### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12447791

Catalog #: 02512ST3QIE324TC-W22

Frame : 324/6TC Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW)

Ambient temperature : -20°C to +40°C Starting method : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 566 lb

7 tittaac . 1000 m.a.s.i.		/ \ppi 0/	t. Weigitt		OU ID			
Protection degre	е	: IP55		Momer	nt of inertia (J)	: 1	1.5 sq.ft.lb	
Design		: B						
Output [HP]		25	20	20	20	25	25	25
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]		30.4	30.0	29.4	28.6	36.3	35.1	34.2
L. R. Amperes [A]		182	174	185	194	171	183	192
LRC [A]		6.0x(Code	5.8x(Code	6.3x(Code H)	6.8x(Code H)	4.7x(Code D)	5.2x(Code F)	5.6x(Code F
		G)	Ġ)					
No load current [A	.]	12.5	12.3	13.3	14.2	12.3	13.3	14.2
Rated speed [RPI	Л]	1175	970	975	980	965	970	975
Slip [%]	Slip [%]		3.00	2.50	2.00	3.50	3.00	2.50
Rated torque [ft.lb]		112	108	108	107	136	135	135
Locked rotor torqu	ie [%]	210	200	229	250	160	180	190
Breakdown torque [%]		250	240	280	300	190	220	240
Service factor		1.25	1.00	1.15	1.15	1.00	1.15	1.15
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		46s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)
		26s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)
Noise level <sup>2</sup>		62.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)
	25%	91.4	91.0	90.8	90.9	92.1	92.0	92.1
Efficiency (%)	50%	91.7	91.1	91.1	91.1	91.7	91.7	91.7
Liliciency (70)	75%	93.0	91.8	92.2	92.2	91.7	92.4	92.4
	100%	93.0	91.6	92.2	92.2	91.0	91.7	91.7
	25%	0.41	0.40	0.37	0.34	0.47	0.44	0.41
Power Factor	50%	0.65	0.63	0.60	0.57	0.71	0.68	0.65
I OWEI FACIOI	75%	0.77	0.76	0.74	0.71	0.81	0.79	0.77
	100%	0.82	0.83	0.80	0.79	0.85	0.83	0.82

Drive end

Non drive end Foundation loads

Bearing type Sealing

6312 C3 6212 C3 Inpro/Seal Inpro/Seal 20000 h 20000 h

Max. traction : 957 lb Max. compression : 1523 lb

Lubrication interval Lubricant amount 21 g 13 g Mobil Polyrex EM Lubricant type

Notes

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.

(4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

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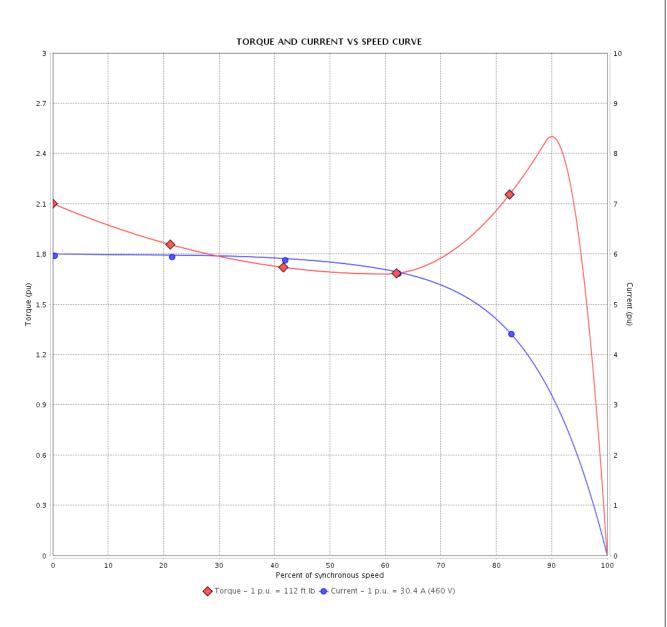
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12447791

Catalog #: 02512ST3QIE324TC-W22



Performance : 460 V 60 Hz 6P Rated current : 30.4 A Moment of inertia (J) : 11.5 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 112 ft.lb : F Locked rotor torque : 210 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1175 rpm Design : B Locked rotor time

: 46s (cold) 26s (hot)

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#### Three Phase Induction Motor - Squirrel Cage

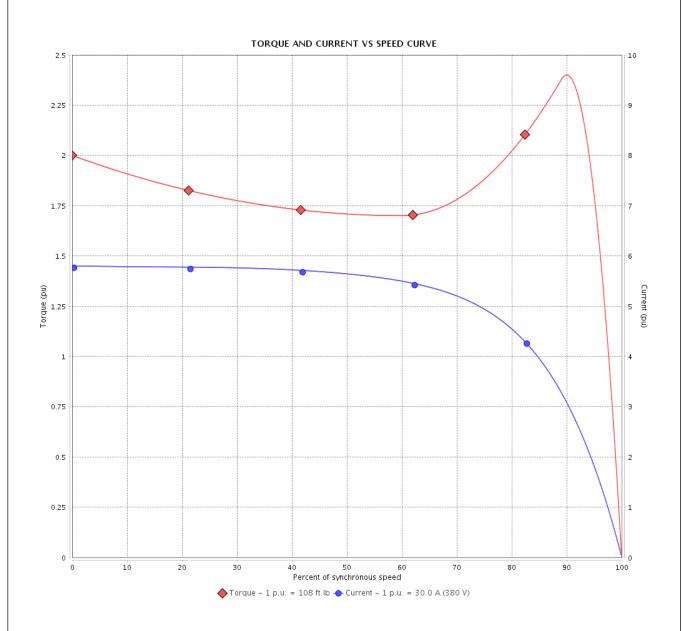


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12447791

Phase

Catalog #: 02512ST3QIE324TC-W22



: 380 V 50 Hz 6P IE3			
: 30.0 A	Moment of inertia (J)	: 11.5 sq.ft.lb	
: 5.8	Duty cycle	: Cont.(S1)	
: 108 ft.lb	Insulation class	: F	
: 200 %	Service factor	: 1.00	
: 240 %	Temperature rise	: 80 K	
: 970 rpm	Design	: B	
	: 30.0 A : 5.8 : 108 ft.lb : 200 % : 240 %	: 30.0 A Moment of inertia (J) : 5.8 Duty cycle : 108 ft.lb Insulation class : 200 % Service factor : 240 % Temperature rise	: 30.0 A       Moment of inertia (J)       : 11.5 sq.ft.lb         : 5.8       Duty cycle       : Cont.(S1)         : 108 ft.lb       Insulation class       : F         : 200 %       Service factor       : 1.00         : 240 %       Temperature rise       : 80 K

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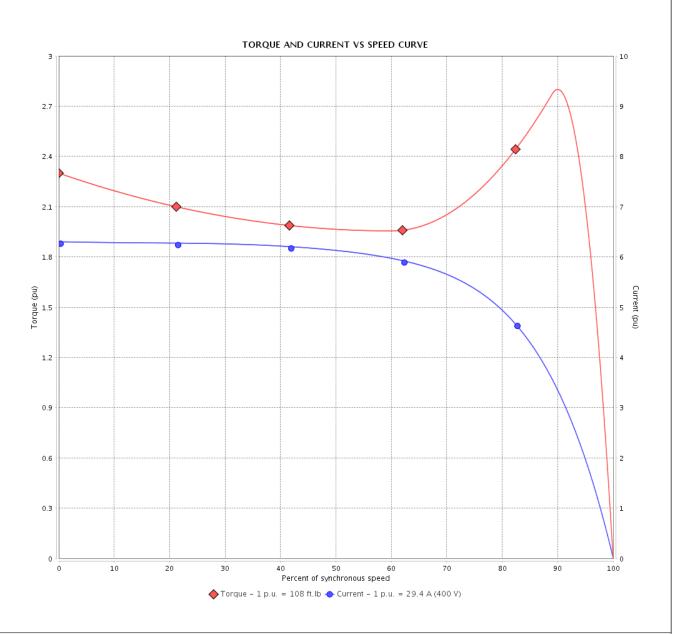


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12447791

Phase

Catalog #: 02512ST3QIE324TC-W22



Performance	: 400 V 50 Hz 6P IE3		
Rated current	: 29.4 A	Moment of inertia (J)	: 11.5 sq.ft.lb
LRC	: 6.3 : 108 ft.lb	Duty cycle Insulation class	: Cont.(S1)
Rated torque Locked rotor torque	: 229 %	Service factor	: F : 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 975 rpm	Design	: B
Looked reter time	: 22a (aald) 19a (bat)		

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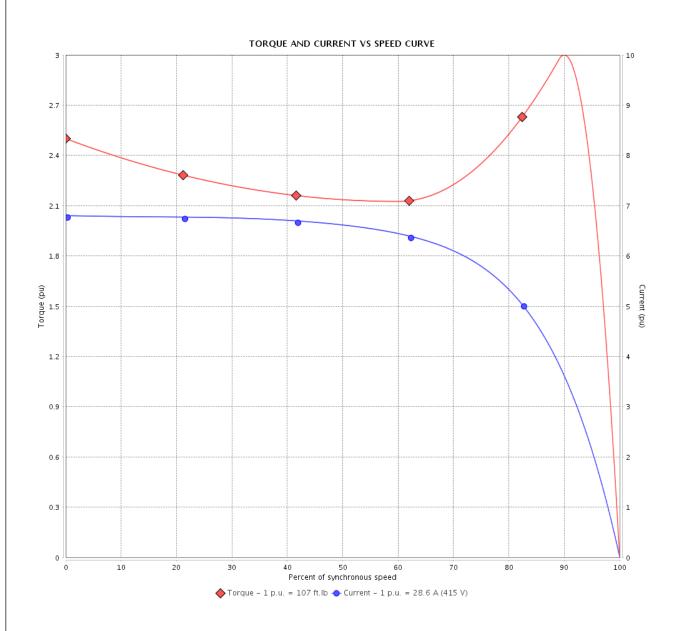


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12447791

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Catalog #: 02512ST3QIE324TC-W22



Performance	: 415 V 50 Hz 6P IE3			
Rated current	: 28.6 A	Moment of inertia (J)	: 11.5 sq.ft.lb	
LRC	: 6.8	Duty cycle	: Cont.(S1)	
Rated torque	: 107 ft.lb	Insulation class	: F	
Locked rotor torque	: 250 %	Service factor	: 1.15	
Breakdown torque	: 300 %	Temperature rise	: 80 K	
Rated speed	: 980 rpm	Design	: B	

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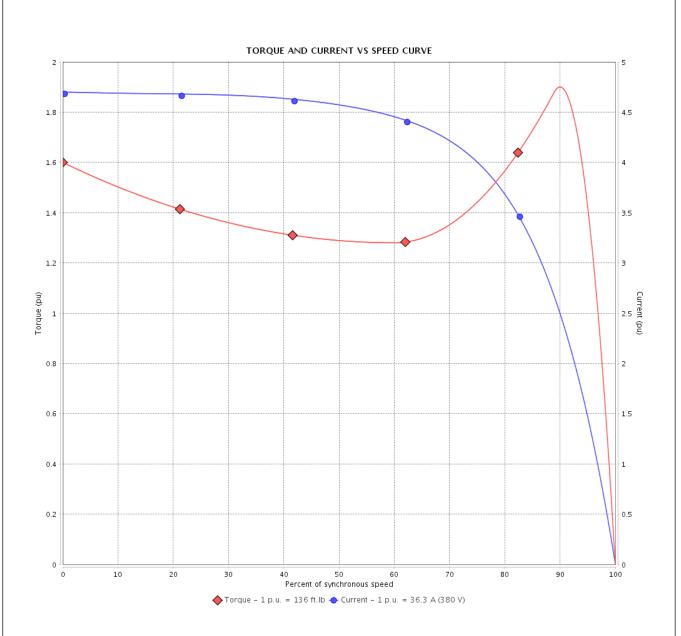


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12447791

Phase

Catalog #: 02512ST3QIE324TC-W22



Performance	: 380 V 50 Hz 6P IE2		
Rated current	: 36.3 A	Moment of inertia (J)	: 11.5 sq.ft.lb
LRC	: 4.7	Duty cycle	: Cont.(S1)
Rated torque	: 136 ft.lb	Insulation class	:F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 190 %	Temperature rise	: 80 K
Rated speed	: 965 rpm	Design	: B
Rated speed	: 965 rpm	Design	: B

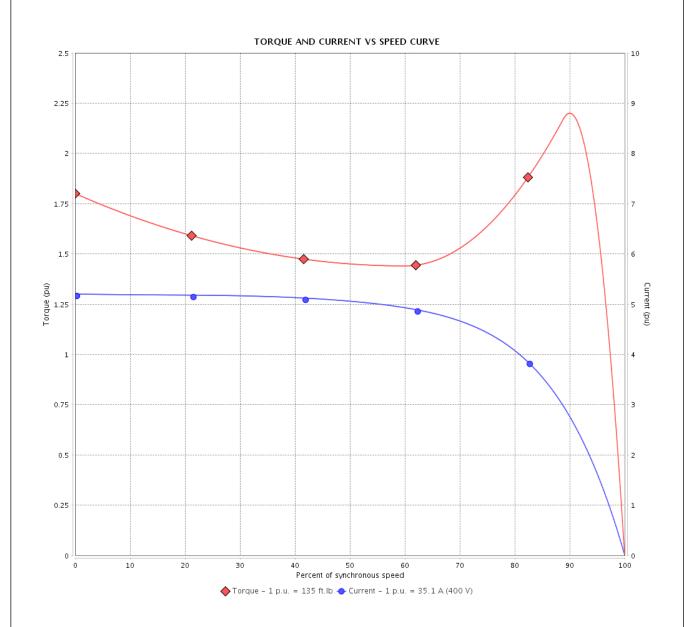
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Product code : 12447791
Phase Catalog # : 02512ST3QIE324TC-W22



Performance	: 400 V 50 Hz 6P IE3			
Rated current	: 35.1 A	Moment of inertia (J)	: 11.5 sq.ft.lb	
LRC	: 5.2	Duty cycle	: Cont.(S1)	
Rated torque	: 135 ft.lb	Insulation class	: F	
Locked rotor torque	: 180 %	Service factor	: 1.15	
Breakdown torque	: 220 %	Temperature rise	: 80 K	
Rated speed	: 970 rpm	Design	: B	
Locked rotor time	: 32s (cold) 18s (hot)			

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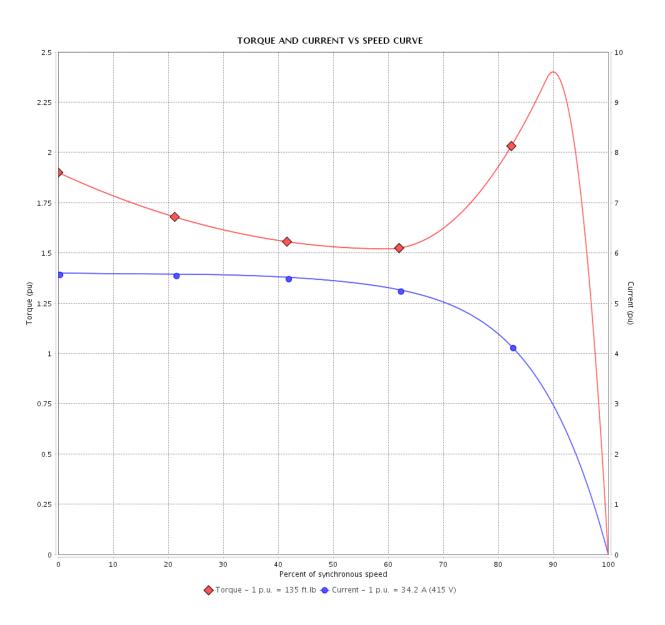


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12447791

Phase

Catalog #: 02512ST3QIE324TC-W22



Performance	: 415 V 50 Hz 6P IE3		
Rated current	: 34.2 A	Moment of inertia (J)	: 11.5 sq.ft.lb
LRC	: 5.6	Duty cycle	: Cont.(S1)
Rated torque	: 135 ft.lb	Insulation class	:F
Locked rotor torque	: 190 %	Service factor	: 1.15
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 975 rpm	Design	: B

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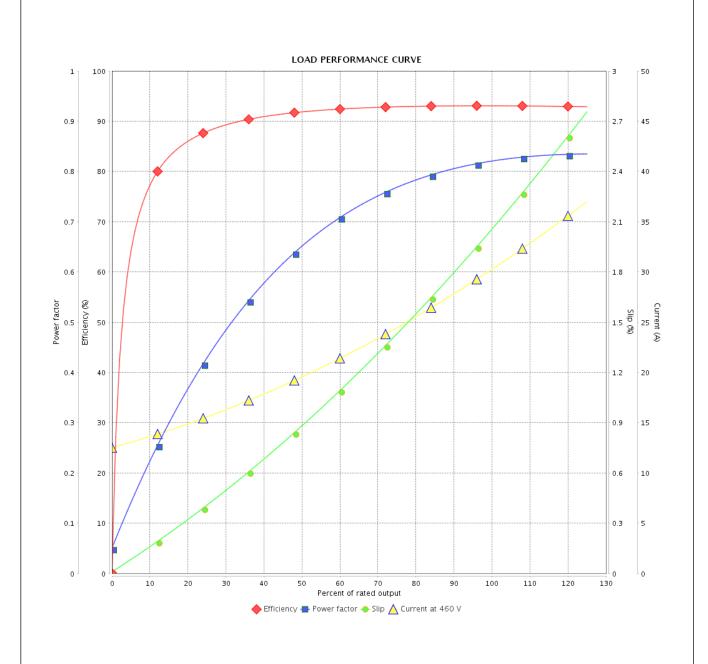
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12447791

Phase

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Performance	: 460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 30.4 A : 6.0 : 112 ft.lb : 210 % : 250 % : 1175 rpm	Moment of i Duty cycle Insulation c Service fact Temperature Design	lass	: 11.5 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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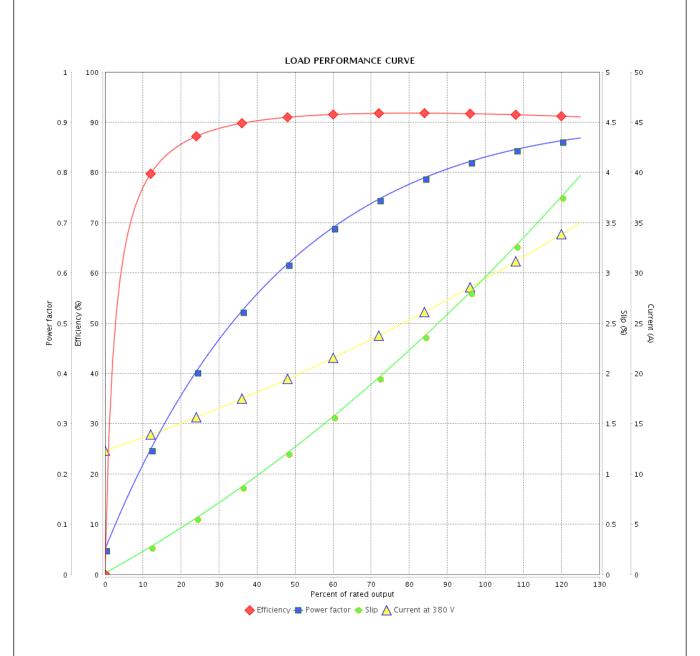
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Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 30.0 A : 5.8 : 108 ft.lb : 200 % : 240 % : 970 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 11.5 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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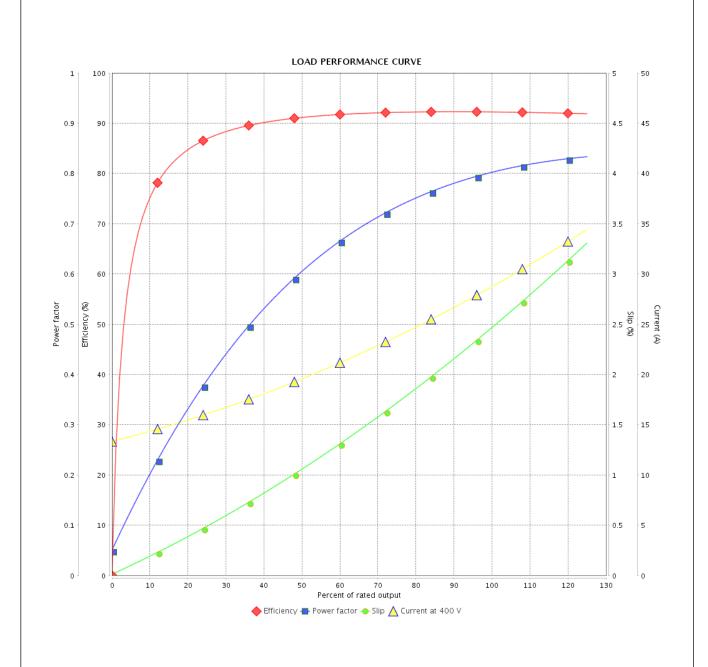


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Product line : NEMA Premium Efficiency Three- Product code : 12447791

Phase

Catalog #: 02512ST3QIE324TC-W22



Performance	. 1	00 V 50 Hz 6P IE3				
Rated current	: 29	9.4 A	Moment o	f inertia (J)	: 11.5 sq.ft.lb	
LRC	: 6	.3	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 10	08 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2:	29 %	Service fa	ctor	: 1.15	
Breakdown torque		30 % Temperature rise		ıre rise	: 80 K	
Rated speed	: 9	975 rpm Design			: B	
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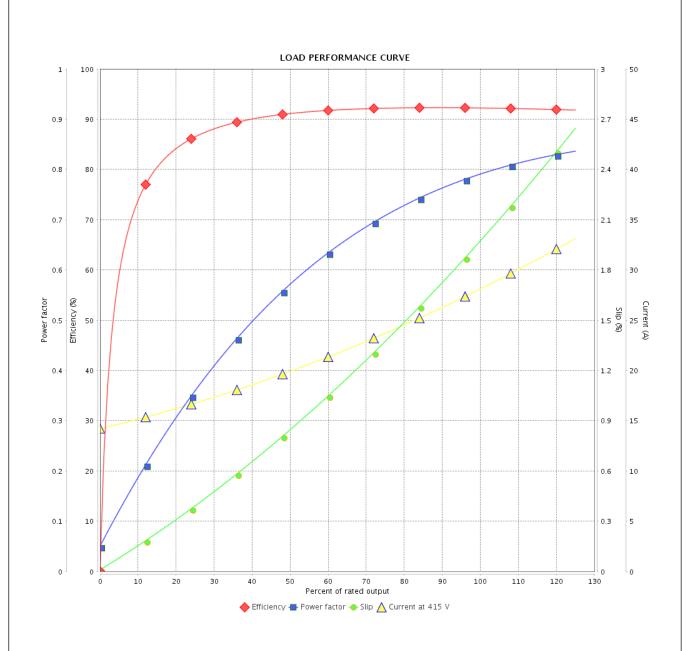
Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12447791

Phase

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Performance	: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 28.6 A : 6.8 : 107 ft.lb : 250 % : 300 % : 980 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 11.5 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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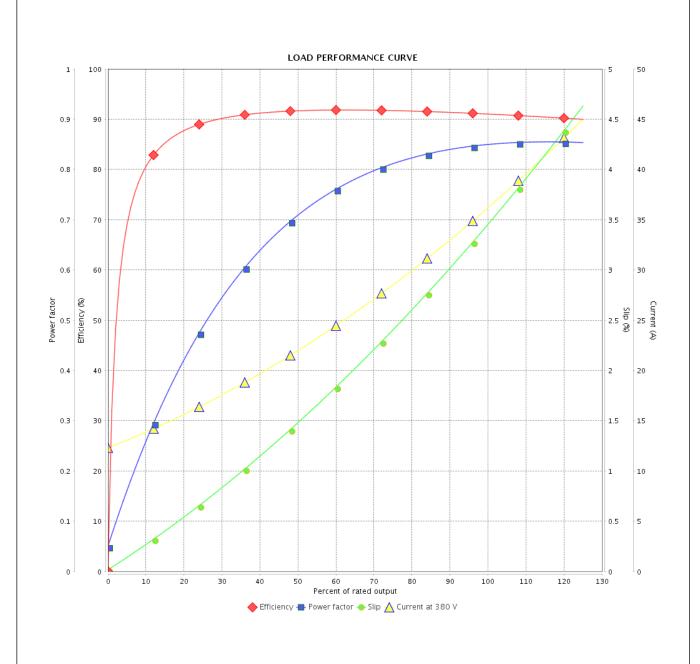


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12447791

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Performance	: 3	80 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu	: 4. : 1: que : 10	6.3 A .7 36 ft.lb 60 % 90 %			: 1.00	
Rated speed		5 rpm Design		: B		
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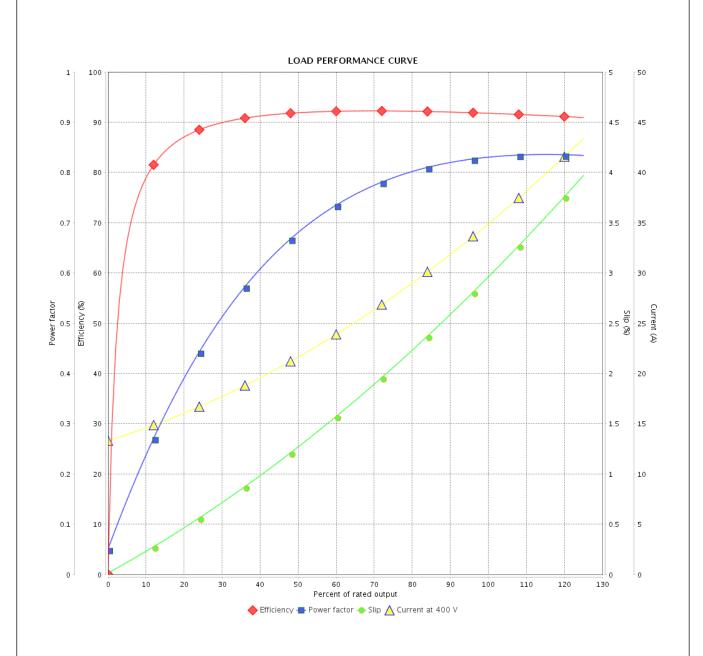
Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12447791

Phase

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Performance	: 400 V 50 Hz 6P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 35.1 A : 5.2 : 135 ft.lb : 180 % : 220 % : 970 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 11.5 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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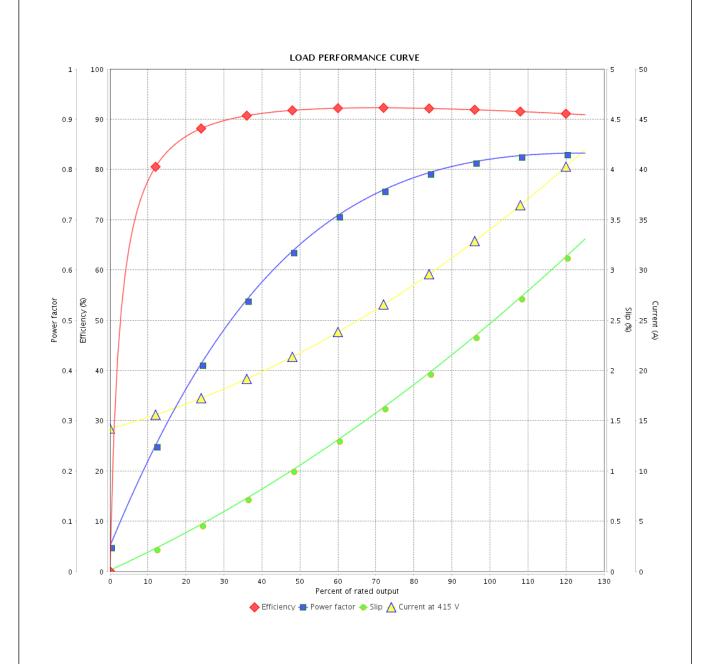


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12447791

Phase

Catalog #: 02512ST3QIE324TC-W22



Performance	: •	415 V 50 Hz 6P IE3	•			
Rated current	::	34.2 A	Moment o	f inertia (J)	: 11.5 sq.ft.lb	
LRC	::	5.6	Duty cycle	;	: Cont.(S1)	
Rated torque	:	135 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie :	190 %	Service fa	ctor	: 1.15	
Breakdown torque	::	240 %	10 % Temperature rise		: 80 K	
Rated speed	: !	975 rpm	Design		: B	
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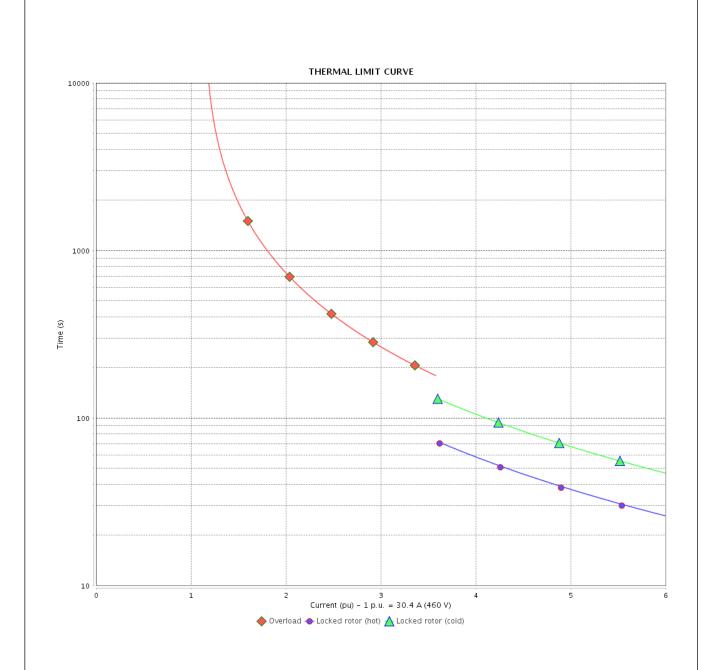


Customer	:				
Product line	: NEMA Premium Efficienc Phase		Product code :	12447791 02512ST3QIE	E324TC-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 460 V 60 Hz 6P : 30.4 A : 6.0 : 112 ft.lb : 210 % : 250 % : 1175 rpm	Moment o Duty cycle Insulation Service fa Temperati Design	class ctor	: 11.5 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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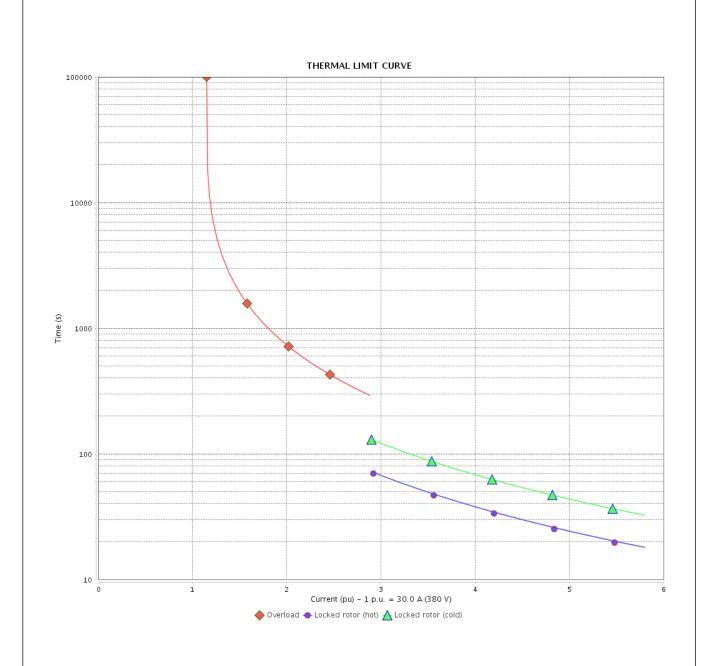


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12447791 02512ST3QIE	:324TC-W22
Performance		: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	que ie	30.0 A 5.8 108 ft.lb 200 % 240 % 970 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 11.5 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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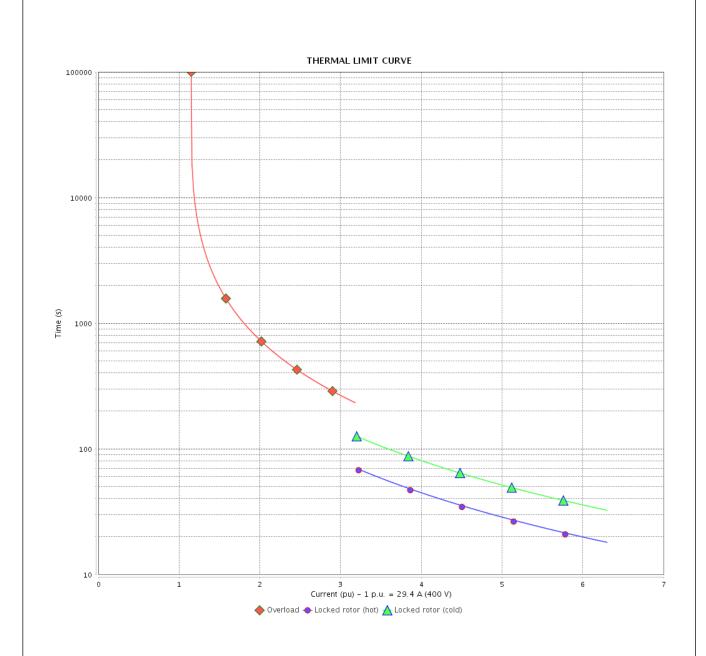


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Product line		: NEMA Premium Efficiency Phase		Product code :	12447791	
				Catalog # :	02512ST3QIE	324TC-W22
Performance	<u> </u>	: 400 V 50 Hz 6P IE3				
Rated current		: 29.4 A	Moment of	of inertia (J)	: 11.5 sq.ft.lb	
LRC		: 6.3	Duty cycle	Э	: Cont.(S1)	
Rated torque Locked rotor torc		: 108 ft.lb : 229 %	Insulation Service fa		: F : 1.15	
Breakdown torqu		: 280 %	Temperat		: 80 K	
Rated speed		: 975 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



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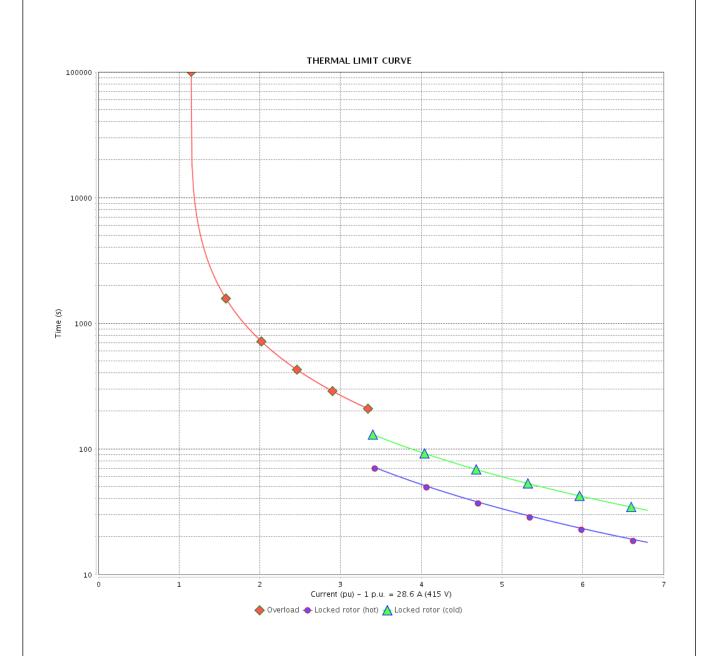


Customer	:				
Product line	: NEMA Premium Efficiency <sup>-</sup> Phase		Product code :	12447791	
			Catalog # :	02512ST3QIE	E324TC-W22
Performance	: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 28.6 A : 6.8 : 107 ft.lb : 250 % : 300 % : 980 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 11.5 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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### Three Phase Induction Motor - Squirrel Cage



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#### Three Phase Induction Motor - Squirrel Cage

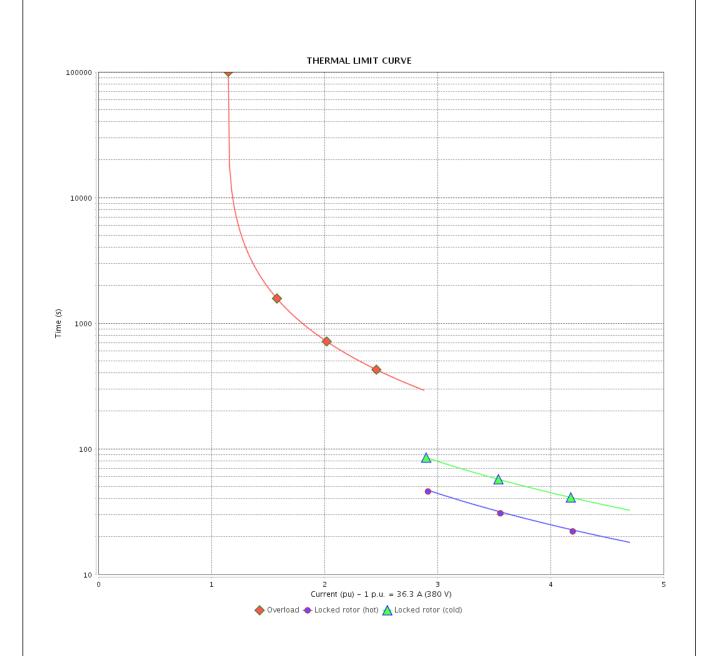


Customer	:				
Product line	: NEMA Premium Efficier Phase		Product code : Catalog # :	12447791 02512ST3QIE	324TC-W22
Performance	: 380 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 36.3 A : 4.7 : 136 ft.lb : 160 % : 190 % : 965 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 11.5 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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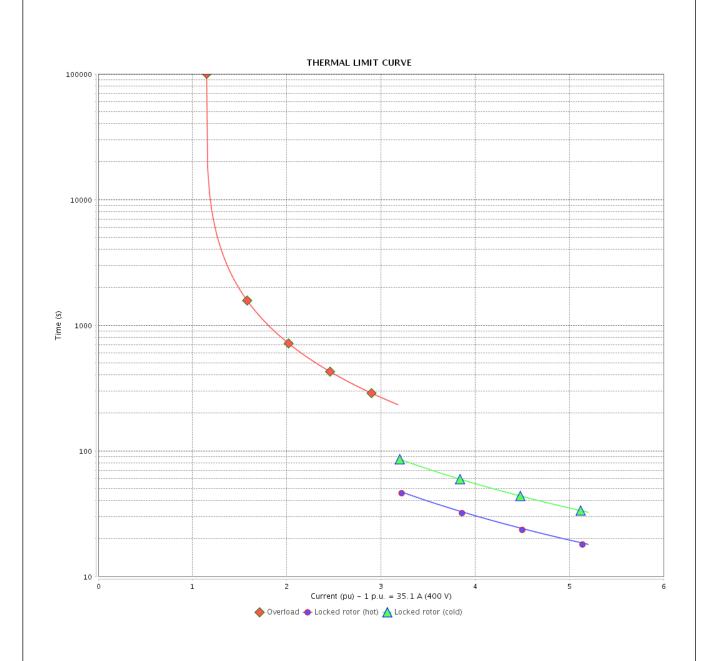


Customer	:	:				
Product line		: NEMA Premium Efficiency <sup>-</sup> Phase		Product code :	12447791 02512ST3QII	E324TC-W22
Performance Rated current LRC Rated torque Locked rotor toro Breakdown torque Rated speed	i : iue ie : :	400 V 50 Hz 6P IE3 35.1 A 5.2 135 ft.lb 180 % 220 % 970 rpm	Moment or Duty cycle Insulation Service fa Temperature Design	class ctor	: 11.5 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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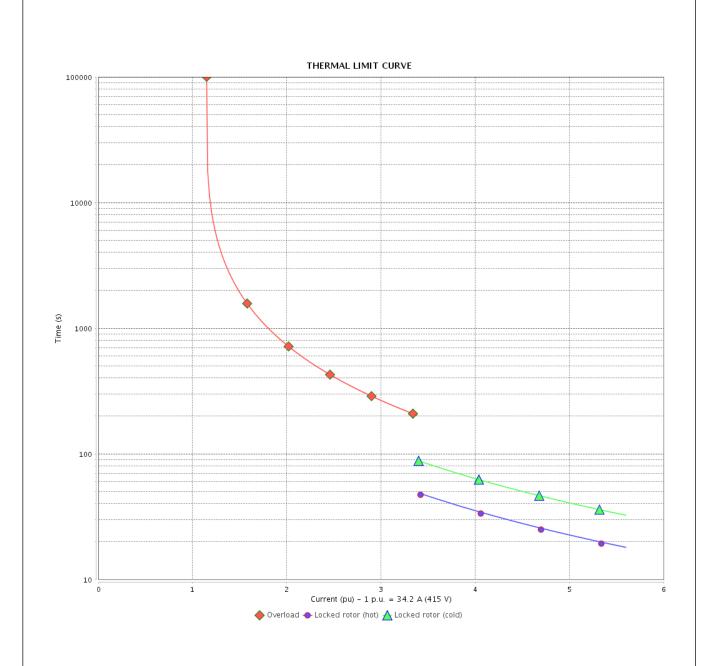


Customer		:			·	
Product line		: NEMA Premium Efficiency <sup>-</sup> Phase		Product code : Catalog # :	12447791 02512ST3QIE	324TC-W22
Performance Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	jue : ie	: 415 V 50 Hz 6P IE3 : 34.2 A : 5.6 : 135 ft.lb : 190 % : 240 % : 975 rpm	Moment or Duty cycle Insulation Service fa Temperatu Design	class ctor	: 11.5 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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### Three Phase Induction Motor - Squirrel Cage



Customer



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#### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

13/04/2022

Product line : NEMA Premium Efficiency Three- Product

Phase

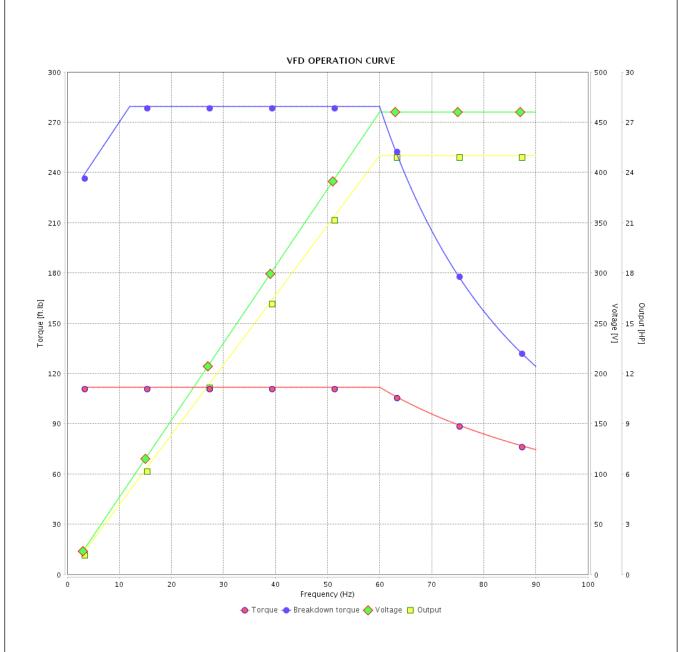
Product code: 12447791

Catalog #: 02512ST3QIE324TC-W22

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Performance	:	460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	iue :	30.4 A 6.0 112 ft.lb 210 % 250 % 1175 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ector	: 11.5 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.		Changes Summary	,	Performed	Checked	Date
Performed by						

#### Three Phase Induction Motor - Squirrel Cage

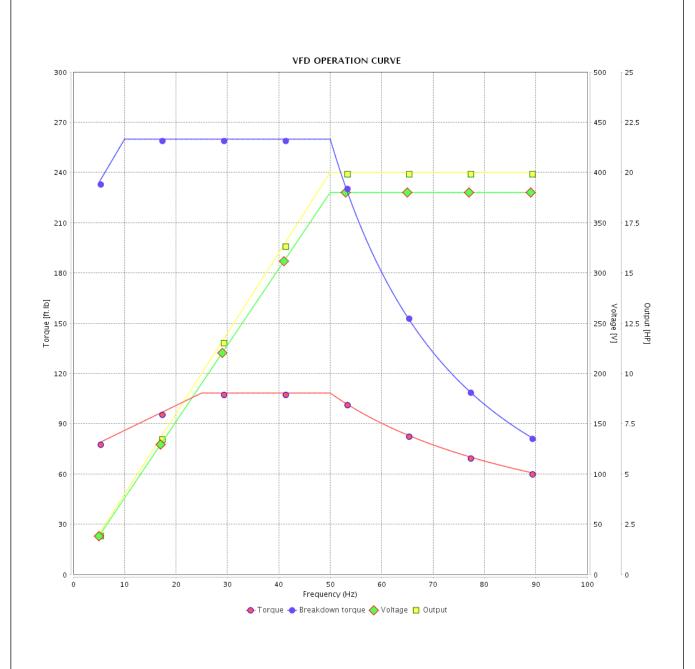


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12447791

Phase

Catalog #: 02512ST3QIE324TC-W22



Performance	: 3	80 V 50 Hz 6P IE3				
Rated current	: 3	0.0 A	Moment o	f inertia (J)	: 11.5 sq.ft.lb	
LRC	: 5	.8	Duty cycle	Duty cycle		
Rated torque	: 1	08 ft.lb	Insulation	class	: Cont.(S1) : F	
Locked rotor torque	e : 2	00 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	40 %	Temperature rise		: 80 K	
Rated speed	: 9	70 rpm	Design		: B	
Rev.		Changes Summary	'	Performed	Checked	Date
Performed by						
Checked by		_			Page	Revision
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

13/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

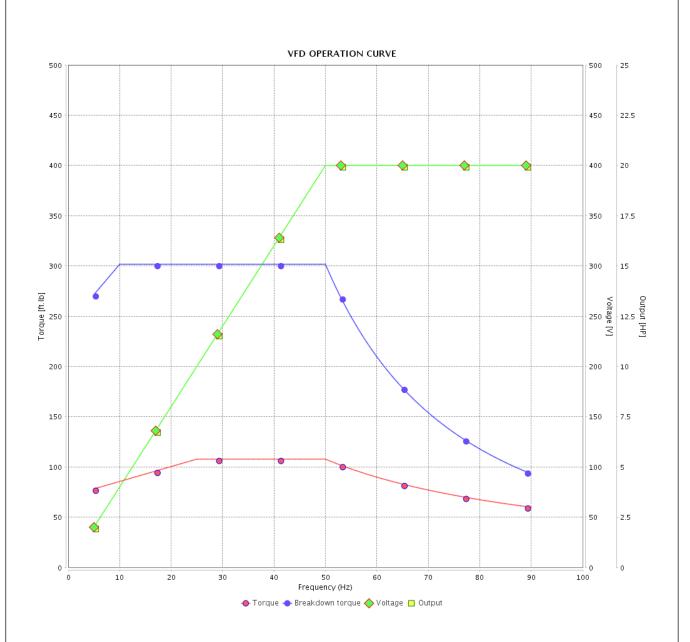
Product code: 12447791

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Revision



: 40	00 V 50 Hz 6P IE3				
: 6. : 10  ue : 22	3 08 ft.lb 29 % 30 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 11.5 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
	Changes Summary	'	Performed	Checked	Date
	: 29 : 6. : 10 que : 22 ue : 28	ie : 280 % : 975 rpm	: 29.4 A	: 29.4 A : 6.3 : 108 ft.lb : 229 % : 229 % : 280 % : 975 rpm  Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 29.4 A       Moment of inertia (J)       : 11.5 sq.ft.lb         : 6.3       Duty cycle       : Cont.(S1)         : 108 ft.lb       Insulation class       : F         que       : 229 %       Service factor       : 1.15         ie       : 280 %       Temperature rise       : 80 K         : 975 rpm       Design       : B

#### Three Phase Induction Motor - Squirrel Cage

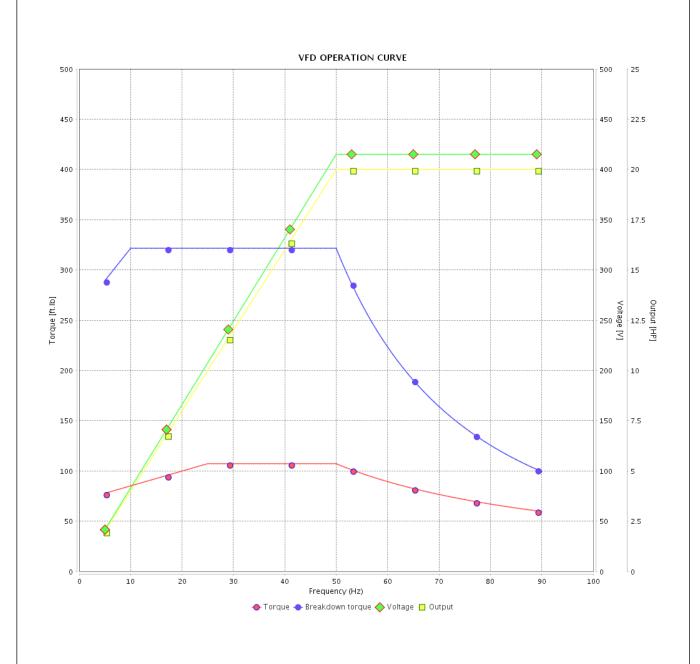


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12447791

Phase

Catalog #: 02512ST3QIE324TC-W22



Performance	: 4	15 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque		3.6 A 8 07 ft.lb 50 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 11.5 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K	
Rated speed Rev.	: 90	30 rpm Changes Summary	Design	Performed	: B Checked	Date
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

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Product line : NEMA Premium Efficiency Three- Product co

Phase

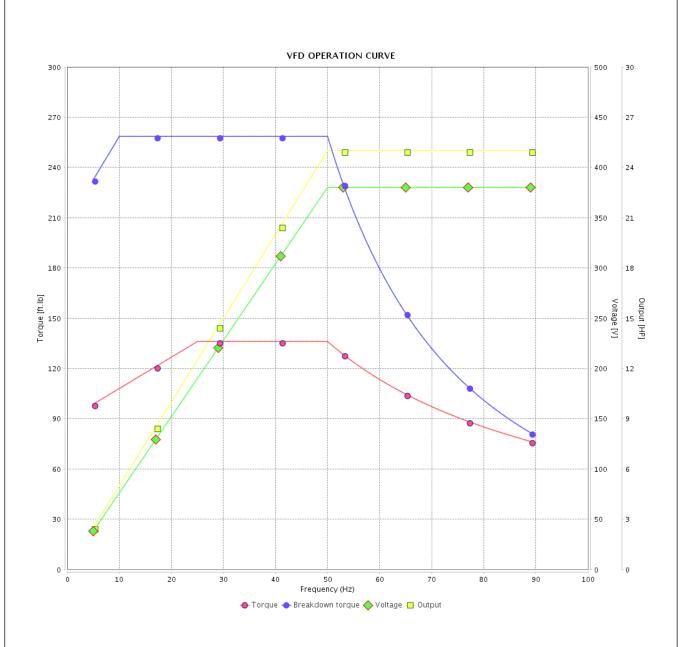
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Performance	: 3	380 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 4 : 1 : 1 : 1 : 1	36.3 A 4.7 136 ft.lb 160 % 190 % 965 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 11.5 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.		Changes Summary	,	Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage

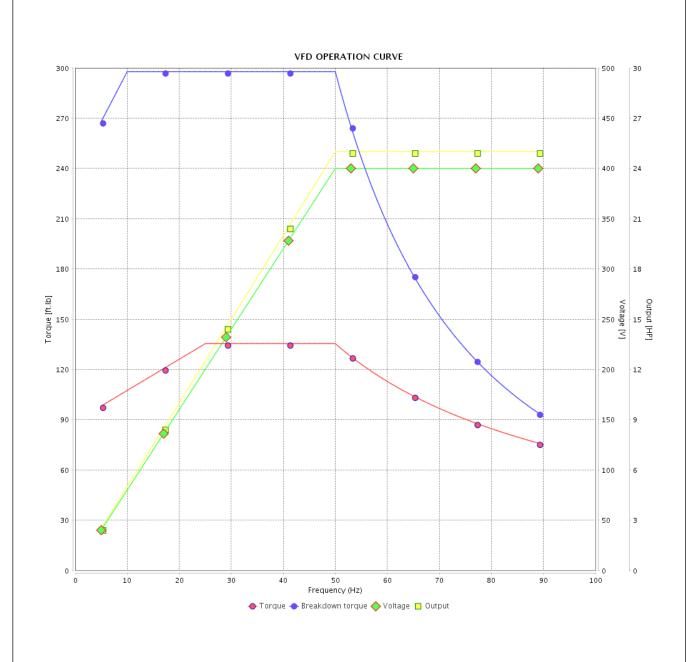


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12447791

Phase

Catalog #: 02512ST3QIE324TC-W22



Performance	: 4	00 V 50 Hz 6P IE3				
Rated current : 35.1 A		5.1 A	Moment o	Moment of inertia (J)		
LRC	: 5	.2	Duty cycle		: Cont.(S1)	
Rated torque	: 1	35 ft.lb	Insulation	Insulation class		
Locked rotor torqu	ue : 1	80 %	Service fa	ctor	: 1.15	
Breakdown torque : 2		20 %	Temperatu	Temperature rise		
Rated speed : 970 rpm		Design	Design			
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#### Three Phase Induction Motor - Squirrel Cage



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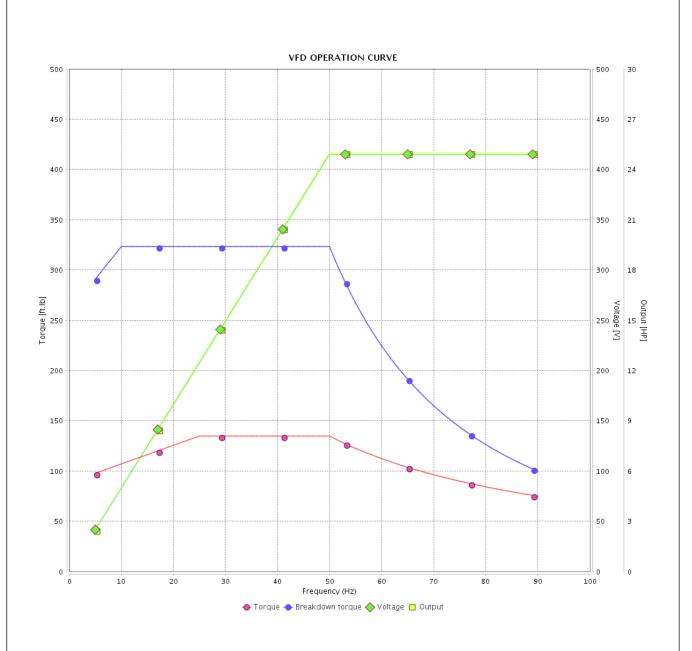
Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 12447791

Catalog #: 02512ST3QIE324TC-W22

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Performance : 415 V 50 Hz 6P IE3 Rated current : 34.2 A Moment of inertia (J) : 11.5 sq.ft.lb **LRC** : 5.6 Duty cycle : Cont.(S1) Insulation class : 135 ft.lb : F Rated torque Locked rotor torque : 190 % Service factor : 1.15 Breakdown torque : 240 % Temperature rise : 80 K : 975 rpm Rated speed Design : B Rev. Performed Checked **Changes Summary** Date Performed by Page Checked by Revision

