DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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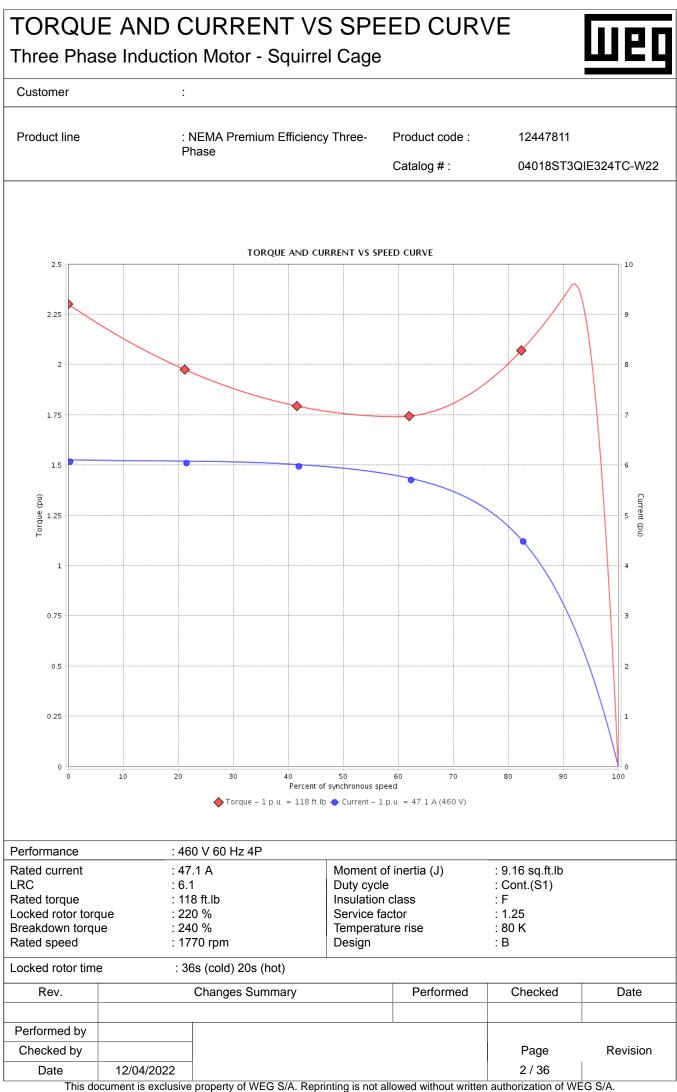
Customer

Frame Insulation class Duty cycle Ambient tempera Altitude Protection degre Design Output [HP]		Phase : 324/6TC			Catalog # :	04	018ST3QIE3	
Insulation class Duty cycle Ambient tempera Altitude Protection degre Design	4					04		2410-1122
Output [HP]		: F : Cont.(S1) : -20°C to + : 1000 m.a.s : IP55 : B		Mounti Rotatio Startin Approx		: F : E : C : 5	C411 - TEFC -1 Both (CW and Direct On Line 94 lb 0.16 sq.ft.lb	CCW)
•		40	30	30	30	40	40	40
Poles		4	4	4	4	4	4	4
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		460	380	400	415	380	400	415
Rated current [A]		47.1	42.8	41.6	41.1	56.7	54.1	52.8
R. Amperes [A]		287	218	241	255	221	243	259
_RC [A]		6.1x(Code G)	5.1x(Code H)	5.8x(Code J)	6.2x(Code J)	3.9x(Code E)	4.5x(Code F)	4.9x(Code G)
No load current [A	1	16.0	15.7	17.3	18.6	15.7	17.3	18.6
Rated speed [RPN		1770	1470	1470	1470	1460	1465	1465
Slip [%]	ניי	1.67	2.00	2.00	2.00	2.67	2.33	2.33
Rated torque [ft.lb]	1	118	107	106	106	144	143	143
Locked rotor torqu		220	229	250	280	170	190	210
Breakdown torque		240	250	290	310	180	210	229
Service factor	L'-1	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	80 K
ocked rotor time		36s (cold) 20s (hot)	25s (cold) 14s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	25s (cold) 14s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)
Noise level ²		66.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A
	25%	93.4	92.8	92.0	91.0	94.0	93.5	92.8
Efficiency (%)	50%	93.6	92.9	92.4	91.7	93.6	93.6	93.0
	75%	94.1	93.1	93.0	92.6	93.0	93.0	93.0
	100%	94.1	93.0	93.2	93.1	92.4	93.0	93.0
	25%	0.47	0.44	0.40	0.38	0.54	0.49	0.47
Power Factor	50%	0.72	0.68	0.64	0.62	0.78	0.74	0.72
	75% 100%	0.80 0.85	0.78	0.75 0.82	0.73	0.84	0.82	0.80 0.85
Bearing type Sealing Lubrication interv Lubricant amoun Lubricant type	/al	Drive end 6312 C3 Inpro/Sea 20000 h 21 g	<u>Non drive</u> 6212 (al Inpro/S	end Founda C3 Max. tra eal Max. co	tion loads	: 96	69 lb 562 lb	
Notes								
This revision replaying the eliminate (1) Looking the m (2) Measured at 1 (3) Approximate w manufacturing pro (4) At 100% of full	ed. otor from the m and with to veight subjectocess.	shaft end. olerance of +3	8dB(A).		are average va supply, subject			
Rev.		Changes	Summary		Performe	ed Che	ecked	Date
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 12/04/2022
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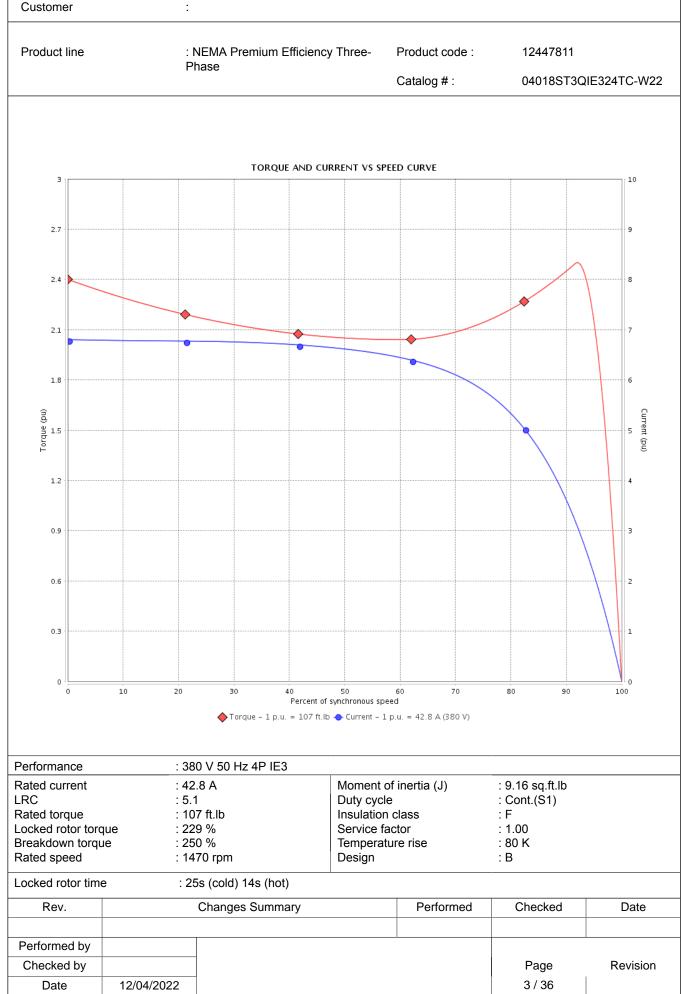


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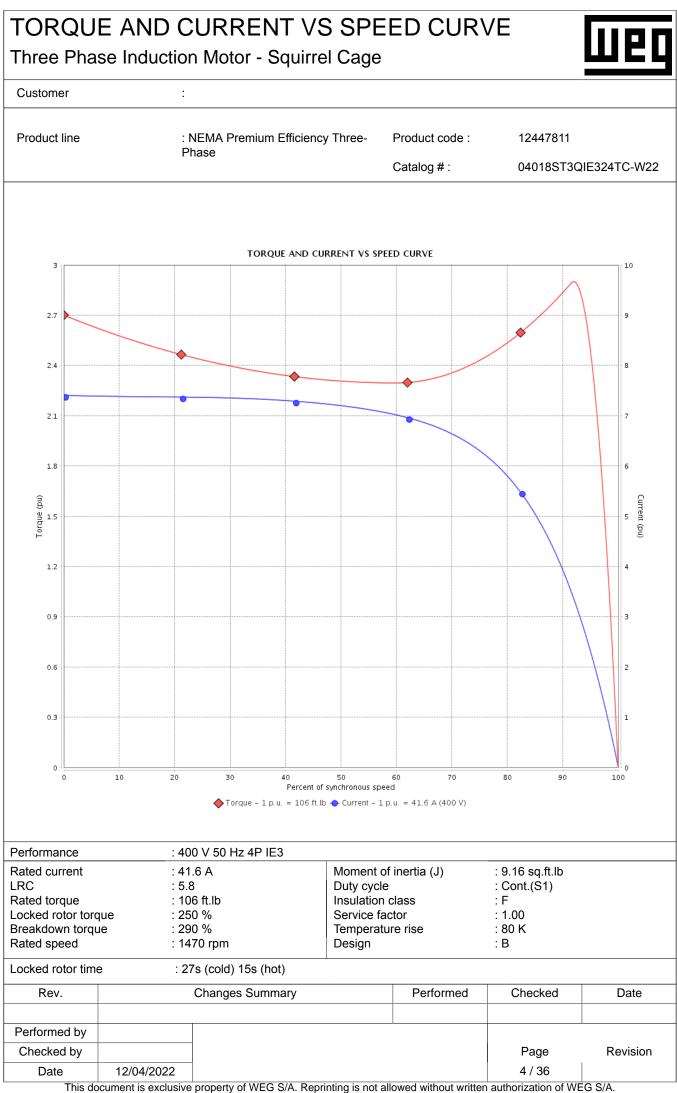
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



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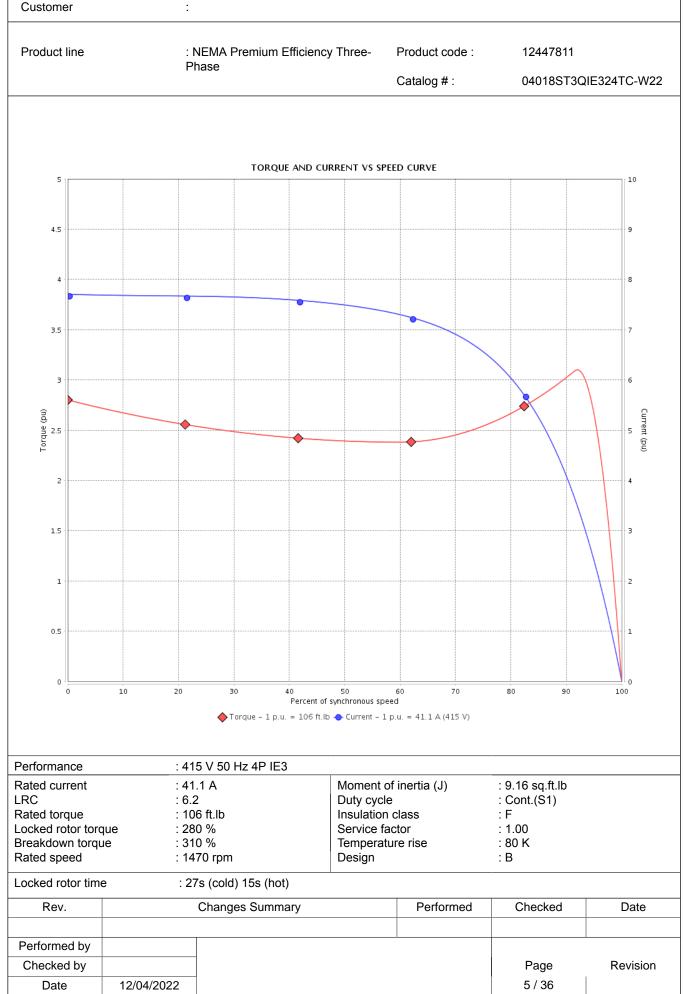


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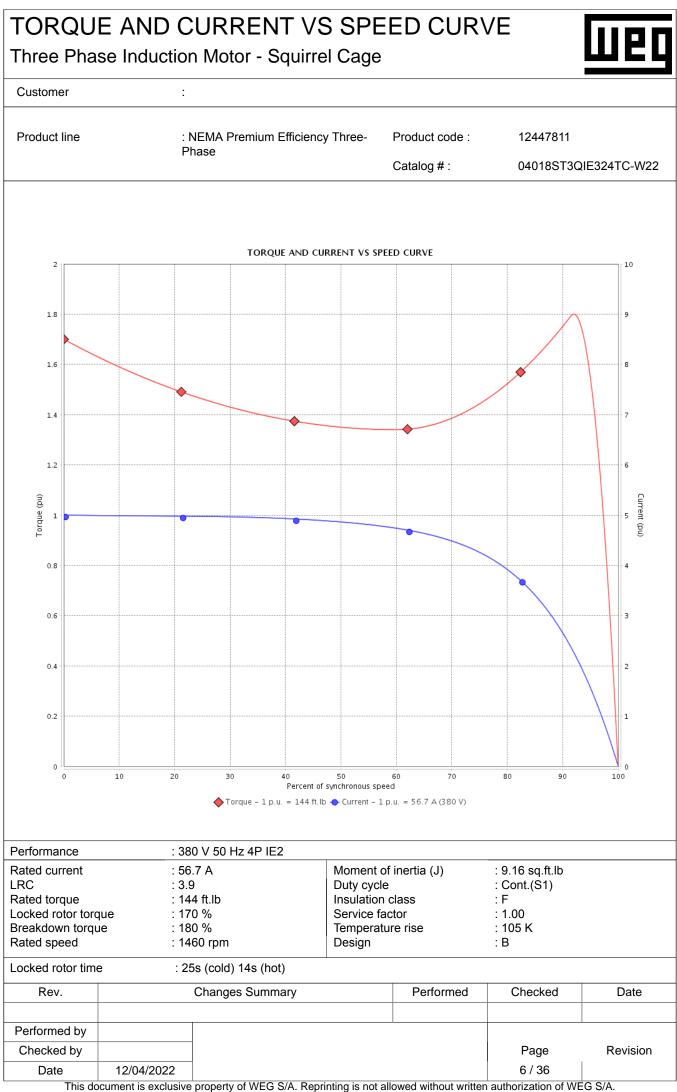
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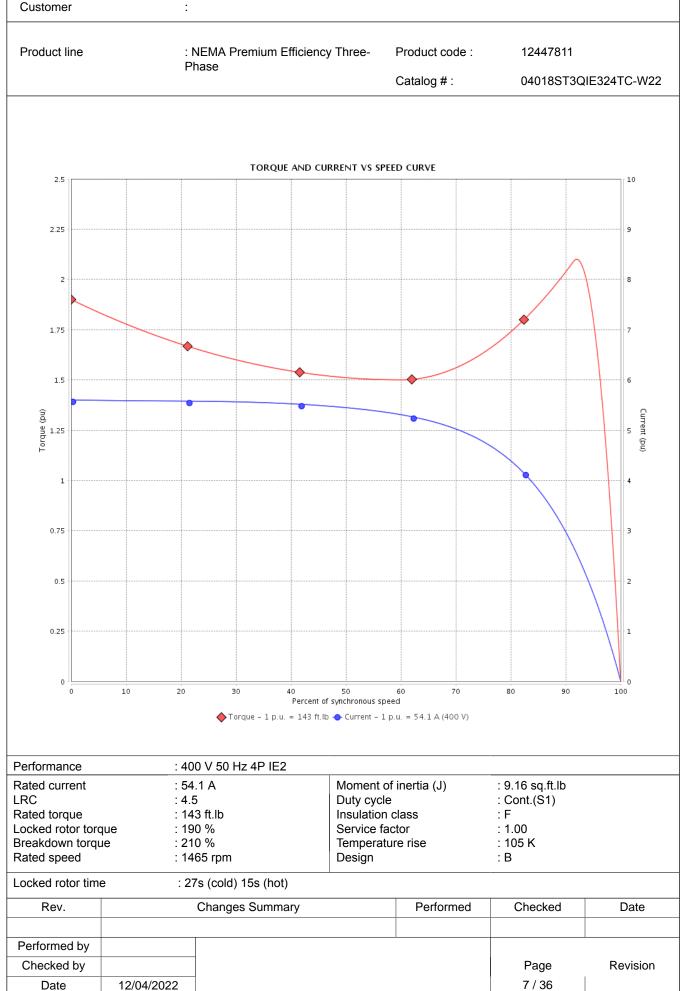


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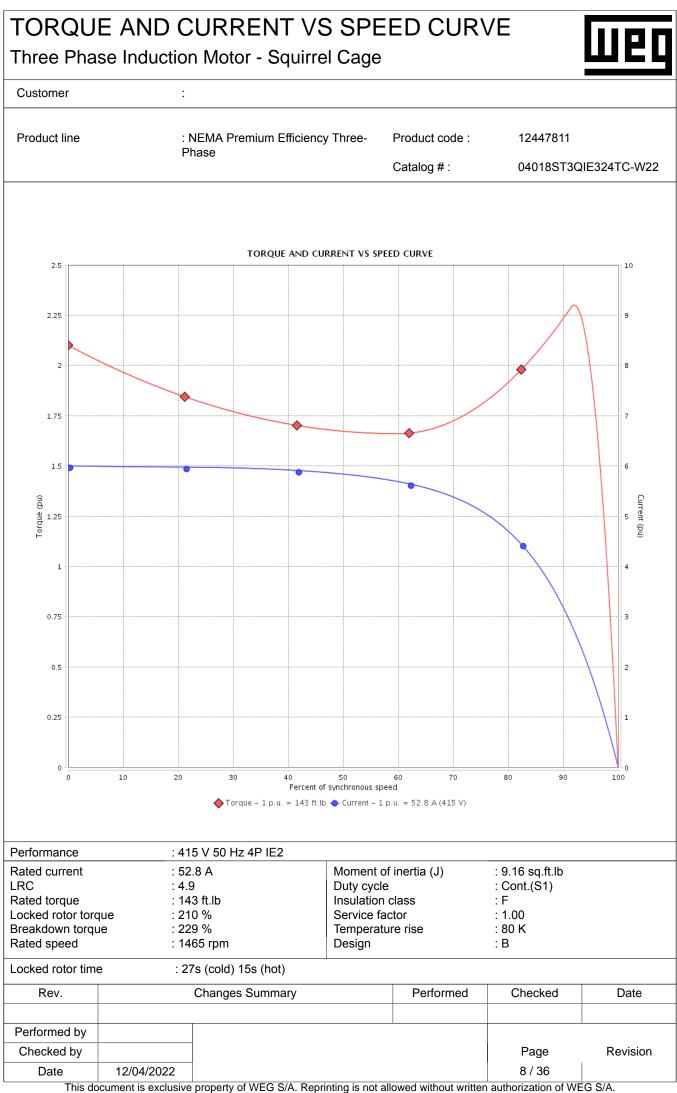
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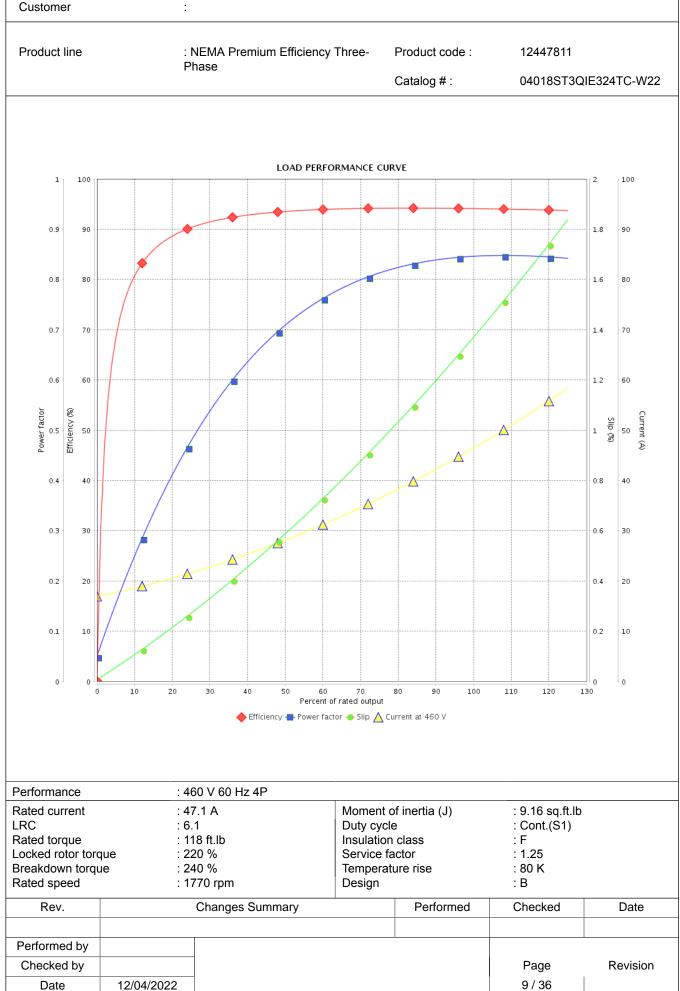
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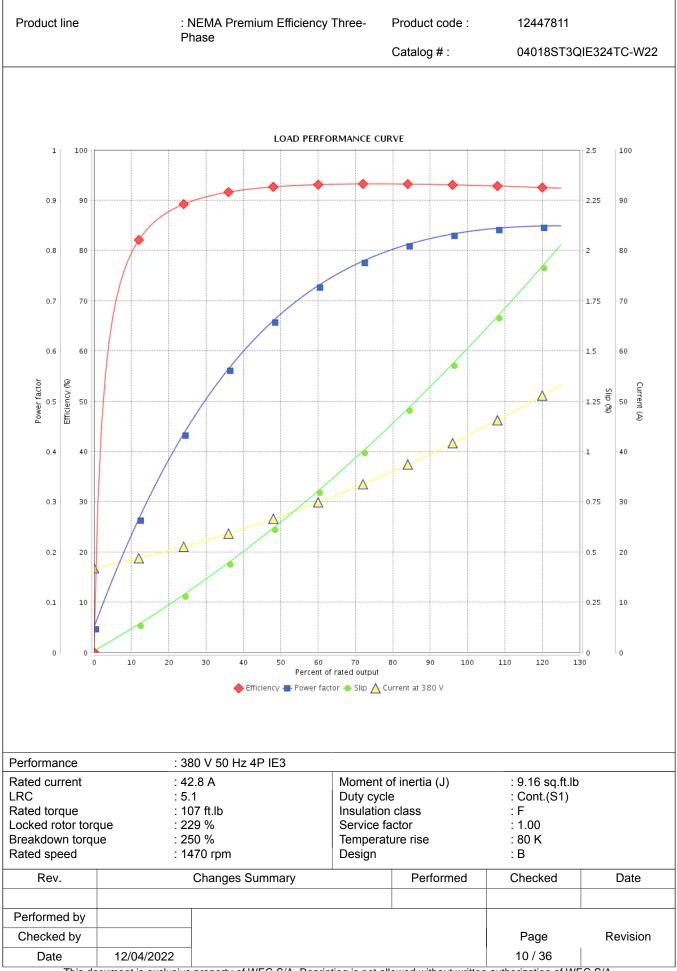
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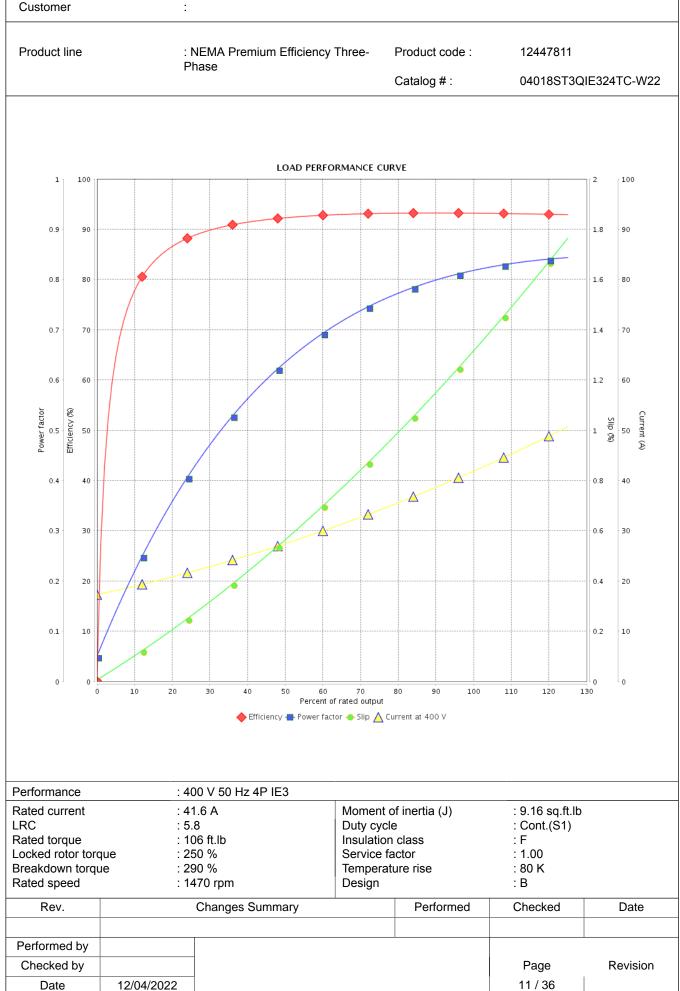


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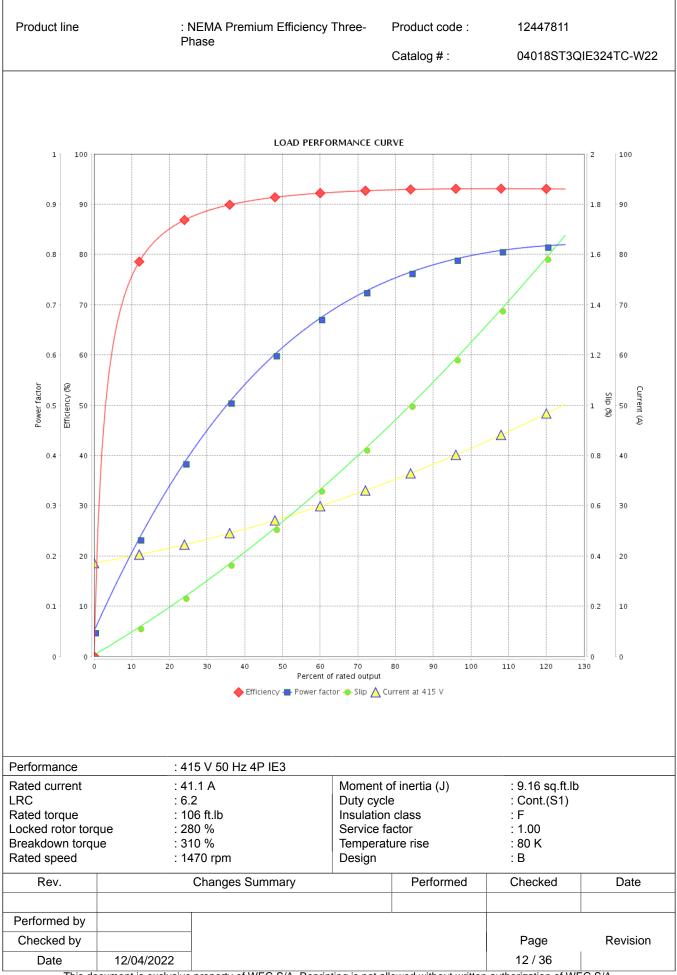
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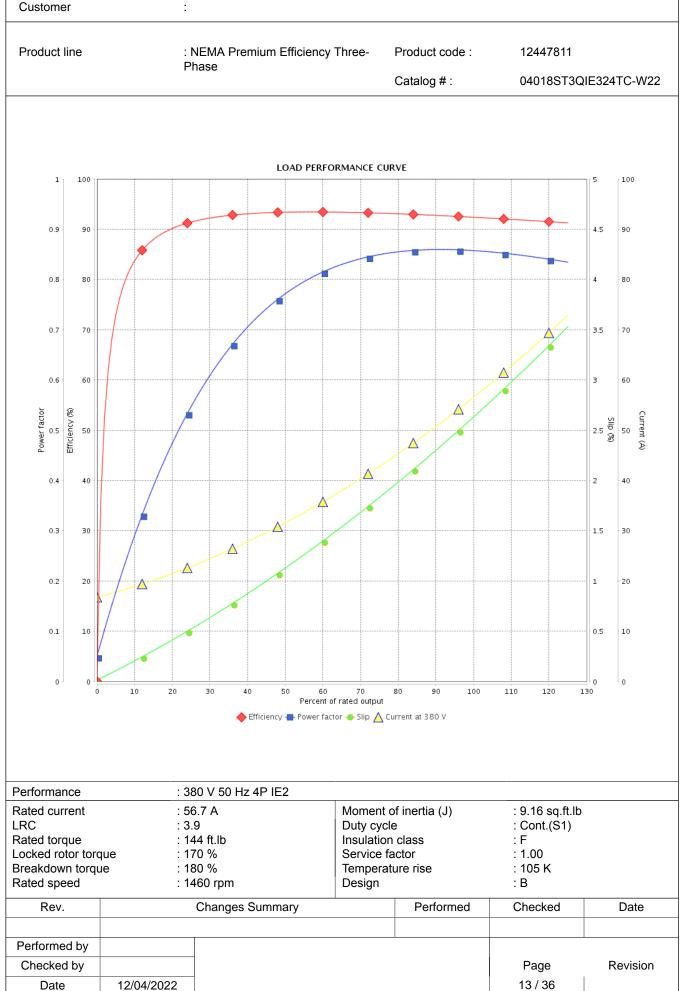


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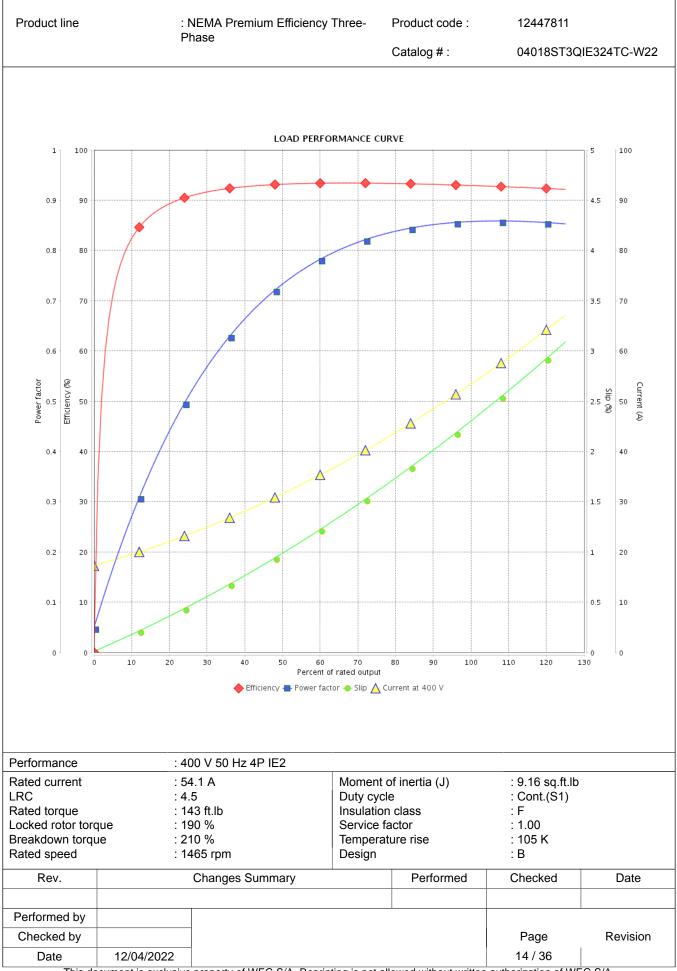
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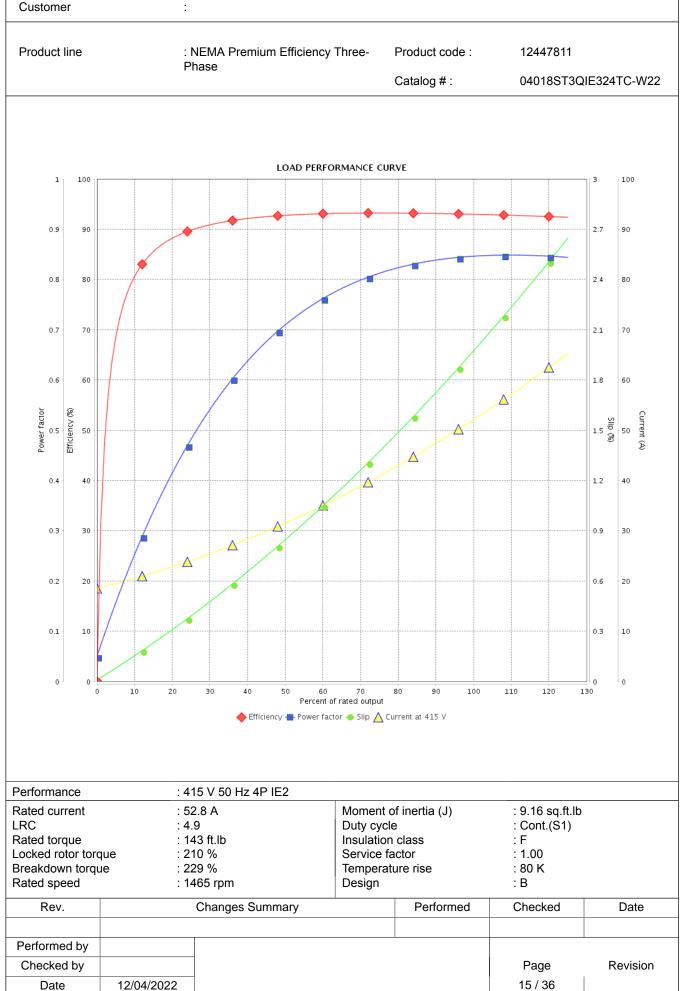


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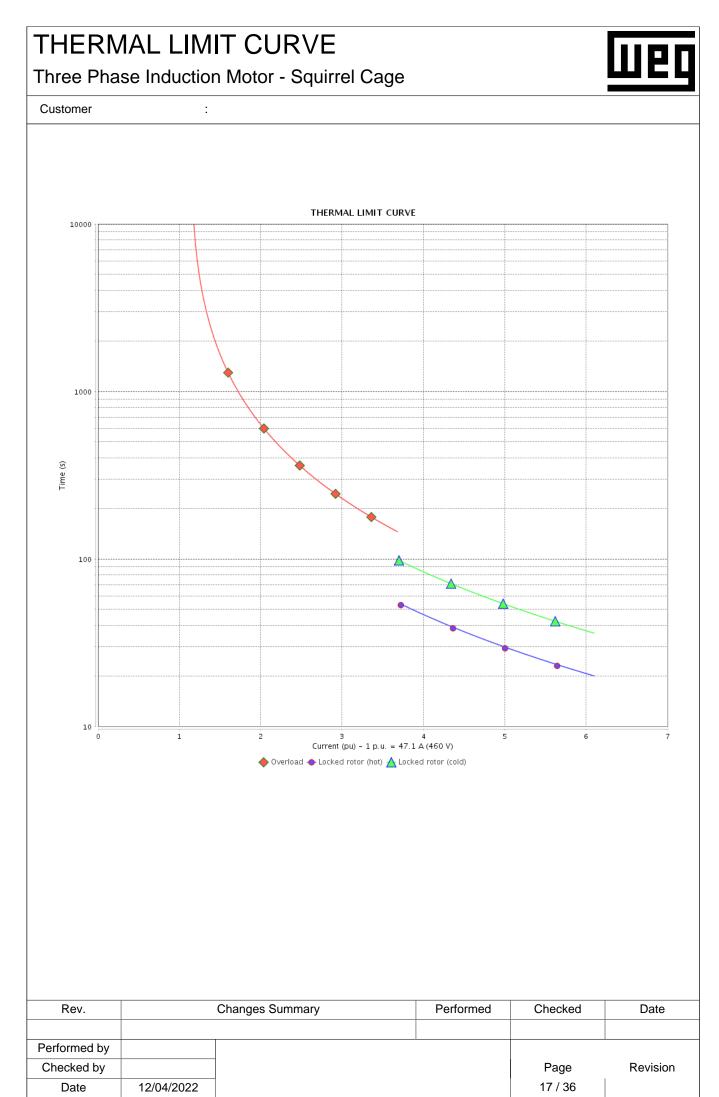
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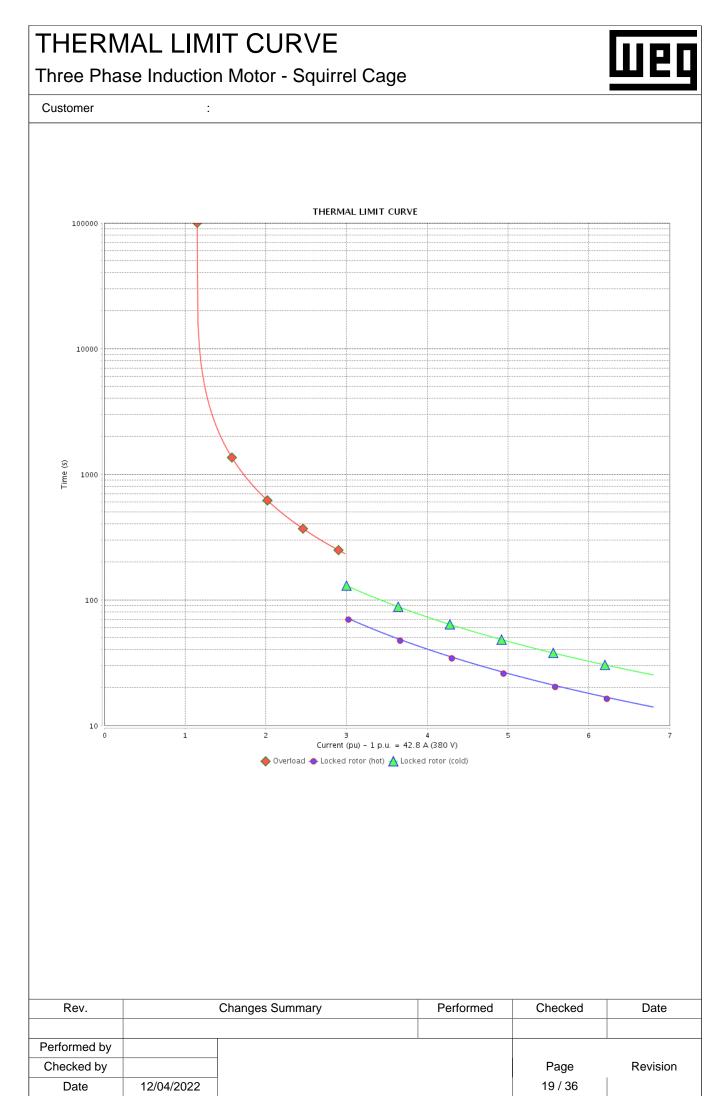
THERMAL	THERMAL LIMIT CURVE						
Three Phase Inc	duction Motor - Squirrel Cage)	шсц				
Customer	:						
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12447811				
	Fliase	Catalog # :	04018ST3QIE324TC-W22				

Performance	: 40	60 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 6 : 1 que : 2 ue : 2 : 1	7.1 A 1 18 ft.lb 20 % 40 % 770 rpm	Duty cycle .lb Insulation class Service factor Temperature rise		: 9.16 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant Cooling constant						
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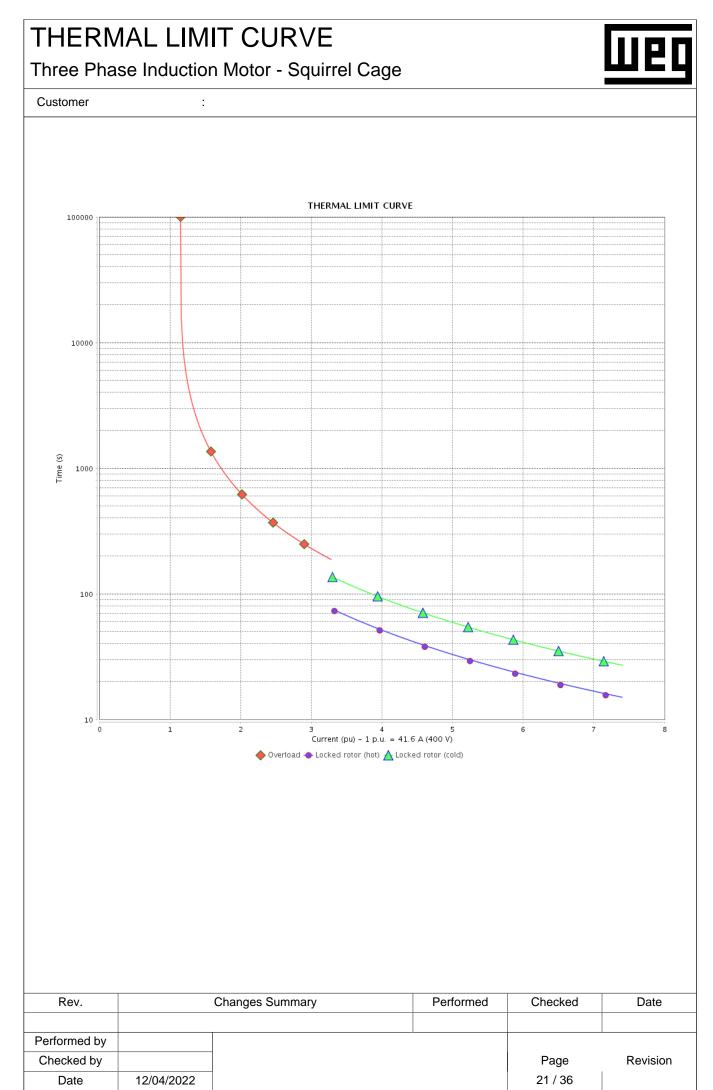
THERMAL LIMIT CURVE						
tion Motor - Squirrel Cage	;	шец				
:						
: NEMA Premium Efficiency Three-	Product code :	12447811				
Phase	Catalog # :	04018ST3QIE324TC-W22				
	tion Motor - Squirrel Cage	tion Motor - Squirrel Cage : : NEMA Premium Efficiency Three- Product code : Phase				

Performance	: 3	80 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 5 : 1 que : 2 Je : 2	2.8 A 5.1 07 ft.lb 229 % 250 % 470 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constan	t				·	
Cooling constant	t					
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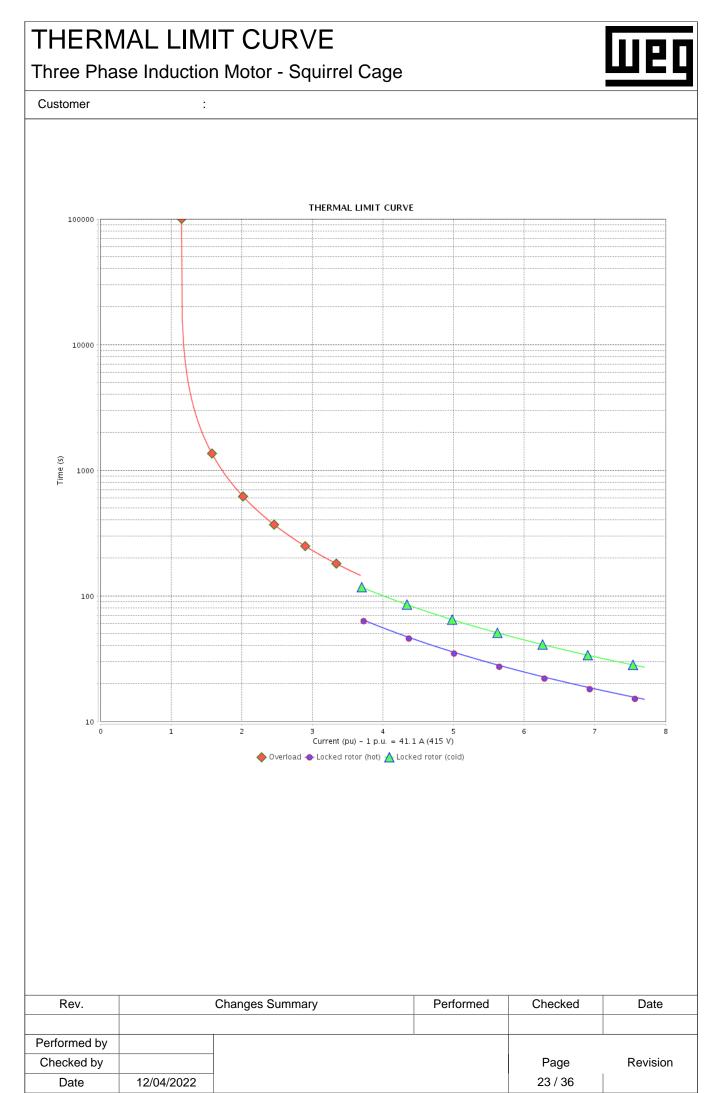
THERMAL LIMIT CURVE						
Three Phase Indu	ction Motor - Squirrel Cage)	шсч			
Customer	:					
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12447811			
	Phase	Catalog # :	04018ST3QIE324TC-W22			

Performance	: 40	00 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 5. : 10 que : 29 ue : 29	1.6 A 8 06 ft.lb 50 % 90 % 470 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant						
Rev. Changes Summary		Changes Summary		Performed	Checked	Date
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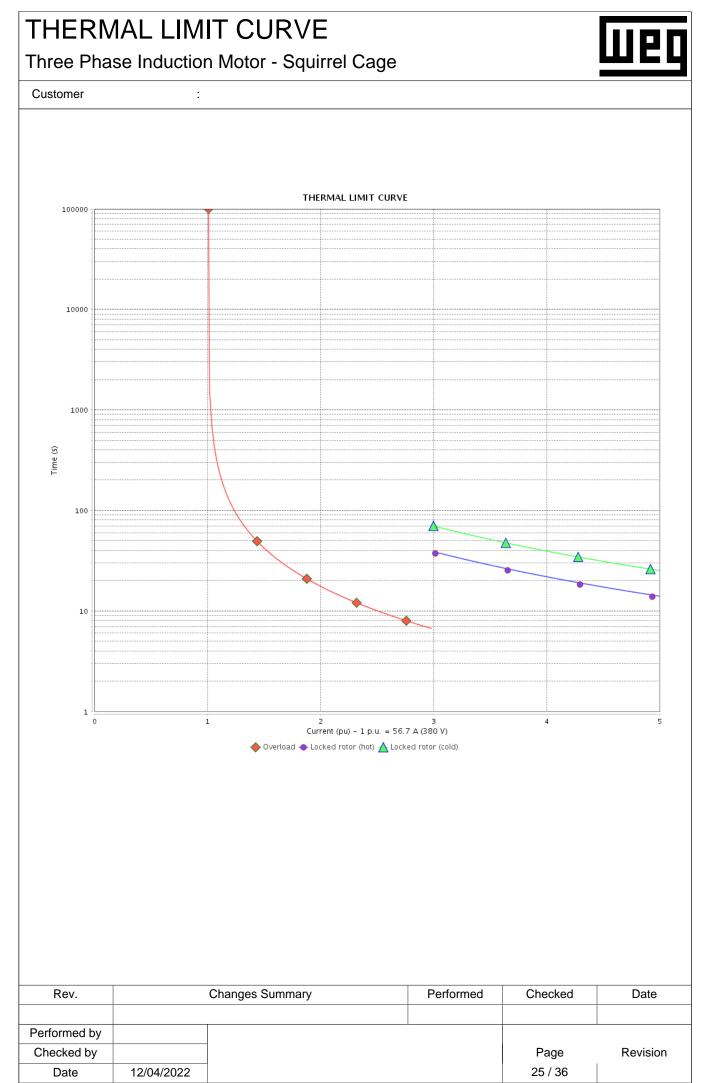
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Three Phase Indu	uction Motor - Squirrel Cage)	шеч
Customer	:		·
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12447811
		Catalog # :	04018ST3QIE324TC-W22

Performance	: 41	15 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 6. : 10 que : 28 Je : 3	1.1 A 2 D6 ft.lb 30 % 10 % 470 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant						
Cooling constant	t					
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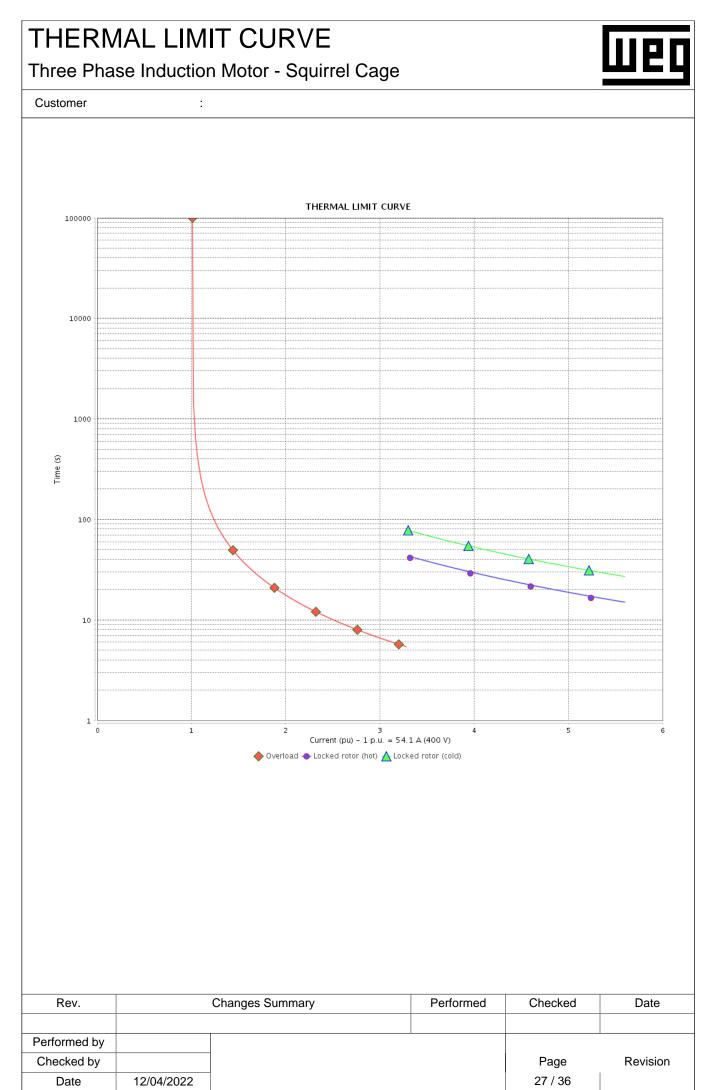
THERMAL	THERMAL LIMIT CURVE						
Three Phase Inc	luction Motor - Squirrel Cage	;	шсц				
Customer	:						
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12447811				
	i naoc	Catalog # :	04018ST3QIE324TC-W22				

Performance	: 3	880 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 3 : 1 gue : 1 je : 1 : 1	6.7 AMoment of inertia (J8.9Duty cycle44 ft.lbInsulation class70 %Service factor80 %Temperature rise460 rpmDesign		class ctor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant						
Cooling constant	t					
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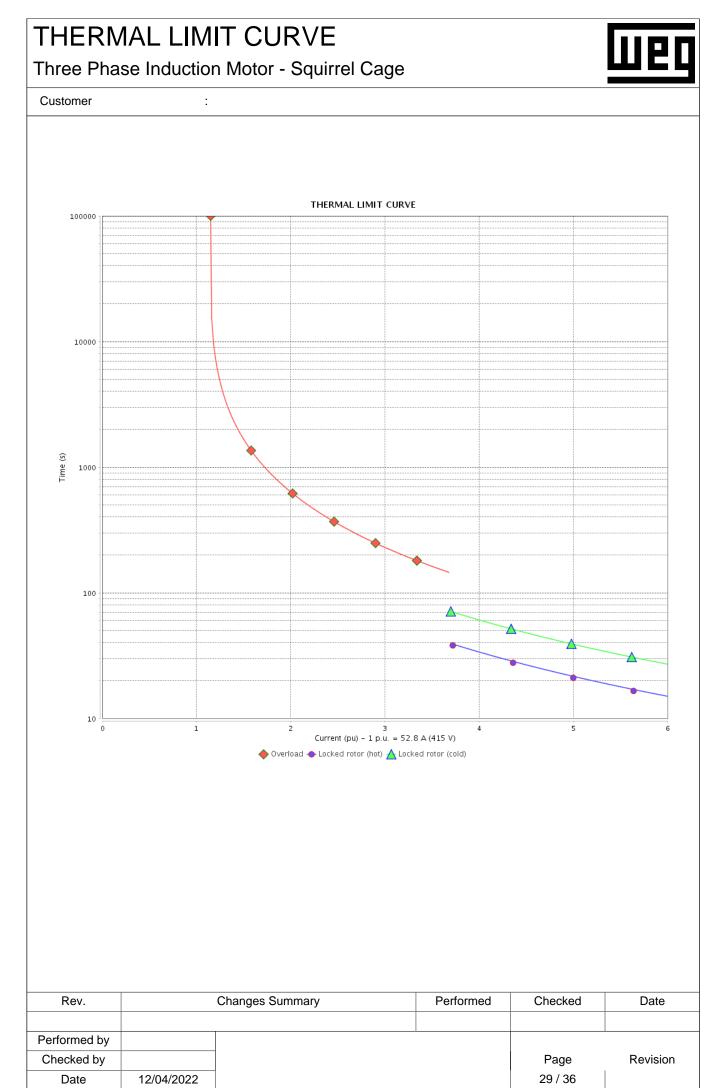
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Three Phase In	duction Motor - Squirrel Cage	;	шсч
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12447811
		Catalog # :	04018ST3QIE324TC-W22

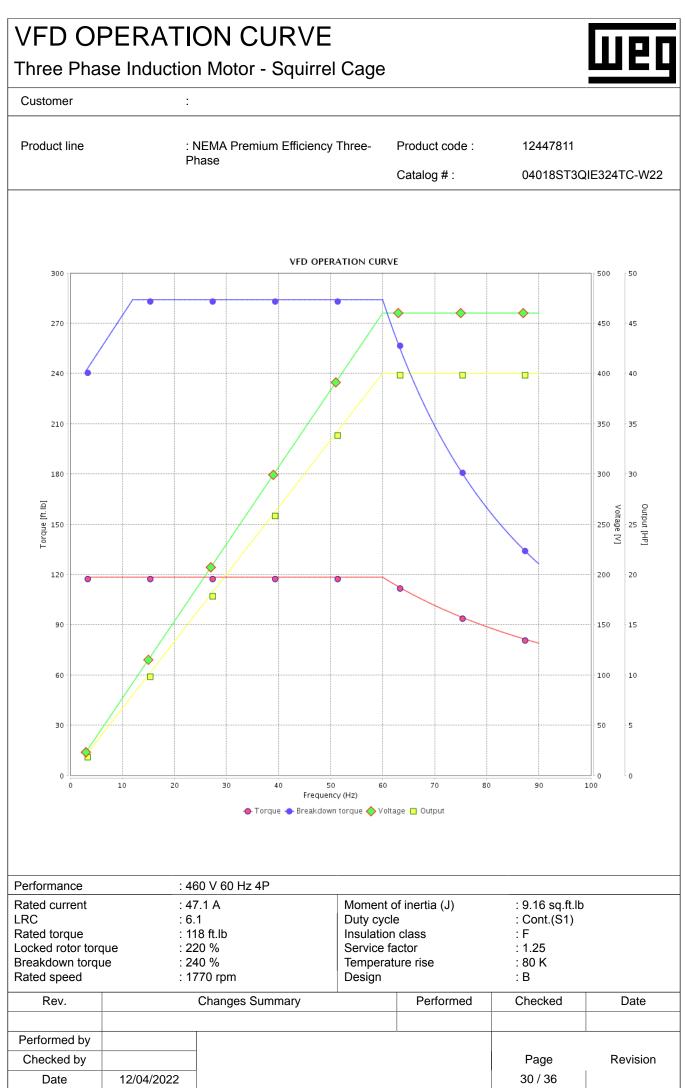
Performance	: •	400 V 50 Hz 4P IE2				
LRC: 4Rated torque: 5Locked rotor torque: 5Breakdown torque: 5		54.1 A 4.5 143 ft.lb 190 % 210 % 1465 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant	t					
Cooling constant	t					
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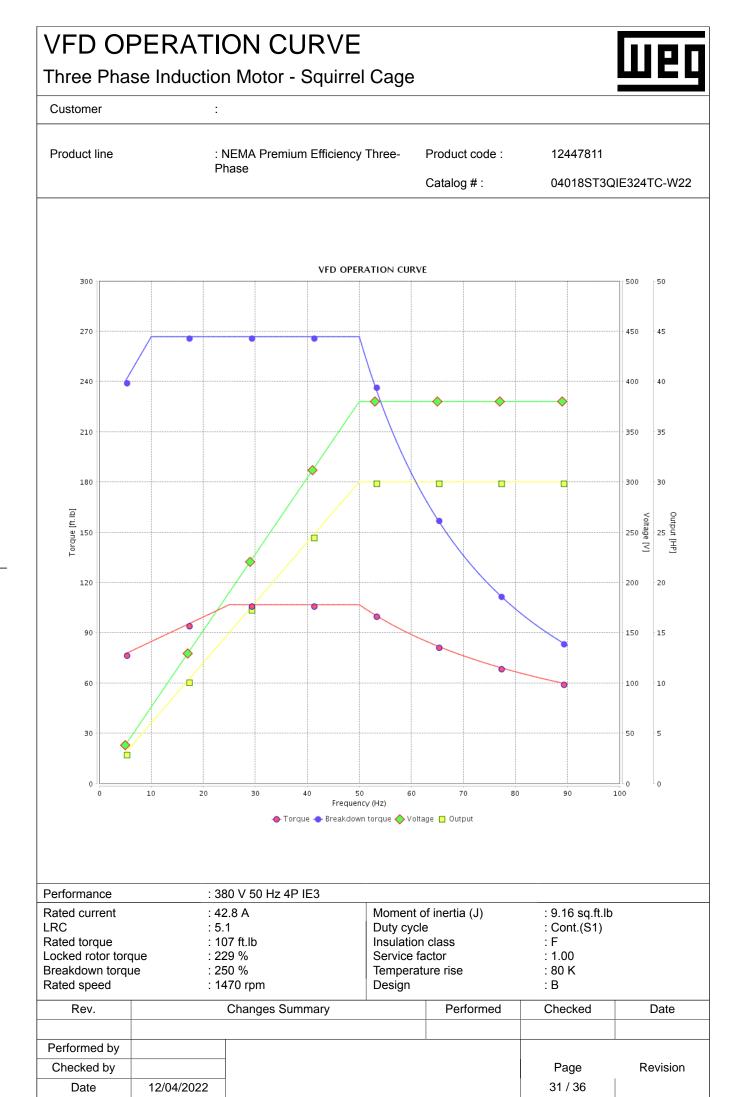


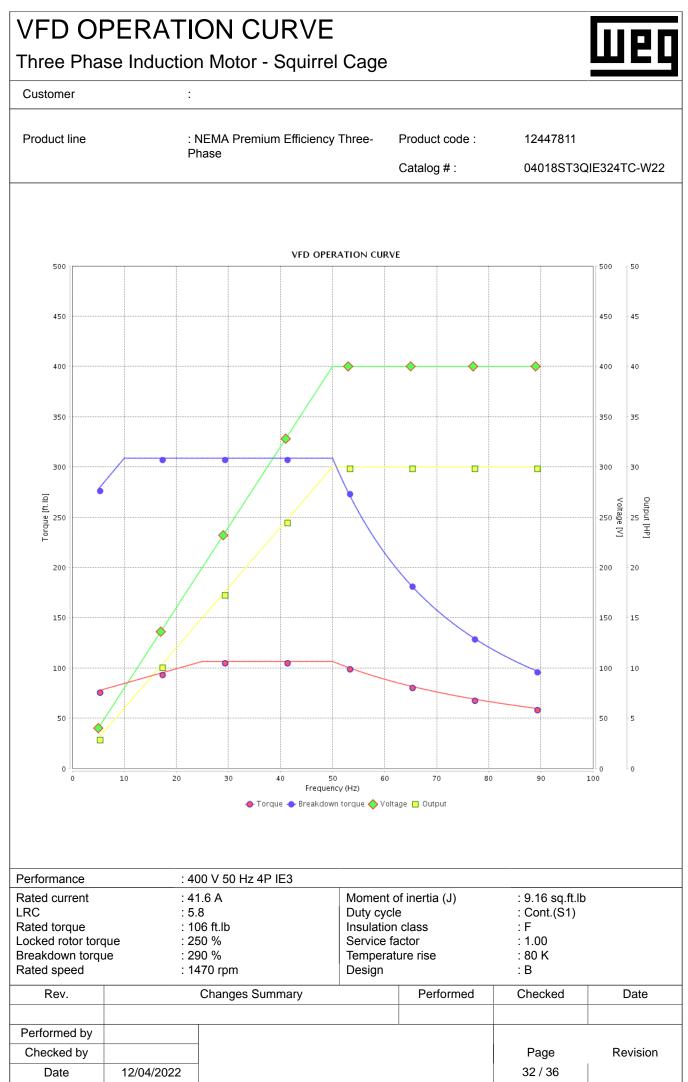
THERMAL LIMIT CURVE					
Three Phase Ind	luction Motor - Squirrel Cage)	шсц		
Customer	:				
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12447811		
		Catalog # :	04018ST3QIE324TC-W22		

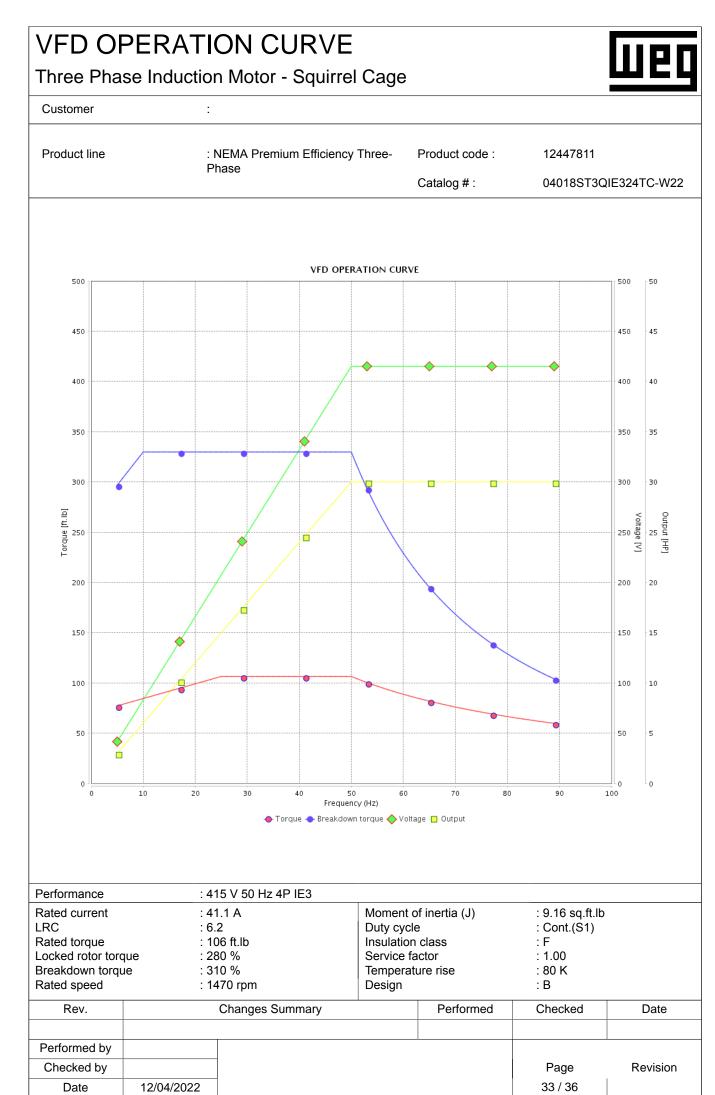
Performance	rformance : 415 V 50 Hz 4P IE2					
LRC: 4.Rated torque: 14Locked rotor torque: 22Breakdown torque: 22		2.8 A 9 43 ft.lb 10 % 29 % 465 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constan	t					
Cooling constant						
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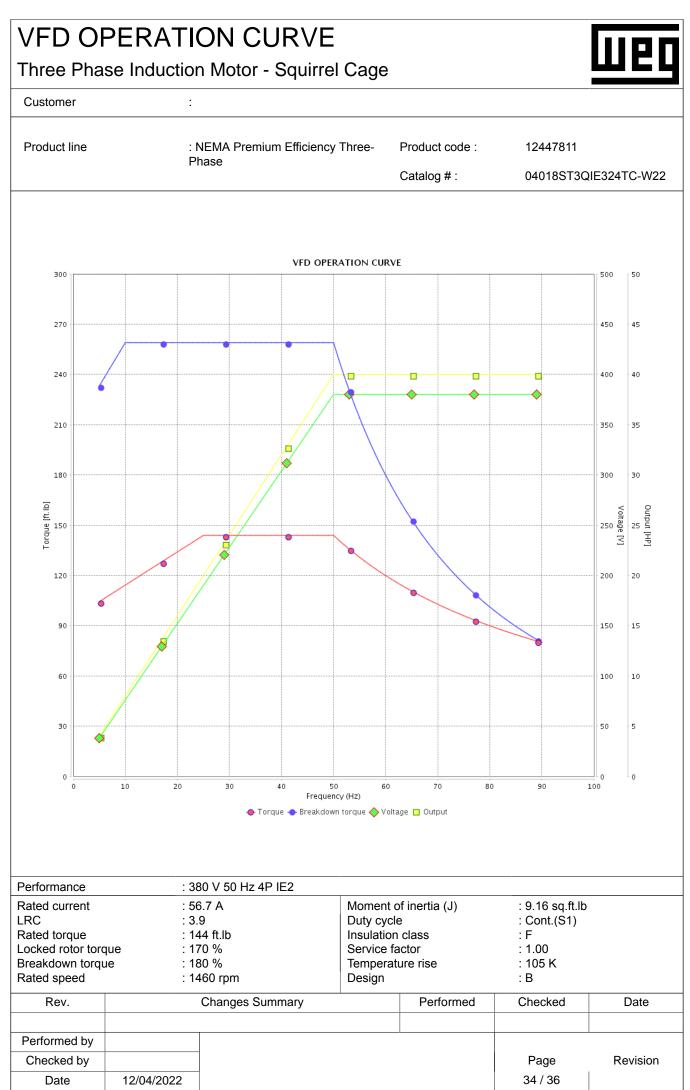


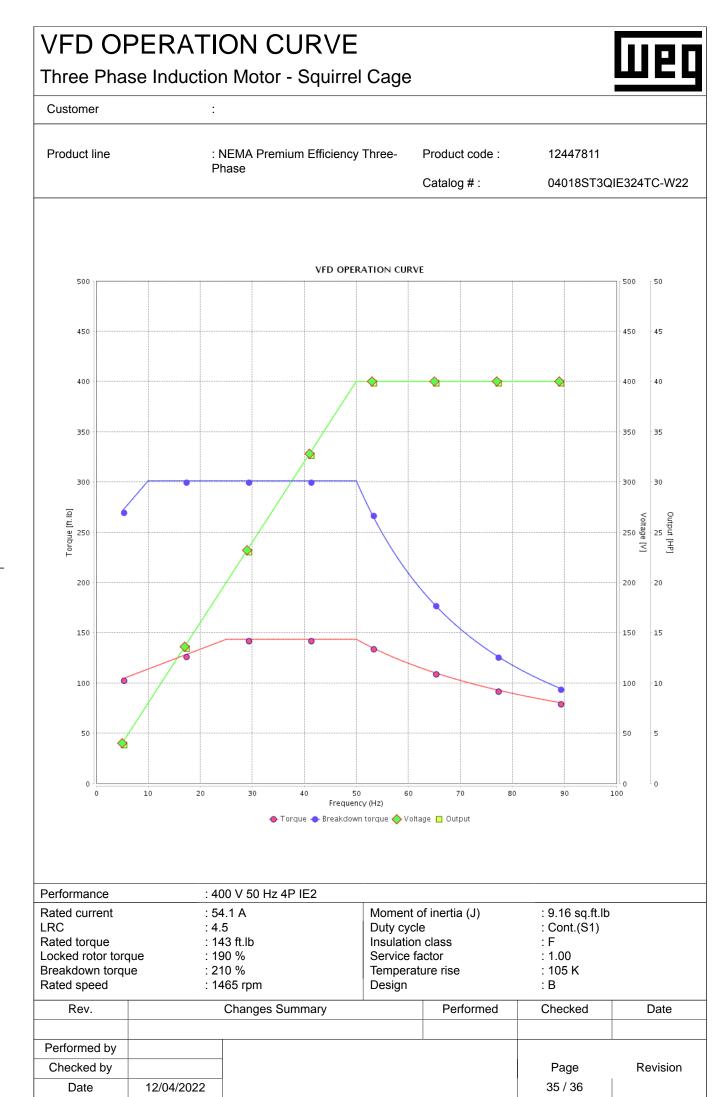


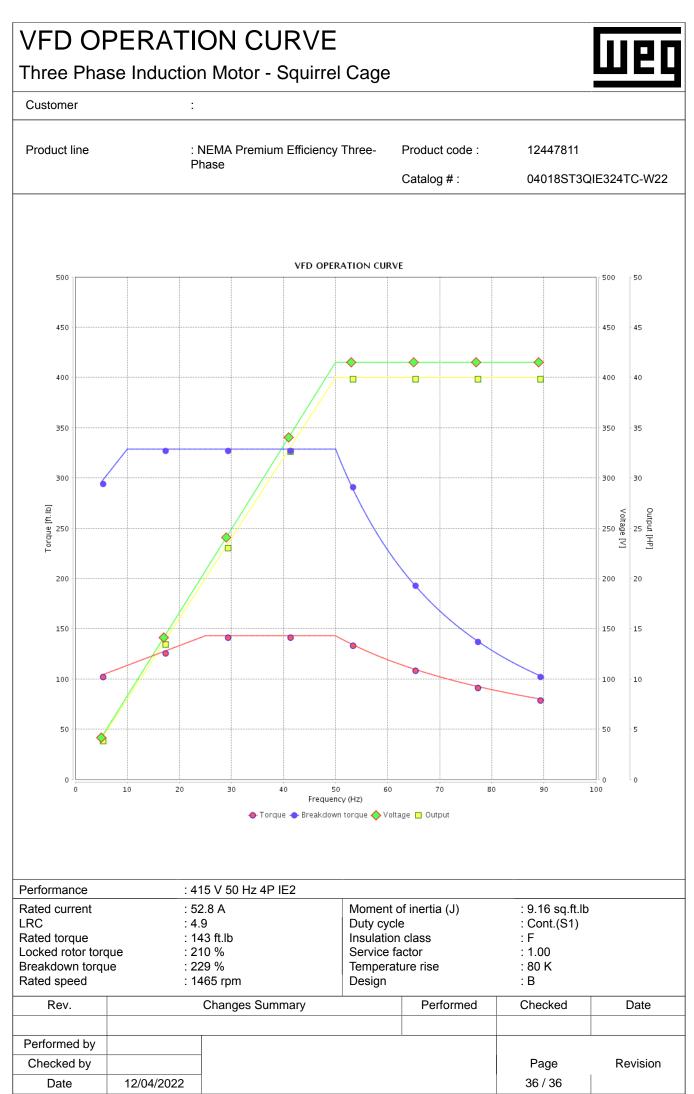


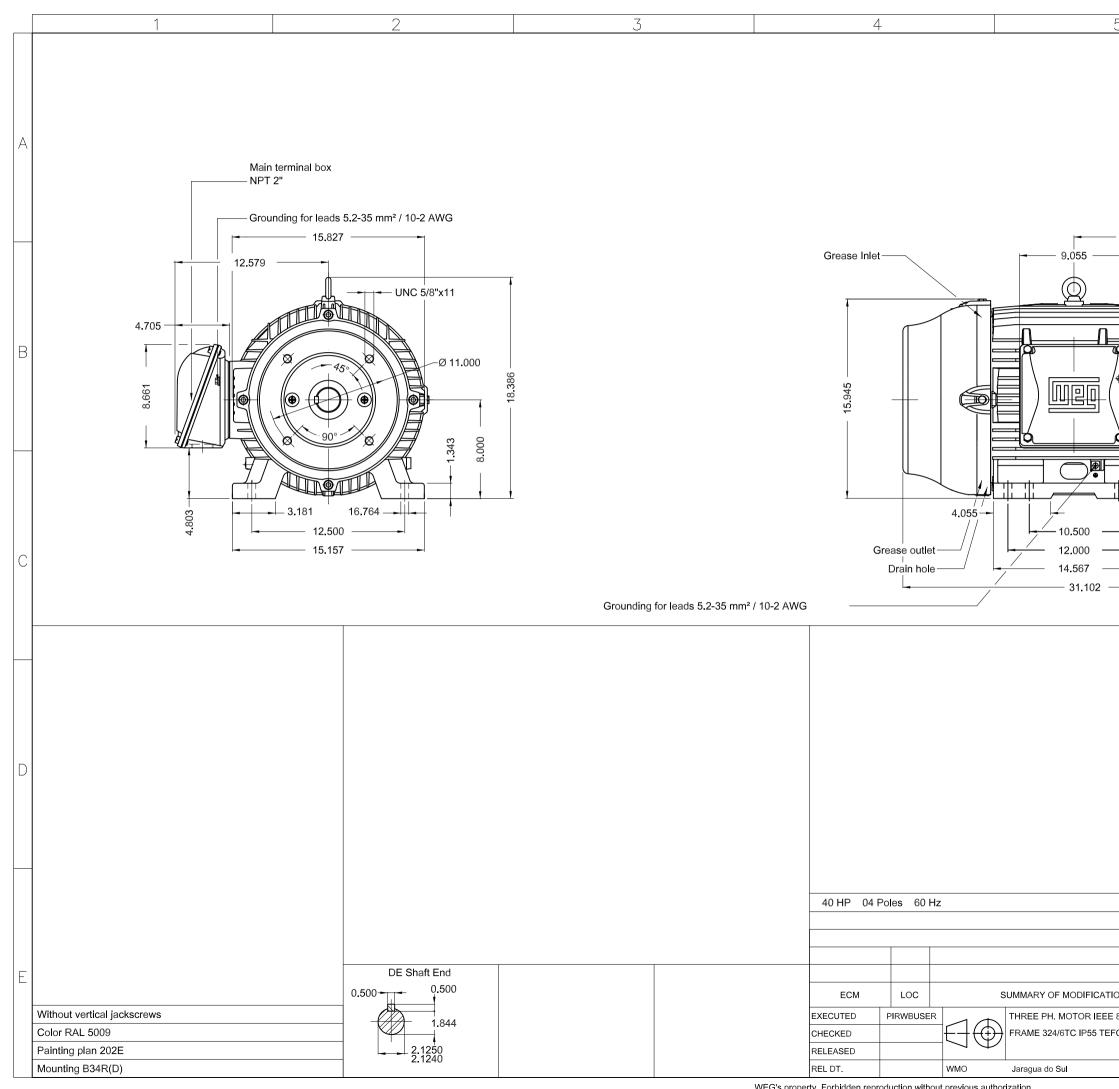












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