DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12424292

Phase

Catalog #: 01512ST3QIE284T-W22

Frame : 284/6T Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

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

Altitude : 1000 m.a.s.l. Approx. weight³ : 413 lb
Protection degree : IP55 Moment of inertia (J) : 7.85 sq.ft.lb

Design : B

Output [HP]	15	10	10	10	15	15	15
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]	17.9	15.5	15.1	14.9	22.0	20.9	20.2
L. R. Amperes [A]	115	112	119	124	103	111	115
LRC [A]	6.4x(Code	7.2x(Code J)	7.9x(Code K)	8.3x(Code K)	4.7x(Code E)	5.3x(Code F)	5.7x(Code

		J 0)						
No load current [A	.]	7.00	7.00	7.40	7.70	7.00	7.40	7.70
Rated speed [RPN	Л]	1175	985	985	985	965	970	975
Slip [%]		2.08	1.50	1.50	1.50	3.50	3.00	2.50
Rated torque [ft.lb]]	67.0	53.3	53.3	53.3	81.6	81.2	80.8
Locked rotor torqu	ie [%]	229	270	300	330	170	200	220
Breakdown torque	: [%]	260	300	340	360	210	229	250
Service factor		1.25	1.25	1.25	1.25	1.00	1.15	1.15
Temperature rise		80 K						
Locked rotor time		36s (cold)	61s (cold)	54s (cold)	52s (cold)	27s (cold)	27s (cold)	27s (cold)
		20s (hot)	34s (hot)	30s (hot)	29s (hot)	15s (hot)	15s (hot)	15s (hot)
Noise level ²		59.0 dB(A)	56.0 dB(A)					
	25%	90.8	88.9	89.0	89.0	92.4	90.6	90.7
- (C)	50%	91.0	89.0	89.1	89.1	91.0	90.2	90.2

Efficiency (%) 75% 91.7 89.4 89.5 89.5 90.2 90.2 91.0 100% 91.7 88.5 89.4 89.5 89.5 89.5 90.2 25% 0.44 0.39 0.36 0.34 0.50 0.47 0.45 50% 0.69 0.64 0.61 0.58 0.75 0.72 0.70 Power Factor 0.71 75% 0.80 0.76 0.73 0.84 0.82 0.81 100% 0.84 0.82 0.80 0.78 0.86 0.85 0.84

Lubrication interval : 20000 h 20000 h Lubricant amount : 18 g 11 g Lubricant type : Mobil Polyrex EM

Lubricant type : Mobil Po

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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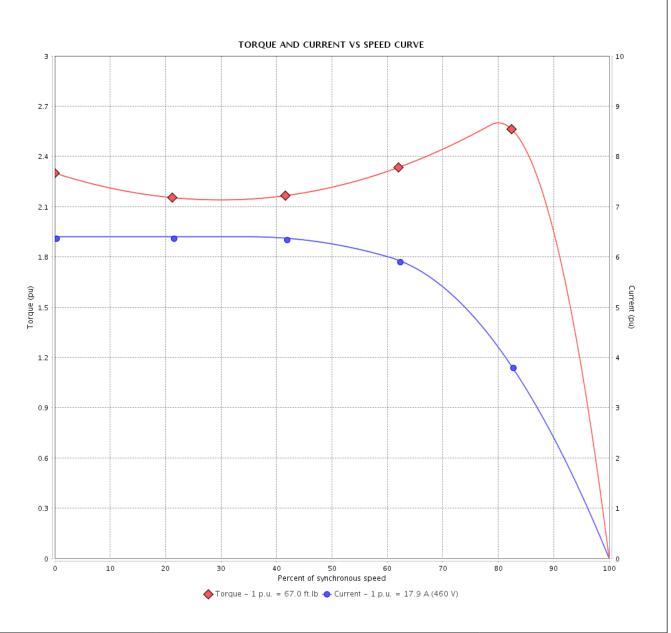
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12424292

Catalog #: 01512ST3QIE284T-W22



Performance : 460 V 60 Hz 6P Rated current : 17.9 A Moment of inertia (J) : 7.85 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 67.0 ft.lb Insulation class Rated torque : F Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1175 rpm Design : B

Locked rotor time : 36s (cold) 20s (hot)

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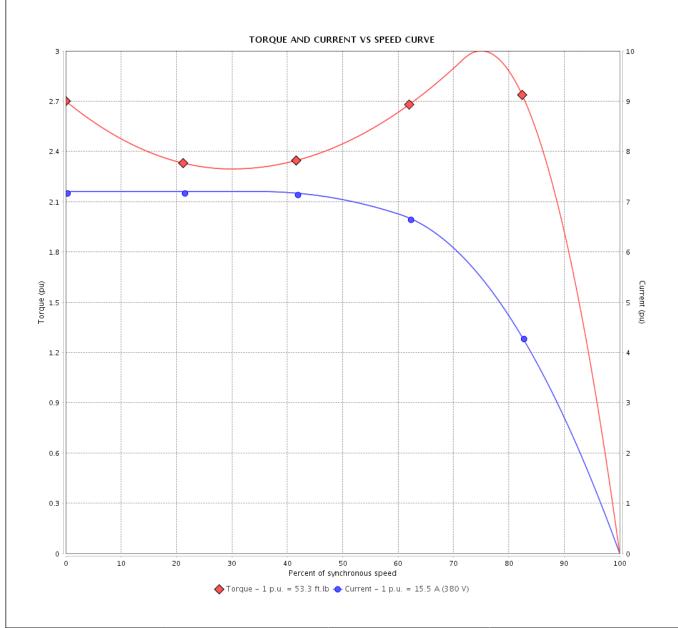


Customer

Product line : NEMA Premium Efficiency Three-Product code:

12424292

Catalog #: 01512ST3QIE284T-W22



Performance : 380 V 50 Hz 6P IE3 Rated current : 15.5 A Moment of inertia (J) : 7.85 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) : 53.3 ft.lb Insulation class : F Rated torque : 270 % : 1.25 Locked rotor torque Service factor : 300 % Breakdown torque Temperature rise : 80 K : B Rated speed : 985 rpm Design

Locked rotor time : 61s (cold) 34s (hot)

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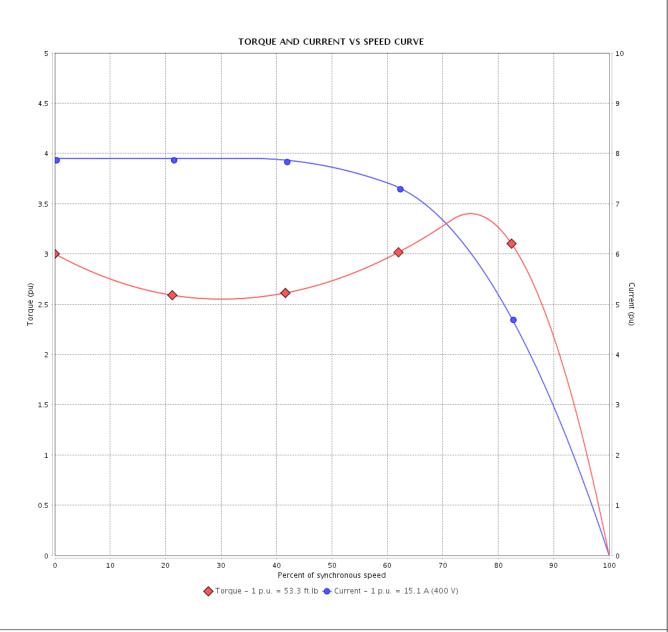
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12424292

Catalog #: 01512ST3QIE284T-W22



Performance	: 400 V 50 Hz 6P IE3			
Rated current	: 15.1 A	Moment of inertia (J)	: 7.85 sq.ft.lb	
LRC	: 7.9	Duty cycle	: Cont.(S1)	
Rated torque	: 53.3 ft.lb	Insulation class	:F	
Locked rotor torque	: 300 %	Service factor	: 1.25	
Breakdown torque	: 340 %	Temperature rise	: 80 K	
Rated speed	: 985 rpm	Design	: B	
Laster describer a	. 54- (1-1) 20- (+)	1		

Locked rotor time : 54s (cold) 30s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12424292 Catalog #: 01512ST3QIE284T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (bu) 40 50 -Percent of synchronous speed ♦ Torque – 1 p.u. = 53.3 ft.lb ♦ Current – 1 p.u. = 14.9 A (415 V)

Performance	: 415 V 50 Hz 6P IE3				
Rated current	: 14.9 A	Moment of ir	nertia (J)	: 7.85 sq.ft.lb	
LRC	: 8.3	Duty cycle		: Cont.(S1)	
Rated torque	: 53.3 ft.lb	Insulation cla	ass	: F	
Locked rotor torque	: 330 %	Service factor	or	: 1.25	
Breakdown torque	: 360 %	Temperature	rise	: 80 K	
Rated speed	: 985 rpm	Design		: B	
Locked rotor time	: 52s (cold) 29s (hot)	· ·			
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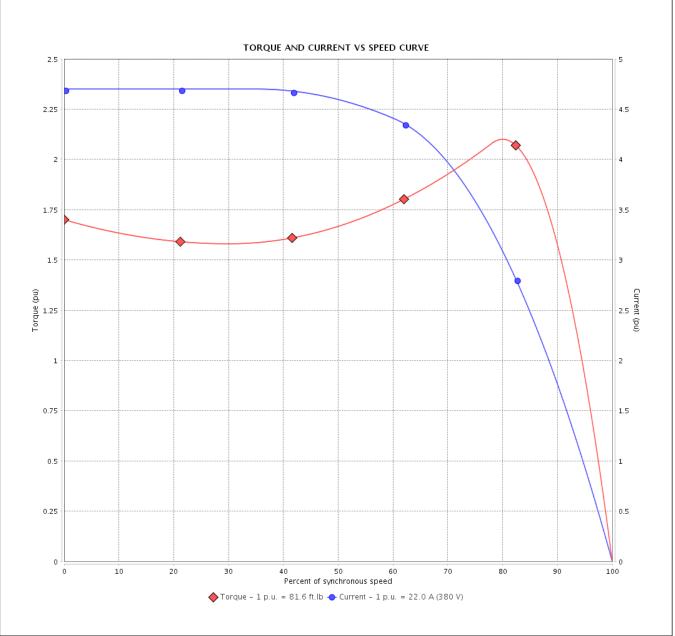
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Product line : NEMA Premium Efficiency Three- Prod

Phase

Product code: 12424292

Catalog #: 01512ST3QIE284T-W22



Performance	: 380 V 50 Hz 6P IE1			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 22.0 A : 4.7 : 81.6 ft.lb : 170 % : 210 % : 965 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 7.85 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Locked rotor time	: 27s (cold) 15s (hot)	I		

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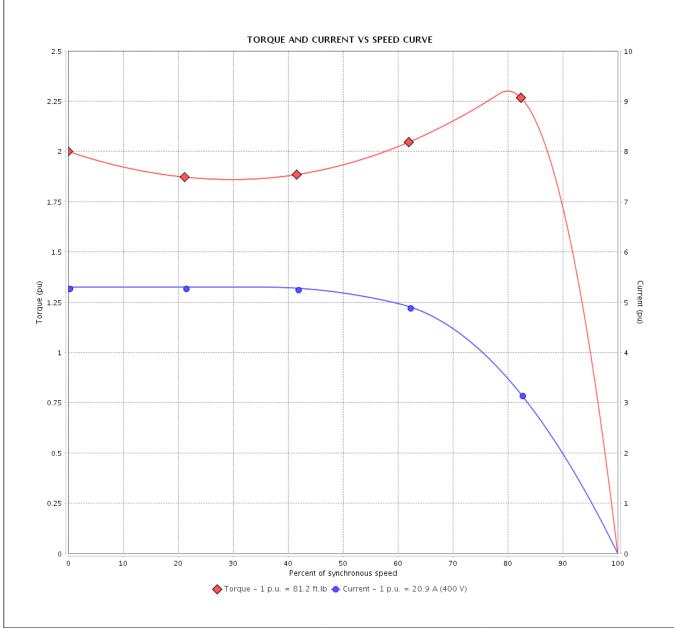


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 12424292

Catalog #: 01512ST3QIE284T-W22



Performance	: 400 V 50 Hz 6P IE2			
Rated current	: 20.9 A	Moment of inertia (J)	: 7.85 sq.ft.lb	
LRC	: 5.3	Duty cycle	: Cont.(S1)	
Rated torque	: 81.2 ft.lb	Insulation class	: F	
Locked rotor torque	: 200 %	Service factor	: 1.15	
Breakdown torque	: 229 %	Temperature rise	: 80 K	
Rated speed	: 970 rpm	Design	: B	

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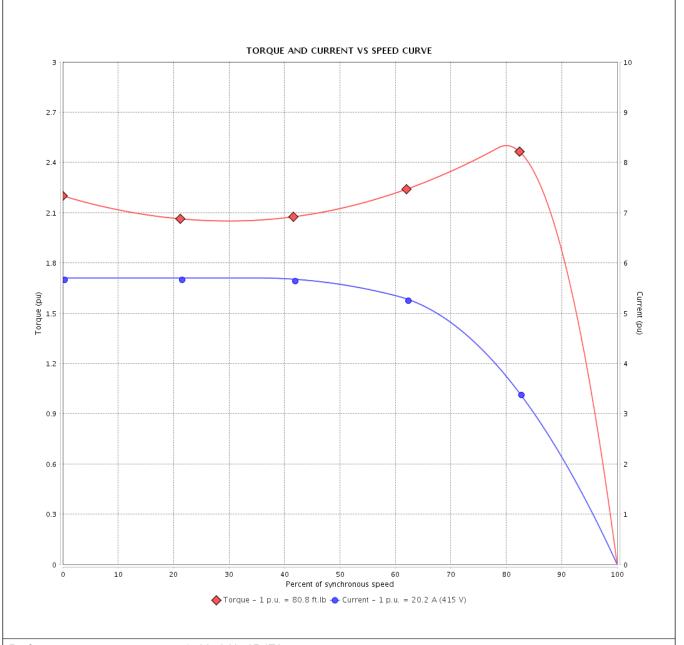
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12424292

Catalog #: 01512ST3QIE284T-W22



Performance : 415 V 50 Hz 6P IE2 Rated current : 20.2 A Moment of inertia (J) : 7.85 sq.ft.lb **LRC** : 5.7 Duty cycle : Cont.(S1) : 80.8 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K

Rated speed : 975 rpm Design : B

Locked rotor time : 27s (cold) 15s (hot)

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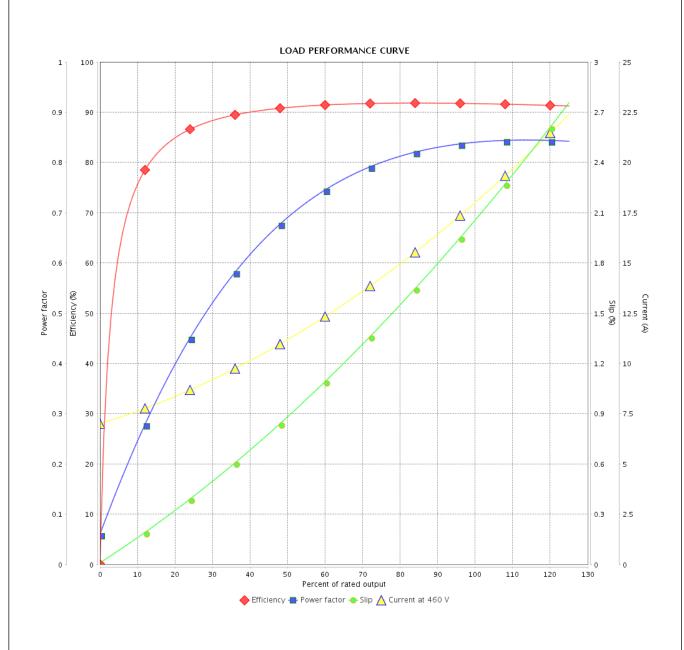
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Performance	: 460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 17.9 A : 6.4 : 67.0 ft.lb : 229 % : 260 % : 1175 rpm	Moment of Duty cycle Insulation Service fa Temperati Design	class ctor	: 7.85 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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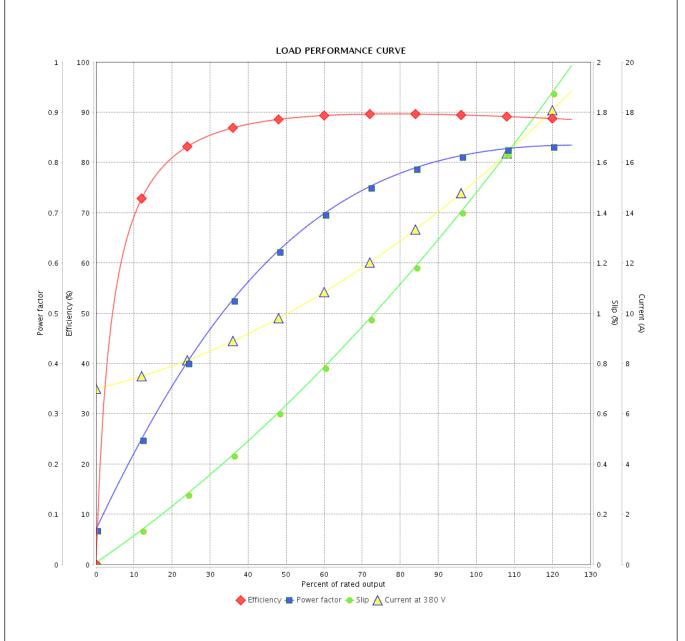
Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 12424292

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Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 7.85 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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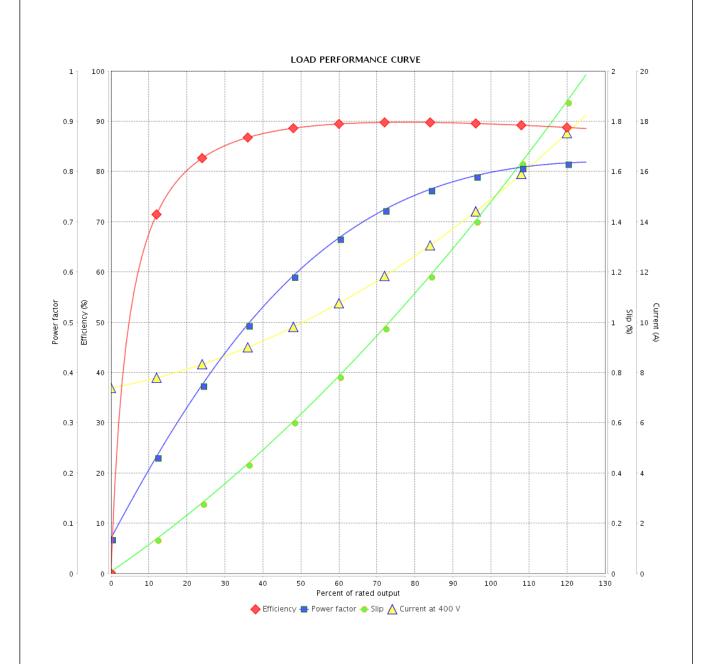
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Performance	: 400 V 50 Hz 6P IE3				
Rated current : 15.1 A LRC : 7.9 Rated torque : 53.3 ft.lb Locked rotor torque : 300 % Breakdown torque : 340 % Rated speed : 985 rpm		Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 7.85 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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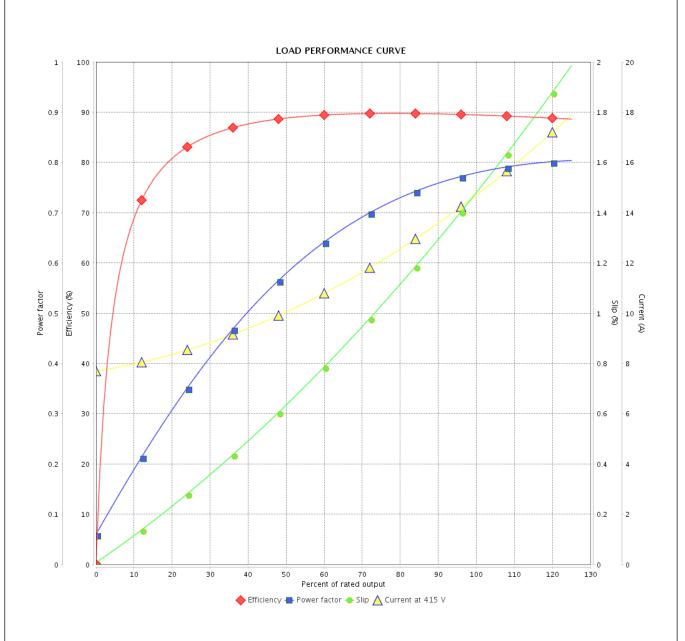
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Phase

Product code: 12424292

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Performance	: 415 V 50 Hz 6P IE3				
Rated current : 14.9 A		Moment of inertia (J)		: 7.85 sq.ft.lb	
LRC : 8.3 Duty cycle		9	: Cont.(S1)		
Rated torque	: 53.3 ft.lb	Insulation	class	: F	
Locked rotor torque	: 330 %	Service factor Temperature rise		: 1.25 : 80 K	
Breakdown torque	: 360 %				
Rated speed	: 985 rpm	Design		: B	
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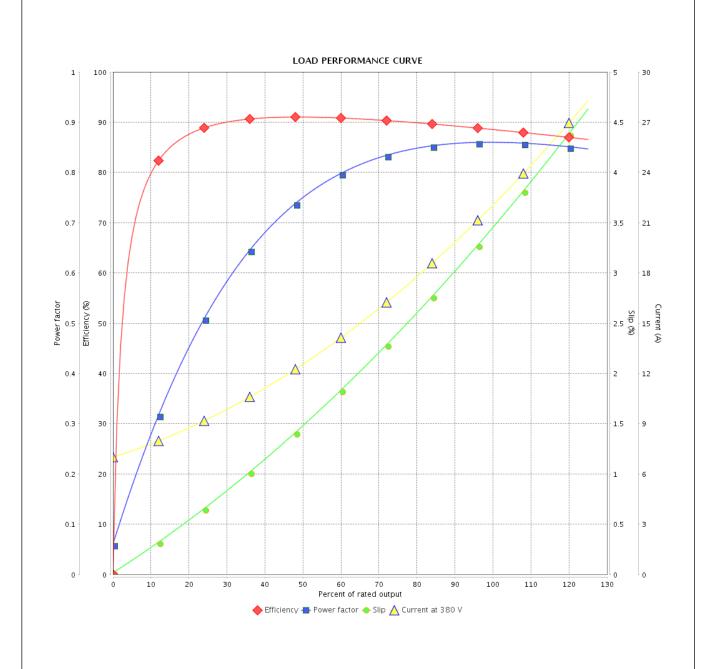
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Product line : NEMA Premium Efficiency Three-Product code: 12424292

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Performance	: 3	: 380 V 50 Hz 6P IE1				
Rated current	: 2	: 22.0 A Moment of		f inertia (J)	: 7.85 sq.ft.lb	
LRC	: 4	.7	Duty cycle)	: Cont.(S1)	
Rated torque	: 8	: 81.6 ft.lb Insulation class		class	: F	
Locked rotor torq	jue : 1	70 %	Service fa	ctor	: 1.00	
Breakdown torque		10 %	Temperature rise		: 80 K	
Rated speed	: 9	65 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



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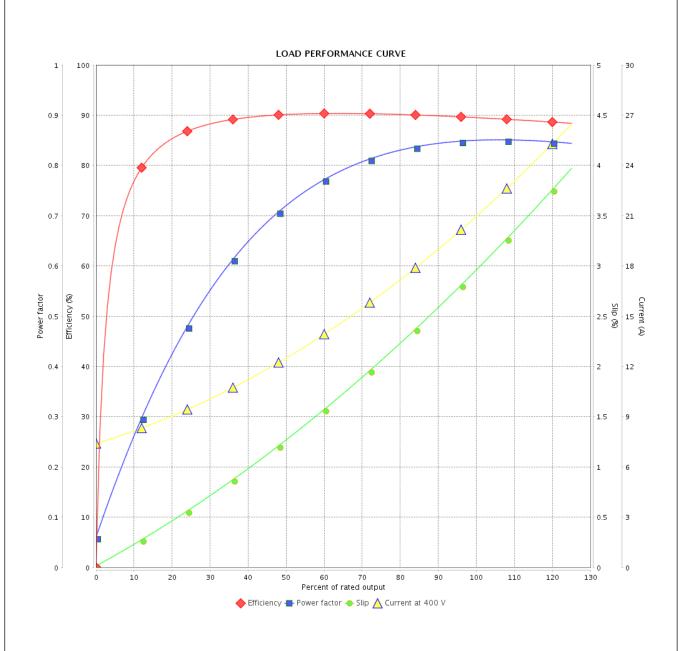
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12424292

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Performance	: 400 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 20.9 A : 5.3 : 81.2 ft.lb : 200 % : 229 % : 970 rpm	Moment of inertia (J) : 7.85 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.15 Temperature rise : 80 K Design : B			
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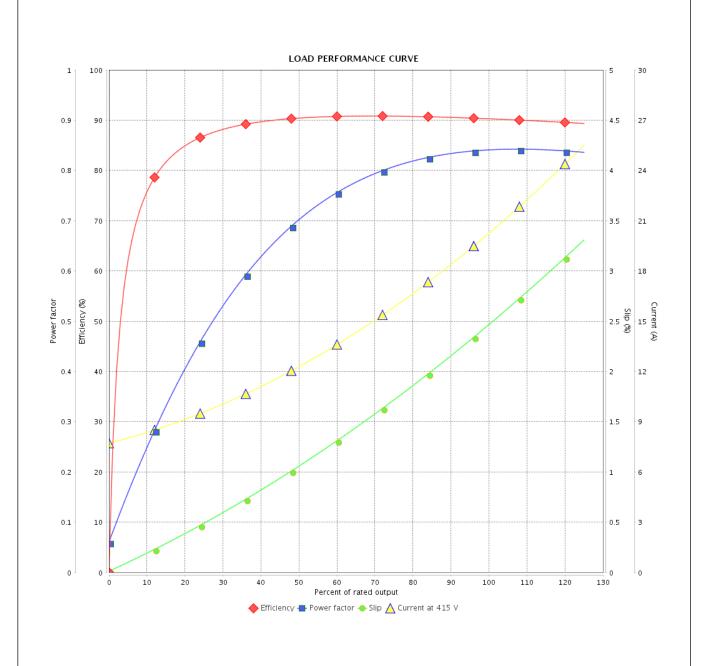
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12424292

Catalog #: 01512ST3QIE284T-W22



Performance	Performance : 415 V 50 Hz 6P IE2					
Rated current	: 2	20.2 A	Moment o	f inertia (J)	: 7.85 sq.ft.lb	
LRC	: 5	5.7	Duty cycle	;	: Cont.(S1)	
Rated torque : 8		30.8 ft.lb	Insulation	class	: F	
Locked rotor torque		220 %	Service fa	ctor	: 1.15	
Breakdown torque	: 2	250 %	Temperati	ıre rise	: 80 K	
Rated speed	: 9	975 rpm	Design		: B	
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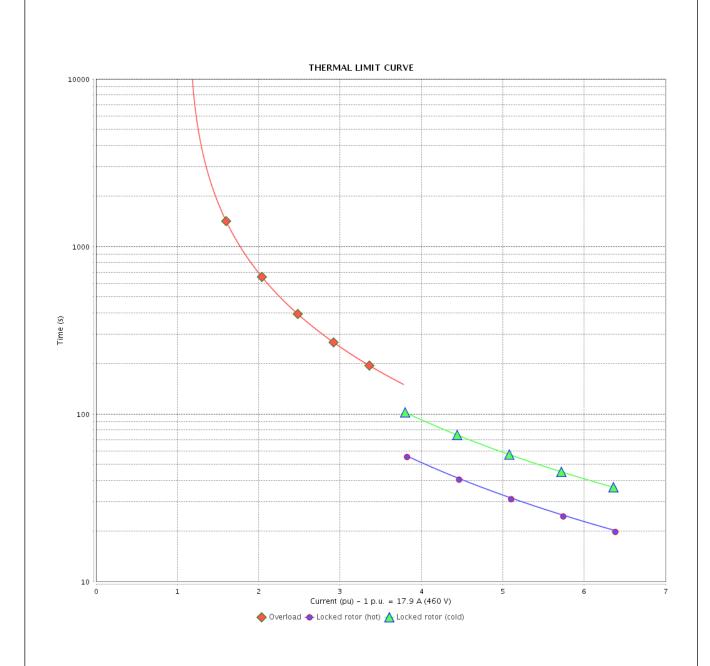


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Product line		NEMA Premium Efficiency hase		Product code :	12424292 01512ST3QIE	-284T-W/22
Dawfarmana	. 40	20 V 00 H= 0D				
Performance Rated current LRC Rated torque	: 17 : 6.	60 V 60 Hz 6P 7.9 A 4 7.0 ft.lb	Moment o Duty cycle	f inertia (J)	: 7.85 sq.ft.lb : Cont.(S1) : F	
Locked rotor torque Breakdown torque Rated speed	e : 22 : 26	29 % 60 % 175 rpm	Service fa Temperatu Design	ctor	: 1.25 : 80 K : B	
Heating constant						
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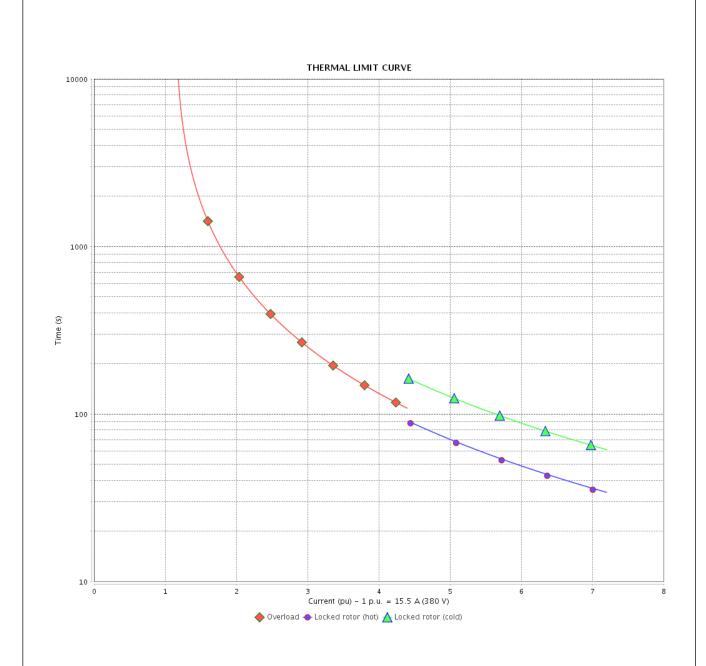


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Product line		: NEMA Premium Efficiency	Three-	Product code :	12424292	
i roddot iirio		Phase				
				Catalog # :	01512ST3QIE	:2841-W22
Performance		: 380 V 50 Hz 6P IE3				
Rated current		: 15.5 A	Moment of	of inertia (J)	: 7.85 sq.ft.lb	
LRC Rated torque		: 7.2 : 53.3 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que :	: 270 %	Service fa	actor	: 1.25	
Breakdown torqu Rated speed		: 300 % : 985 rpm	Temperat Design	ure rise	: 80 K : B	
		. σοστριτι	Design		. .	
Heating constant						
Cooling constant	l	Changes Summary		Performed	Checked	Date
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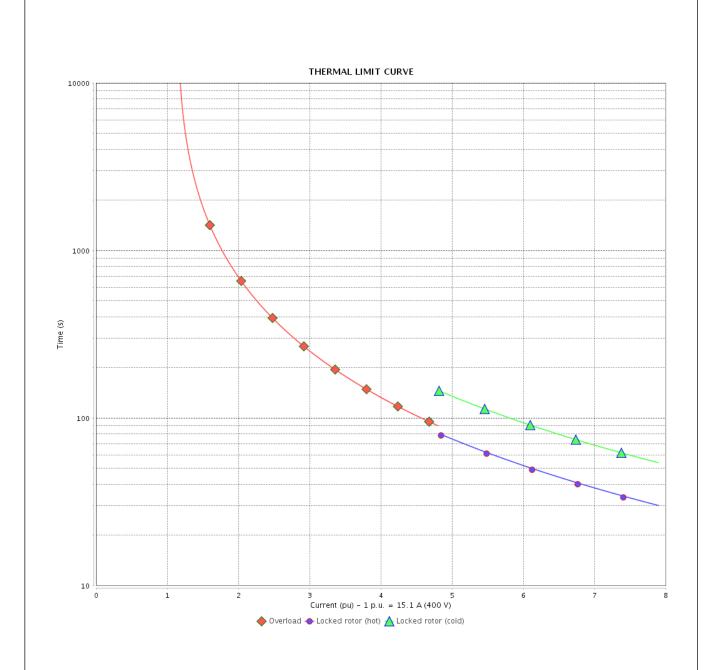


Customer	:					
Product line	: 1	NEMA Premium Efficiency	Three-	Product code :	12424292	
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				Catalog # :	01512ST3QIE	2841-VVZZ
Denfermen	. 40	20 // 50 / 1- 0D / 50				
Performance Rated current		00 V 50 Hz 6P IE3 5.1 A	Moment	f inortia (I)	· 7 95 00 ft lb	
LRC	: 18		Duty cycle	f inertia (J)	: 7.85 sq.ft.lb : Cont.(S1)	
Rated torque	: 53	3.3 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		00 % 40 %	Service fa Temperatu		: 1.25 : 80 K	
Rated speed		35 rpm	Design		: B	
Heating constant						
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



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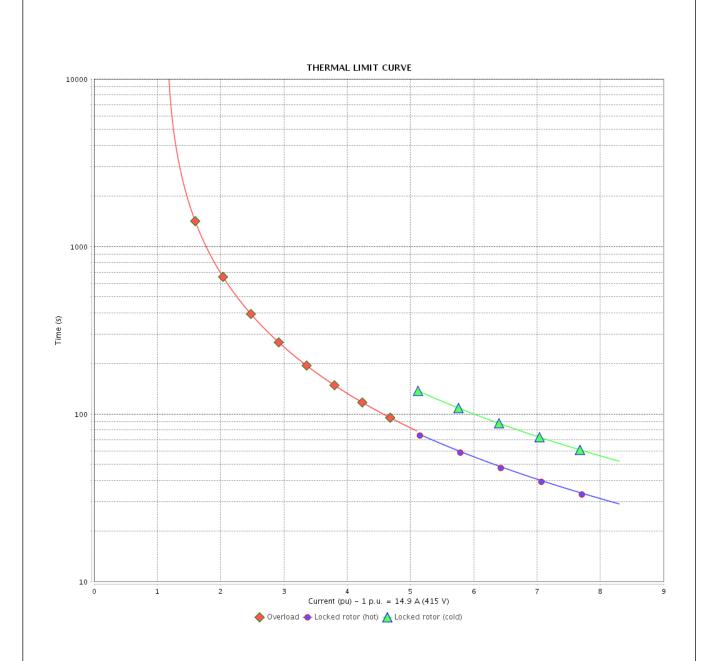


Customer		:				
Product line		: NEMA Premium Efficiency	Three-	Product code :	12424292	
		Phase		Catalog # :	01512ST3QIE	:284T_\N/22
Performance		: 415 V 50 Hz 6P IE3		· · · · · · · · · · · · · · · · · · ·	7.05 6.11	
Rated current LRC		: 14.9 A : 8.3	Moment o	of inertia (J) e	: 7.85 sq.ft.lb : Cont.(S1)	
Rated torque		: 53.3 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 330 % : 360 %	Service fa Temperat		: 1.25 : 80 K	
Rated speed		: 985 rpm	Design		: B	
Heating constan	t					
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Three Phase Induction Motor - Squirrel Cage



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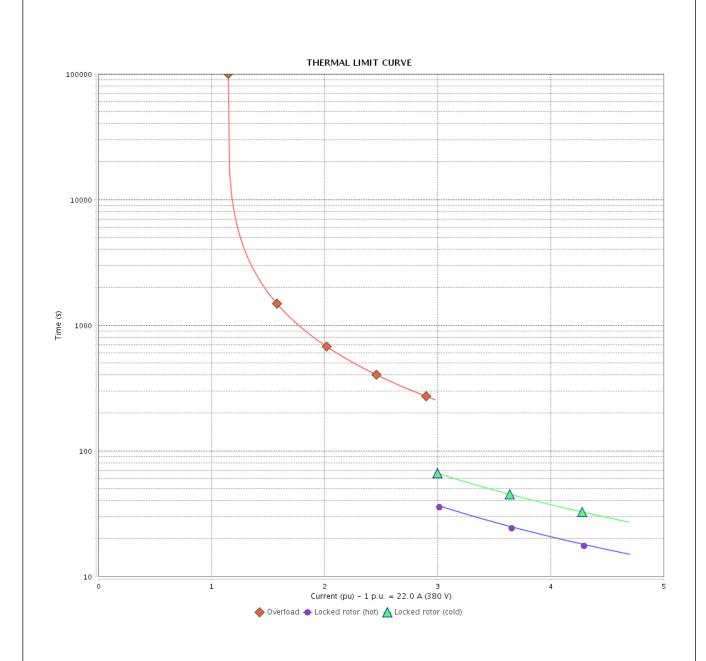


Customer		:				
Product line		: NEMA Premium Efficiency	Three	Product code :	12424292	
1 Toduct line		Phase				
				Catalog # :	01512ST3QIE	284T-W22
Performance		· 200 \/ 50 LI= CD IE4				
Rated current		: 380 V 50 Hz 6P IE1 : 22.0 A	Moment o	of inertia (J)	: 7.85 sq.ft.lb	
LRC		: 4.7	Duty cycle	е	: Cont.(S1)	
Rated torque		: 81.6 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 170 % : 210 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 965 rpm	Design		: B	
Heating constan	ıt					
Cooling constan						
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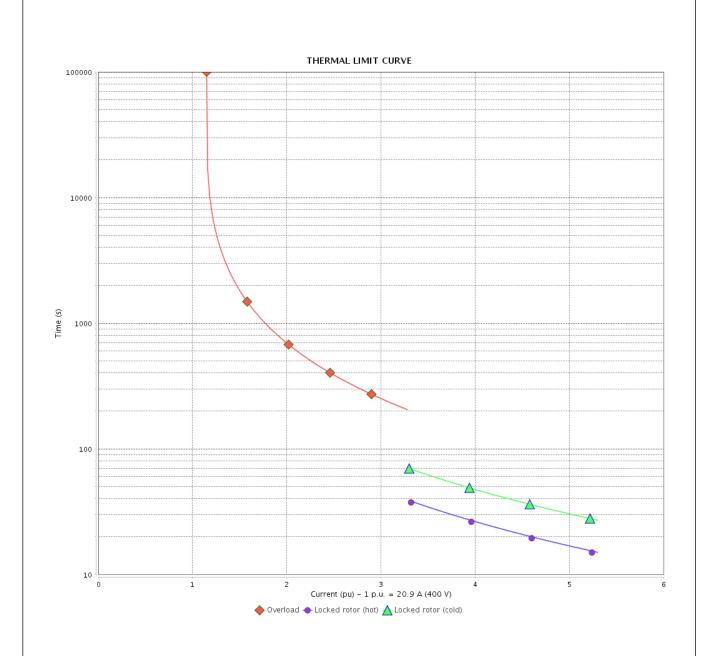


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Product line		: NEMA Premium Efficiency ⁻ Phase	Three-	Product code :	12424292	
		Hase	1	Catalog # :	01512ST3QIE	284T-W22
Performance	: 4	400 V 50 Hz 6P IE2				
Rated current		20.9 A		f inertia (J)	: 7.85 sq.ft.lb	
LRC Rated torque		5.3 81.2 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torq	ue : 2	200 %	Service fa	ctor	: 1.15	
Breakdown torque Rated speed		229 % 970 rpm	Temperatu Design	ure rise	: 80 K : B	
		· L · · ·				
Heating constant Cooling constant						
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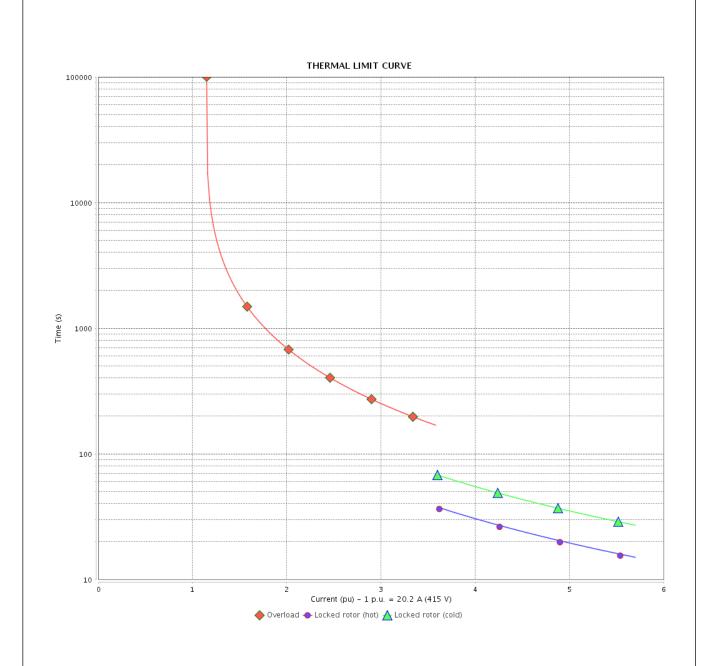


Customer		:				
Product line		: NEMA Premium Efficiency	Three-	Product code :	12424292	
		Phase		Catalog # :	01512ST3QIE	284T-W22
Performance		: 415 V 50 Hz 6P IE2				
Rated current		: 20.2 A	Moment of	of inertia (J)	: 7.85 sq.ft.lb	
LRC		: 5.7	Duty cycle	е	: Cont.(S1)	
Rated torque Locked rotor tord		: 80.8 ft.lb : 220 %	Insulation Service fa		: F : 1.15	
Breakdown torqu	ue :	: 250 %	Temperat		: 80 K	
Rated speed		: 975 rpm	Design		: B	
Heating constant						
Cooling constant	t	Changes Summany		Performed	Checked	Doto
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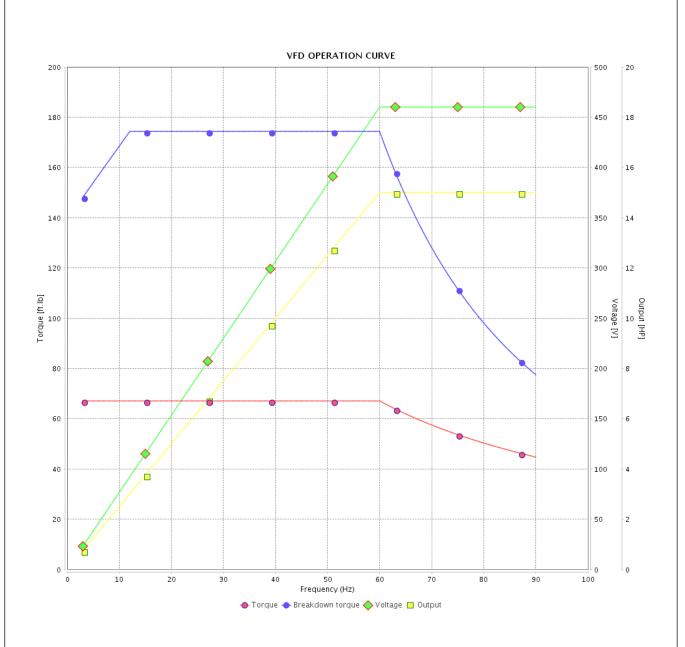
Product code: 12424292

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Performance	: 460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 17.9 A : 6.4 : 67.0 ft.lb : 229 % : 260 % : 1175 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 7.85 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



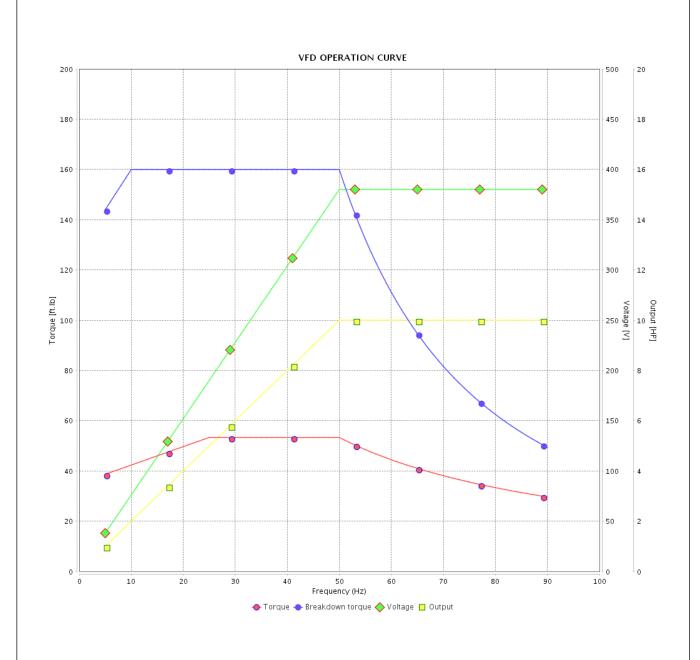
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12424292

Phase

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Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 15.5 A : 7.2 : 53.3 ft.lb : 270 % : 300 % : 985 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 7.85 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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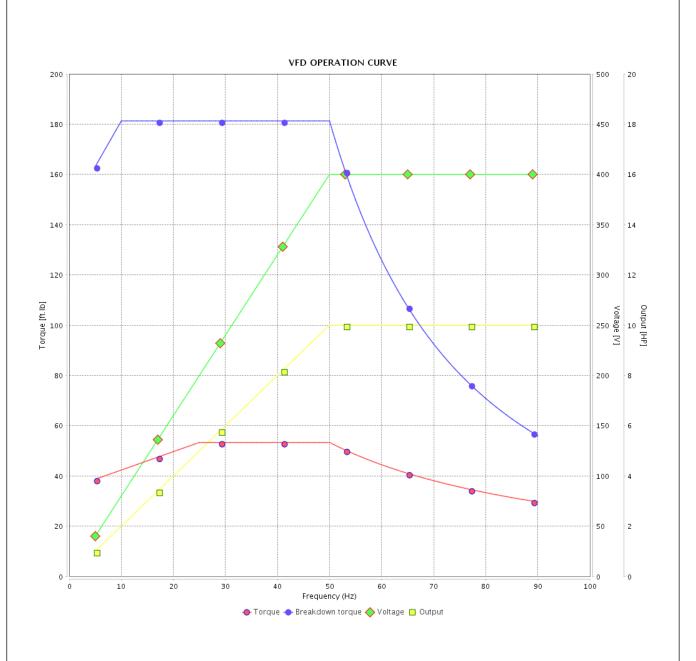
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

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12424292



Performance	: 4	: 400 V 50 Hz 6P IE3							
Rated current		15.1 A Moment of ine		of inertia (J)	: 7.85 sq.ft.lb				
LRC :		'.9	Duty cycle		: Cont.(S1)				
Rated torque		3.3 ft.lb	Insulation class		: F				
Locked rotor torque		800 %	Service factor		: 1.25				
Breakdown torqu	ie : 3	: 340 % : 985 rpm		Temperature rise Design					
Rated speed	: 9								
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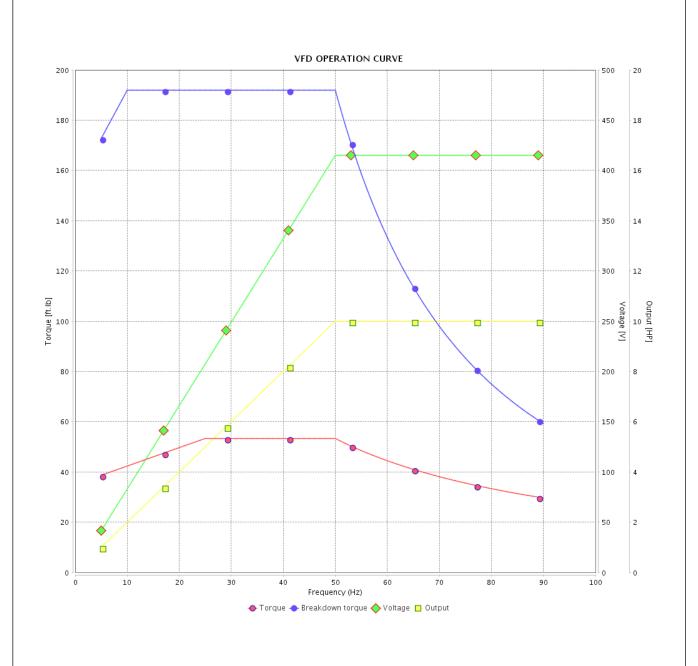


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12424292

Phase

Catalog #: 01512ST3QIE284T-W22



Performance :		: 415 V 50 Hz 6P IE3						
Rated current		.9 A Moment of inertia (J)		: 7.85 sq.ft.lb				
_		8.3 Duty cyc 53.3 ft.lb Insulation)	: Cont.(S1)			
				class	: F			
Locked rotor torque		30 %	Service factor		: 1.25			
Breakdown torque	: 3	: 360 % : 985 rpm		Temperature rise Design				
Rated speed	: 9							
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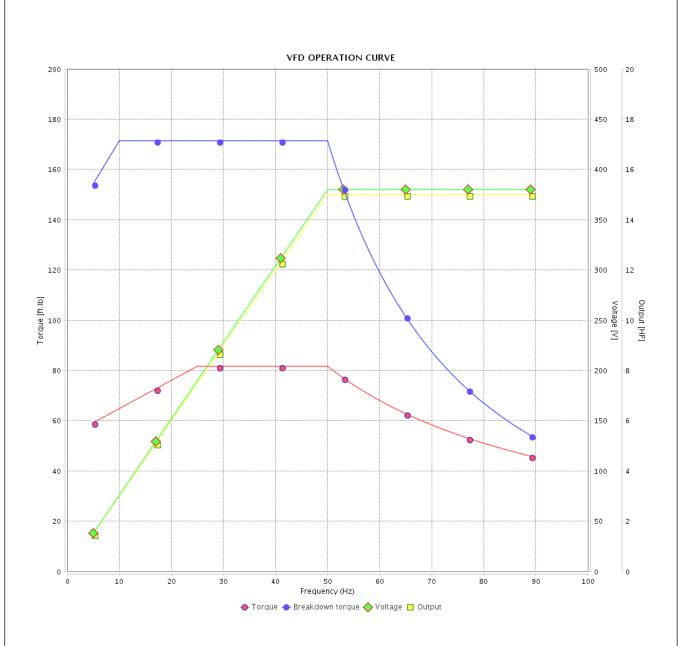
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Performance	: 3	880 V 50 Hz 6P IE1				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 4 : 8 jue : 1	22.0 A I.7 B1.6 ft.lb I70 % 210 % 065 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 7.85 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



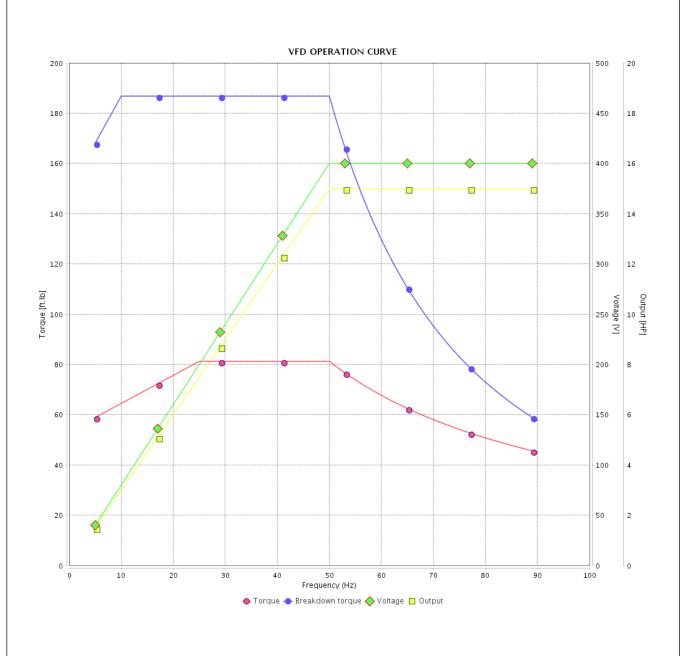
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance	: 4	: 400 V 50 Hz 6P IE2						
Rated current		20.9 A Moment of inertia (J)		: 7.85 sq.ft.lb				
LRC		5.3	3 Duty cycle		: Cont.(S1)			
Rated torque		31.2 ft.lb	Insulation class		:F			
Locked rotor torque		200 %	Service factor		: 1.15			
Breakdown torque	: :	: 229 % : 970 rpm		ıre rise	: 80 K			
Rated speed	: 9			Design				
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Phase

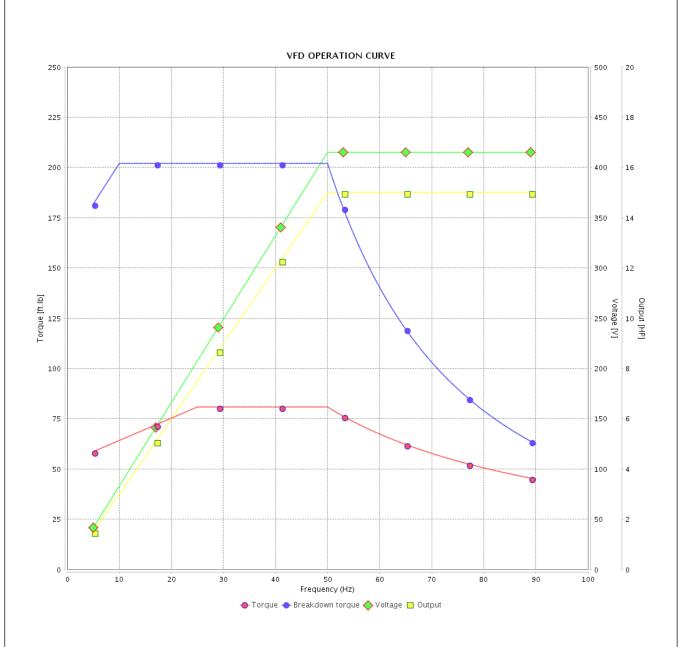
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Performance		: 415 V 50 Hz 6P	IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 20.2 A : 5.7 : 80.8 ft.lb : 220 % : 250 % : 975 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 7.85 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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