speed	: 9	980 rpm	Design		: B	
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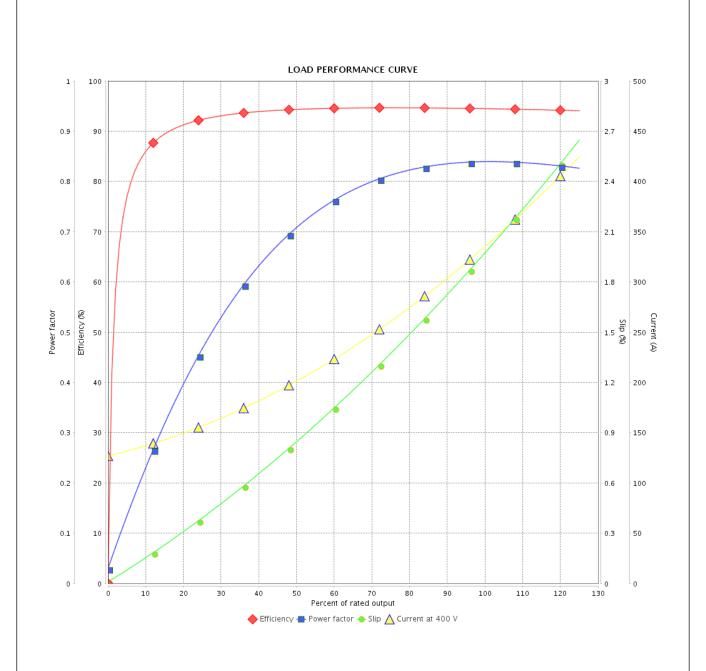
Customer

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Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 25012ST3QIERB449T-W2

14325713



Performance : 400 V 50 Hz 6P IE1 : 336 A Rated current Moment of inertia (J) : 145 sq.ft.lb **LRC** : 5.5 Duty cycle : Cont.(S1) : 1340 ft.lb Insulation class Rated torque : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 210 % Temperature rise : 105 K Rated speed : 980 rpm Design : B Rev. Performed Checked Date **Changes Summary** 

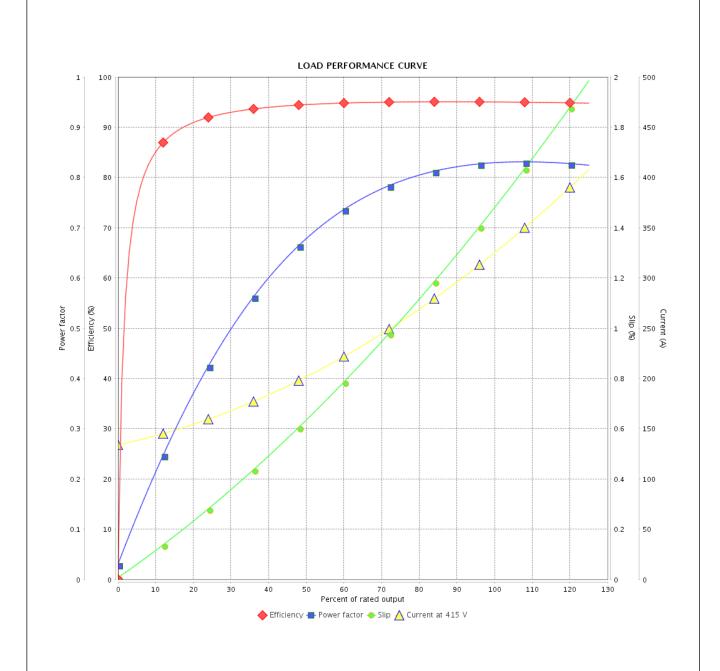
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14325713

Catalog #: 25012ST3QIERB449T-W2



Performance	erformance : 415 V 50 Hz 6P IE2					
Rated current		326 A	Moment o	f inertia (J)	: 145 sq.ft.lb	
LRC	: 6	3.0	Duty cycle	}	: Cont.(S1)	
Rated torque		1330 ft.lb	Insulation	class	:F ´	
Locked rotor torque		229 %	Service fa	ctor	: 1.00	
Breakdown torque	: : 2	229 %	6 Temperature rise		: 105 K	
Rated speed	: 9	985 rpm	Design		: B	
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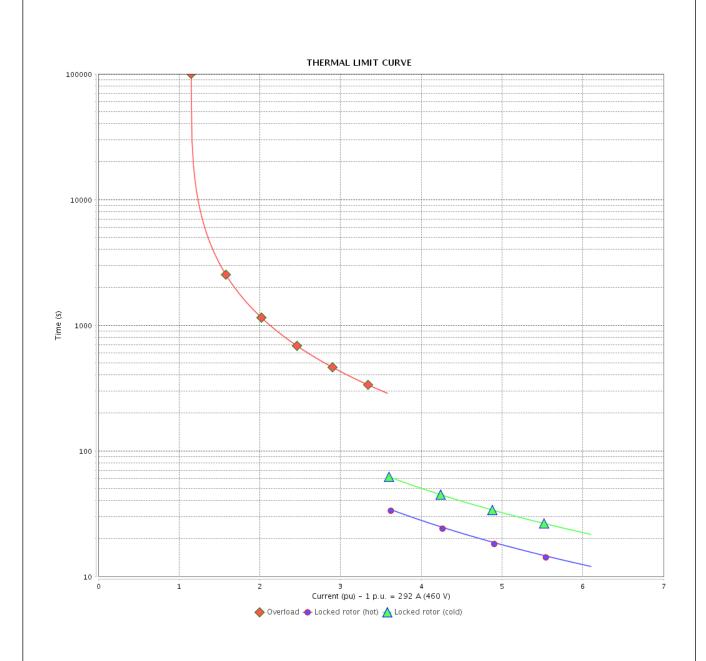


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Customer	:					
Product line		EMA Premium Efficiency <sup>-</sup> ase		Product code :	14325713	
			(	Catalog # :	25012ST3QIE	-RB4491-W2
Performance	· 460	) V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 292 : 6.1 : 111 : 240 : 240	2 A 0 ft.lb 0 %	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor	: 145 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
		-				
Heating constant Cooling constant						
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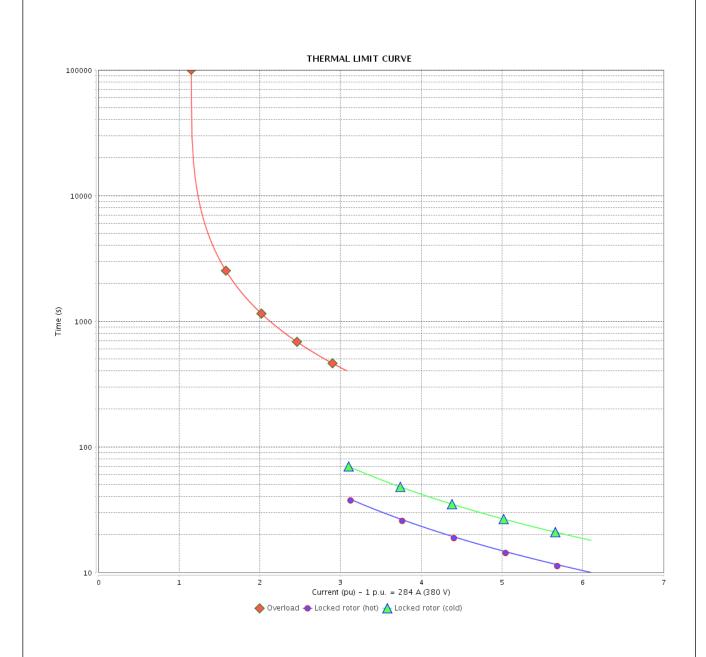


Customer	:			,	
Product line	: NEMA Premium Efficier Phase		Product code : Catalog # :	14325713 25012ST3QIE	ERB449T-W2
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 380 V 50 Hz 6P IE3 : 284 A : 6.1 : 1070 ft.lb : 220 % : 240 % : 980 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class actor	: 145 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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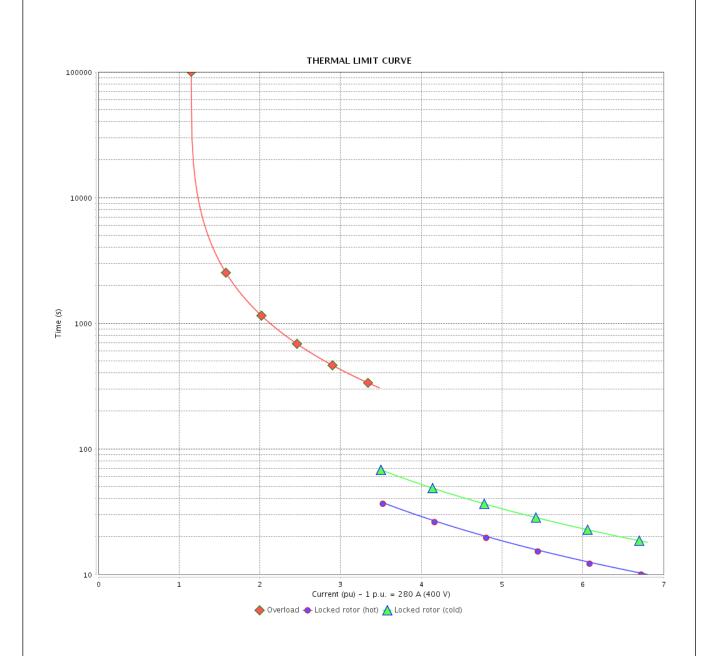


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Product line		: NEMA Premium Efficiency <sup>*</sup> Phase		Product code : Catalog # :	14325713 25012ST3QIE	RB449T-W2
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: : : : : : : : :	400 V 50 Hz 6P IE3 280 A 6.8 1070 ft.lb 260 % 260 % 980 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 145 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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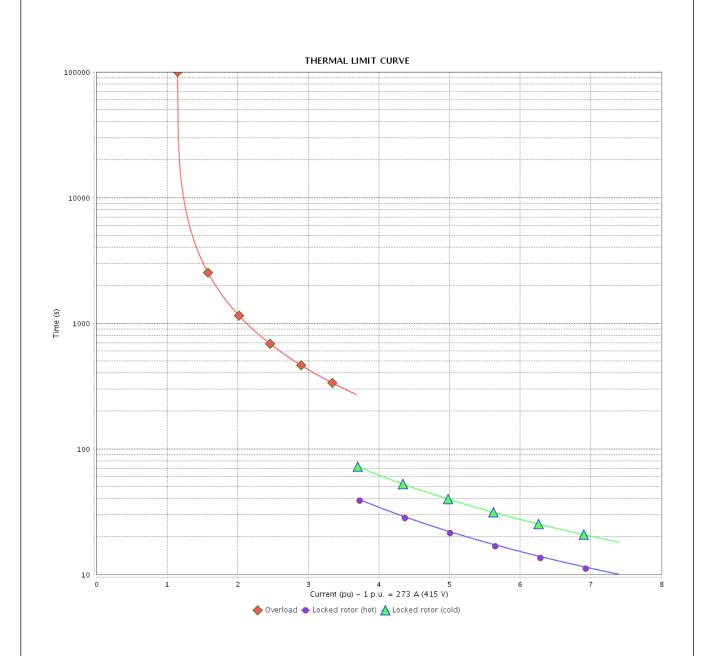


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Product line		NEMA Premium Efficiency Thase	Γhree- I	Product code :	14325713	
		1830	(	Catalog # :	25012ST3QIE	ERB449T-W2
Performance	: 41	15 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 27 : 7. : 10 ue : 28 e : 28	73 A	Moment of Duty cycle Insulation Service fac Temperatu Design	class ctor	: 145 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant		•				
Cooling constant						
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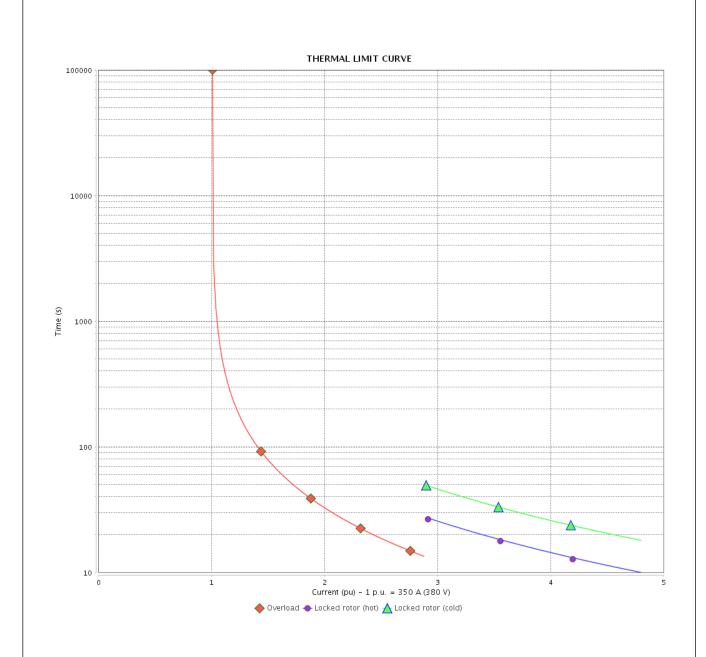


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	14325713 25012ST3QIE	FRB449T-W2
					20012010Q1	
Performance		: 380 V 50 Hz 6P IE1				
Rated current LRC		: 350 A : 4.8	Moment of Duty cycle	of inertia (J)	: 145 sq.ft.lb	
Rated torque		: 1340 ft.lb	Insulation	class	: Cont.(S1) : F	
Locked rotor tord		: 180 % : 190 %	Service fa		: 1.00 : 105 K	
Breakdown torqu Rated speed		: 980 rpm	Temperat Design	uic lisc	: 105 K : B	
Heating constant	t					
Cooling constant						
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### Three Phase Induction Motor - Squirrel Cage

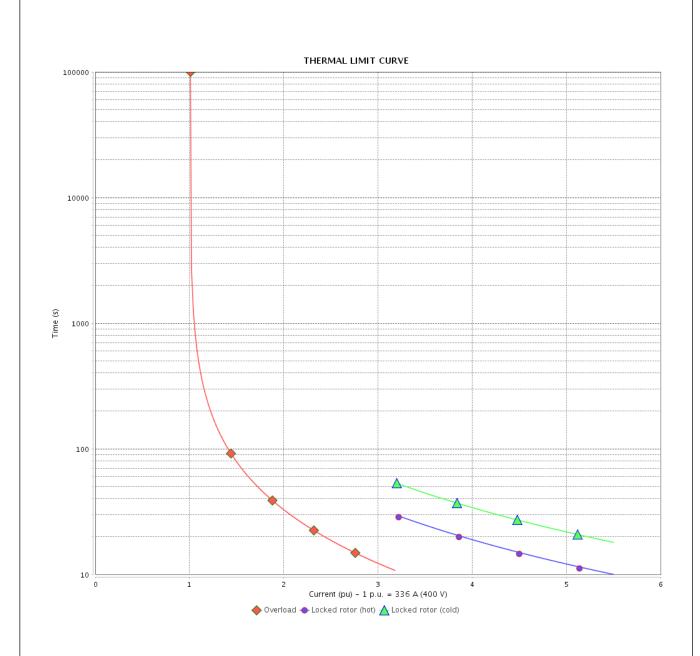


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	14325713 25012ST3QIE	:RB449T-W2
					20012010Q1	
Performance		: 400 V 50 Hz 6P IE1	I			
Rated current LRC		: 336 A : 5.5	Moment of Duty cycle	of inertia (J)	: 145 sq.ft.lb : Cont.(S1)	
Rated torque		: 1340 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 210 % : 210 %	Service fa Temperati		: 1.00 : 105 K	
Rated speed		: 980 rpm	Design		: B	
Heating constan						
Cooling constant	t	Changes Commercial		Douts was!	Charles	Data
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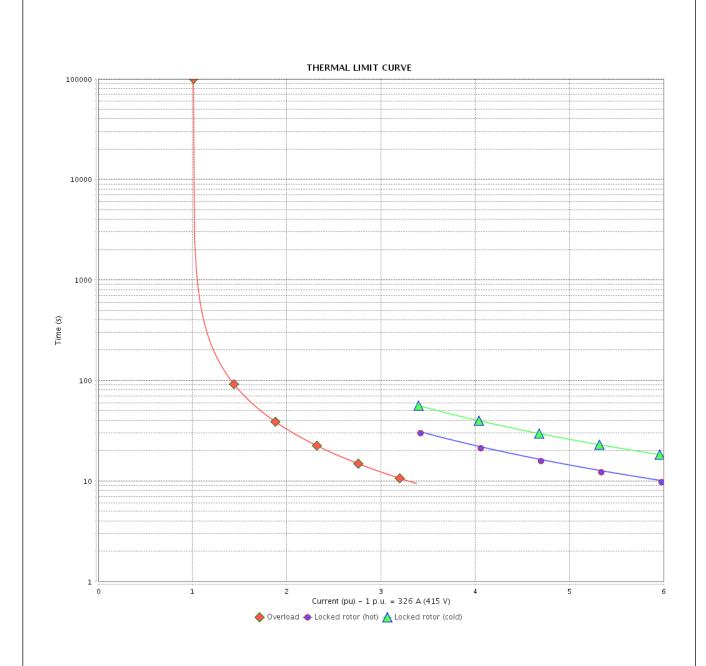


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	14325713 25012ST3QIE	ERB449T-W2
Performance		415 V 50 Hz 6P IE2				
Rated current LRC	:	326 A 6.0	Moment of	of inertia (J)	: 145 sq.ft.lb : Cont.(S1)	
Rated torque	:	1330 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		229 % 229 %	Service fa Temperati		: 1.00 : 105 K	
Rated speed		985 rpm	Design	ui 0 1100	: B	
Heating constan						
Cooling constant	t	Ohamma - Orress		Derferen I	Ob selection !	Data
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Product line : NEMA Premium Efficiency Three- Product

Phase

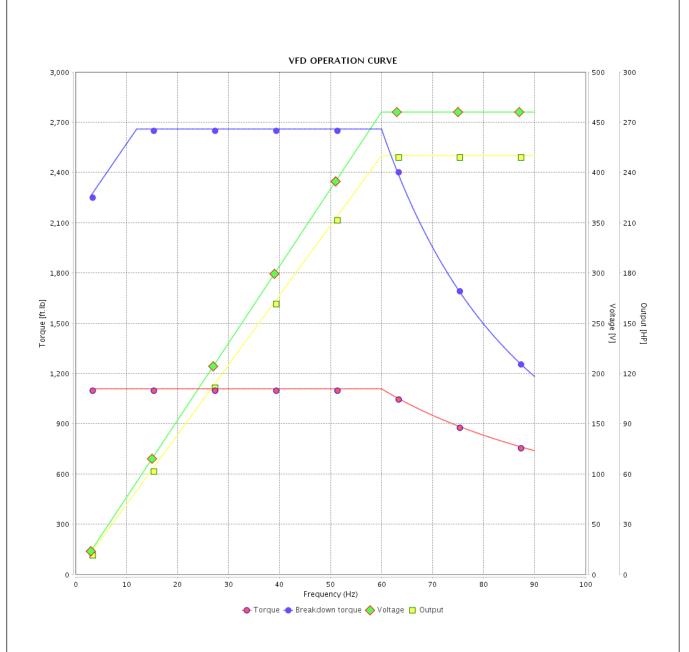
Product code: 14325713

Catalog #: 25012ST3QIERB449T-W2

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Performance : 460 V 60 Hz 6P : 292 A Rated current Moment of inertia (J) : 145 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.1 Insulation class : 1110 ft.lb : F Rated torque Locked rotor torque : 240 % Service factor : 1.15 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1185 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

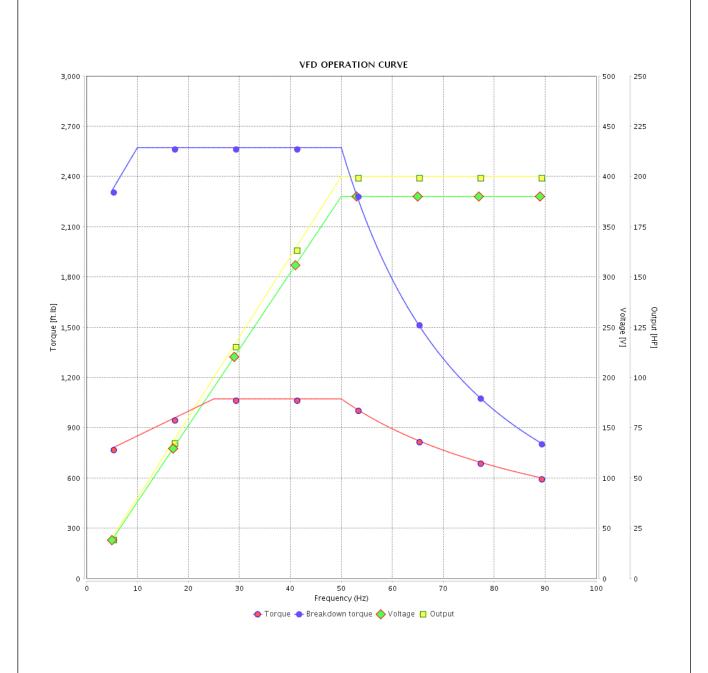
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14325713

Catalog #: 25012ST3QIERB449T-W2



Performance	: 3	80 V 50 Hz 6P IE3					
Rated current	: 2	84 A	A Moment of inertia (J)		: 145 sq.ft.lb		
LRC	: 6	.1	Duty cycle	<del>)</del>	: Cont.(S1)		
Rated torque	: 1	070 ft.lb	Insulation	class	: F		
Locked rotor torqu	ie : 2	20 %	Service fa	ctor	: 1.15		
Breakdown torque	: 2	40 %	Temperature rise		: 80 K		
Rated speed	: 9	80 rpm	Design		: B		
Rev.		Changes Summary	<u> </u>	Performed	Checked	Date	
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

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Product line : NEMA Premium Efficiency Three- Product

Phase

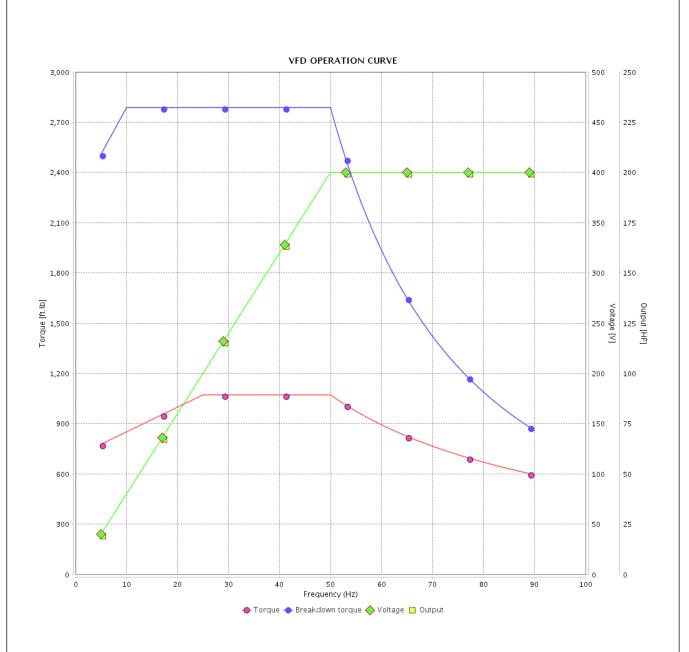
Product code: 14325713

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Revision



					,	
Performance	: 400 V 50 Hz 6P	IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 280 A : 6.8 : 1070 ft.lb : 260 % : 260 % : 980 rpm	Du Ins Se Te	oment of uty cycle sulation ervice fa emperatu esign	class ctor	: 145 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.	Changes Sum	nmary		Performed	Checked	Date
Performed by						

#### Three Phase Induction Motor - Squirrel Cage

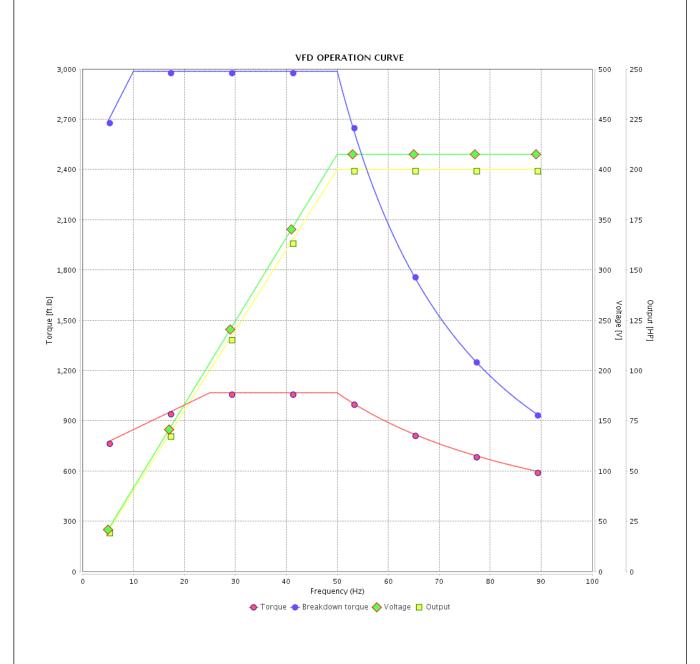


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14325713

Phase

Catalog #: 25012ST3QIERB449T-W2



Performance	: 4	115 V 50 Hz 6P IE3					
Rated current	: 2	273 A	Moment o	f inertia (J)	: 145 sq.ft.lb		
LRC	: 7	7.4	Duty cycle	}	: Cont.(S1)		
Rated torque	: 1	1070 ft.lb	Insulation	class	: F		
Locked rotor torqu	e : 2	280 %	Service fa	ctor	: 1.15		
Breakdown torque	: 2	280 %	Temperatu	Temperature rise		: 80 K	
Rated speed	: 9	985 rpm	Design		: B		
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

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Date

13/04/2022

Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

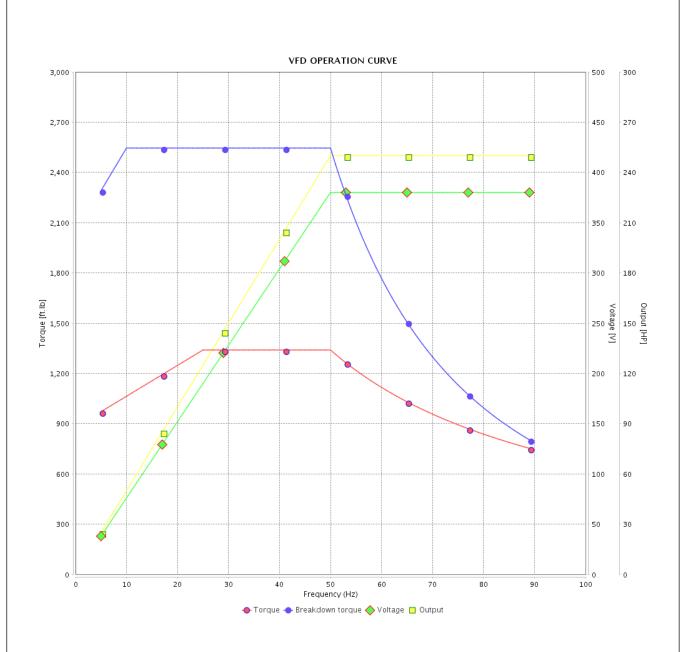
Product code: 14325713

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Performance : 380 V 50 Hz 6P IE1 : 350 A Rated current Moment of inertia (J) : 145 sq.ft.lb **LRC** : 4.8 Duty cycle : Cont.(S1) : 1340 ft.lb Insulation class Rated torque : F Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 190 % Temperature rise : 105 K Rated speed : 980 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

#### Three Phase Induction Motor - Squirrel Cage

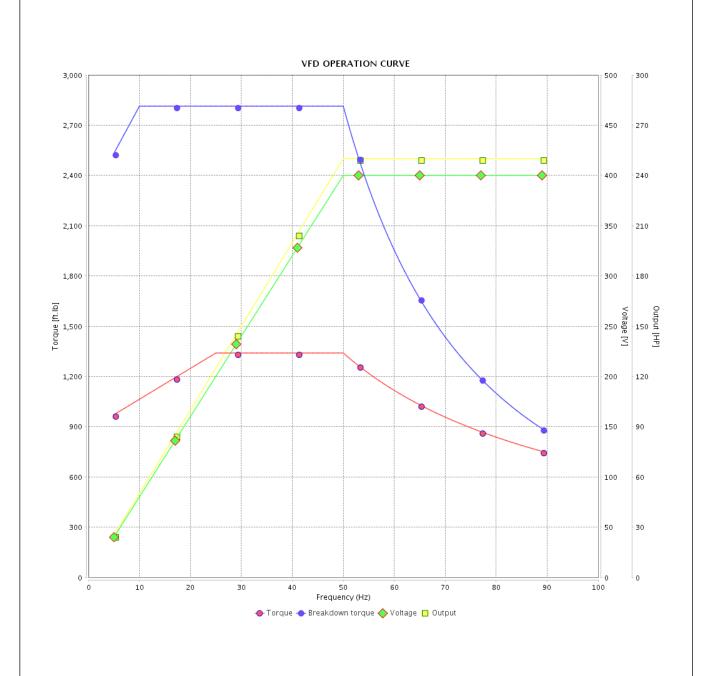


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14325713

Phase

Catalog #: 25012ST3QIERB449T-W2



Performance		: 400 V 50 Hz 6P IE1						
Rated current	::	336 A	Moment of inertia (J)		: 145 sq.ft.lb			
LRC	: :	5.5	Duty cycle		: Cont.(S1)			
Rated torque	:	: 1340 ft.lb Insulati		class	: F			
Locked rotor torg	jue : :	210 %	Service fa	ctor	: 1.00			
Breakdown torqu	ie : :	210 %	Temperati	Temperature rise				
Rated speed	: 9	980 rpm Design			: B			
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

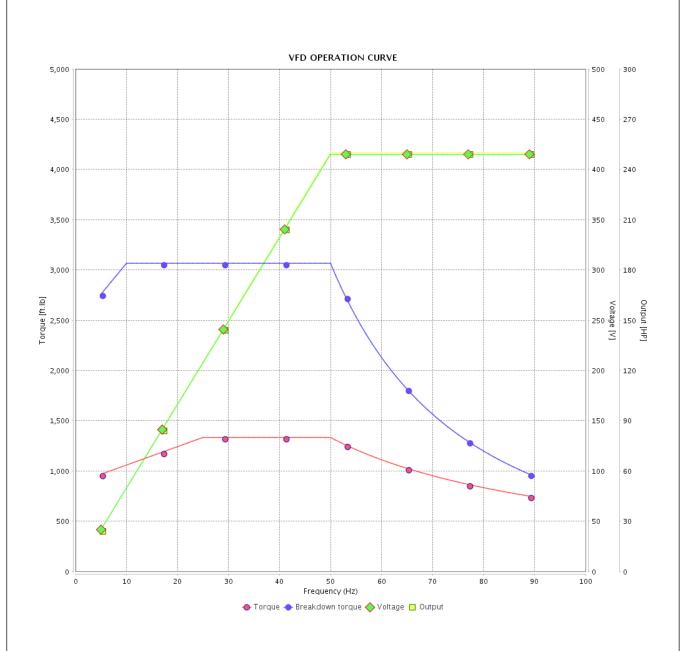
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14325713

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Performance	: 415 V 50 Hz 6P IE2	: 415 V 50 Hz 6P IE2							
Rated current LRC Rated torque	: 326 A : 6.0 : 1330 ft.lb	: 6.0 Duty cycle		: 145 sq.ft.lb : Cont.(S1) : F					
Locked rotor torque Breakdown torque Rated speed	e : 229 %	Service factor Temperature rise Design		: 1.00 : 105 K : B					
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Date

