# DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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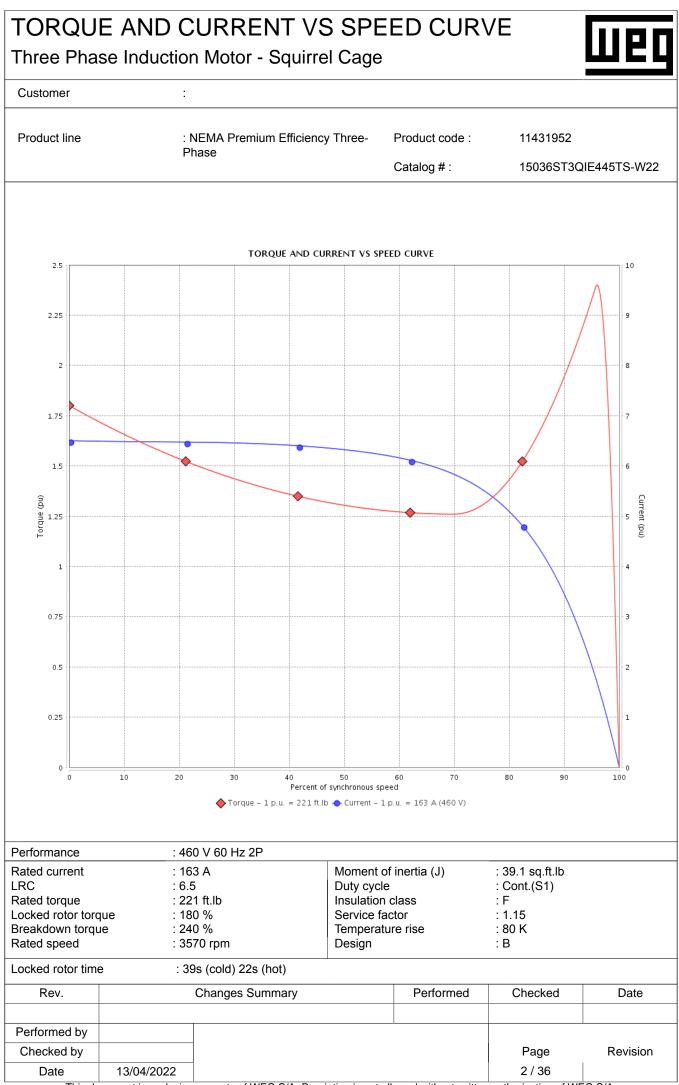
#### Customer

Product line		: NEMA Premium Efficiency Three-			Product code	e: 11	431952	
					Catalog # :	15	036ST3QIE4	45TS-W22
Frame Insulation class Duty cycle Ambient tempera Altitude Protection degre Design		: 444/5TS : F : Cont.(S1) : -20°C to + : 1000 m.a. : IP55 : B	40°C	Mount Rotatio Startin Appro		: F : E : C : 1	C411 - TEFC -1 Both (CW and Direct On Line 744 lb 9.1 sq.ft.lb	,
Output [HP]		150	125	125	125	150	150	150
Poles		2	2	2	2	2	2	2
Frequency [Hz]		60	50	50 400	50	50	50	50
Rated voltage [V] Rated current [A]		460 163	380 162	400 154	415 148	380 200	400 189	415 182
L. R. Amperes [A]		103	988	1063	148	1020	1077	182
LRC [A]			6.1x(Code F)			5.1x(Code D)		
No load current [A	]	41.0	41.0	43.1	45.1	41.0	43.1	45.1
Rated speed [RPN		3570	2965	2970	2970	2960	2965	2965
Slip [%]		0.83	1.17	1.00	1.00	1.33	1.17	1.17
Rated torque [ft.lb]		221	221	221	221	266	266	266
Locked rotor torqu		180	170	190	200	140	160	170
Breakdown torque	: [%]	240	229	250	280	190	210	229
Service factor		1.15	1.00	1.00	1.00 80 K	1.00 105 K	1.00 105 K	1.00 80 K
Temperature rise Locked rotor time		80 K 39s (cold) 22s (hot)	80 K 30s (cold) 17s (hot)	80 K 30s (cold) 17s (hot)	30s (cold) 17s (hot)	105 K 30s (cold) 17s (hot)	30s (cold) 17s (hot)	30s (cold) 17s (hot)
Noise level <sup>2</sup>		81.0 dB(A)	77.0 dB(A)	77.0 dB(A)	77.0 dB(A)	77.0 dB(A)	77.0 dB(A)	77.0 dB(A)
	25%							
Efficiency (0/)	50%	94.1	93.7	94.1	94.1	94.1	94.5	94.5
Efficiency (%)	75%	95.0	94.4	94.9	94.9	94.5	95.0	95.0
	100%	95.0	95.0	95.0	95.0	94.1	94.5	94.5
	25%			<b></b> -				
Power Factor	50%	0.83	0.81	0.79	0.77	0.86	0.84	0.83
	75% 100%	0.88	0.88	0.88	0.87	0.89	0.89	0.88
	100%	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Bearing type Sealing Lubrication interv Lubricant amoun Lubricant type		Drive end           :         6314 C3           :         Inpro/Se           :         4000 h           :         27 g           :         Mobi	3 6314 0 al Inpro/S	C3 Max. tr eal Max. c h	ation loads action ompression		57 lb 500 lb	
Notes								
This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful	ed. lotor from the Im and with t veight subjec ocess.	shaft end. olerance of +3	3dB(A).		are average va supply, subject			
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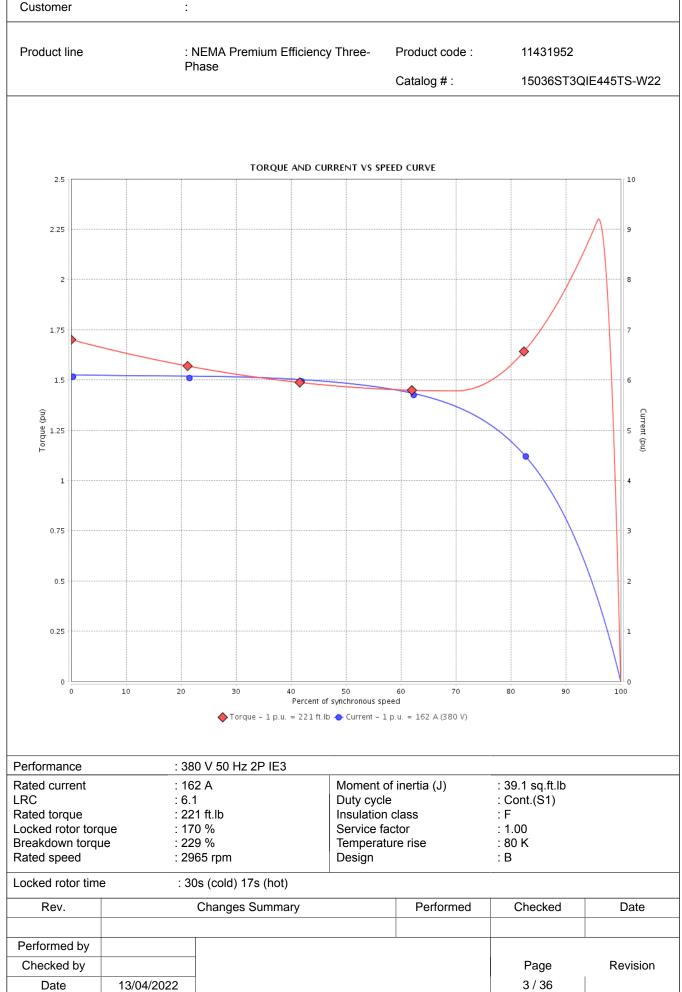
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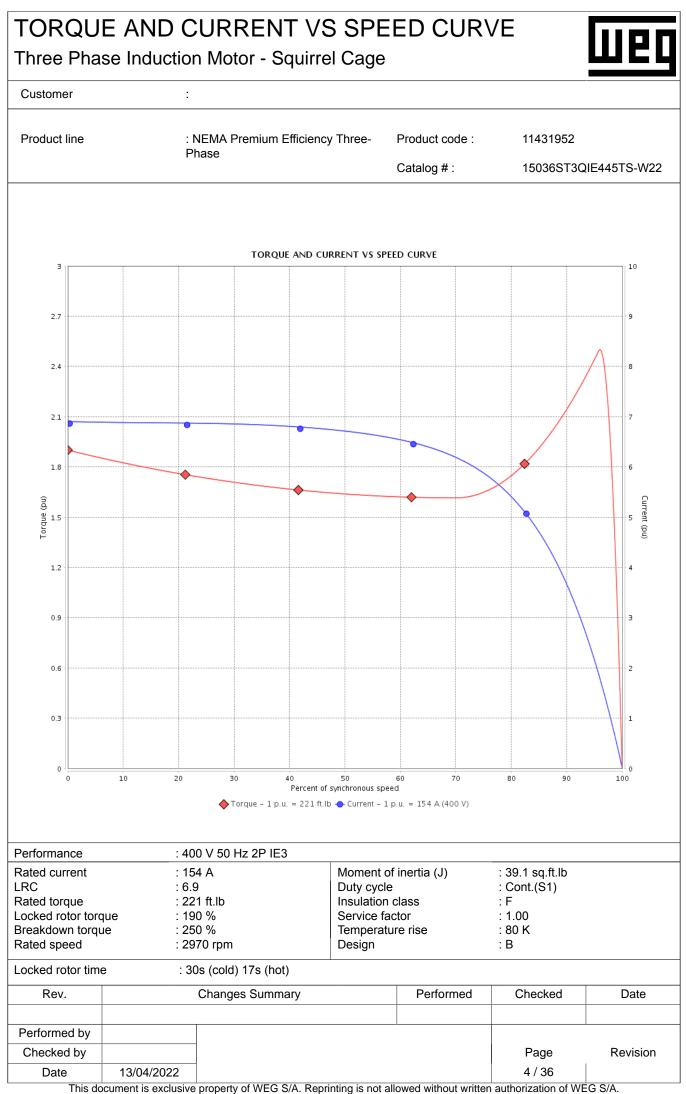
### TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

#### Customer



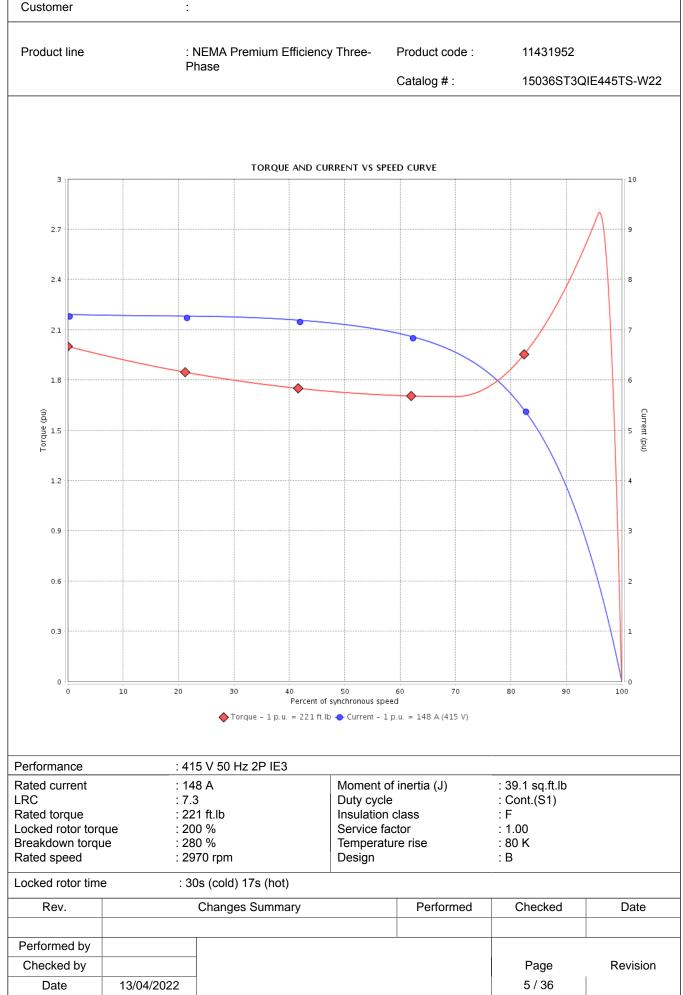
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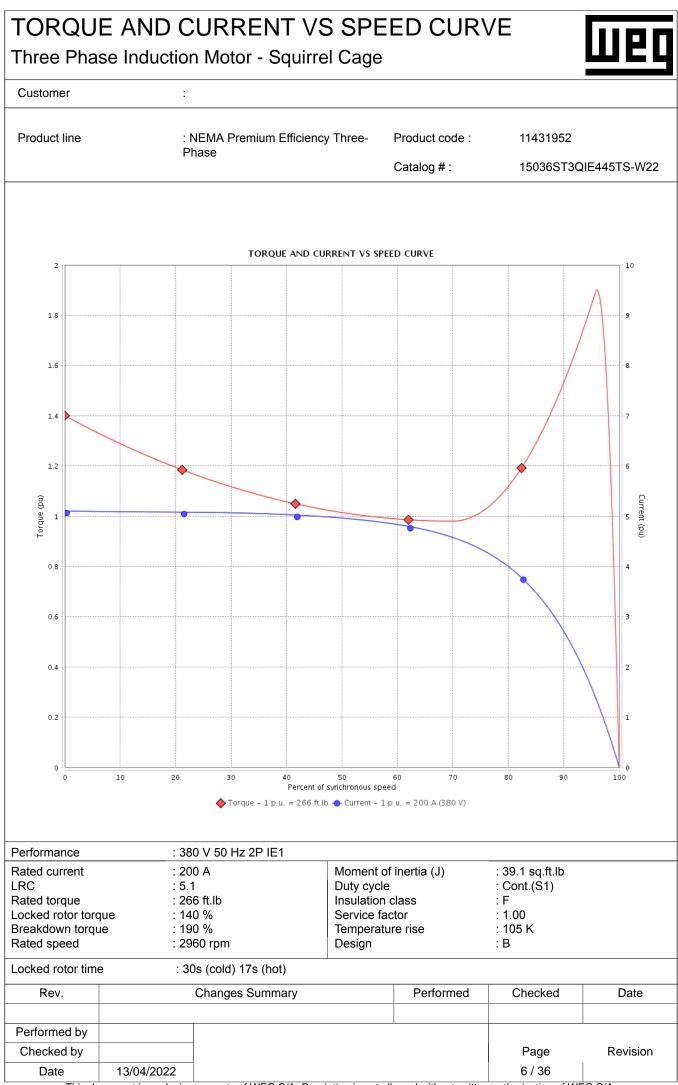
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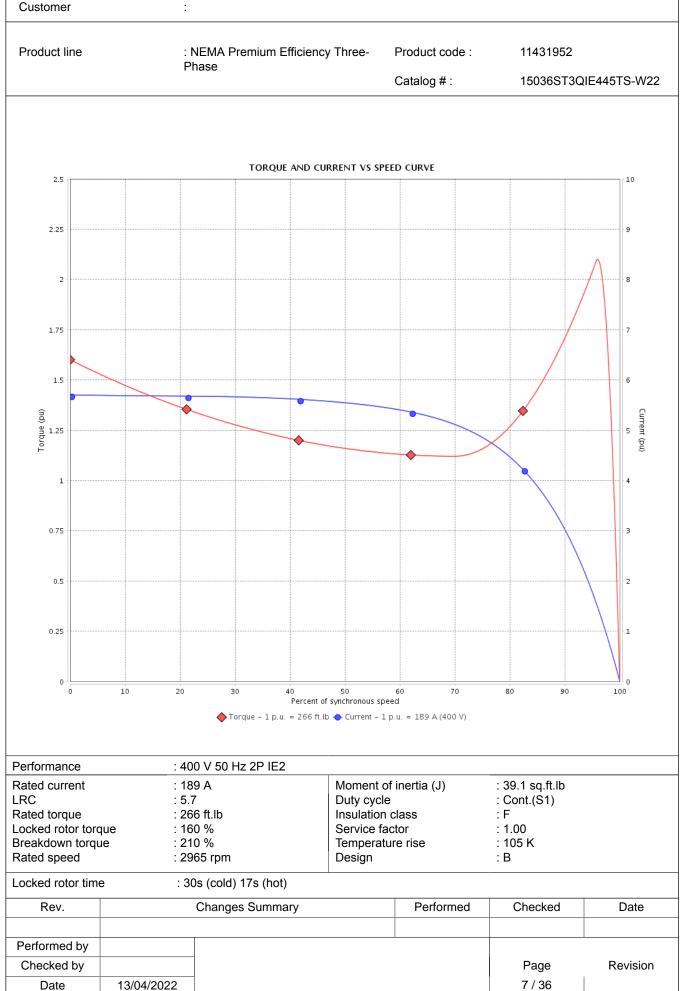
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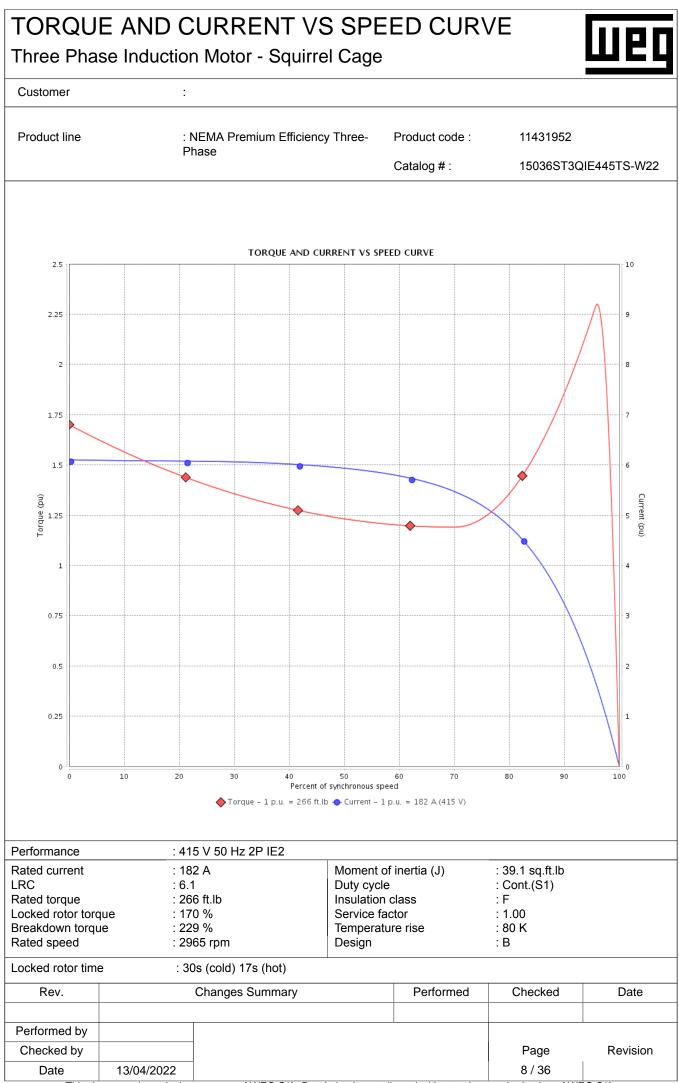
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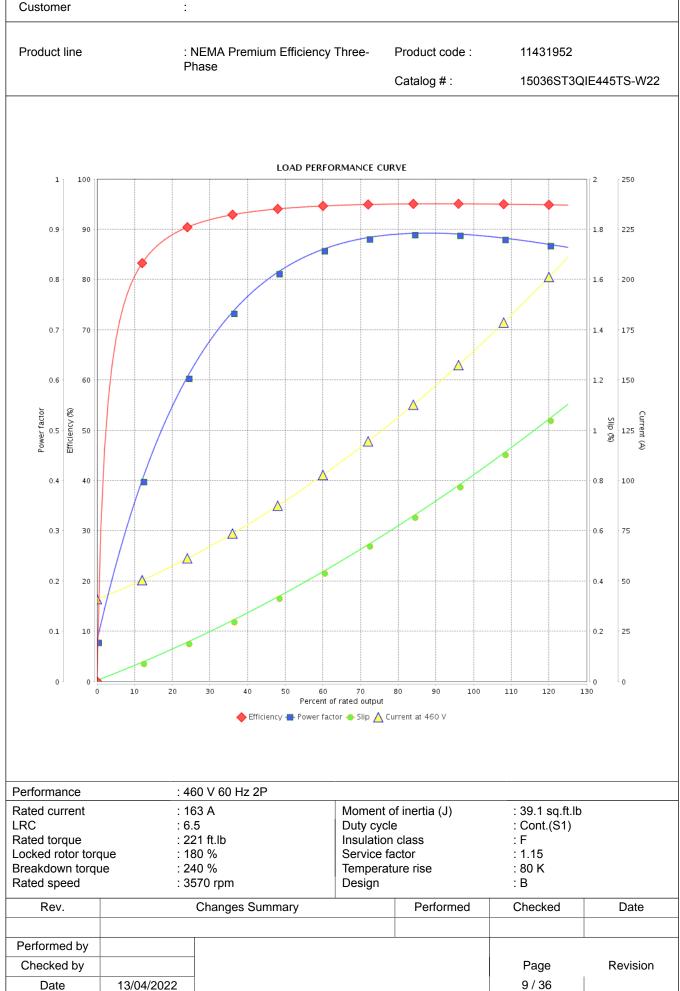
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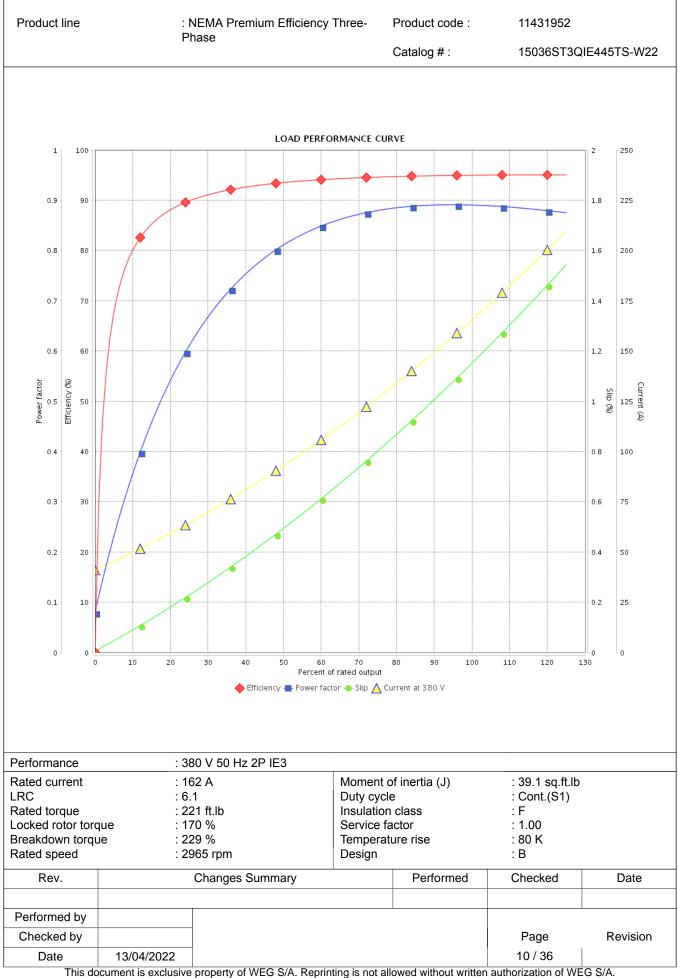
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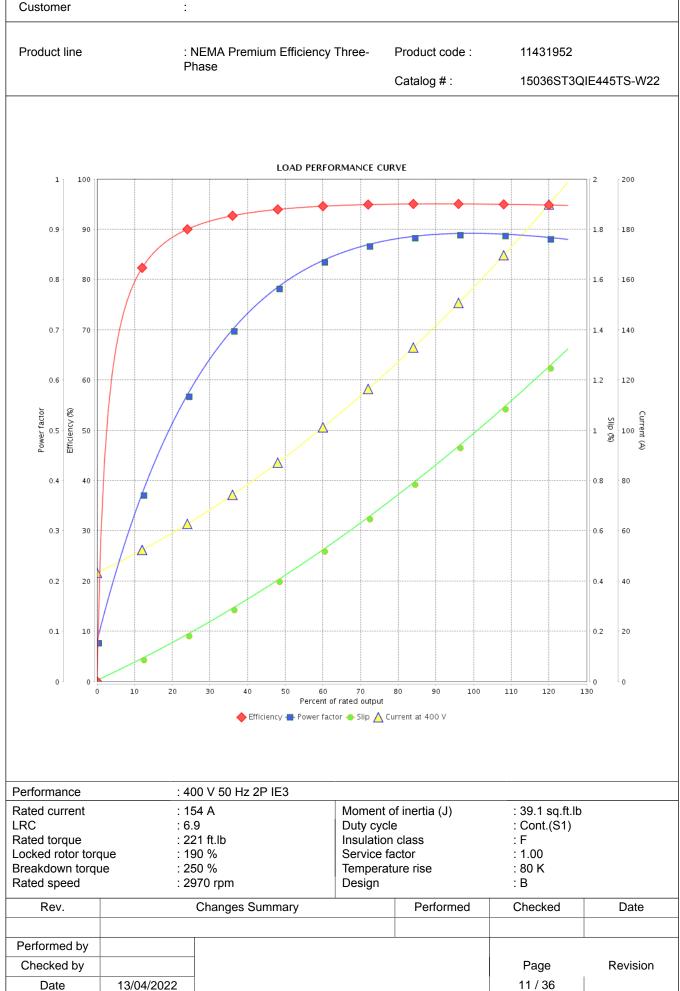


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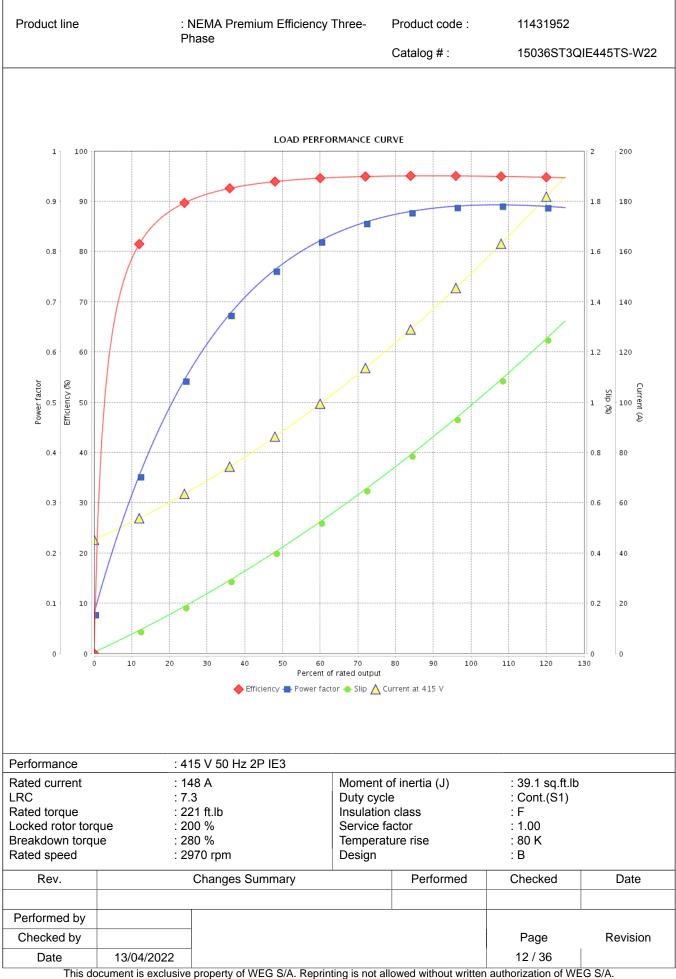
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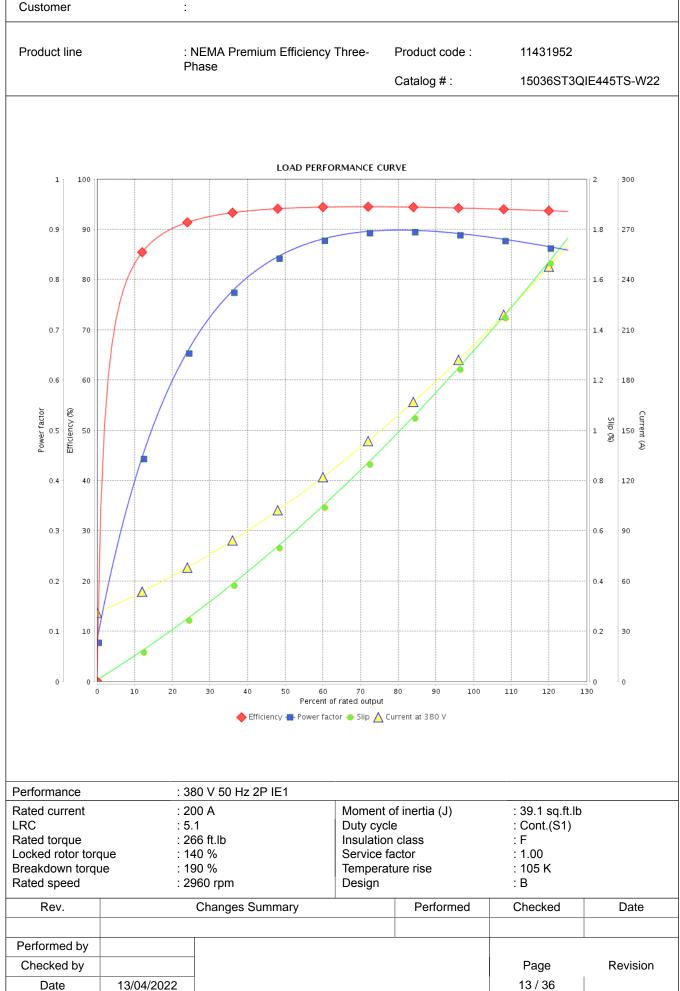
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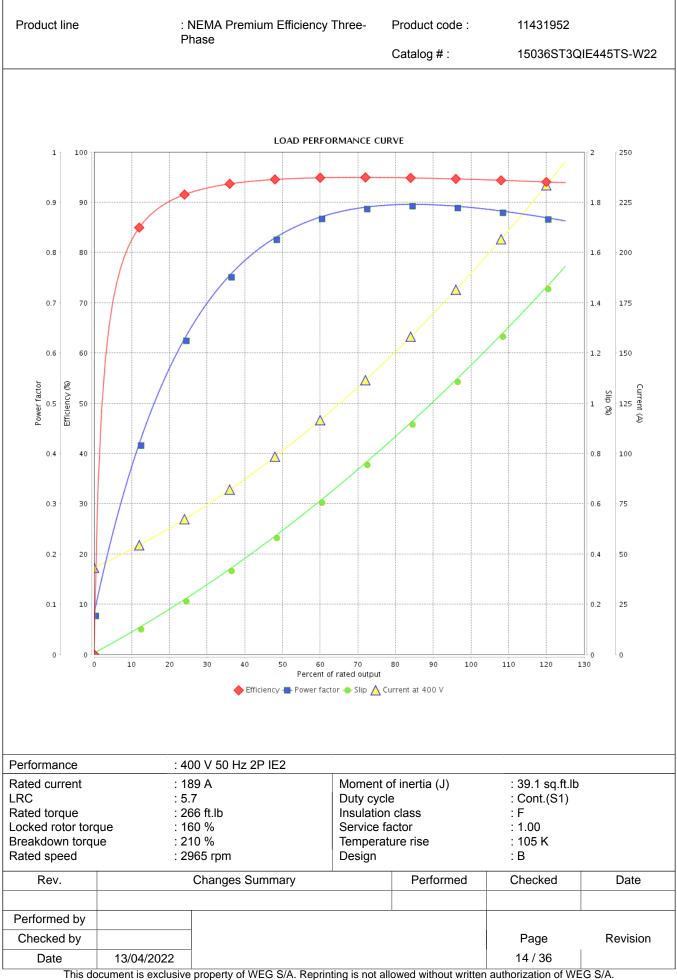
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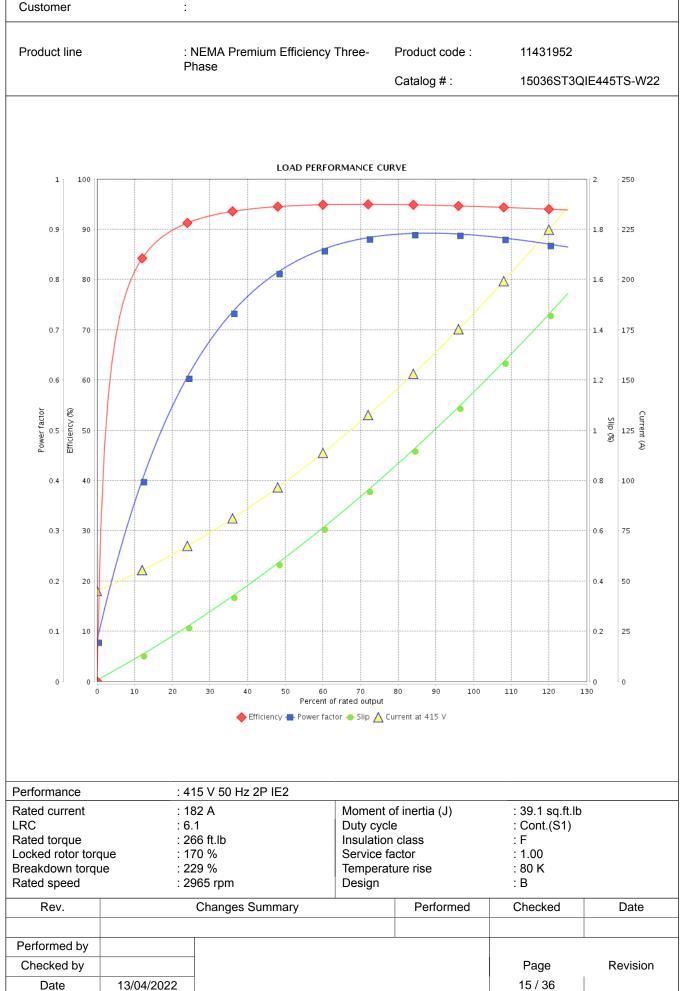


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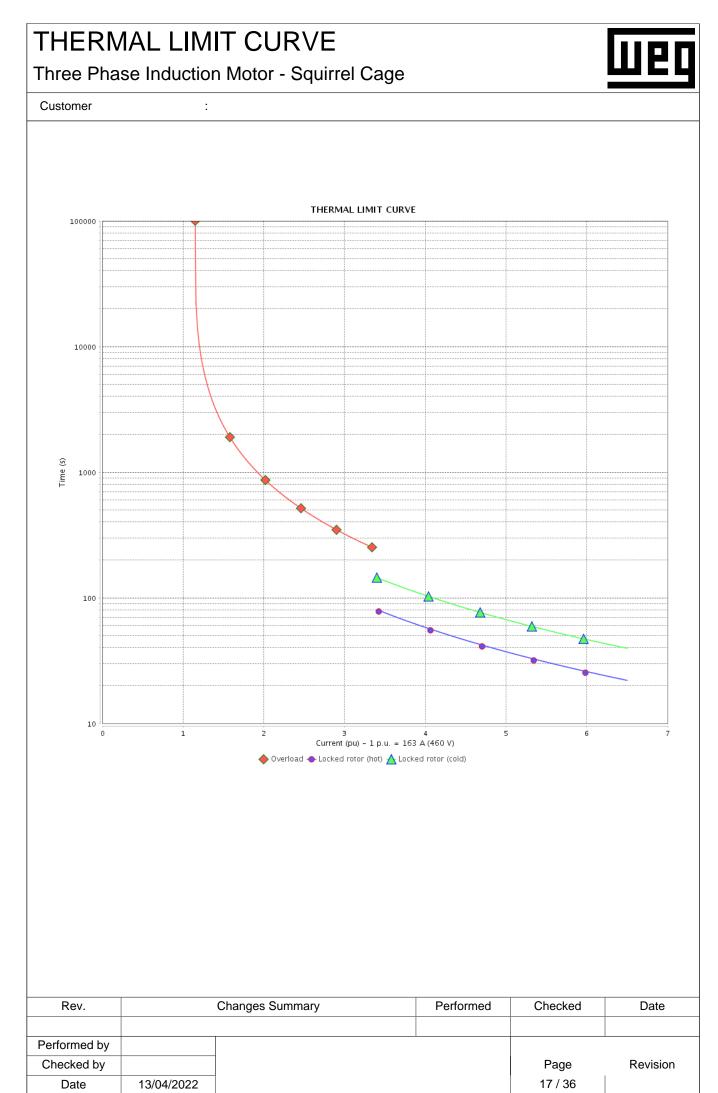
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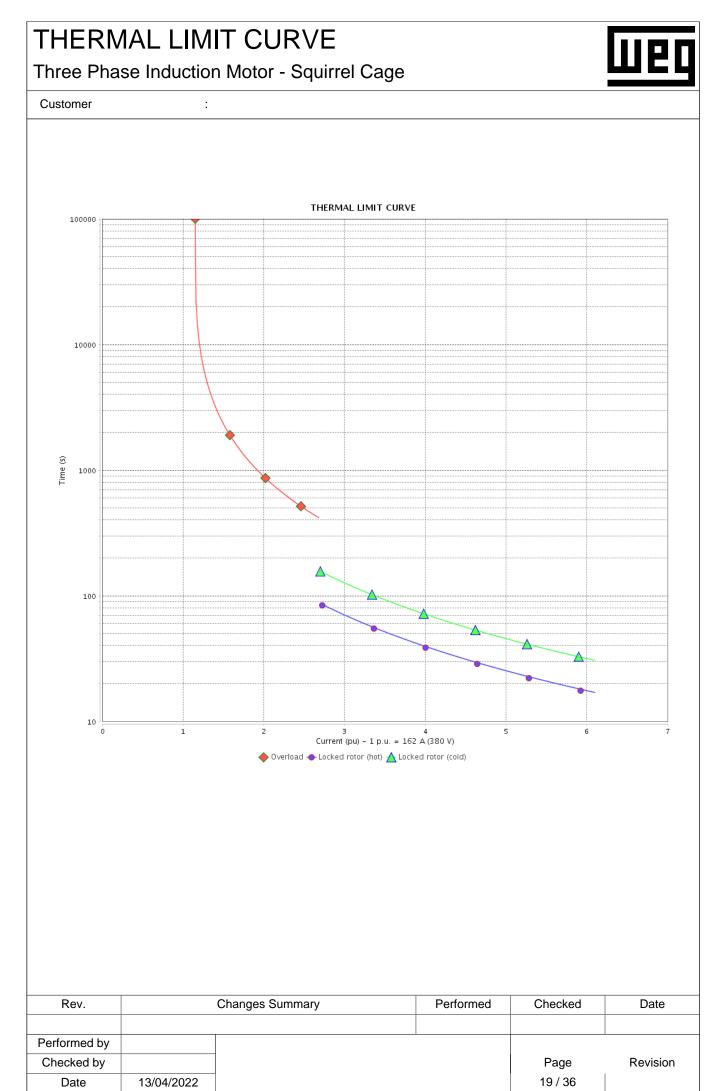
THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage							
Customer	:						
Product line	: NEMA Prem Phase	ium Efficiency Three-	Product code : Catalog # :	11431952 15036ST3QI	E445TS-W22		
Performance	: 460 V 60 Hz 2						
Rated current	: 163 A	Moment	of inertia (J)	: 39.1 sq.ft.lb			
LRC Rated torque	: 6.5 : 221 ft.lb	Duty cyc Insulatio	on class	: Cont.(S1) : F			
Locked rotor torq Breakdown torqu		Service Tempera	factor ature rise	: 1.15 : 80 K			
Rated speed	: 3570 rpm	Design		: B			
Heating constant							
Cooling constant Rev.	Changes St	ummary	Performed	Checked	Date		

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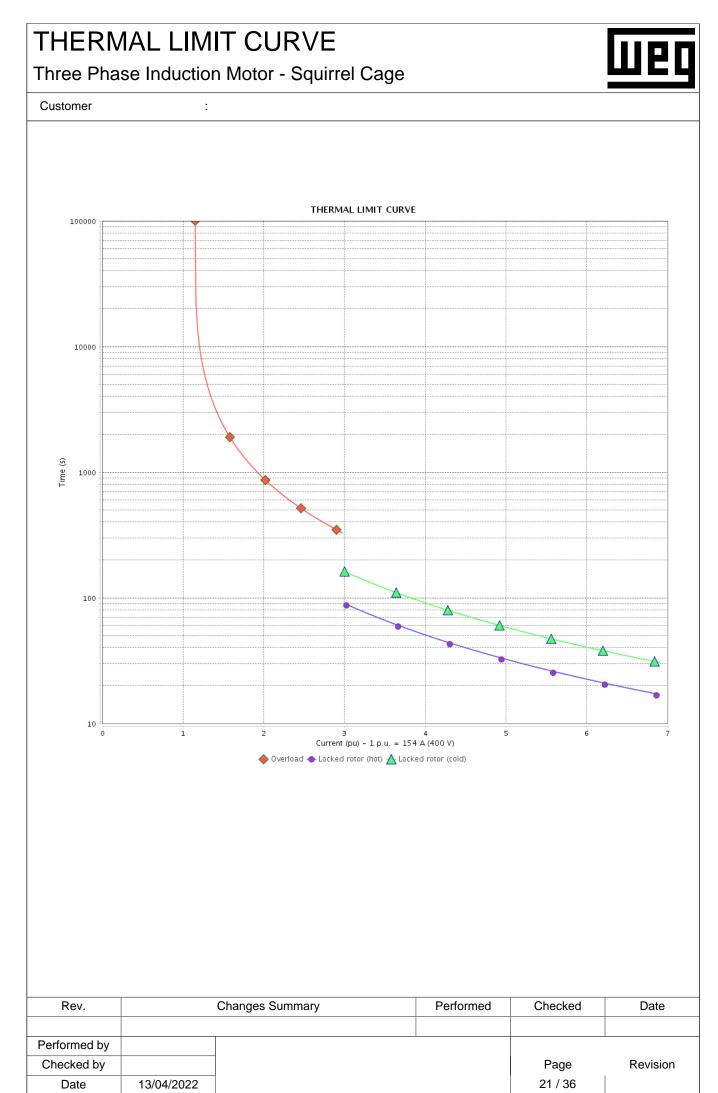
THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage						
Customer		or - Squirter Ca	age			
Product line	: NEMA F Phase	Premium Efficiency Thre		roduct code : atalog # :	11431952 15036ST3Q	IE445TS-W22
Performance	: 380 V 50	Hz 2P IE3				
Rated current LRC	: 162 A : 6.1	Mo Dut	ty cycle	nertia (J)	: 39.1 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torq	: 221 ft.lb ue : 170 %	Ins	ulation cl		: F : 1.00	
Breakdown torqu Rated speed		Ten	nperature sign		: 80 K : B	
Heating constant			Sigir		. ບ	
Cooling constant						
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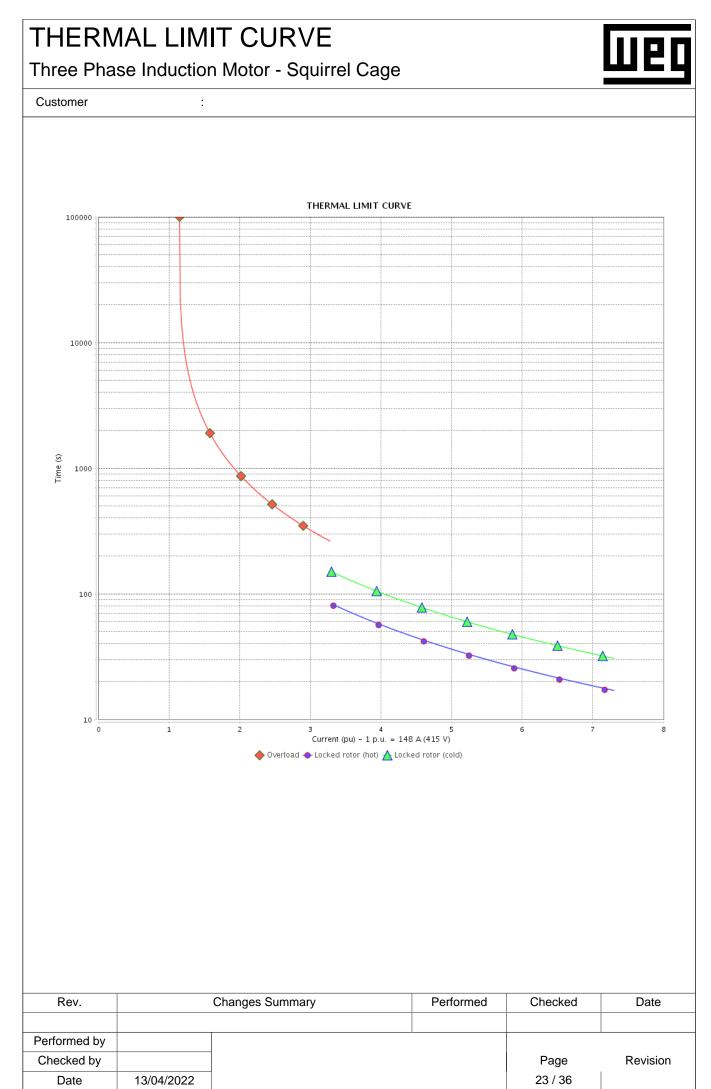
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Customer		•				
Product line	: NEMA Premium Efficiency Th Phase	nree- Product code : Catalog # :	11431952 15036ST3QIE445TS-W2	!2		
Performance	: 400 V 50 Hz 2P IE3					
Rated current LRC		Moment of inertia (J) Duty cycle	: 39.1 sq.ft.lb : Cont.(S1)			
Rated torque	: 221 ft.lb	nsulation class	: F			
Locked rotor torque Breakdown torque		Service factor Temperature rise	: 1.00 : 80 K			
Rated speed		Design	: B			
Heating constant						
Cooling constant Rev.	Changes Summary	Performed	Checked Date			

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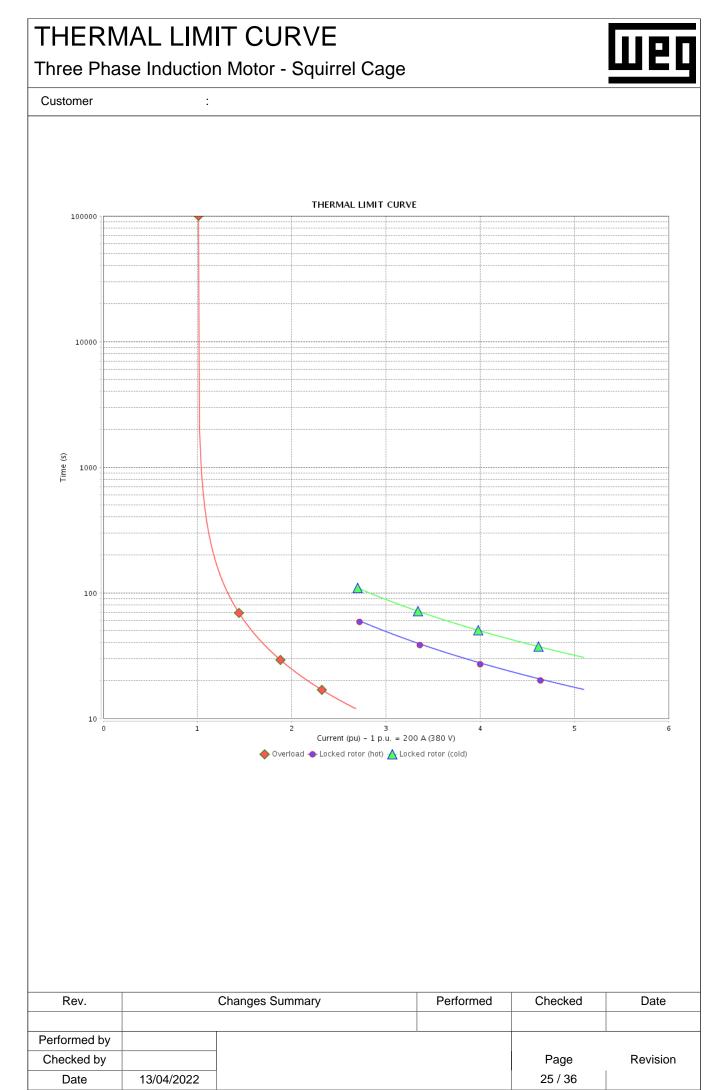
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Customer			Caye			
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11431952 15036ST3Q	IE445TS-W22
Performance		: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu	lne	: 148 A : 7.3 : 221 ft.lb : 200 % : 280 % : 2970 rpm	Duty cycle Insulation Service fa Temperatu	class ctor	: 39.1 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rated speed		. 2970 ipin	Design		. ט	
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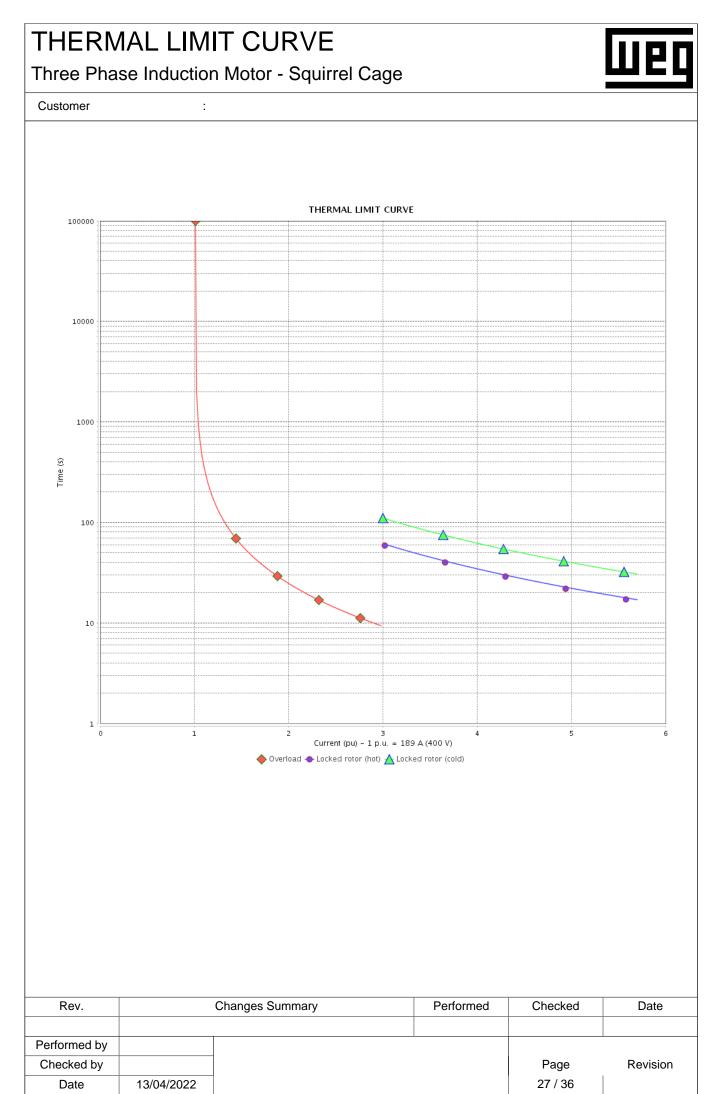
THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage						
Customer	:					
Product line	: NEMA Premium Efficiency <sup>-</sup> Phase	Three- Product code : Catalog # :	11431952 15036ST3QIE445TS-W22			
Performance	: 380 V 50 Hz 2P IE1					
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 200 A : 5.1 : 266 ft.lb ue : 140 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 39.1 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B			
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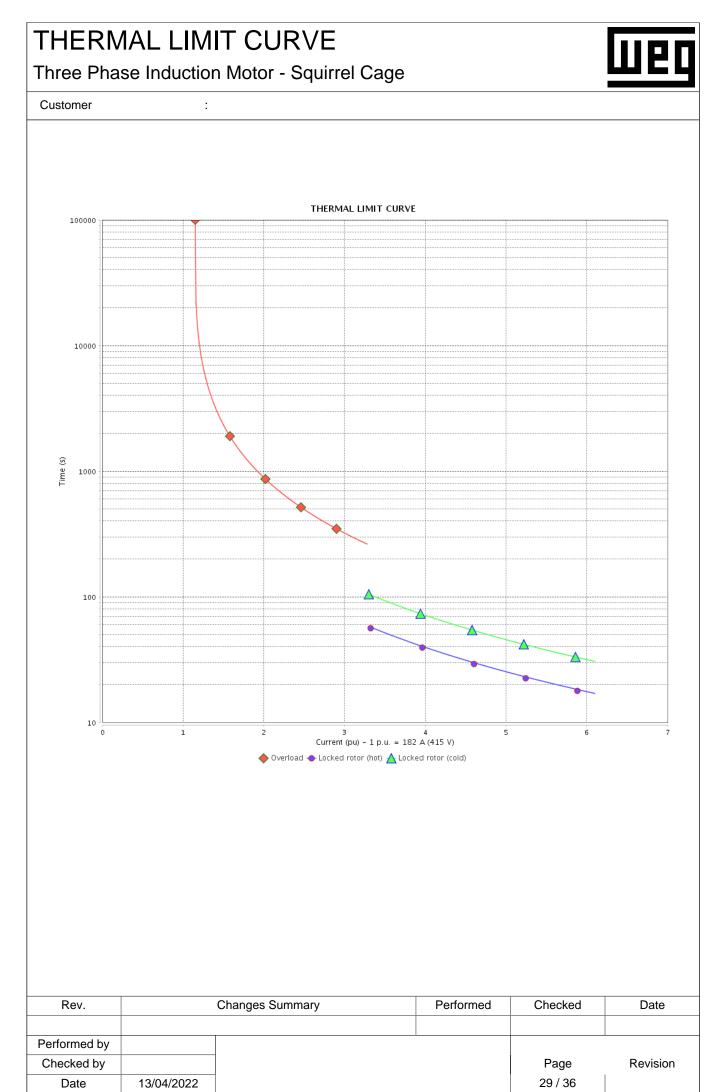
	LIMIT CURVE luction Motor - Squirrel Ca	ge	шер
Customer	:		
Product line	: NEMA Premium Efficiency Three Phase	e- Product code : Catalog # :	11431952 15036ST3QIE445TS-W22
Performance	: 400 V 50 Hz 2P IE2		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 189 A Mor : 5.7 Dut : 266 ft.lb Insu : 160 % Ser	nent of inertia (J) / cycle lation class /ice factor perature rise ion	: 39.1 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B
Heating constant			

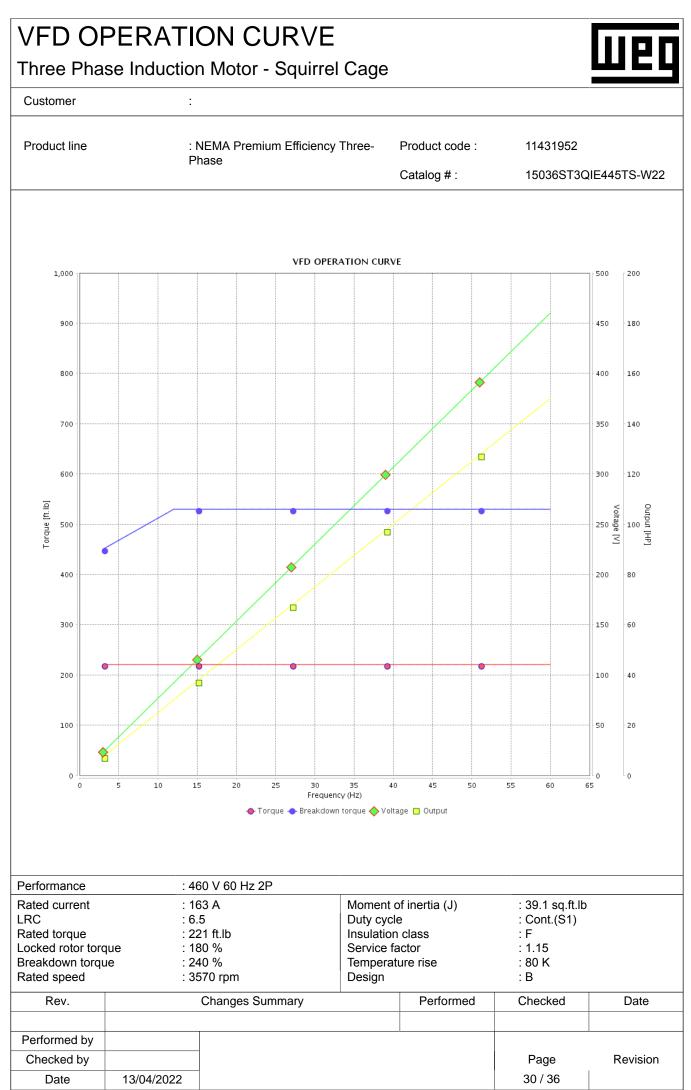
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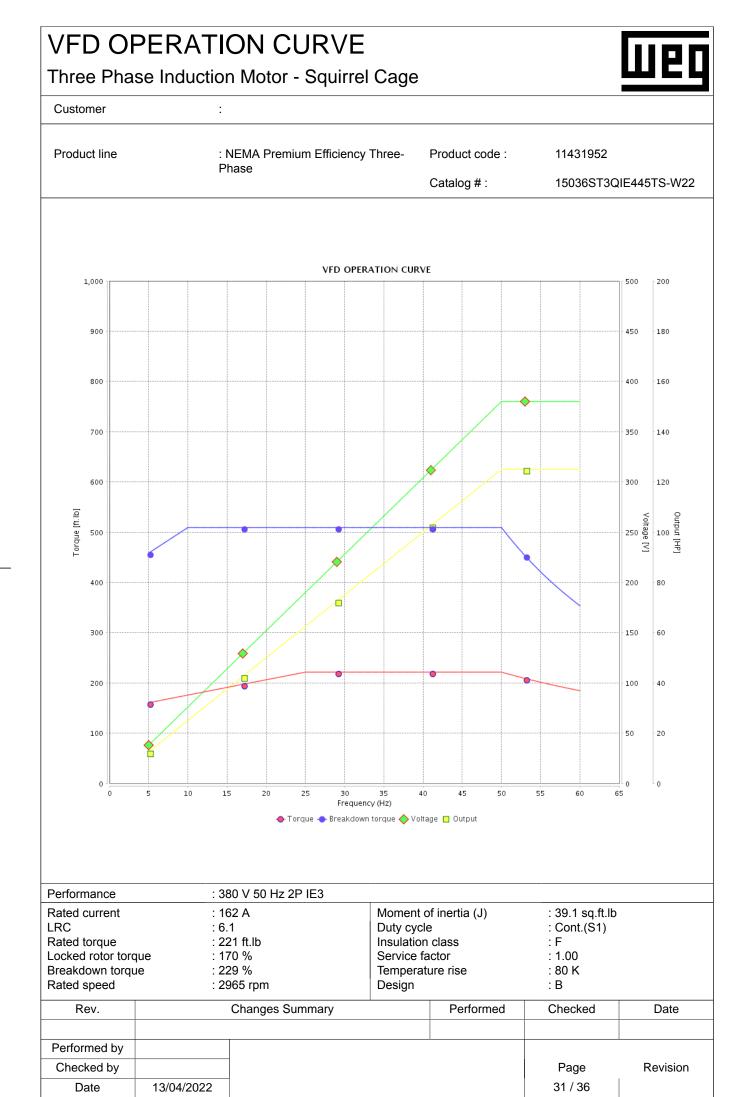


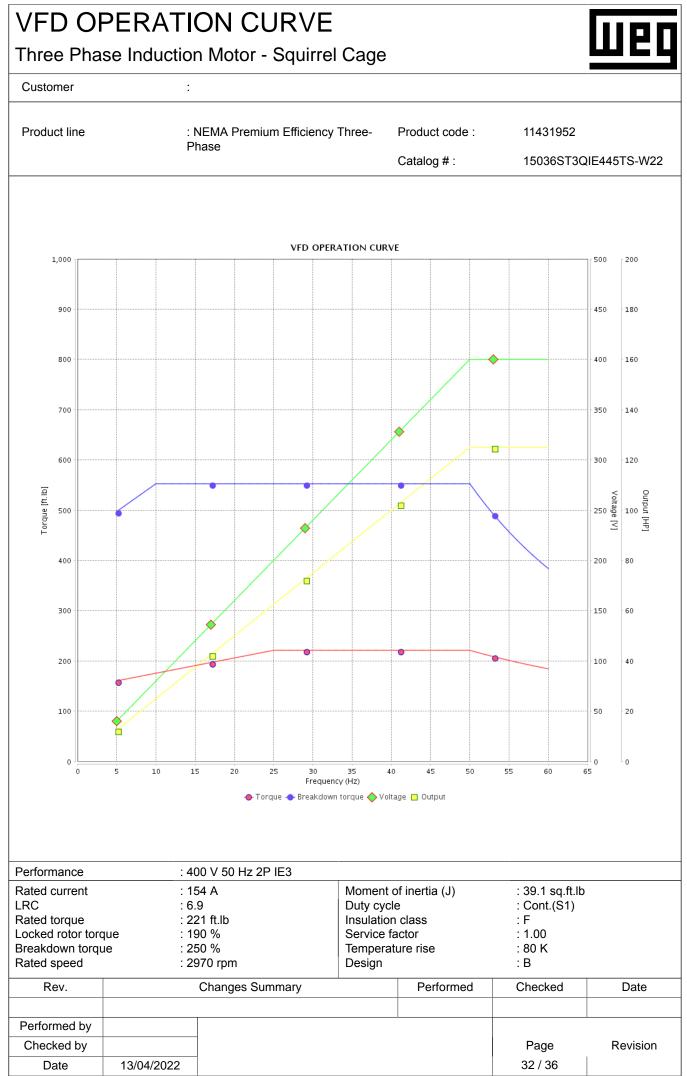
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Customer	:		
Product line	: NEMA Premium Efficiency Phase	Three- Product code : Catalog # :	11431952 15036ST3QIE445TS-W22
Derformence			
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 415 V 50 Hz 2P IE2 : 182 A : 6.1 : 266 ft.lb : 170 % : 229 % : 2965 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 39.1 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B
Heating constant Cooling constant			

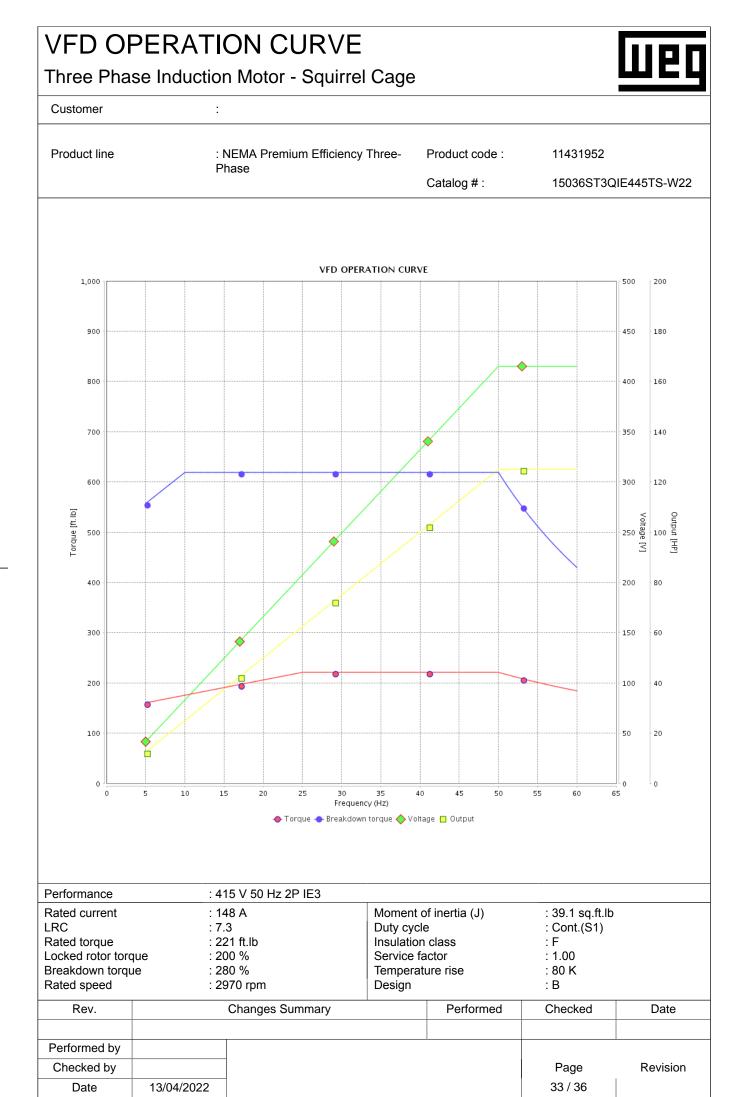
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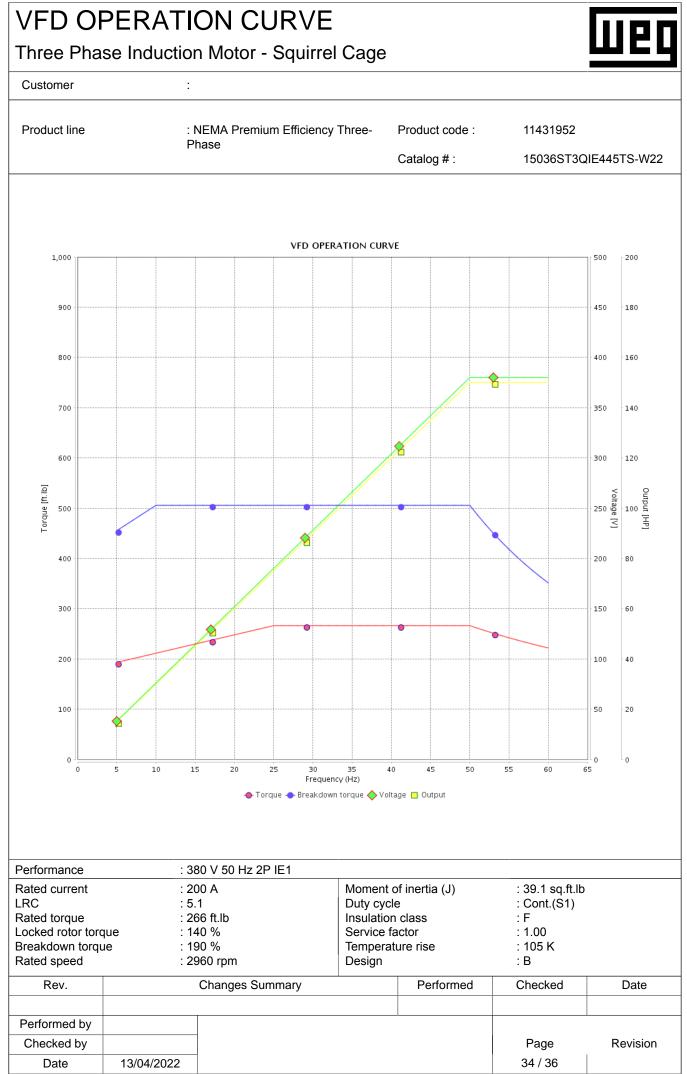




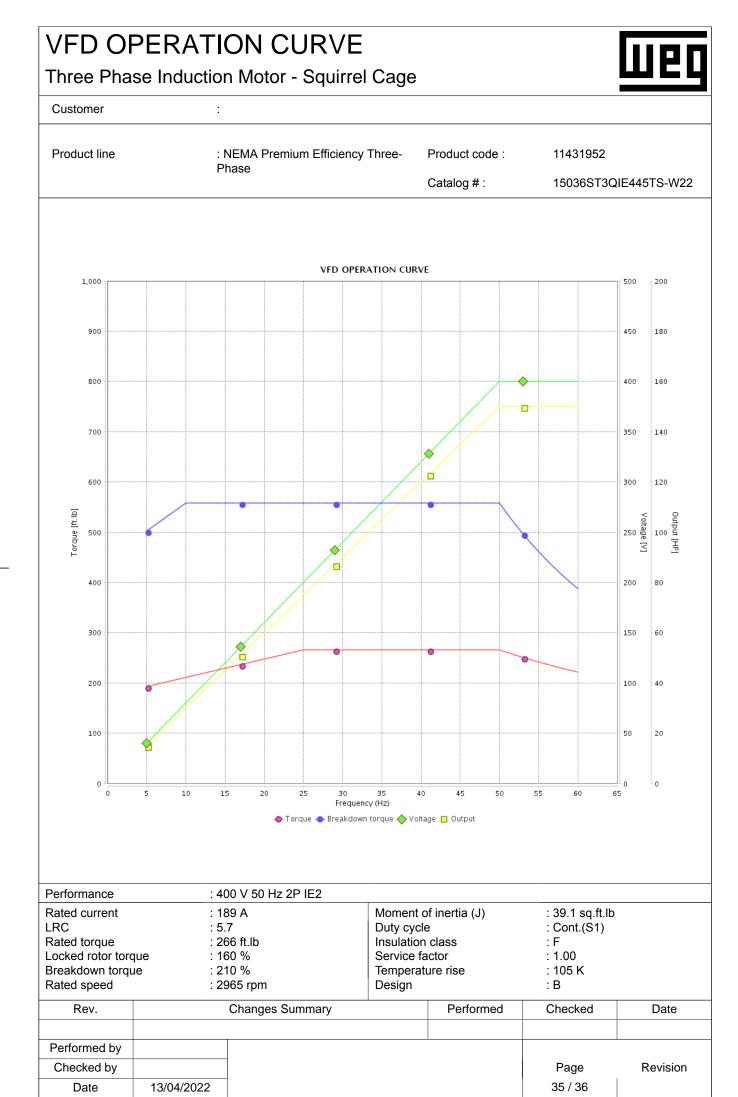


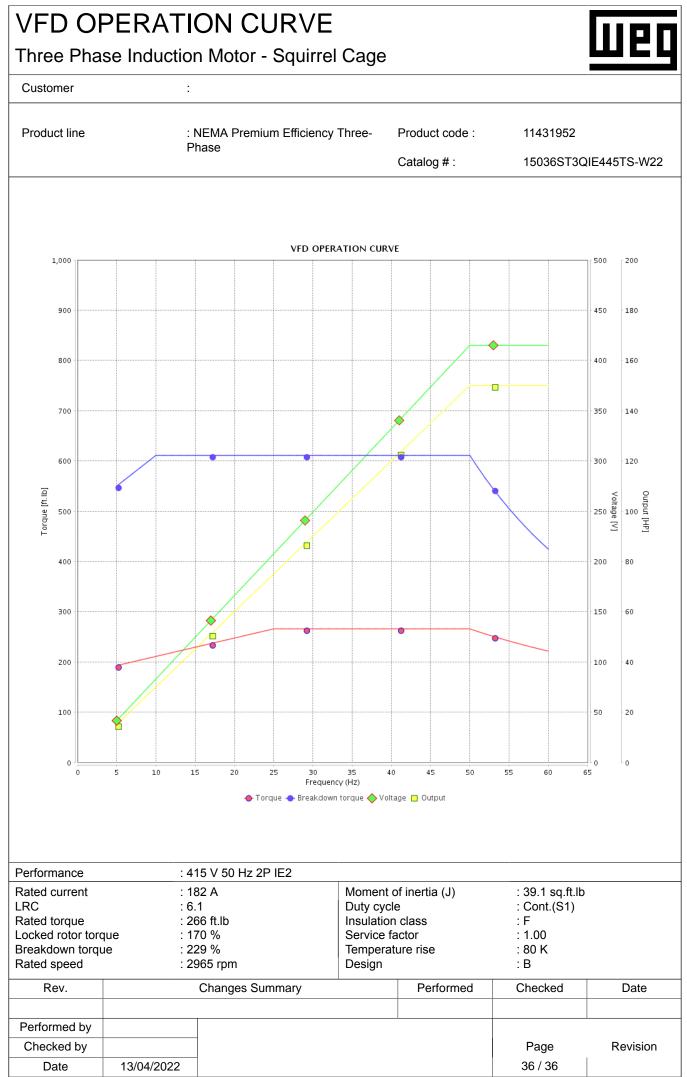


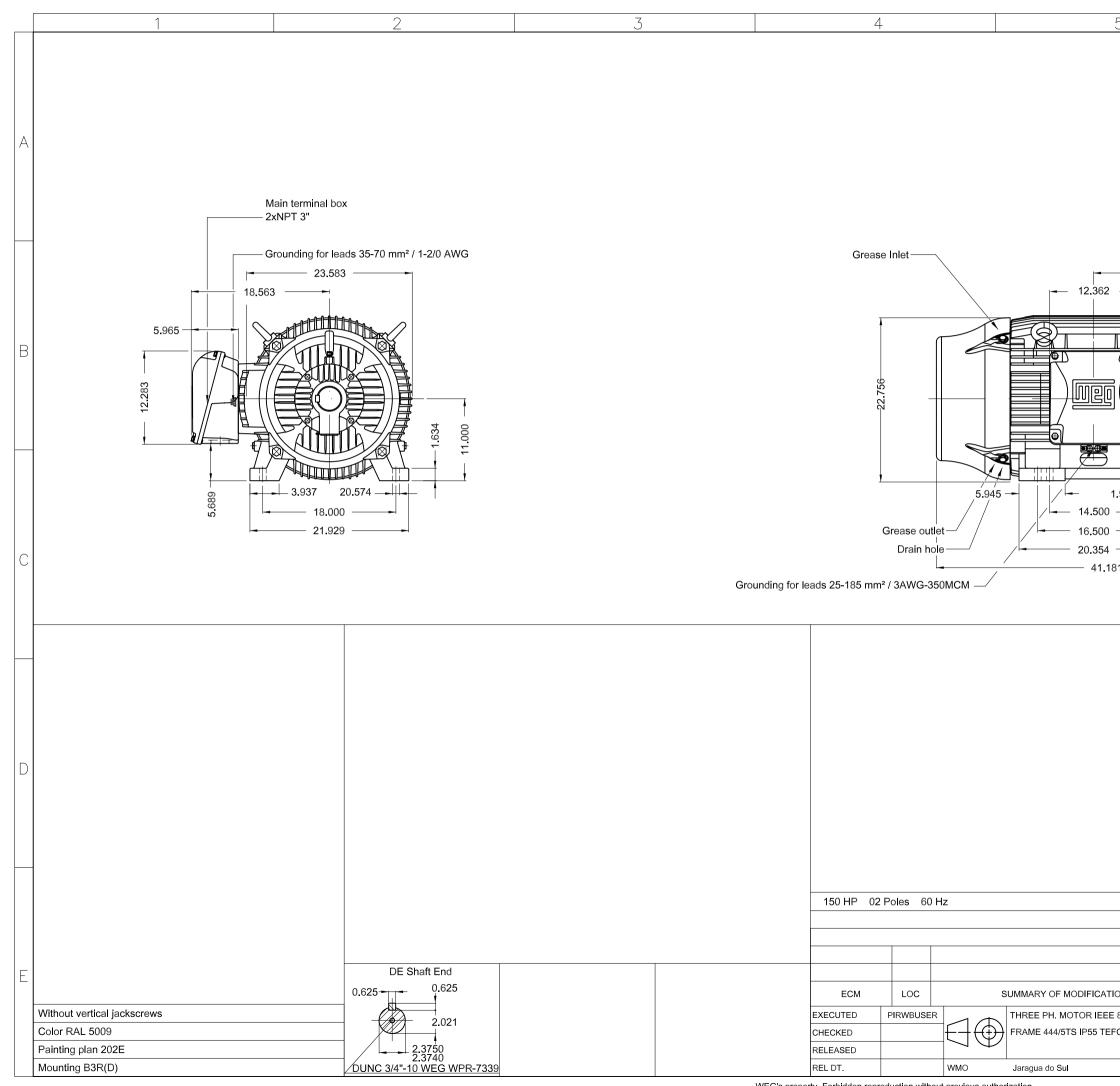




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