DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12447793

Catalog #: 02512ST3QIE324T-W22

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

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line

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

Protection degree : 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)	G)					
No load current [A]]	12.5	12.3	13.3	14.2	12.3	13.3	14.2
Rated speed [RPN	1]	1175	970	975	980	965	970	975
Slip [%]		2.08	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	e [%]	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 ²		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%							
Efficiency (%)	50%	91.7	91.1	91.1	91.1	91.7	91.7	91.7
Efficiency (%)	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%							
Power Factor	50%	0.65	0.63	0.60	0.57	0.71	0.68	0.65
Fower Factor	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 6312 C3 6212 C3 Max. traction : 964 lb Sealing Inpro/Seal Inpro/Seal Max. compression : 1516 lb 20000 h 20000 h 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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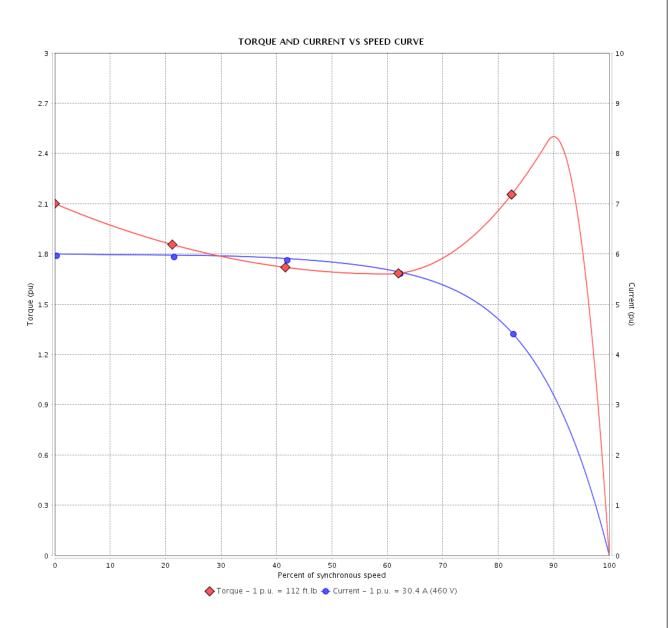
Customer :

Product line : NEMA Premium Efficiency Three- Product co

Phase

Product code: 12447793

Catalog #: 02512ST3QIE324T-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: 12447793 Catalog #: 02512ST3QIE324T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 (bd) 1.25 Current (pu) 0.5 0.25 40 50 -Percent of synchronous speed ◆ Torque - 1 p.u. = 108 ft.lb ◆ Current - 1 p.u. = 30.0 A (380 V)

Performance	: 380 V 50 Hz 6P IE3			
Rated current	: 30.0 A	Moment of inertia (J)	: 11.5 sq.ft.lb	
LRC	: 5.8	Duty cycle	: Cont.(S1)	
Rated torque	: 108 ft.lb	Insulation class	: F	
Locked rotor torque	: 200 %	Service factor	: 1.00	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 970 rpm	Design	: B	
Locked rotor time	: 32s (cold) 18s (hot)			
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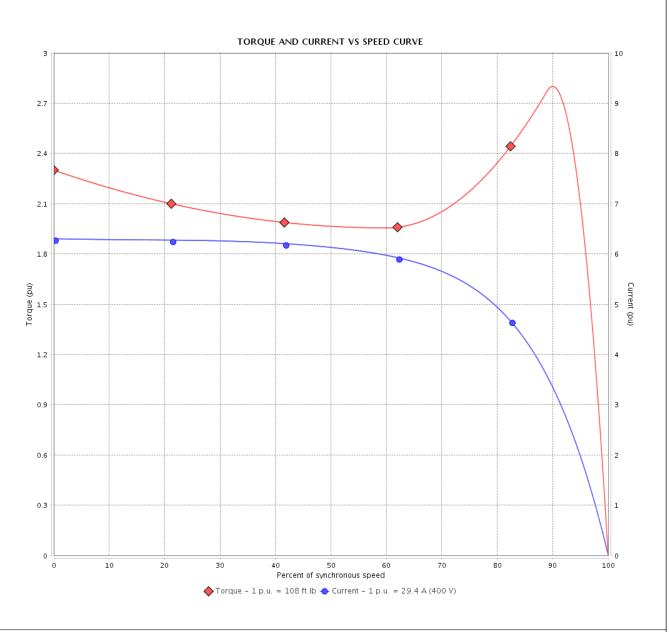


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12447793

Phase

Catalog #: 02512ST3QIE324T-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 Duty cycle : Cont.(S1) Insulation class Rated torque : 108 ft.lb : F Locked rotor torque : 229 % Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 975 rpm Design : B

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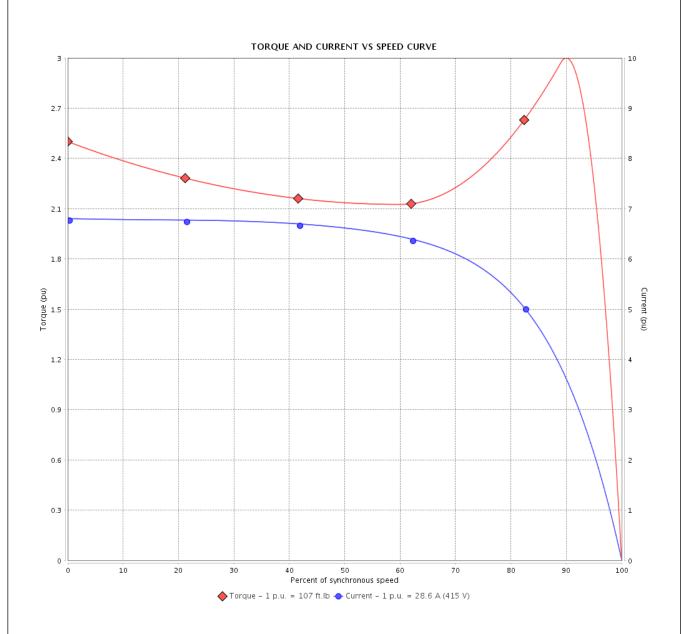
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 12447793

Catalog #: 02512ST3QIE324T-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	
Locked rotor time	· 32s (cold) 18s (hot)			

LOCKCU TOLOT LITTLE		23 (cold) 103 (1101)			
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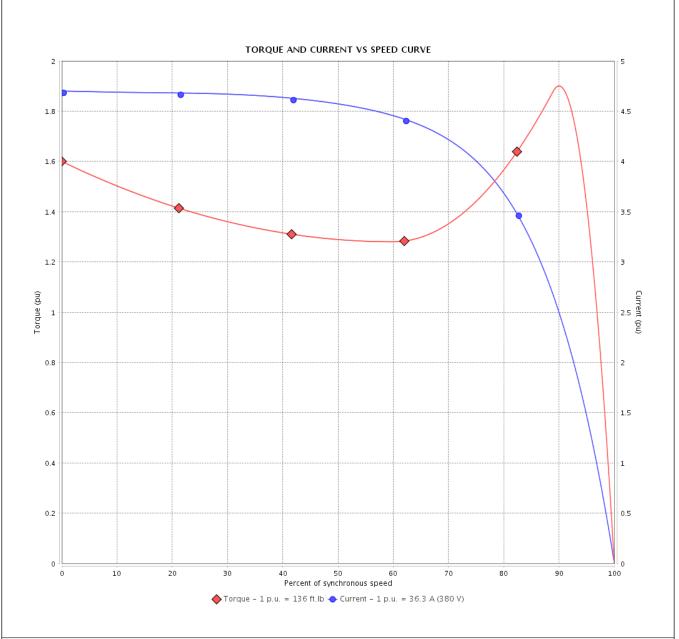
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 12447793

Catalog #: 02512ST3QIE324T-W22



Performance	: 380 V 50 Hz 6P IE2		
Rated current LRC	: 36.3 A : 4.7	Moment of inertia (J) Duty cycle	: 11.5 sq.ft.lb : Cont.(S1)
Rated torque	: 136 ft.lb	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque Rated speed	: 190 % : 965 rpm	Temperature rise Design	: 80 K : B
Looked reter time	: 22a (aald) 19a (bat)		

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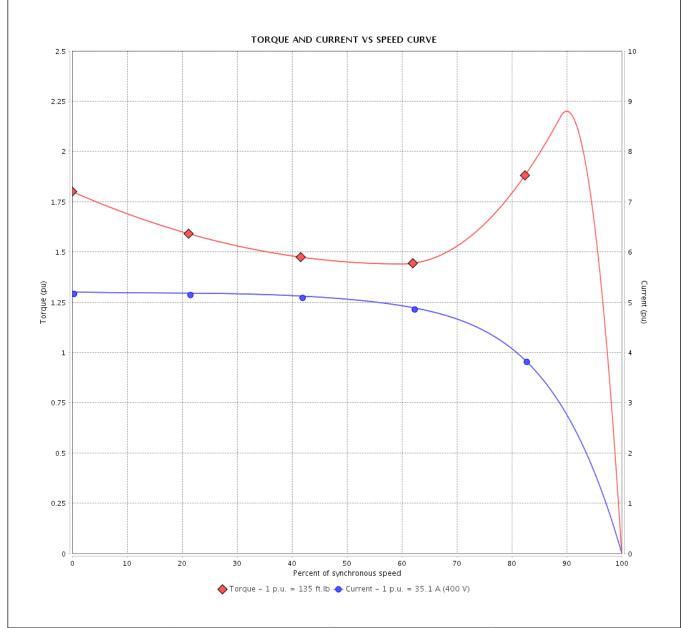


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Product line : NEMA Premium Efficiency Three- Product code : 12447793

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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 reter time	: 32s (sold) 18s (hot)		

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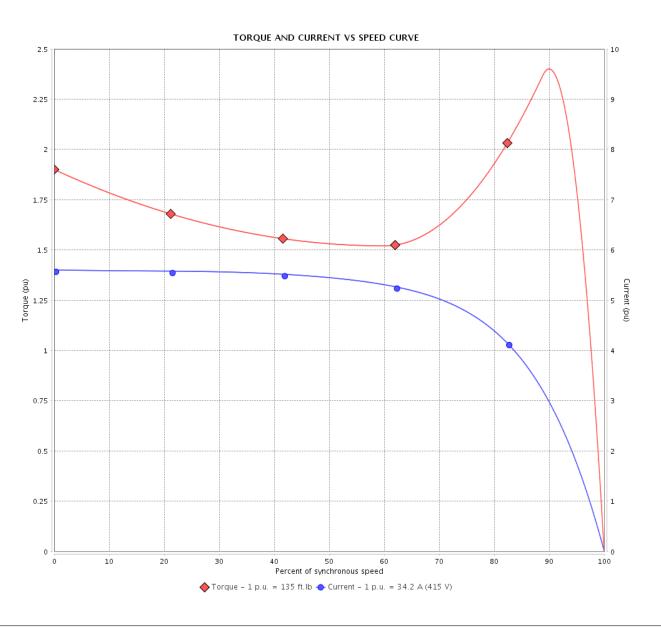


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Product line : NEMA Premium Efficiency Three- Product code : 12447793

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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)	
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	
Looked veter times	. 22c (cold) 40c (bot)			

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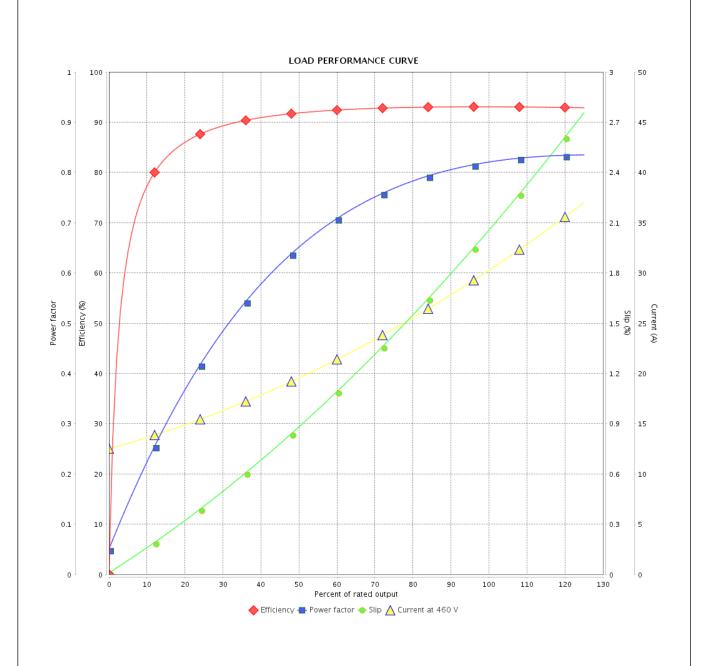
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Product line : NEMA Premium Efficiency Three- Product code : 12447793

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Performance	: 460 V 60 Hz 6P	P			
RC : 6.0 Duty of ated torque : 112 ft.lb Insula ocked rotor torque : 210 % Service reakdown torque : 250 % Temper		Moment of inertia (J) : 11.5 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.25 Temperature rise : 80 K Design : B			
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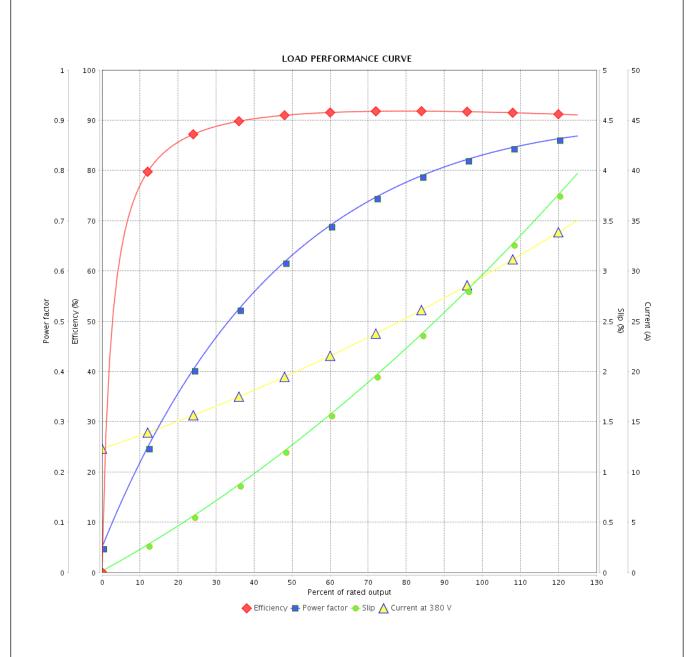
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Performance	: 380 V 50 Hz 6P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5.8 Duty cycle I torque : 108 ft.lb Insulation class ed rotor torque : 200 % Service factor cdown torque : 240 % Temperature rise		: 11.5 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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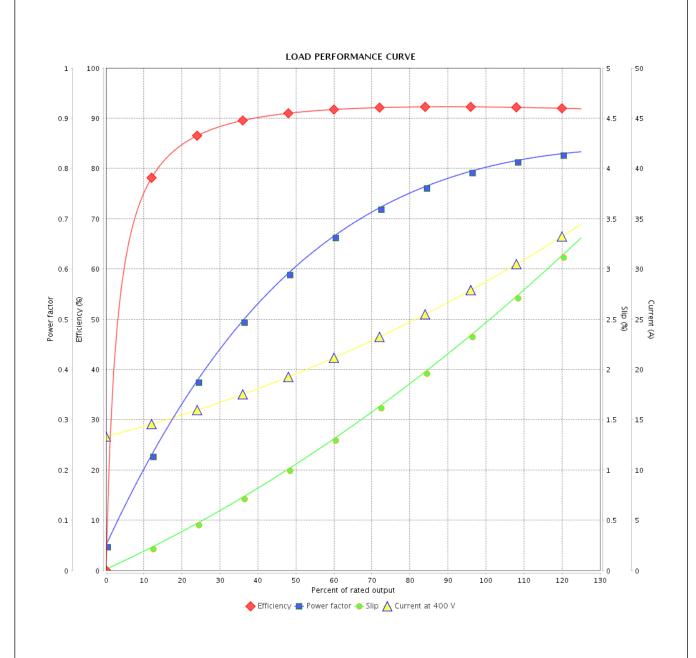
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Rated speed Rev.	: 975 rpm Changes Summary	Design	Performed	: B Checked	Date
Breakdown torque	: 280 %	Temperatu	re rise	: 80 K	
Locked rotor torque	: 229 %	Service fac	factor	: 1.15	
Rated torque	: 108 ft.lb	Insulation class		: F	
LRC	: 6.3	Duty cycle	: Cont.(S1)		
Rated current	: 29.4 A	Moment of	inertia (J)	: 11.5 sq.ft.lb	
Performance	: 400 V 50 Hz 6P IE3				

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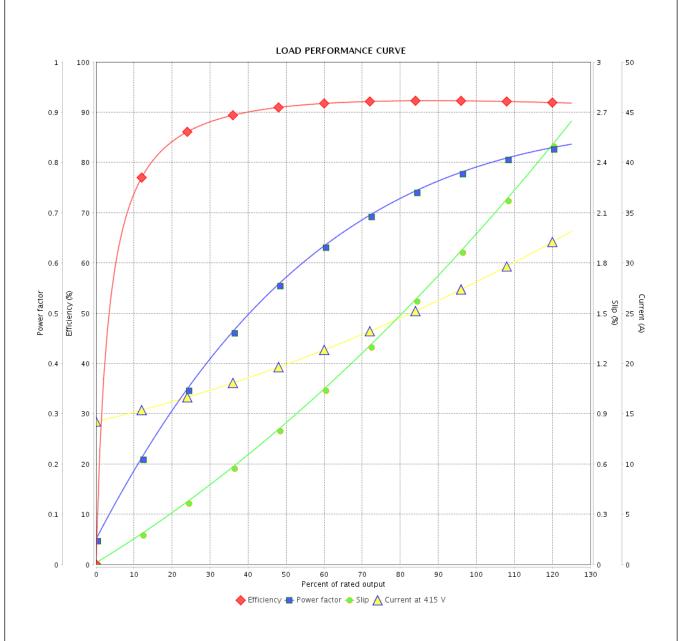
Product line : NEMA Premium Efficiency Three- Pro

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Product code: 12447793

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Performance	: 415 V 50 Hz 6P IE3	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 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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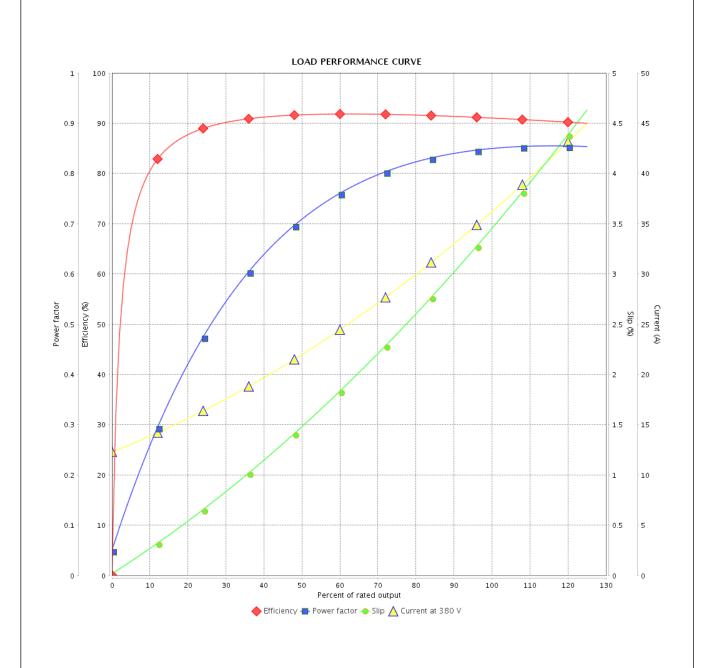


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Product line : NEMA Premium Efficiency Three- Product code : 12447793

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Performance	: 3	380 V 50 Hz 6P IE2				
Rated current	Rated current : 36.3 A Momen		Moment o	f inertia (J)	: 11.5 sq.ft.lb	
LRC	: 4	.7	Duty cycle)	: Cont.(S1)	
Rated torque	: 1	36 ft.lb	Insulation	class	: F	
Locked rotor torqu	e :1	60 %	Service fa	ctor	: 1.00	
Breakdown torque	: 1	: 190 % Temperature rise Design		ıre rise	: 80 K	
Rated speed	: 9				: B	
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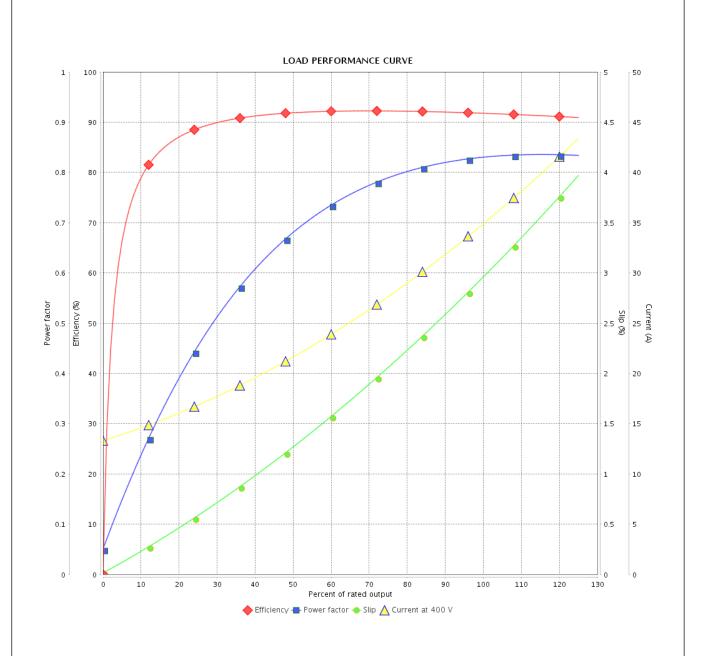
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Performance	formance : 400 V 50 Hz 6P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5.2 Duty cycl I torque : 135 ft.lb Insulation ed rotor torque : 180 % Service fa down torque : 220 % Temperat		I) : 11.5 sq.f : Cont.(S1 : F : 1.15 : 80 K : B	
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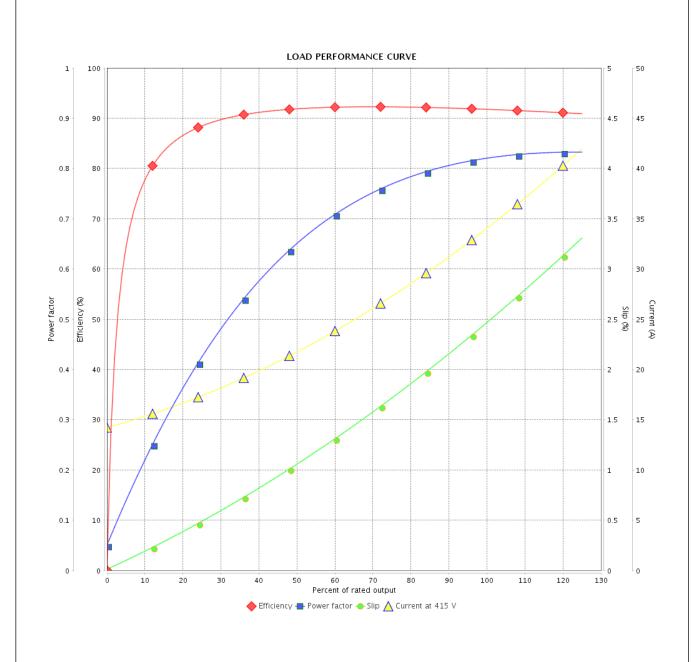


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Product line : NEMA Premium Efficiency Three- Product code : 12447793

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Performance	: 4	415 V 50 Hz 6P IE3				
Rated current	rent : 34.2 A Moment of inertia (f inertia (J)	: 11.5 sq.ft.lb		
LRC	: 5	5.6	Duty cycle		: Cont.(S1)	
Rated torque	: 1	35 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 1	90 %	Service factor		: 1.15	
Breakdown torque	e : 2	40 %	% Temperature rise		: 80 K	
Rated speed	: 9	75 rpm	Design		: B	
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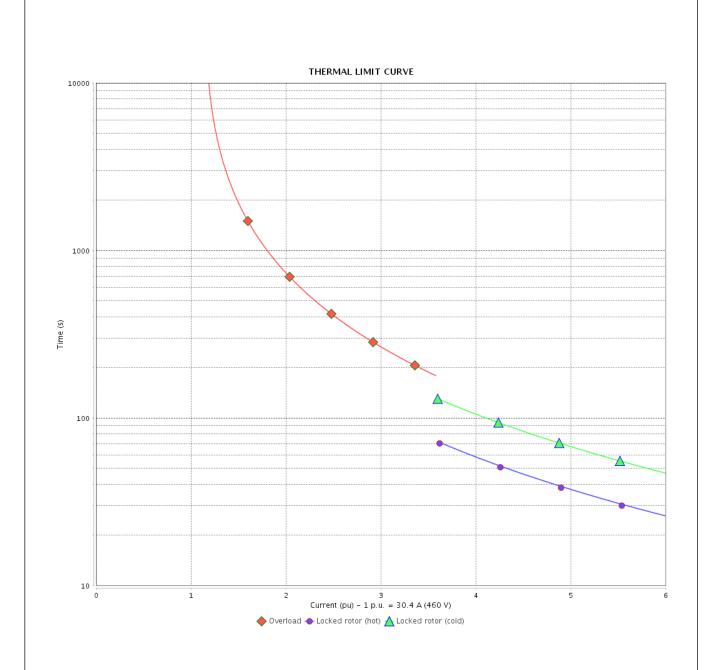


Customer	:				
Product line	: NEMA Premium Effic Phase		Product code : Catalog # :	12447793 02512ST3QII	E324T-W22
Performance	: 460 V 60 Hz 6P				
Rated current LRC	: 30.4 A : 6.0	Duty cycle	of inertia (J)	: 11.5 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque	: 112 ft.lb : 210 %	Insulation Service fa		: F : 1.25	
Breakdown torque Rated speed	: 250 % : 250 % : 1175 rpm	Temperat Design		: 80 K : B	
Heating constant	·	- 3			
Cooling constant			T		
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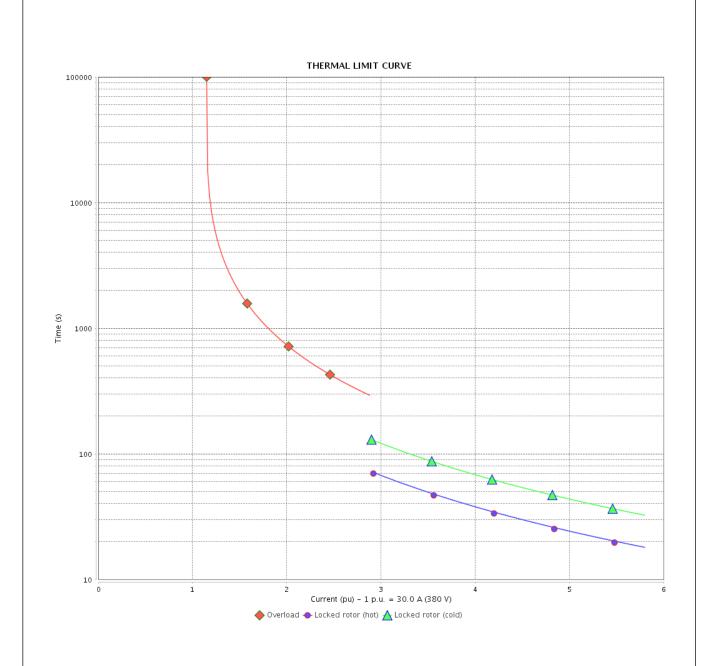


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	' '	luse	(Catalog # :	02512ST3QIE	E324T-W22
Performance		80 V 50 Hz 6P IE3				
Rated current LRC	: 30 : 5.).0 A 8	Moment of Duty cycle	f inertia (J)	: 11.5 sq.ft.lb : Cont.(S1)	
Rated torque	: 10	08 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		00 % 40 %	Service far Temperatu		: 1.00 : 80 K	
Rated speed		70 rpm	Design		: B	
Heating constant	<u> </u>					
Cooling constant			Т			
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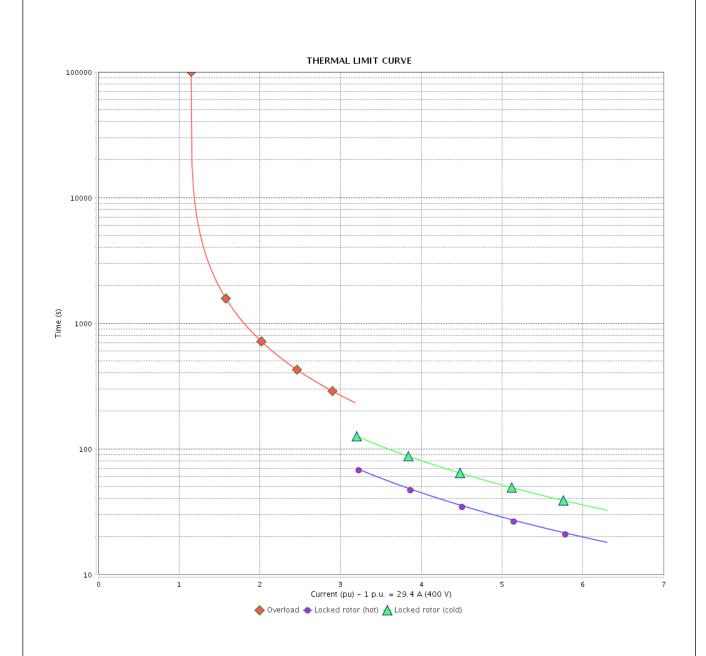


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Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	12447793	
		Tildac		Catalog # :	02512ST3QIE	324T-W22
Performance		: 400 V 50 Hz 6P IE3				
Rated current		: 29.4 A		of inertia (J)	: 11.5 sq.ft.lb	
LRC Rated torque		: 6.3 : 108 ft.lb	Duty cycle Insulation	9	: Cont.(S1) : F	
Locked rotor torq		: 229 %	Service fa		. г : 1.15	
Breakdown torqu	ue :	: 280 %	Temperat	ure rise	: 80 K	
Rated speed		: 975 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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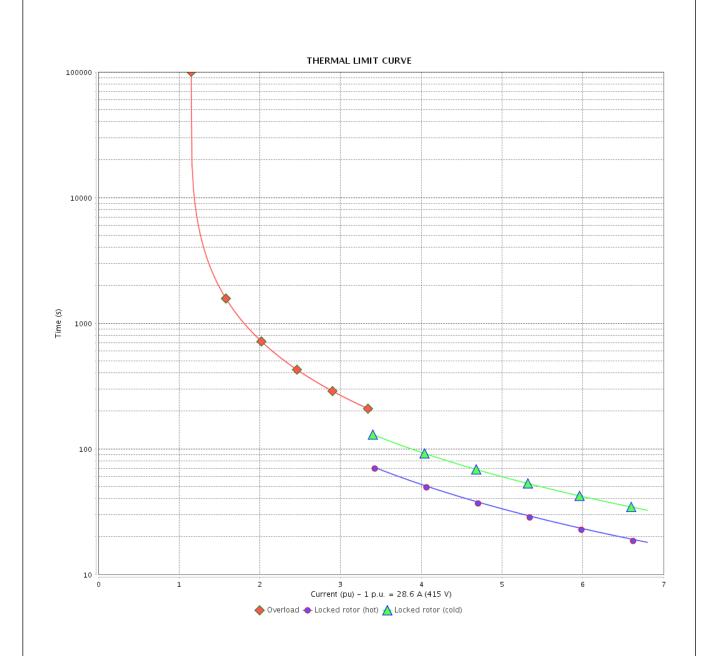


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12447793 02512ST3QIE	:324T-W22
Performance		: 415 V 50 Hz 6P IE3				
Rated current LRC		: 28.6 A : 6.8	Moment of Duty cycle	of inertia (J) e	: 11.5 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 107 ft.lb : 250 %	Insulation Service fa	class	: F : 1.15	
Breakdown torqu	ue	: 300 %	Temperat		: 80 K	
Rated speed		: 980 rpm	Design		: B	
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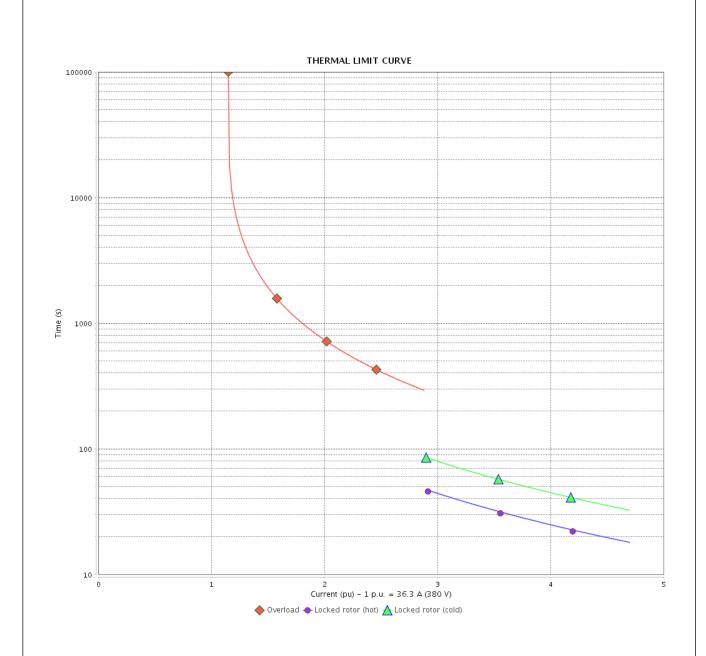


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Customer	:			
Product line	: NEMA Premium Efficiency T Phase	Three- Product code : Catalog # :	12447793 02512ST3QIE	-324T-W22
		J		
Performance	: 380 V 50 Hz 6P IE2			
Rated current LRC	: 36.3 A : 4.7	Moment of inertia (J) Duty cycle	: 11.5 sq.ft.lb : Cont.(S1)	
Rated torque	: 136 ft.lb	Insulation class	: F	
Locked rotor torque	: 160 % : 190 %	Service factor	: 1.00 : 80 K	
Breakdown torque Rated speed	: 190 % : 965 rpm	Temperature rise Design	: 80 K : B	
Heating constant				
Cooling constant				
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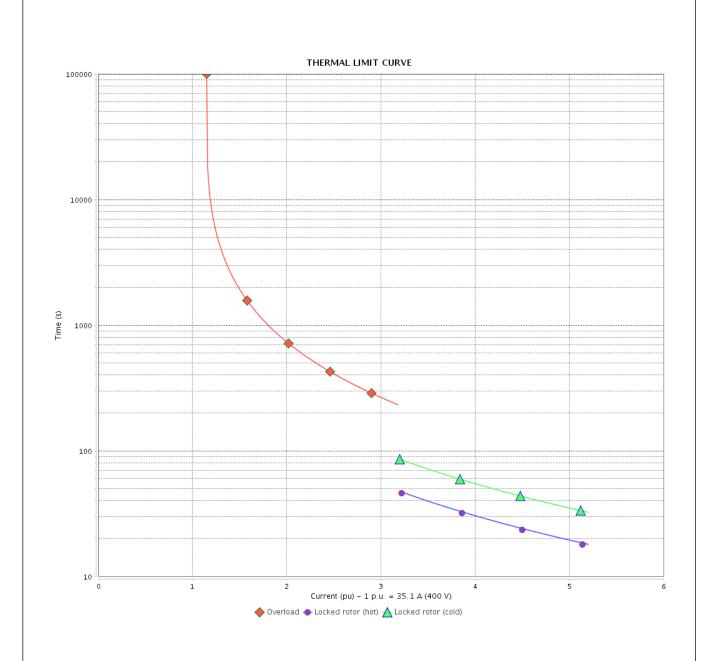


Customer	:				
Product line	: NEMA Premium Effic Phase		Product code :	12447793 02512ST3QIE	E324T-W22
Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 35.1 A : 5.2 : 135 ft.lb : 180 % : 220 % : 970 rpm	Moment o Duty cycle Insulation 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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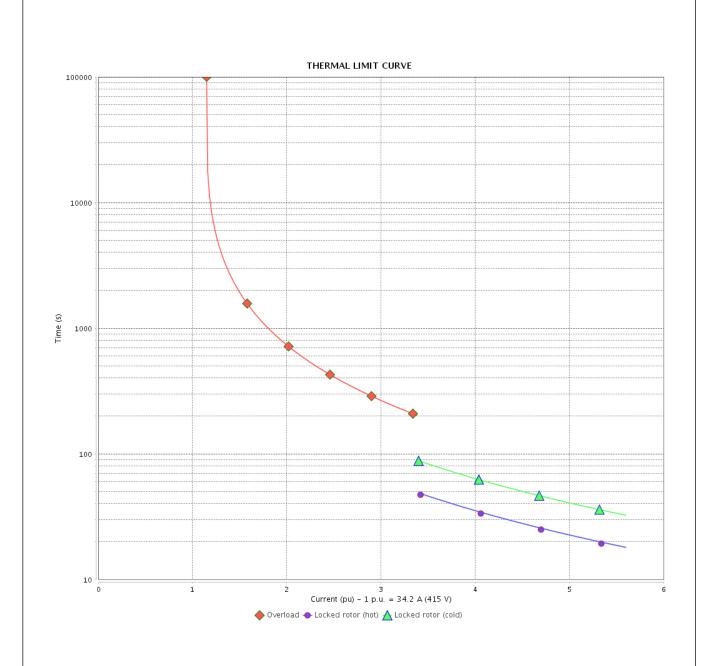


Customer	:				_	
Product line		NEMA Premium Efficiency in the second		Product code :	12447793 02512ST3QIE	E324T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3 ⁴ : 5. : 13 : 19 : : 2 ⁴	15 V 50 Hz 6P IE3 4.2 A 6 35 ft.lb 90 % 40 % 75 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 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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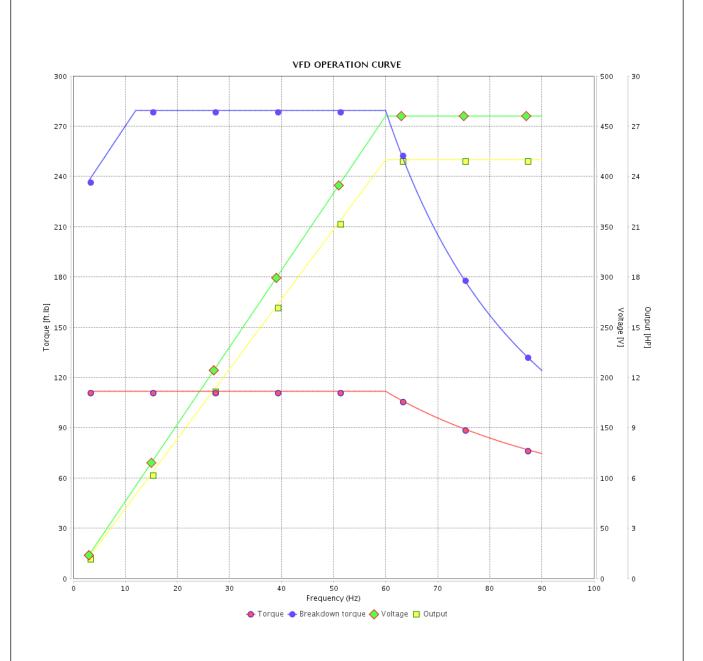
Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12447793

Phase

Catalog #: 02512ST3QIE324T-W22

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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)	
Rated torque	: 112 ft.lb	Insulation c	lass	: F	
Locked rotor torque	: 210 %	Service fact	tor	: 1.25	
Breakdown torque	: 250 %	Temperature rise		: 80 K	
Rated speed	: 1175 rpm	Design		: B	
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Checked by				Page	Revision

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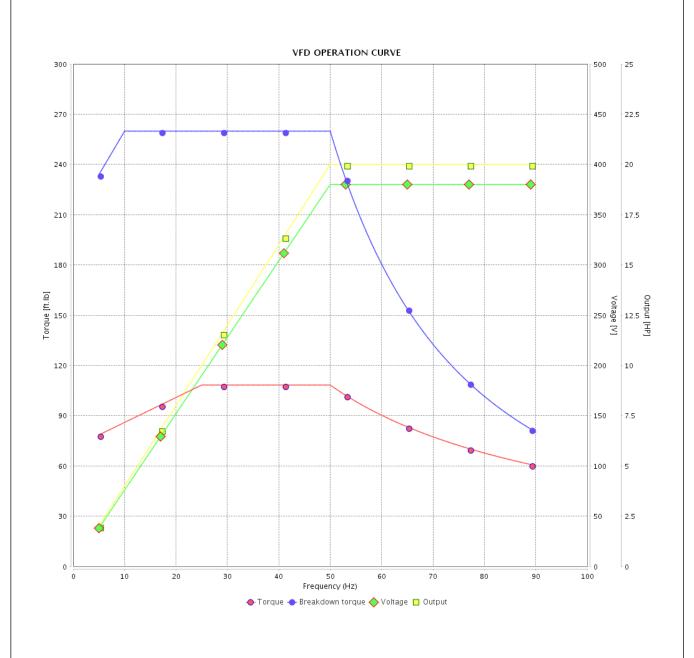


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12447793

Phase

Catalog #: 02512ST3QIE324T-W22



Performance		: 380 V 50 Hz 6P IE3						
Rated current		0.0 A	Moment o	Moment of inertia (J)				
LRC :		.8	Duty cycle	Duty cycle				
Rated torque		08 ft.lb	Insulation class		: F			
Locked rotor torque		00 %	Service factor		: 1.00			
Breakdown torque	e : 2	: 240 % Temperature rise Design		Temperature rise				
Rated speed	: 9			: B				
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Checked by

Date

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Product line : NEMA Premium Efficiency Three- Product

Phase

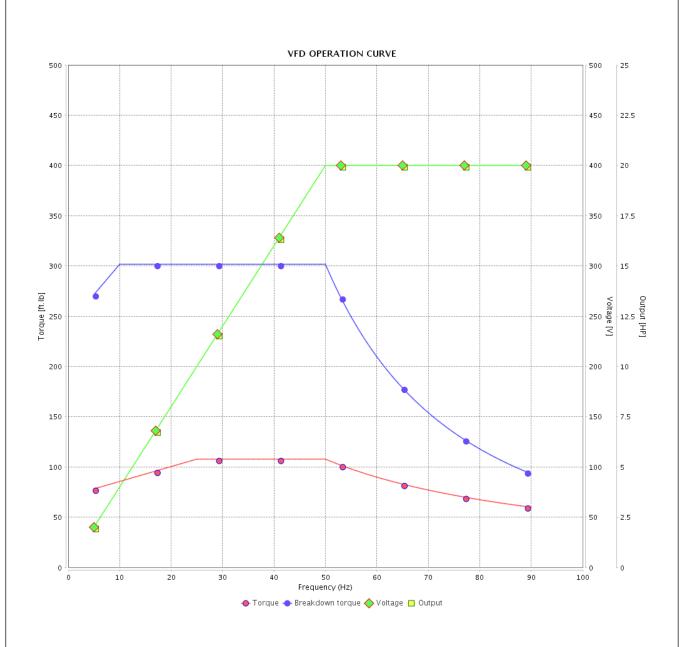
Product code: 12447793

Catalog #: 02512ST3QIE324T-W22

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Performance	: 4	: 400 V 50 Hz 6P IE3					
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 1 que : 2 ue : 2	: 6.3 : 108 ft.lb : 229 %		f inertia (J) e class ctor ure rise	: 11.5 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B		
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Three Phase Induction Motor - Squirrel Cage



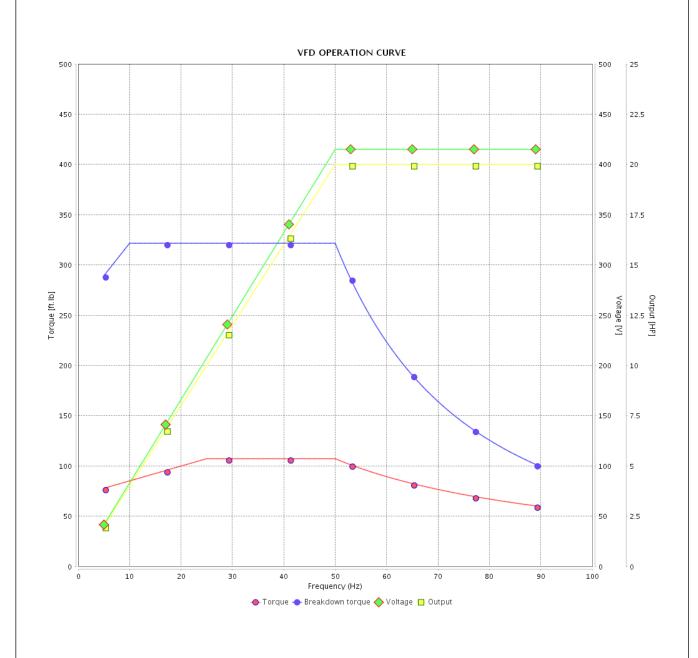
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 02512ST3QIE324T-W22

12447793



								
Performance		: 415 V 50 Hz 6P IE3						
Rated current		8.6 A	Moment o	Moment of inertia (J)				
LRC		.8	Duty cycle		: Cont.(S1)			
Rated torque		107 ft.lb Insulation		class	: F			
Locked rotor torque		50 %	Service factor		: 1.15			
Breakdown torque	e : 30	: 300 % Temperature rise Design		ıre rise	: 80 K			
Rated speed	: 98				: B			
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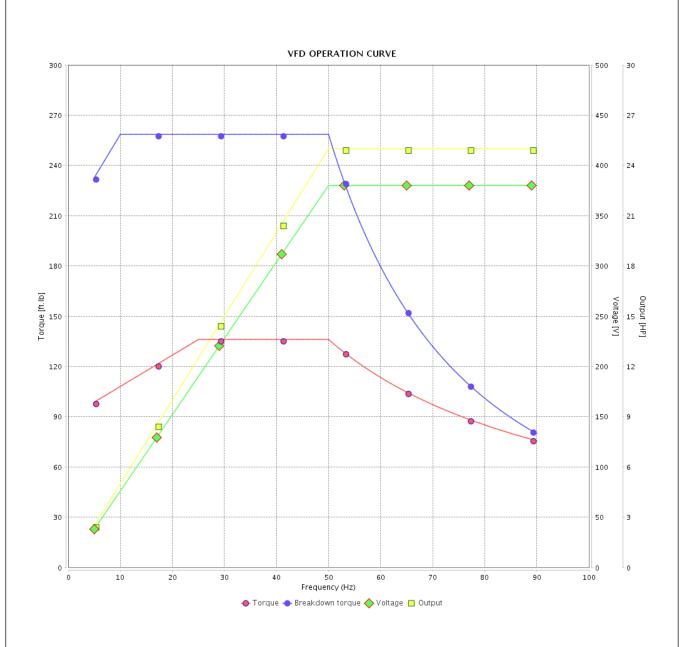
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12447793

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

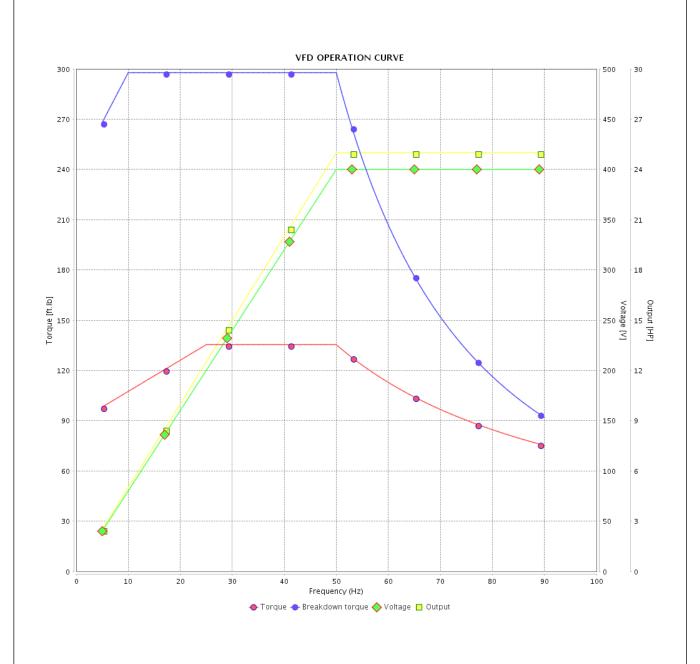
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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

Phase

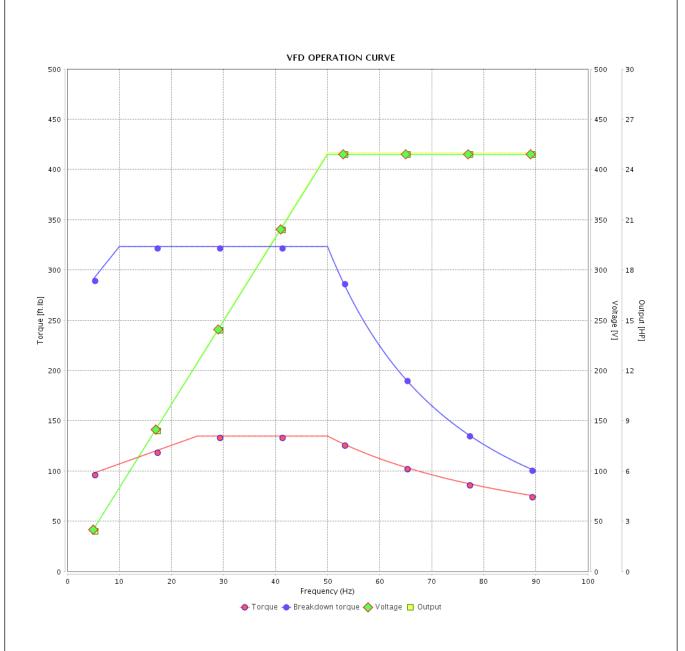
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Performance	: 4′	15 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5. : 13 ue : 19 e : 24	4.2 A .6 35 ft.lb 90 % 40 % 75 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 11.5 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.		Changes Summary	<u>'</u>	Performed	Checked	Date
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