DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12447815

Catalog #: 04036ST3QIE324TS-W22

Frame : 324/6TS 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

· 1000 m a s l Approx weight³

Altitude		: 1000 m.a.	s.l.	Approx	weight³	Approx. weight ³ : 535 lb				
Protection degre	е	: IP55		Momer	nt of inertia (J)	: 4	.90 sq.ft.lb			
Design		: B			. ,		·			
Output [HP]		40	30	30	30	40	40	40		
Poles		2	2	2	2	2	2	2		
Frequency [Hz]		60	50	50	50	50	50	50		
Rated voltage [V]		460	380	400	415	380	400	415		
Rated current [A]		46.3	41.0	39.4	38.4	56.9	53.7	51.7		
L. R. Amperes [A]		292	295	296	292	285	301	321		
LRC [A]		6.3x(Code	7.2x(Code H)	7.5x(Code H)	7.6x(Code H)	5.0x(Code E)	5.6x(Code F)	6.2x(Code		
		G)						G)		
No load current [A]	11.0	12.0	11.0	12.0	10.0	11.0	12.0		
Rated speed [RPM]		3555	2960	2965	2970	2930	2940	2950		
Slip [%]		1.25	1.33	1.17	1.00	2.33	2.00	1.67		
Rated torque [ft.lb]	Rated torque [ft.lb]		53.2	53.1	53.0	71.7	71.4	71.2		
Locked rotor torqu	Locked rotor torque [%]		240	270	290	180	200	220		
Breakdown torque	[%]	240	250	280	310	200	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	105 K	105 K		
Locked rotor time		81s (cold)	100s (cold)	93s (cold)	90s (cold)	27s (cold)	59s (cold)	59s (cold)		
		45s (hot)	56s (hot)	52s (hot)	50s (hot)	15s (hot)	33s (hot)	33s (hot)		
Noise level ²		76.0 dB(A)	72.0 dB(A)	72.0 dB(A)	72.0 dB(A)	72.0 dB(A)	72.0 dB(A)	72.0 dB(A)		
	25%									
Efficiency (%)	50%	91.7	90.9	90.3	90.7	91.7	91.7	91.7		
Liliciency (70)	75%	92.4	91.8	91.7	92.1	91.7	91.7	92.4		
100%		92.4	92.7	92.7	92.7	91.0	91.7	91.7		
	25%									
Power Factor	50%	0.80	0.77	0.75	0.73	0.84	0.82	0.80		
I OWEI Facioi	75%	0.86	0.85	0.83	0.82	0.88	0.87	0.86		
	100%	0.88	0.88	0.87	0.86	0.88	0.88	0.88		
	100%	0.88	0.88	0.87	0.80	0.88	0.88			

Drive end Non drive end Foundation loads

12000 h

Bearing type 6312 C3 6212 C3 Max. traction : 361 lb Sealing Inpro/Seal Inpro/Seal : 896 lb Max. compression

15000 h

Lubricant amount 21 g 13 g

Lubricant type Mobil Polyrex EM

Notes

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.

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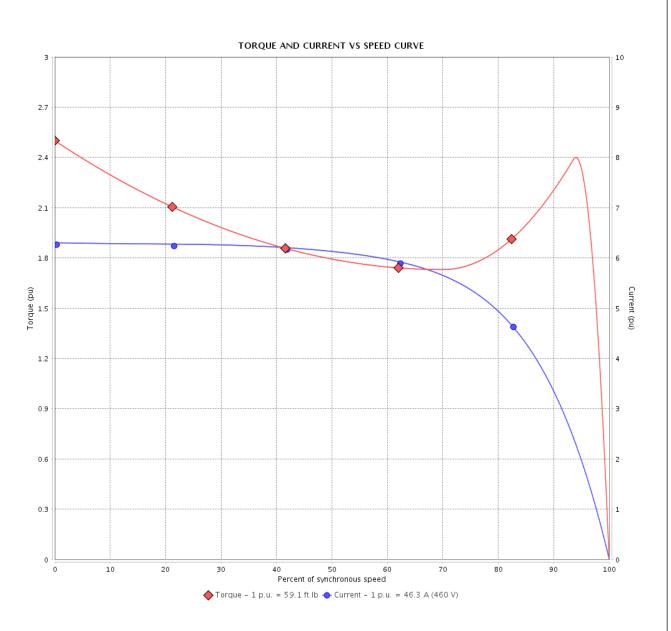


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12447815

Phase

Catalog #: 04036ST3QIE324TS-W22



Performance	: 460 V 60 Hz 2P			
Rated current	: 46.3 A	Moment of inertia (J)	: 4.90 sq.ft.lb	
LRC	: 6.3	Duty cycle	: Cont.(S1)	
Rated torque	: 59.1 ft.lb	Insulation class	: F	
Locked rotor torque	: 250 %	Service factor	: 1.25	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 3555 rpm	Design	: B	
Locked rotor time	: 81s (cold) 45s (hot)			

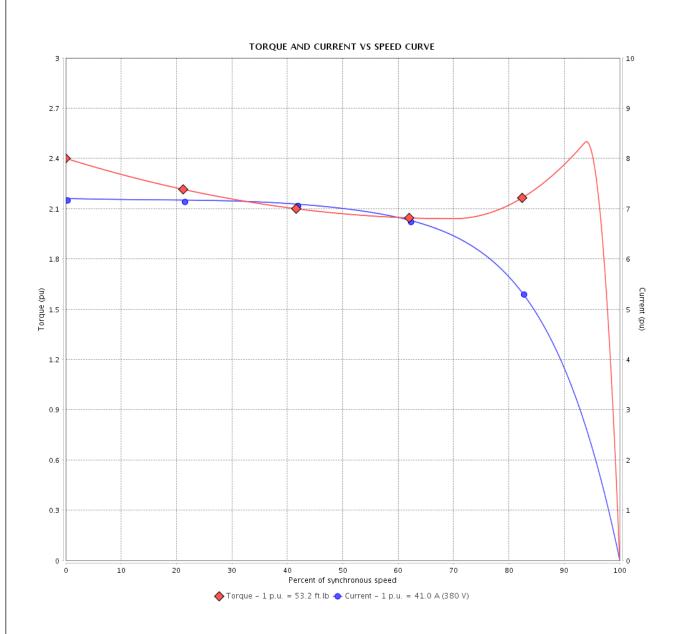
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Customer Product line : NEMA Premium Efficiency Three-Product code: 12447815

Catalog #: 04036ST3QIE324TS-W22



Performance : 380 V 50 Hz 2P IE3 Rated current : 41.0 A Moment of inertia (J) : 4.90 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 53.2 ft.lb : F Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 2960 rpm Design : B

Locked rotor time : 100s (cold) 56s (hot)

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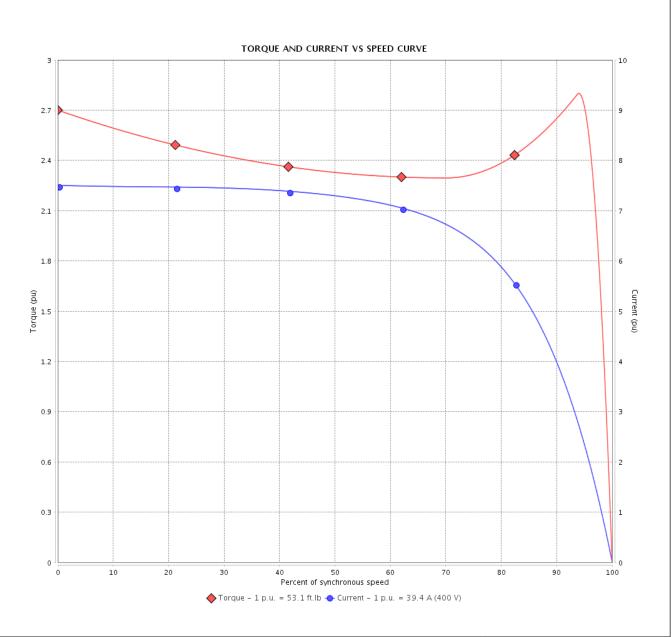
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 12447815

Catalog # : 04036ST3QIE324TS-W22



Performance	: 400 V 50 Hz 2P IE3		
Rated current	: 39.4 A	Moment of inertia (J)	: 4.90 sq.ft.lb
LRC	: 7.5	Duty cycle	: Cont.(S1)
Rated torque	: 53.1 ft.lb	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 2965 rpm	Design	: B
Locked roter time	: 03c (cold) 53c (bot)		

Locked rotor time : 93s (cold) 52s (hot)

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Customer Product line : NEMA Premium Efficiency Three-Product code: 12447815 Catalog #: 04036ST3QIE324TS-W22 TORQUE AND CURRENT VS SPEED CURVE

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		•		•						
3.5										7
3										
2.5		•							\	
50						·				
2										
1.5										
1									\	2
0.5										
0	10	20	30	40	50	60	70	80	90	100

Performance : 415 V 50 Hz 2P IE3 Rated current : 38.4 A Moment of inertia (J) : 4.90 sq.ft.lb LRC : 7.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 53.0 ft.lb : F : 290 % Locked rotor torque Service factor : 1.00 Breakdown torque : 80 K : 310 % Temperature rise : B Rated speed : 2970 rpm Design Locked rotor time : 90s (cold) 50s (hot)

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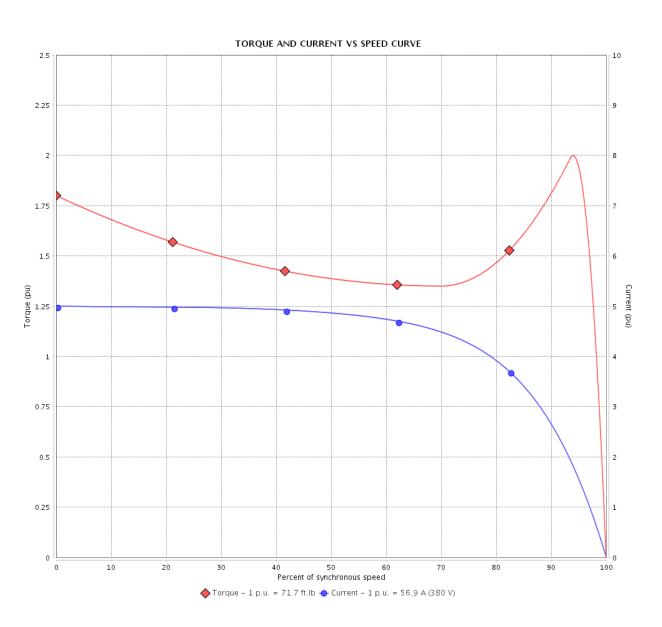
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12447815

Catalog #: 04036ST3QIE324TS-W22



D (0001/5011 00154			
Performance	: 380 V 50 Hz 2P IE1			
Rated current	: 56.9 A	Moment of inertia (J)	: 4.90 sq.ft.lb	
LRC	: 5.0	Duty cycle	: Cont.(S1)	
Rated torque	: 71.7 ft.lb	Insulation class	: F	
Locked rotor torque	: 180 %	Service factor	: 1.00	
Breakdown torque	: 200 %	Temperature rise	: 105 K	
Rated speed	: 2930 rpm	Design	: B	
Looked reter time	: 27a (aald) 15a (bat)	I		
Locked rotor time	: 27s (cold) 15s (hot)			

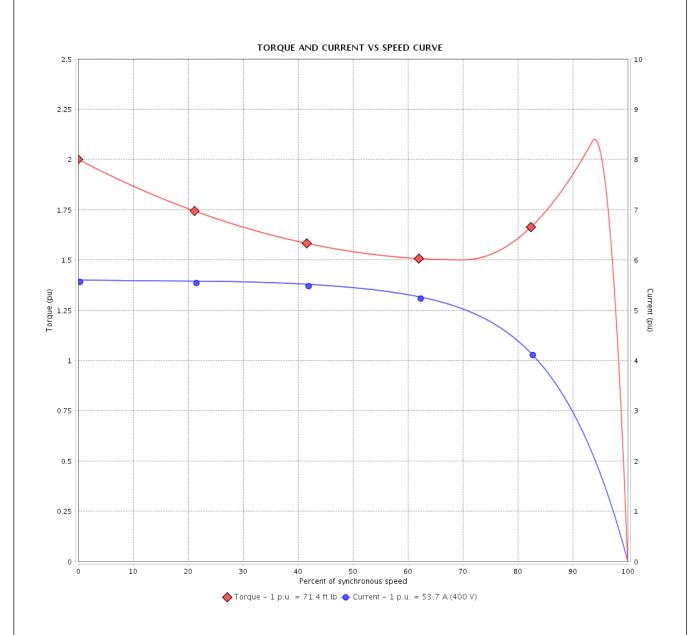
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Customer :

Product line : NEMA Premium Efficiency Three-Product code : 12447815
Phase Catalog # : 04036ST3QIE324TS-W22



Performance : 400 V 50 Hz 2P IE1 Rated current : 53.7 A Moment of inertia (J) : 4.90 sq.ft.lb **LRC** : 5.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 71.4 ft.lb : F : 200 % Locked rotor torque Service factor : 1.00 : 105 K Breakdown torque : 210 % Temperature rise Rated speed : 2940 rpm Design : B Locked rotor time : 59s (cold) 33s (hot)

Three Phase Induction Motor - Squirrel Cage

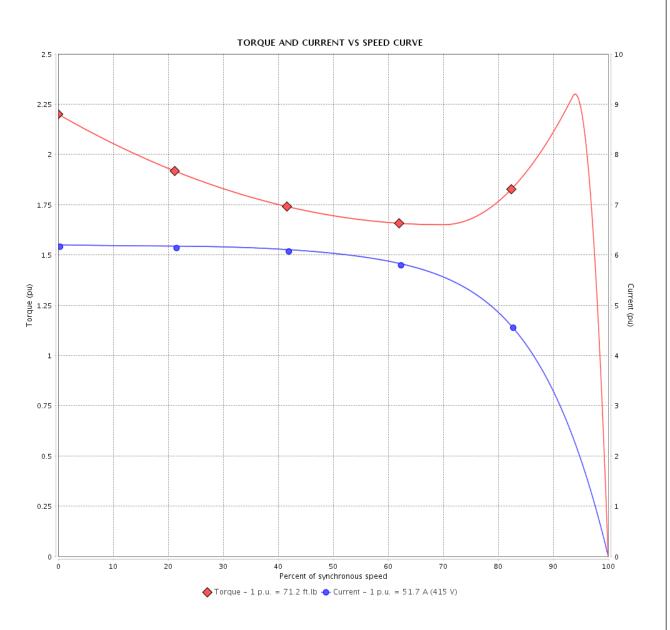


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 12447815

Catalog #: 04036ST3QIE324TS-W22



Performance : 415 V 50 Hz 2P IE1 Rated current : 51.7 A Moment of inertia (J) : 4.90 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 71.2 ft.lb : F Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 2950 rpm Design : B Locked rotor time

: 59s (cold) 33s (hot)

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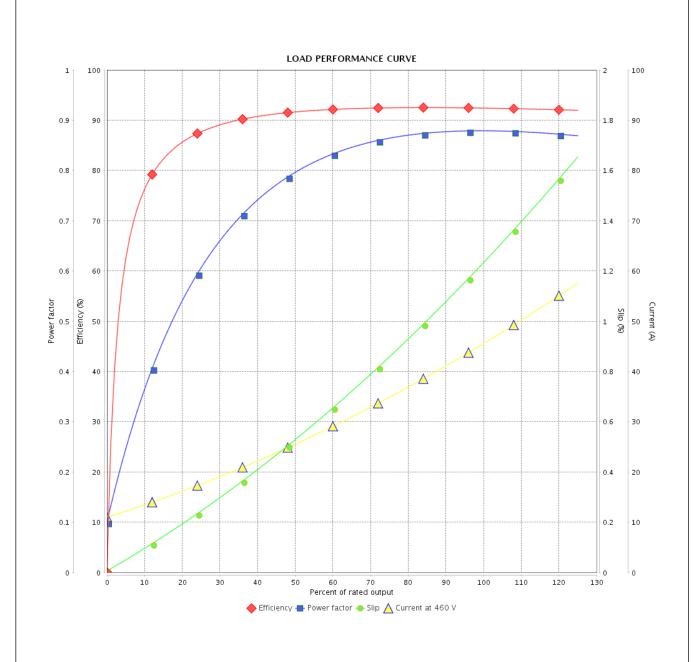
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12447815

Phase

Catalog #: 04036ST3QIE324TS-W22

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Performance	: 460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 46.3 A : 6.3 : 59.1 ft.lb : 250 % : 240 % : 3555 rpm	Duty cycle : Cont Insulation class : F Service factor : 1.25		: 1.25 : 80 K	
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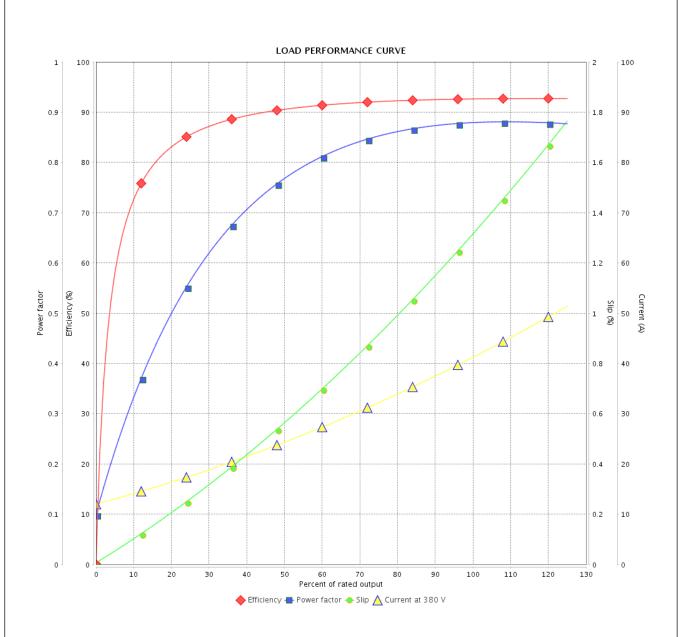
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Phase

Product code: 12447815

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Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 41.0 A : 7.2 : 53.2 ft.lb : 240 % : 250 % : 2960 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	•	: 1.00 : 80 K	
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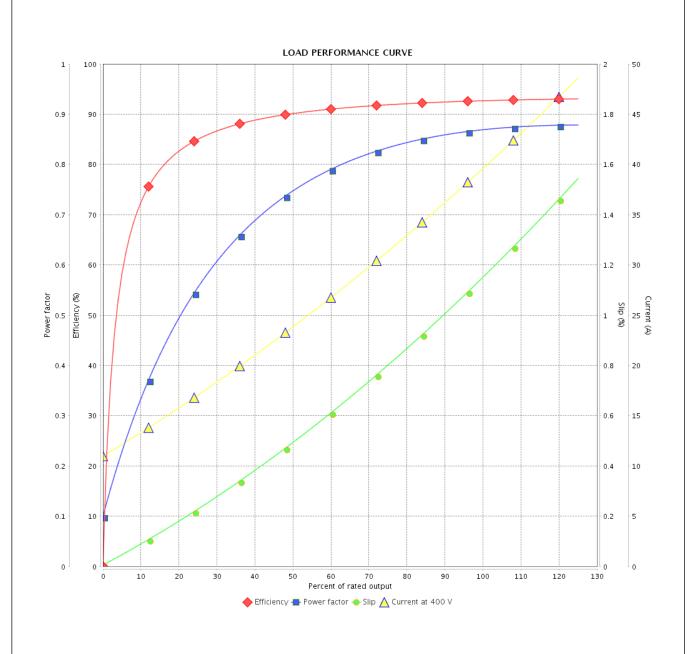
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Product line : NEMA Premium Efficiency Three- Product code : 12447815

Phase

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Performance	: 400 \	/ 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		ft.lb 6 6	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 4.90 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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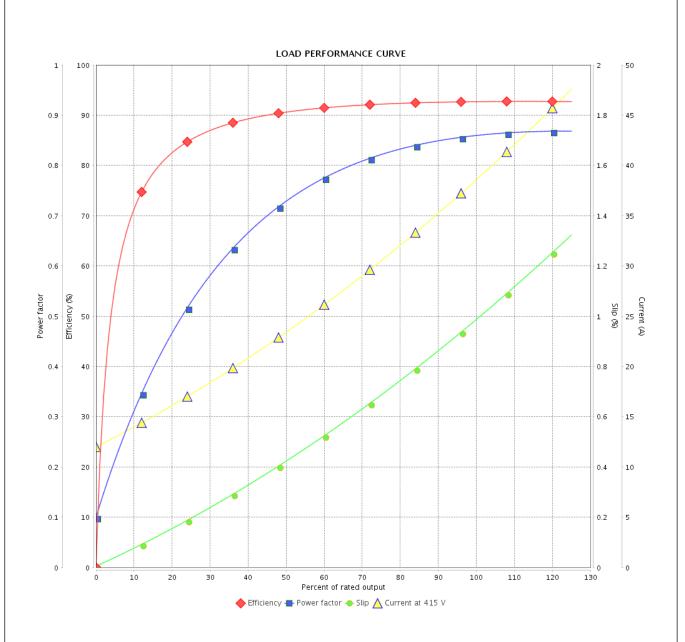
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Product code: 12447815

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Performance	: 415 V 50 Hz 2P IE3				
Rated current	: 38.4 A			: 4.90 sq.ft.lb	
LRC Rated torque	: 7.6 : 53.0 ft.lb	Duty cycle Insulation of	class	: Cont.(S1) : F	
Locked rotor torque	: 290 %	Service factor		: 1.00	
Breakdown torque	: 310 %	Temperature rise		: 80 K	
Rated speed	: 2970 rpm	Design		: B	
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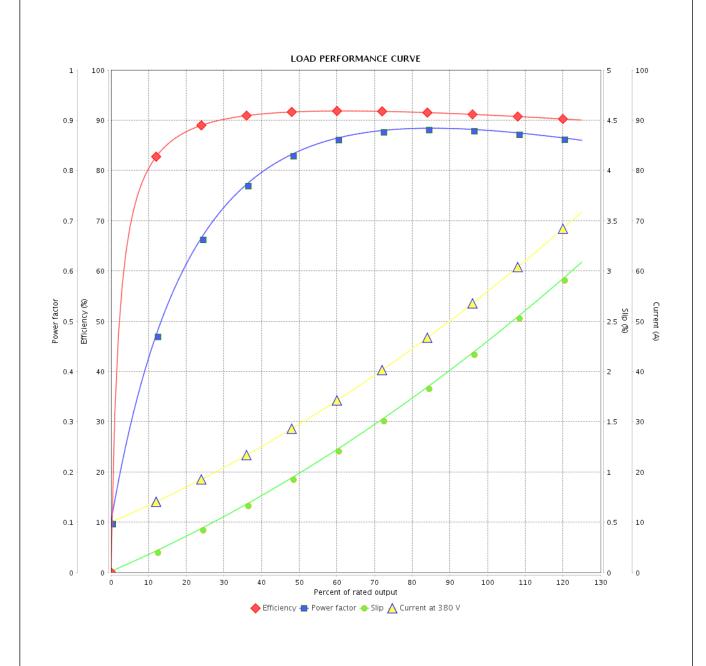
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 12447815

Catalog #: 04036ST3QIE324TS-W22



Performance	: :	380 V 50 Hz 2P IE1				
Rated current	: 5	56.9 A	Moment o	f inertia (J)	: 4.90 sq.ft.lb	
LRC	:	5.0	Duty cycle)	: Cont.(S1)	
Rated torque	:	71.7 ft.lb	Insulation	class	: F	
Locked rotor torque		180 %	Service fa	ctor	: 1.00	
Breakdown torque	: : : : : :	200 %	Temperati	Temperature rise		
Rated speed	: 2	2930 rpm	Design		: B	
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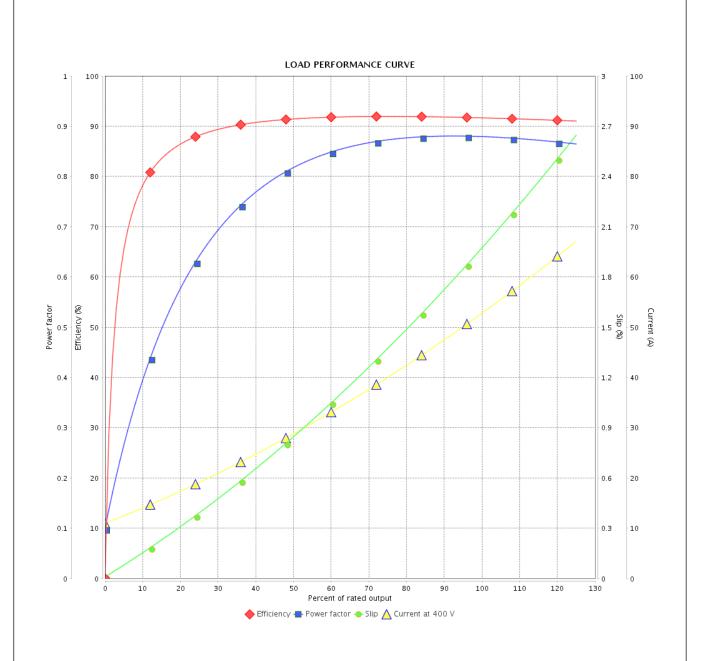
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Performance	: 400 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 53.7 A : 5.6 : 71.4 ft.lb : 200 % : 210 % : 2940 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 4.90 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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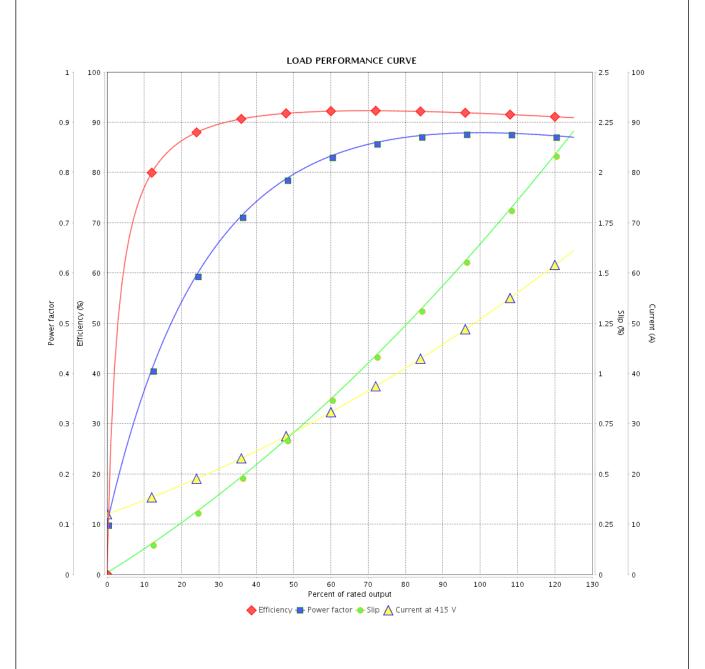


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12447815

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Catalog #: 04036ST3QIE324TS-W22



Performance	: •	: 415 V 50 Hz 2P IE1				
Rated current	Rated current : 51.7 A		Moment o	f inertia (J)	: 4.90 sq.ft.lb	
LRC	: (6.2	Duty cycle	}	: Cont.(S1)	
Rated torque	: '	71.2 ft.lb	Insulation	class	:F	
Locked rotor torque	e ::	220 %	Service fa	ctor	: 1.00	
Breakdown torque	::	229 %	Temperature rise		: 105 K	
Rated speed	::	: 2950 rpm			: B	
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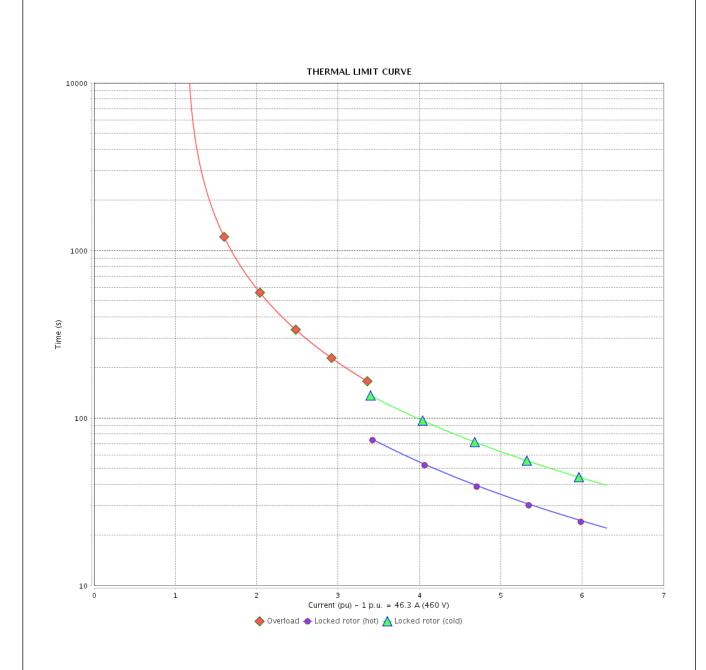


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12447815 04036ST3QIE	324TS-W22
Performance		: 460 V 60 Hz 2P		<u> </u>		
Rated current LRC		: 46.3 A : 6.3	Moment o	of inertia (J)	: 4.90 sq.ft.lb : Cont.(S1)	
Rated torque		: 59.1 ft.lb	Insulation	class	: F	
Locked rotor toro		250 %	Service fa		: 1.25	
Breakdown torqu Rated speed		: 240 % : 3555 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constant						
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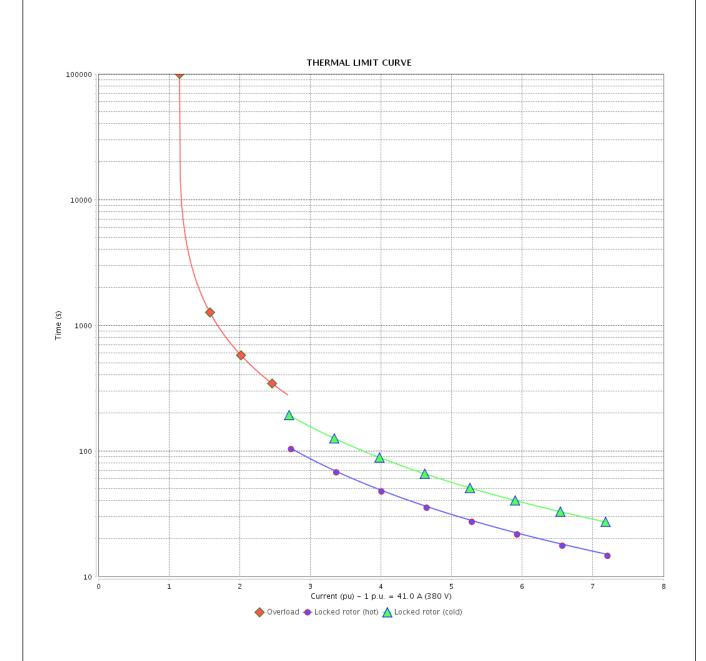


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Product line	: NEMA Premium Efficien Phase		Product code : Catalog # :	12447815 04036ST3QI	E324TS-W22
Performance	: 380 V 50 Hz 2P IE3	Marranta	of in outin (1)	. 4 00 00 # 115	
Rated current LRC	: 41.0 A : 7.2	Duty cycle	of inertia (J) e	: 4.90 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque	: 53.2 ft.lb : 240 %	Insulation Service fa		: F : 1.00	
Breakdown torque	: 250 %	Temperat		: 80 K	
Rated speed	: 2960 rpm	Design		: B	
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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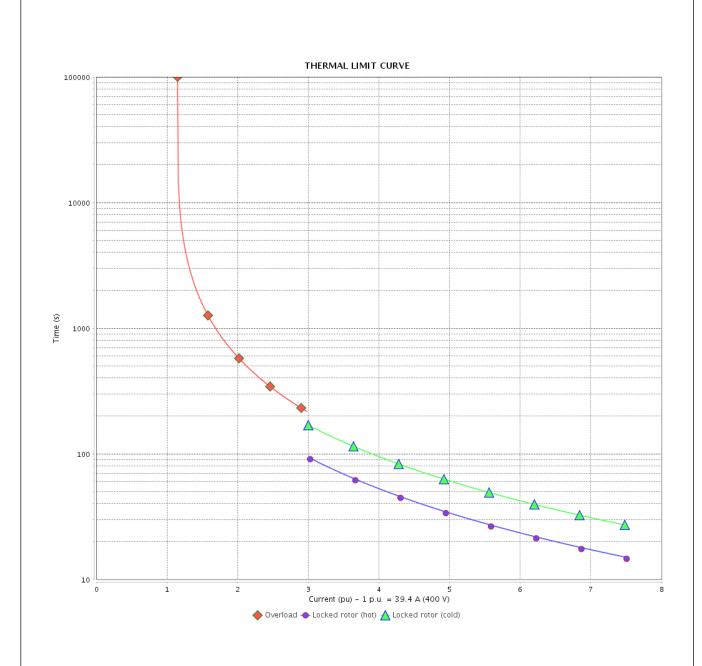


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Product line	: N	NEMA Premium Efficiency	Γhree-	Product code :	12447815	
	Pł	nase			04036ST3QIE	224TC W22
				Catalog # :	04036513QIE	32413-1122
Performance	: 40	00 V 50 Hz 2P IE3				
Rated current		9.4 A	Moment o	f inertia (J)	: 4.90 sq.ft.lb	
LRC Rated torque	: 7.5 : 53	5 3.1 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torque	e : 27	70 %	Service fa	ctor	: 1.00	
Breakdown torque	: 28	80 %	Temperatu	ıre rise	: 80 K	
Rated speed	. 28	965 rpm	Design		: B	
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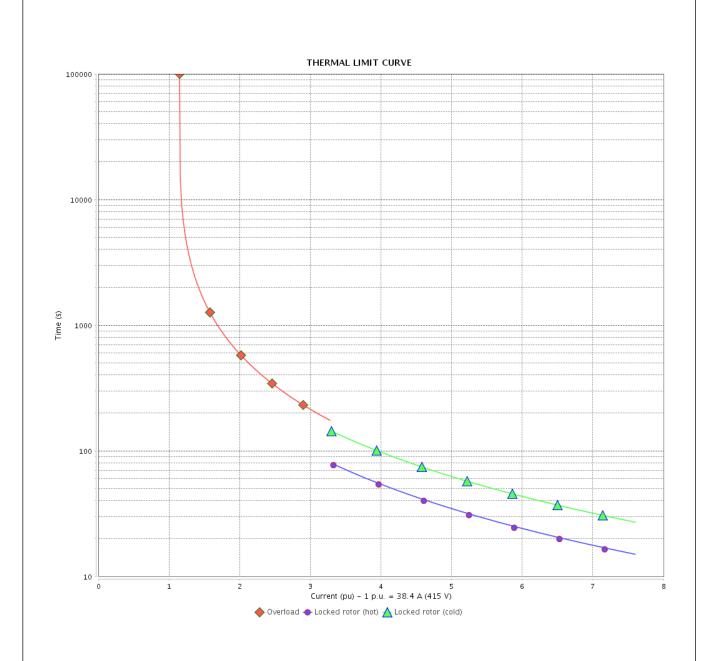


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Product line		: NEMA Premium Efficiency [*] Phase		Product code : Catalog # :	12447815 04036ST3QI	E324TS-W22
Performance	:	415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	aue :	38.4 A 7.6 53.0 ft.lb 290 % 310 % 2970 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 4.90 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant			7	,		
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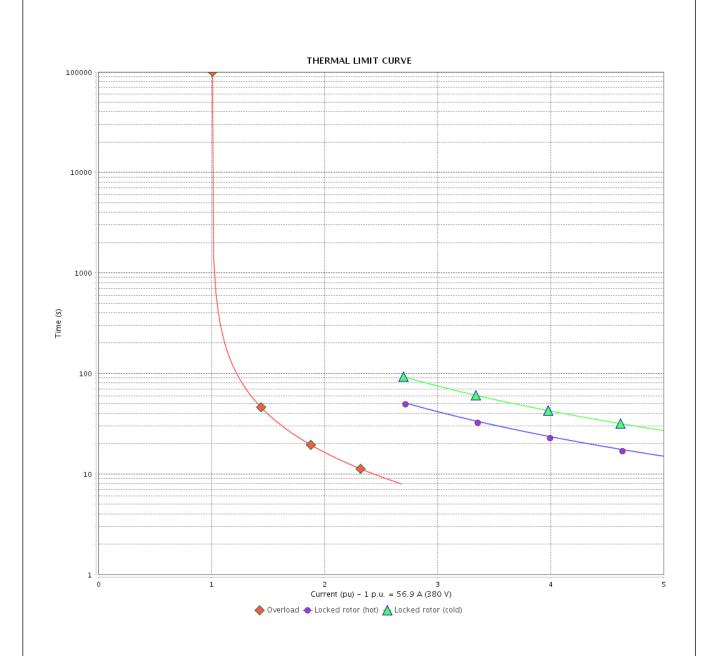


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Product line		NEMA Premium Efficiency ⁻ hase		Product code :	12447815	
			(Catalog # :	04036ST3QI	E324TS-W22
Performance	: 38	30 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5. : 7' e : 18 : 20	5.9 A 0 1.7 ft.lb 30 % 00 % 930 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor	: 4.90 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
		I'				
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Cooling constant		Changas Summani		Dorformed	Charles	Doto
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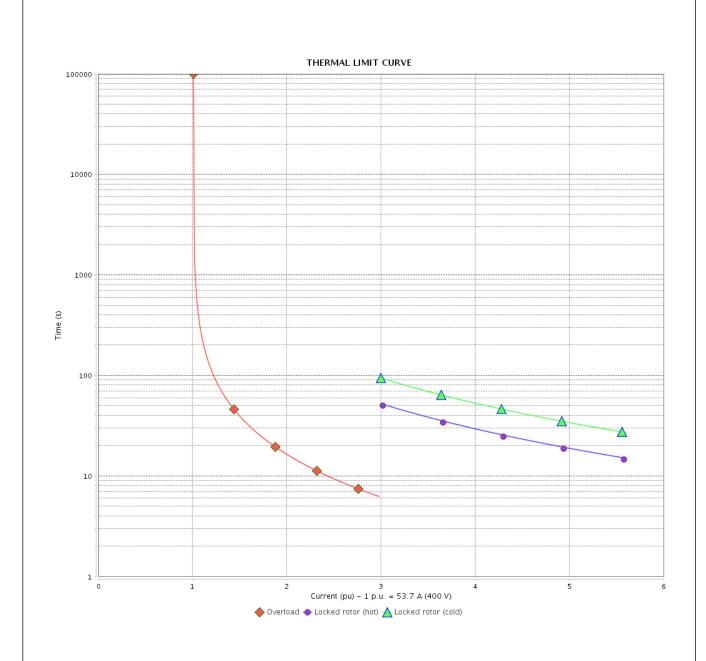


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Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12447815 04036ST3QIE	324TS-W22
Desferre		400 V 50 U- 0D I54				
Performance Rated current		400 V 50 Hz 2P IE1 53.7 A	Moment o	f inertia (J)	: 4.90 sq.ft.lb	
LRC Rated torque Locked rotor torc	: : : que	5.6 71.4 ft.lb 200 %	Duty cycle Insulation Service fa	e class ctor	: Cont.(S1) : F : 1.00	
Breakdown torqu Rated speed		210 % 2940 rpm	Temperatu Design	ire rise	: 105 K : B	
Heating constan						
Cooling constant	t	Changos Summani		Dorformed	Checked	Doto
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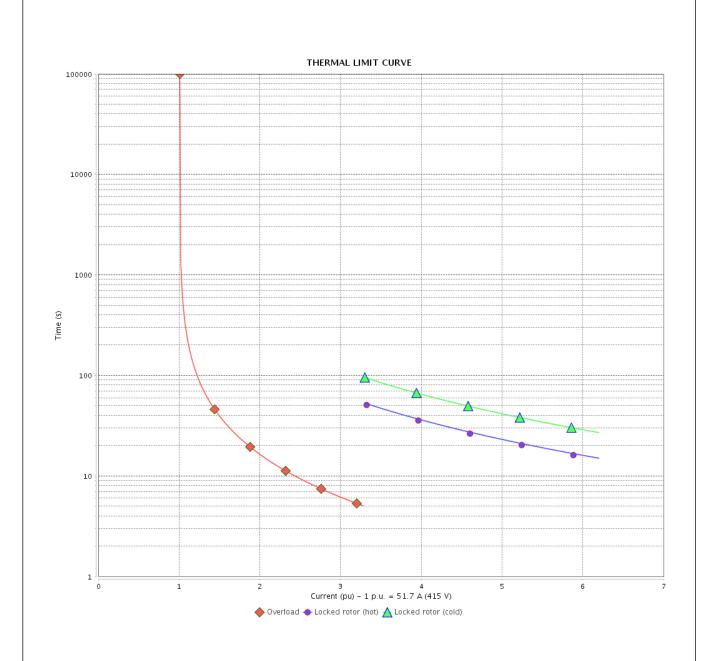


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Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code :	12447815	5004T0 W00
		(Catalog # :	04036ST3QI	E324TS-W22
Performance	: 415 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 51.7 A : 6.2 : 71.2 ft.lb : 220 % : 229 % : 2950 rpm	Moment or Duty cycle Insulation Service fa Temperatu Design	class ctor	: 4.90 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant		-			
Cooling constant					
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Three Phase Induction Motor - Squirrel Cage



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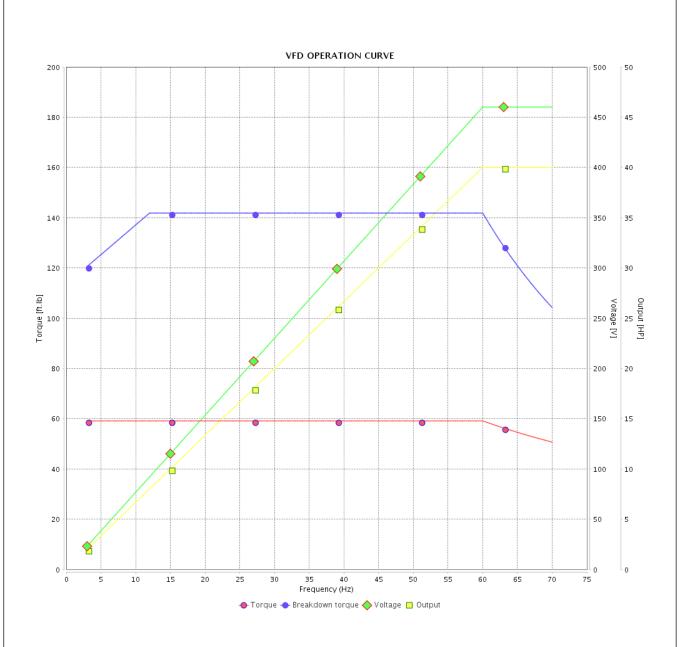
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12447815

Catalog #: 04036ST3QIE324TS-W22



Performance : 460 V 60 Hz 2P Rated current : 46.3 A Moment of inertia (J) : 4.90 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.3 Insulation class : 59.1 ft.lb : F Rated torque Locked rotor torque : 250 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 3555 rpm Design : B Rev. Performed Checked Date **Changes Summary**

Three Phase Induction Motor - Squirrel Cage



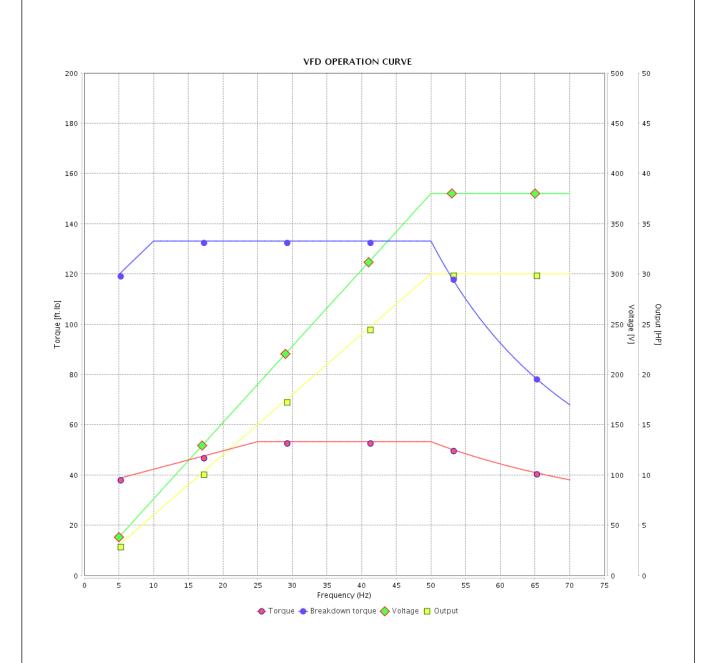
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12447815

Phase

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Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 41.0 A : 7.2 : 53.2 ft.lb : 240 % : 250 % : 2960 rpm	Moment of Duty cycle Insulation of Service fact Temperatu Design	class	: 4.90 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



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Date

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Product line : NEMA Premium Efficiency Three- Product code : 12447815

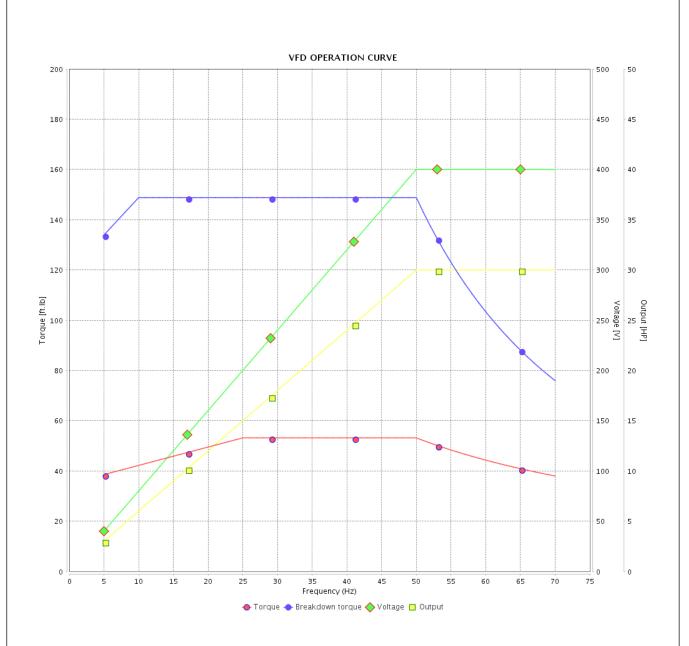
Phase

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Performance : 400 V 50 Hz 2P IE3 Rated current : 39.4 A Moment of inertia (J) : 4.90 sq.ft.lb **LRC** : 7.5 Duty cycle : Cont.(S1) Insulation class : 53.1 ft.lb : F Rated torque Locked rotor torque : 270 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 2965 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage

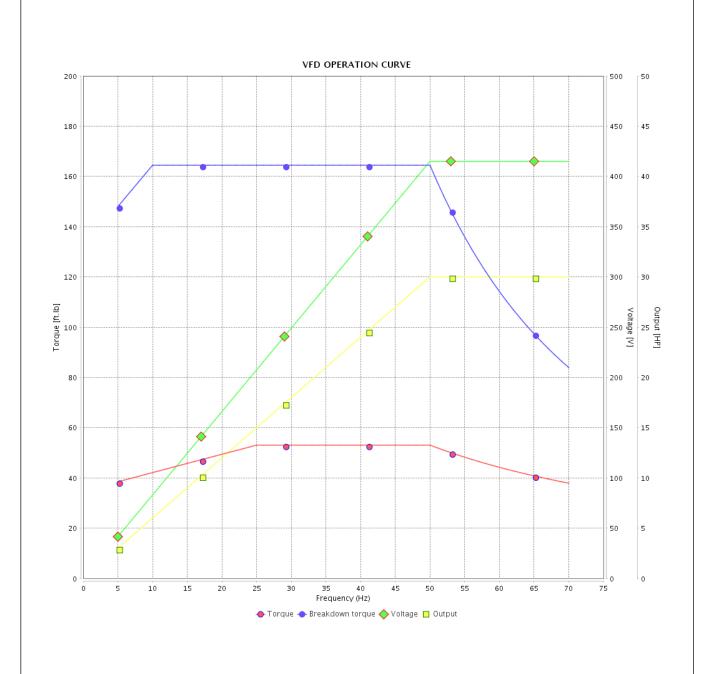


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Product line : NEMA Premium Efficiency Three- Product code : 12447815

Phase

Catalog #: 04036ST3QIE324TS-W22



Performance		415 V 50 Hz 2P IE3				
Rated current	:	38.4 A	Moment o	f inertia (J)	: 4.90 sq.ft.lb	
LRC	:	7.6	Duty cycle)	: Cont.(S1)	
Rated torque	:	53.0 ft.lb	Insulation	class	:F	
Locked rotor torque	e :	290 %	Service fa	ctor	: 1.00	
Breakdown torque	:	310 %	Temperati	ıre rise	: 80 K	
Rated speed	:	2970 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three-

Phase

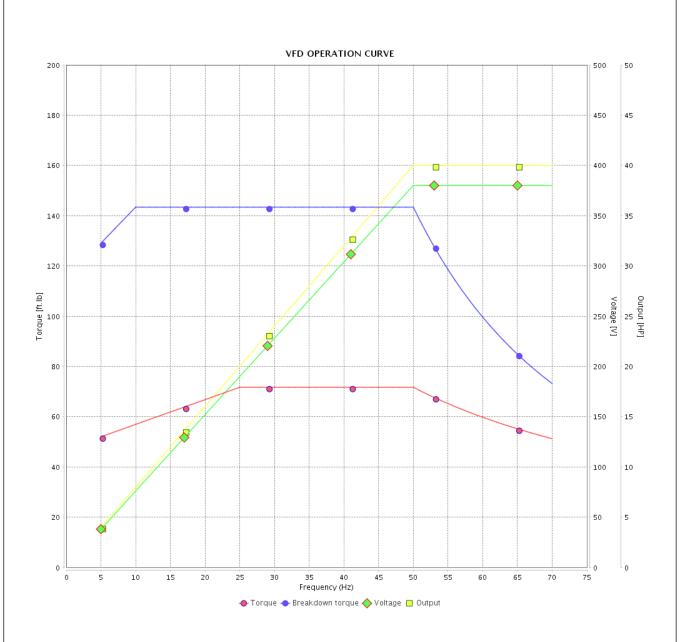
Product code: 12447815

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Performance : 380 V 50 Hz 2P IE1 Rated current : 56.9 A Moment of inertia (J) : 4.90 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.0 : 71.7 ft.lb Insulation class : F Rated torque : 180 % Locked rotor torque Service factor : 1.00 Breakdown torque : 200 % Temperature rise : 105 K Rated speed : 2930 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



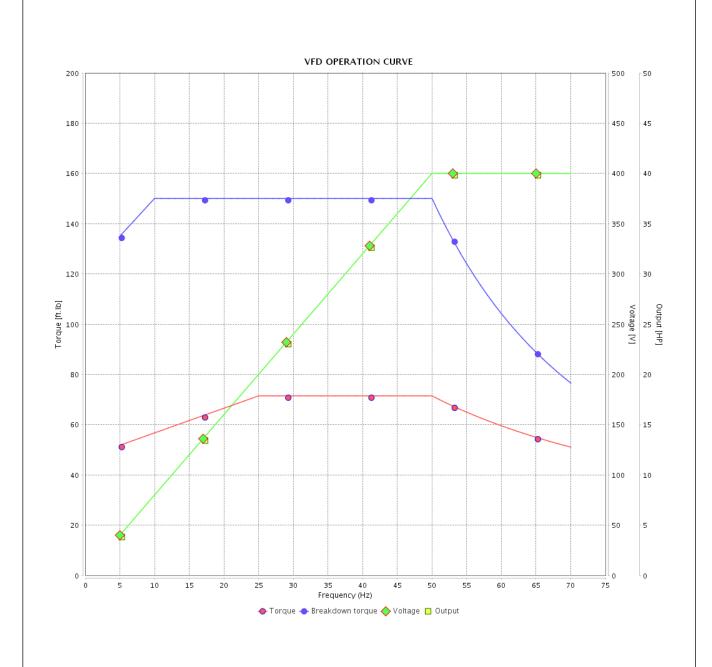
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12447815

Phase

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Performance	: 400 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 53.7 A : 5.6 : 71.4 ft.lb : 200 % : 210 % : 2940 rpm	Moment of inertia Duty cycle Insulation class Service factor Temperature rise Design	• /	: 4.90 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

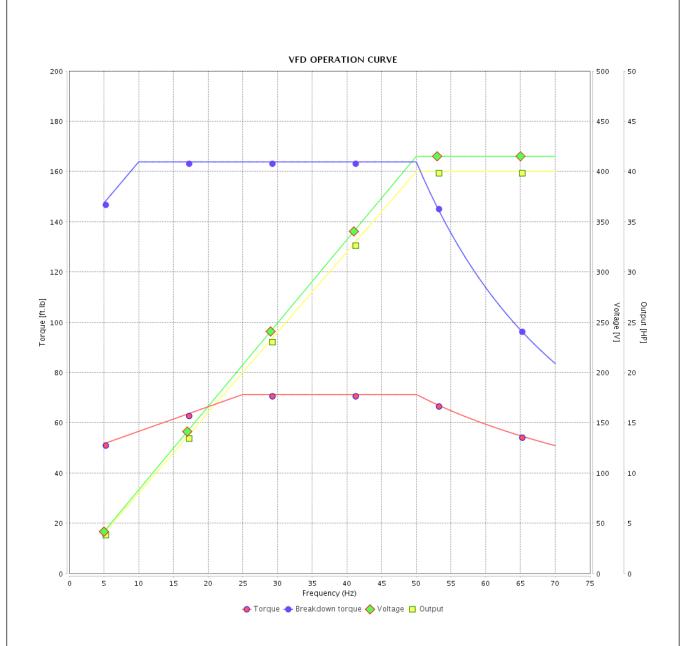
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Performance : 415 V 50 Hz 2P IE1 Rated current : 51.7 A Moment of inertia (J) : 4.90 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.2 : 71.2 ft.lb Insulation class : F Rated torque Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 2950 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

