DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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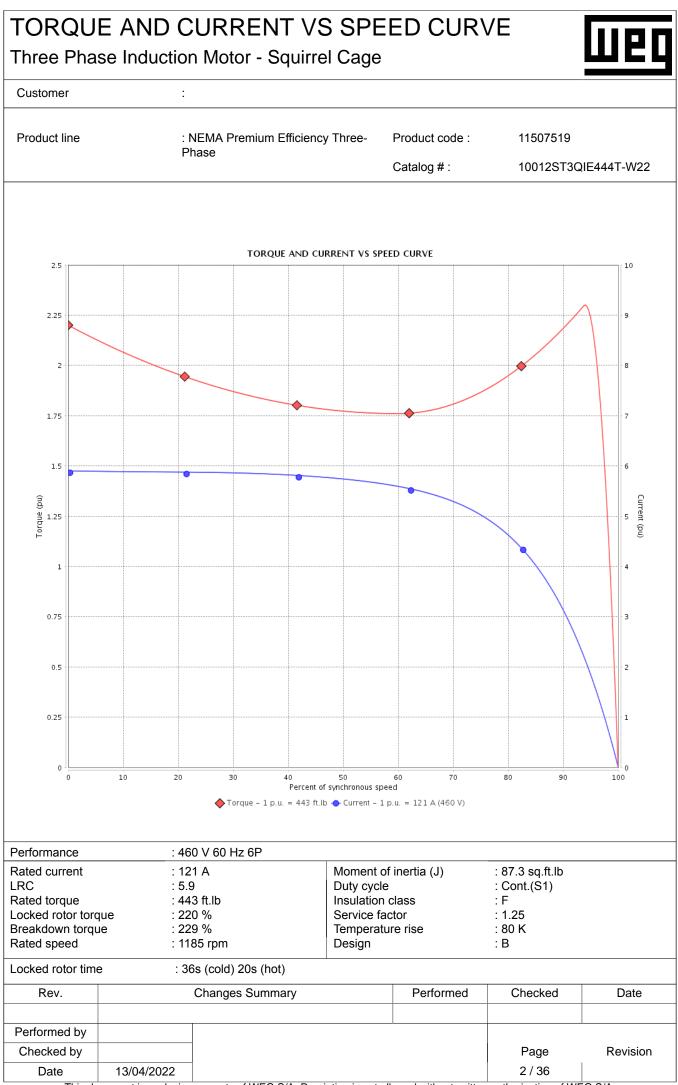
Customer

Product line			mium Efficien	cy Three-	Product code	e: 11	507519	
		Phase			Catalog # :	10	012ST3QIE4	44T-W22
Frame Insulation class Duty cycle Ambient tempera Altitude Protection degre		: 444/5T : F : Cont.(S1) : -20°C to + : 1000 m.a. : IP55		Mounti Rotatio Startin Approx		: F : E : C : 1	C411 - TEFC -1 Both (CW and Direct On Line 700 lb 17.3 sq.ft.lb	,
Design		: B						
Output [HP] Poles		100	75	75	75	100	100	100
Frequency [Hz]		6 60	6 50	6 50	6 50	6 50	6 50	6 50
Rated voltage [V]		460	380	400	415	380	400	415
Rated current [A]		121	107	104	102	145	139	135
. R. Amperes [A]		714	674	718	755	682	723	770
_RC [A]		5.9x(Code G)			7.4x(Code J)			
No load current [A]	42.0	41.4	44.9	47.7	41.4	44.9	47.7
Rated speed [RPN		1185	985	990	990	980	985	985
Slip [%]		1.25	1.50	1.00	1.00	2.00	1.50	1.50
Rated torque [ft.lb]	443	400	398	398	536	533	533
_ocked rotor torqu		220	229	250	270	170	190	200
Breakdown torque	e [%]	229	250	280	310	180	200	220
Service factor		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	105 K
_ocked rotor time		36s (cold) 20s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)
Noise level ²		69.0 dB(A)	65.0 dB(A)	65.0 dB(A)	65.0 dB(A)	65.0 dB(A)	65.0 dB(A)	65.0 dB(A)
	25%					-		
Efficiency (%)	50%	94.5	93.8	93.8	93.7	94.5	94.5	94.5
(/0)	75%	95.0	94.3	94.6	94.6	94.0	94.5	94.5
	100%	95.0	94.2	94.5	94.6	93.6	94.0	94.0
	25%						0.74	
Power Factor	50%	0.68	0.64	0.60	0.57	0.74	0.71	0.68
	75%	0.78	0.77	0.74	0.71	0.82	0.80	0.78
	100%	0.82	0.83	0.81	0.79	0.84	0.83	0.82
Bearing type Sealing Lubrication inter- Lubricant amour Lubricant type		Drive end : 6319 C3 : Inpro/Se : 13000 h : 45 g : Mobi	3 6316 0 al Inpro/S 1 16000 34 g	C3 Max. tra eal Max. co h	ition loads action ompression		276 lb 977 lb	
Notes			I Polyrex EM					
Notes This revision repl 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 weight subjec ocess.	ncel the previo e shaft end. olerance of +3	us one, which 3dB(A).		are average va supply, subject			
This revision repl must be eliminate (1) Looking the m (2) Measured at ((3) Approximate v manufacturing pro	ed. lotor from the Im and with t weight subjec ocess.	ncel the previo e shaft end. olerance of +3 ct to changes a	us one, which 3dB(A).	power s		to the tolerar		
This revision repl must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate manufacturing pr (4) At 100% of ful Rev.	ed. lotor from the Im and with t weight subjec ocess.	ncel the previo e shaft end. olerance of +3 ct to changes a	us one, which 3dB(A). after	power s	supply, subject	to the tolerar	nces stipulate	d in NEMA
This revision repl must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate manufacturing pro (4) At 100% of ful	ed. lotor from the Im and with t weight subjec ocess.	ncel the previo e shaft end. olerance of +3 ct to changes a	us one, which 3dB(A). after	power s	supply, subject	to the tolerar	nces stipulate	d in NEMA

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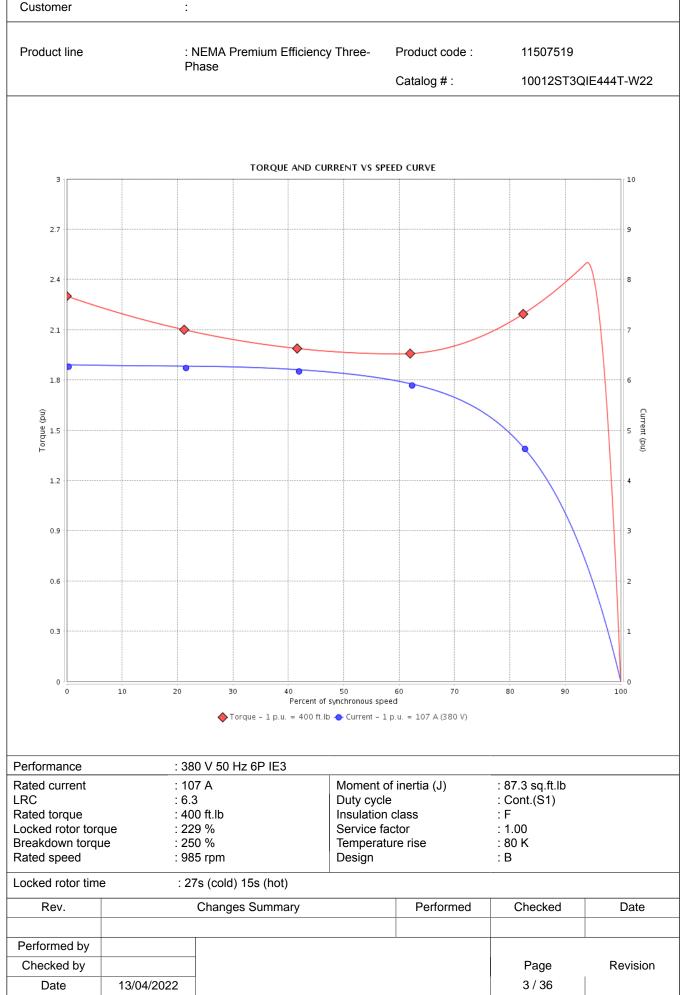
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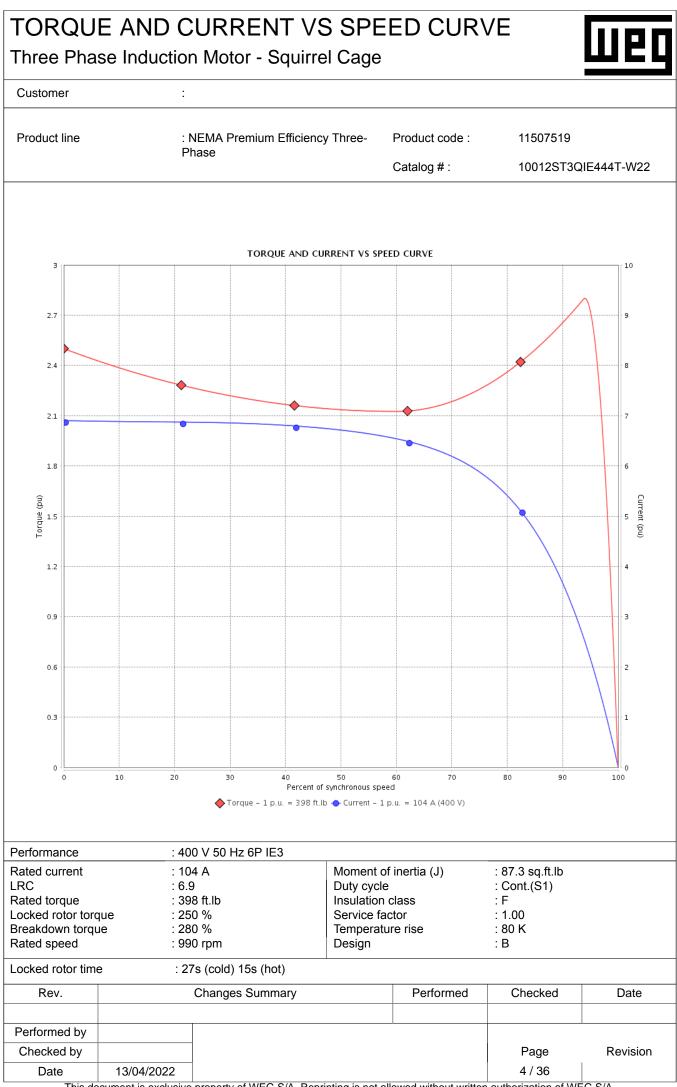
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage





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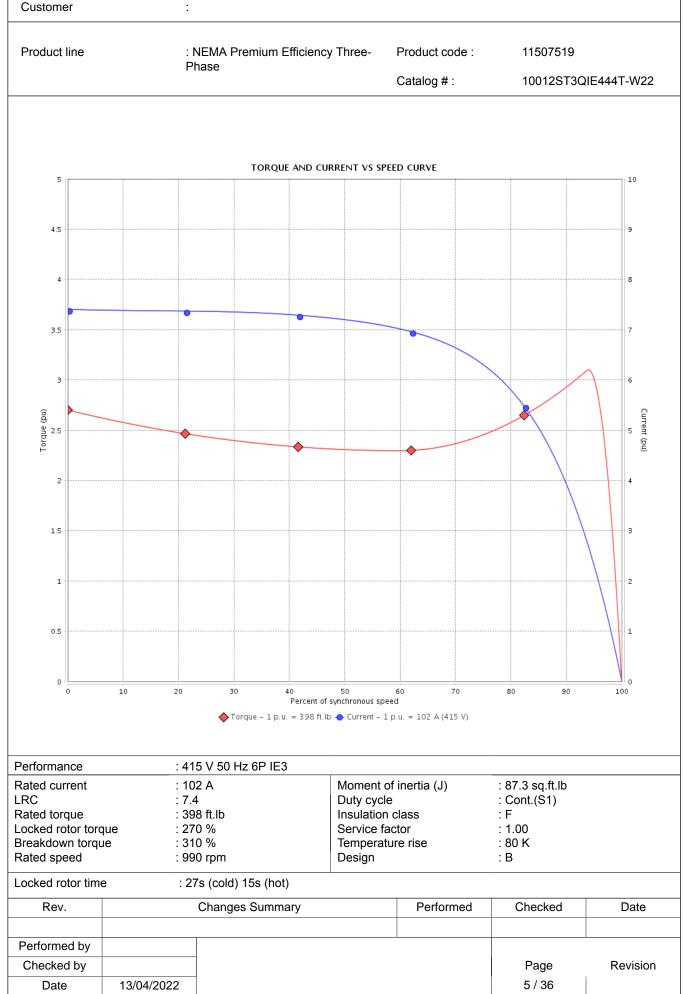


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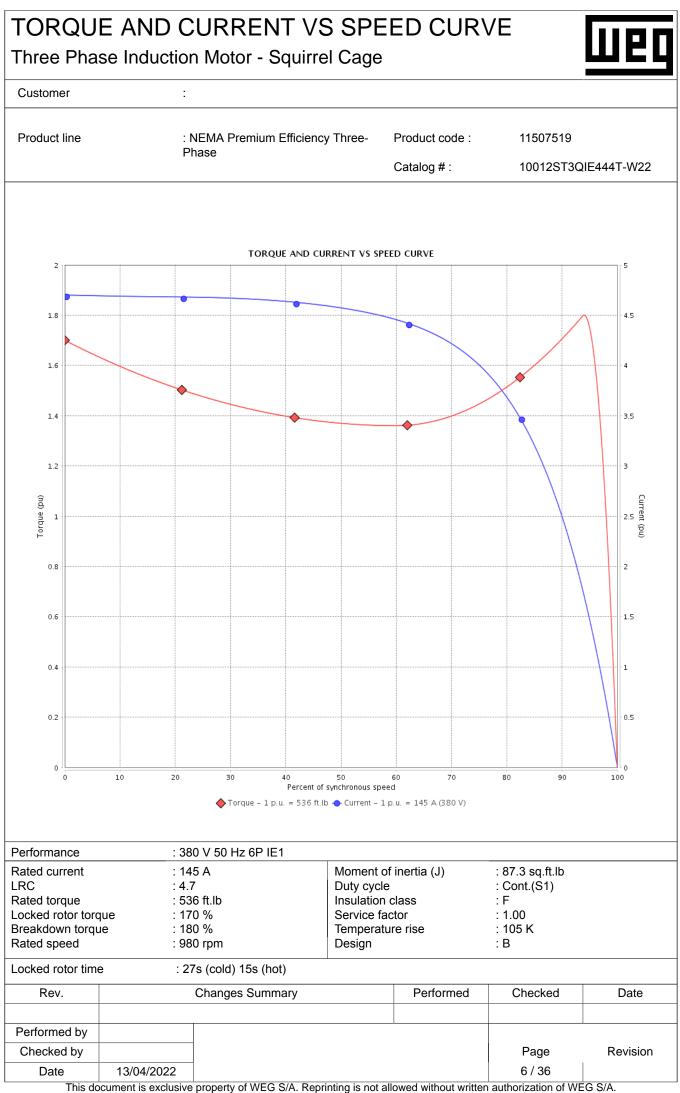
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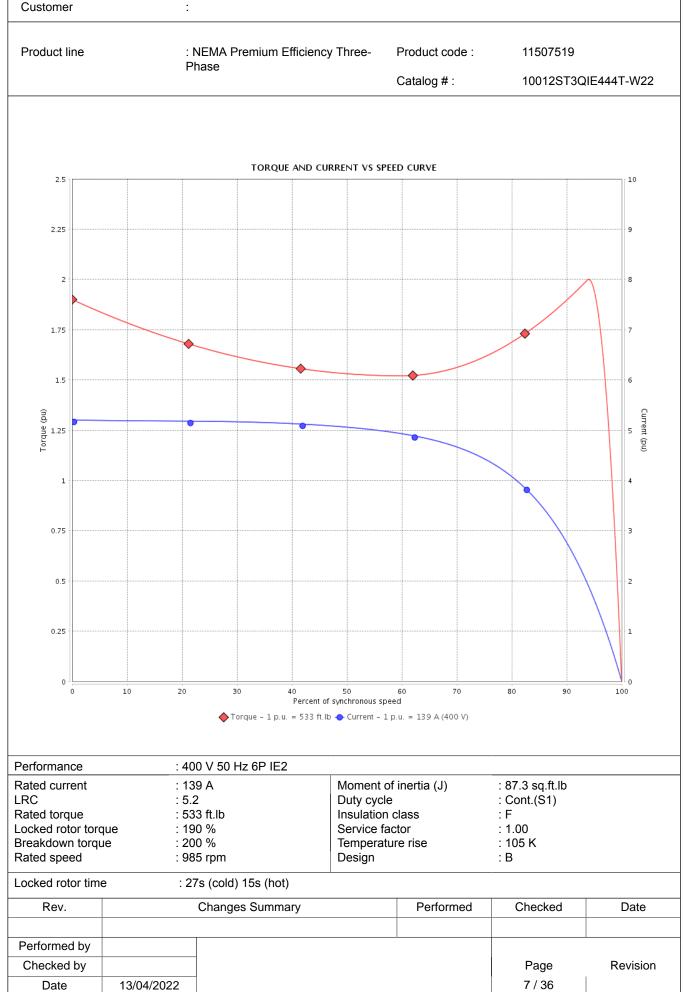


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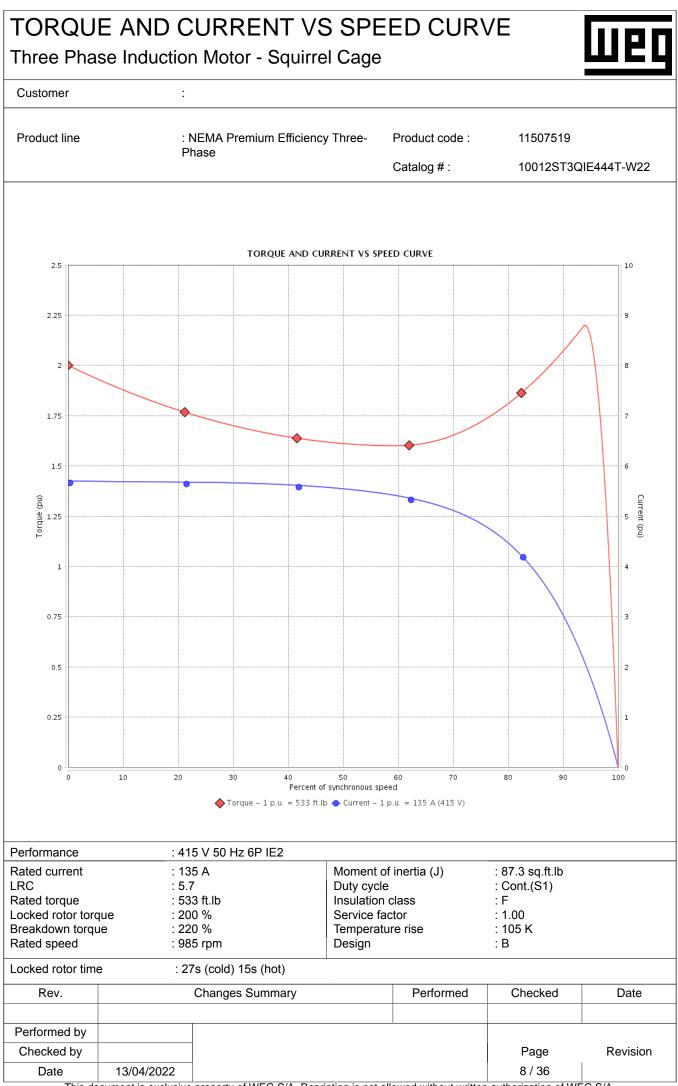
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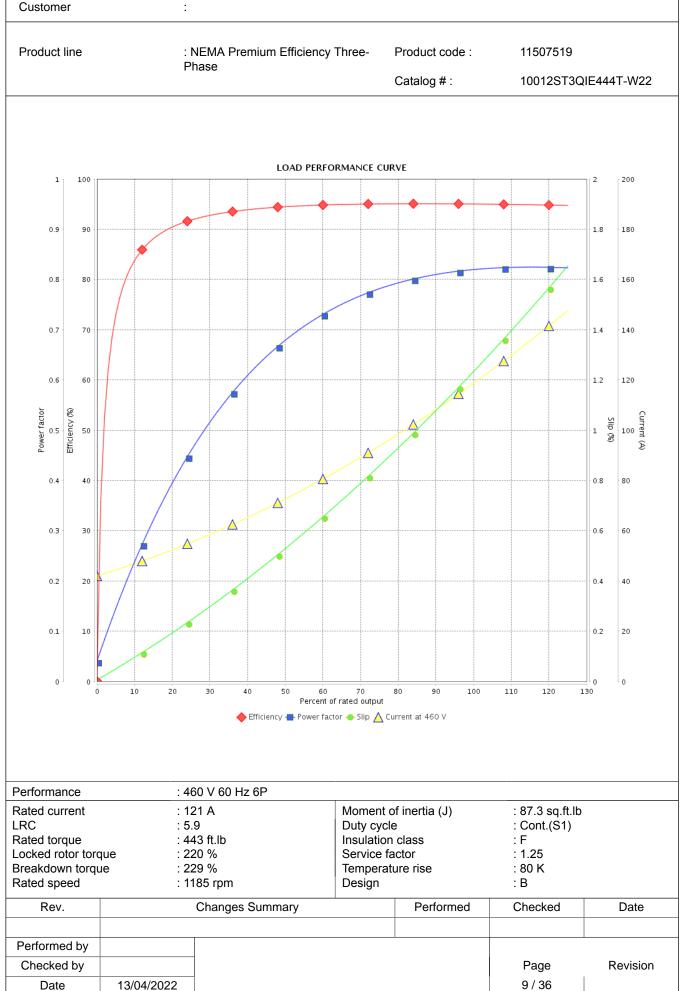


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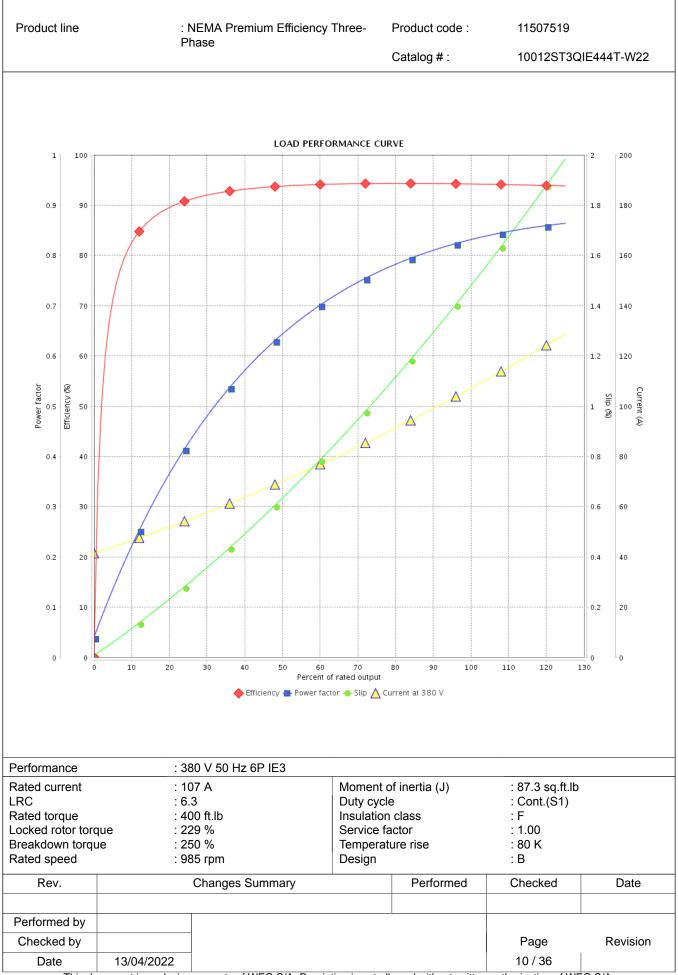
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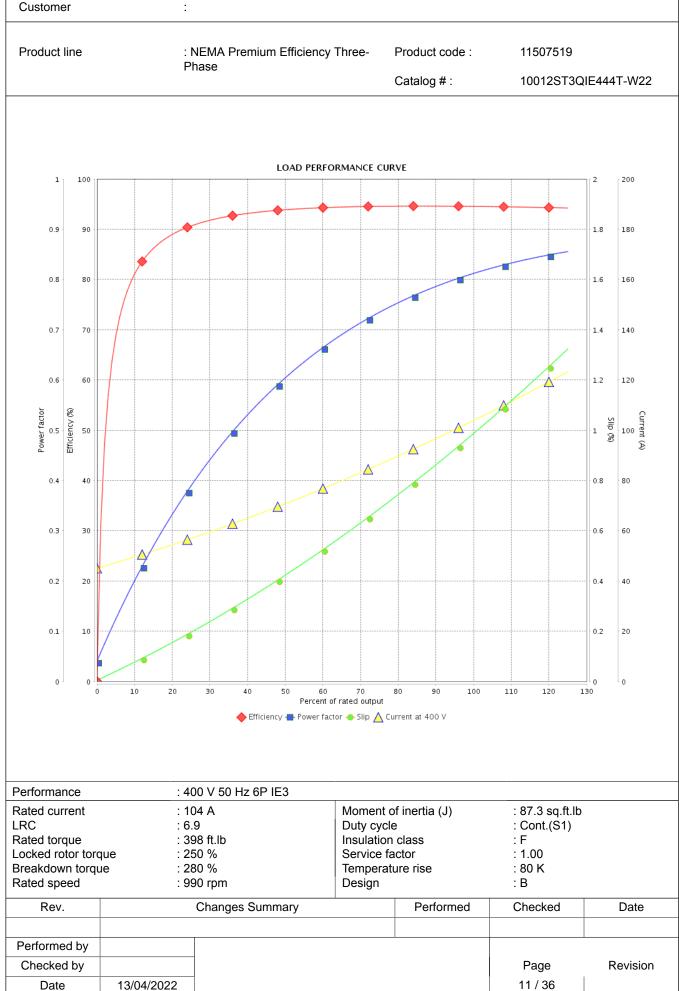


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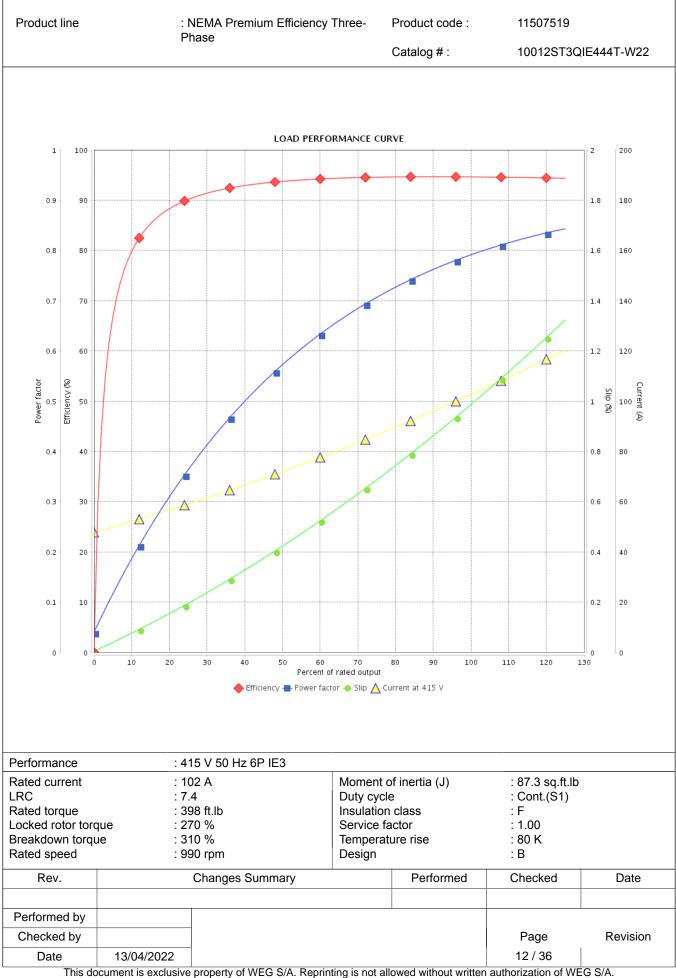
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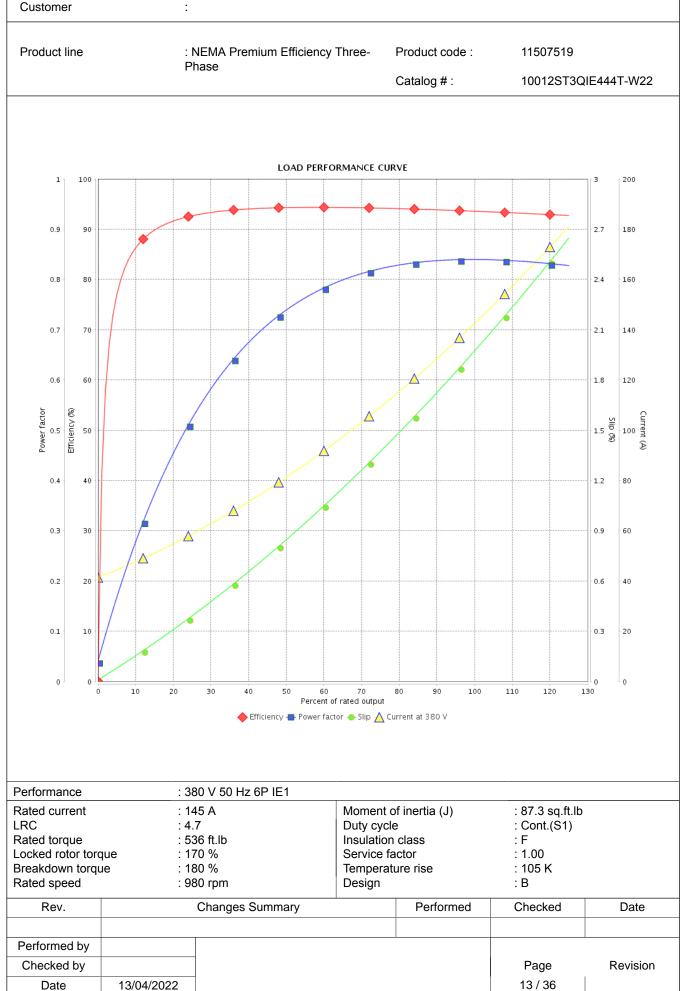


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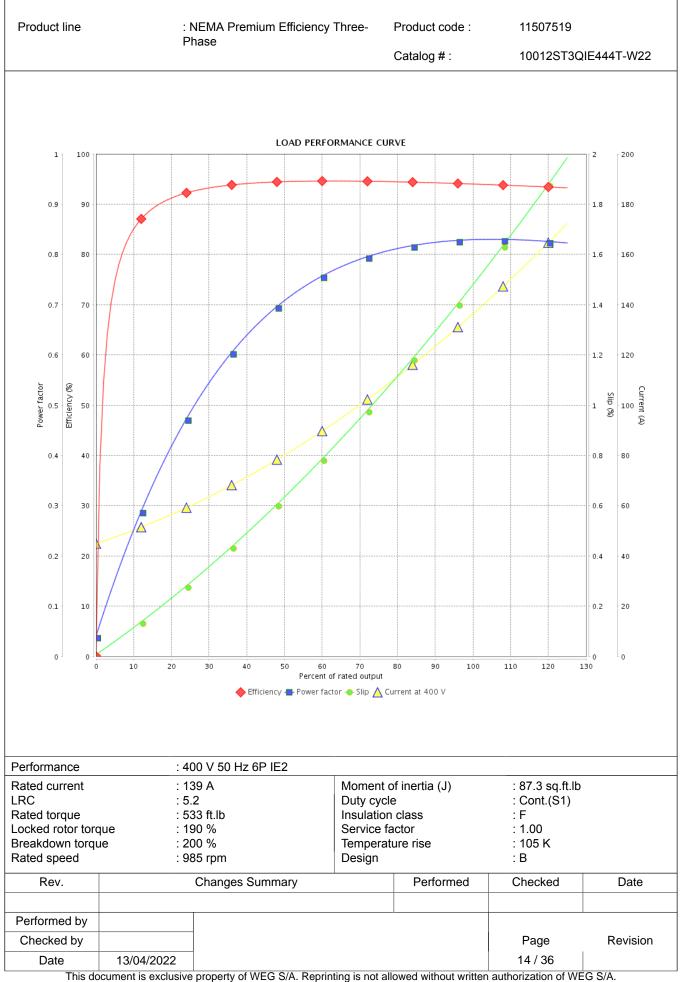
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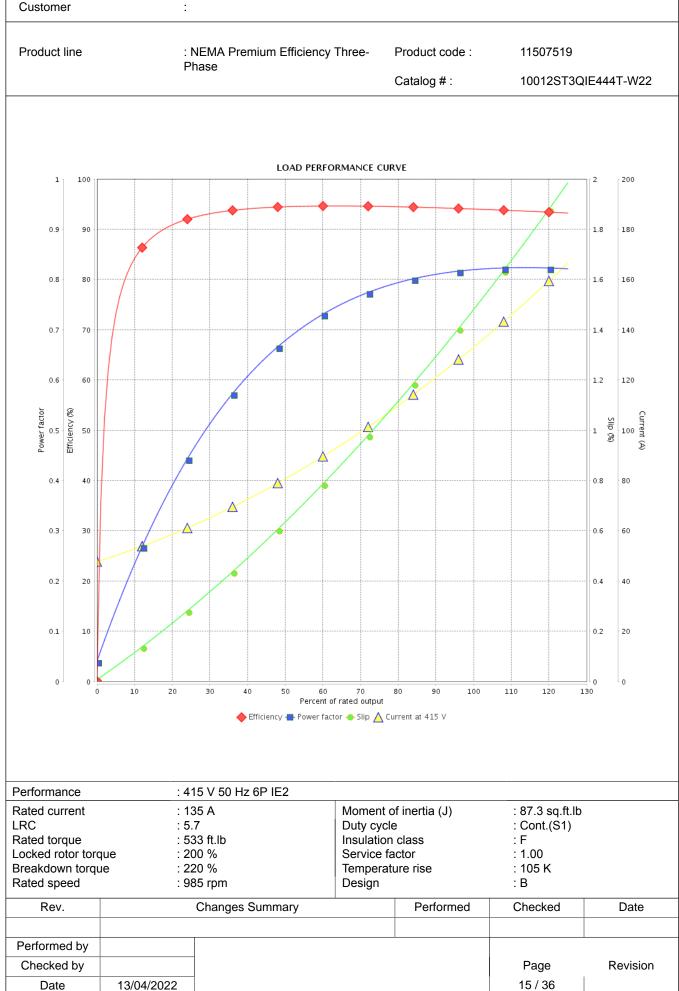


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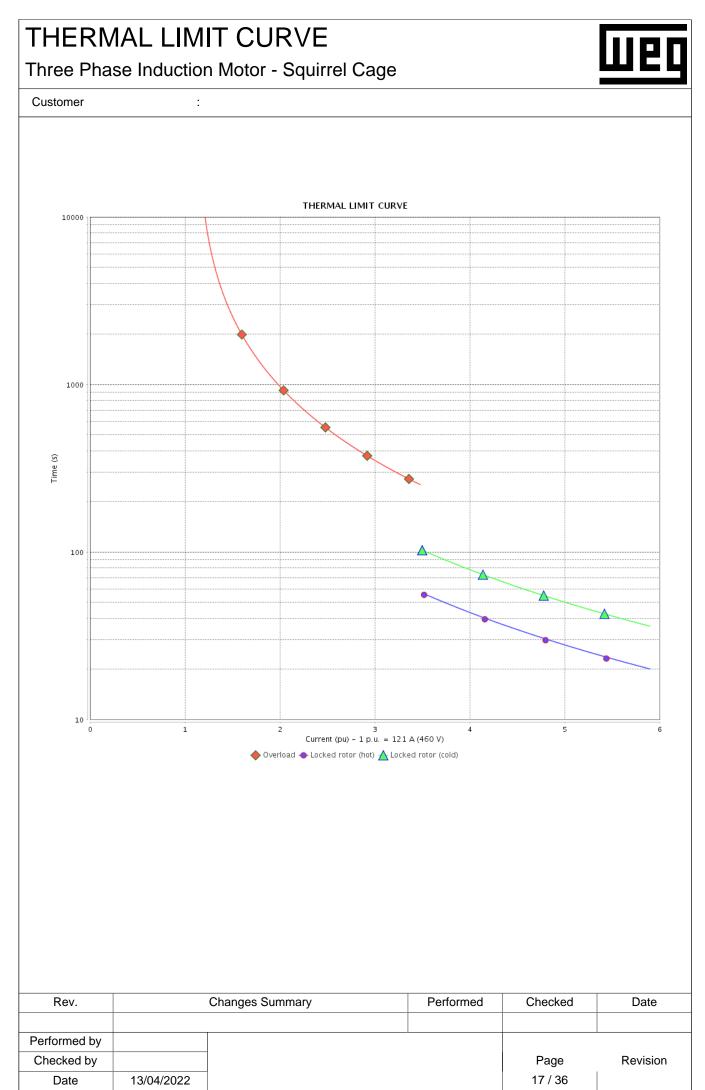
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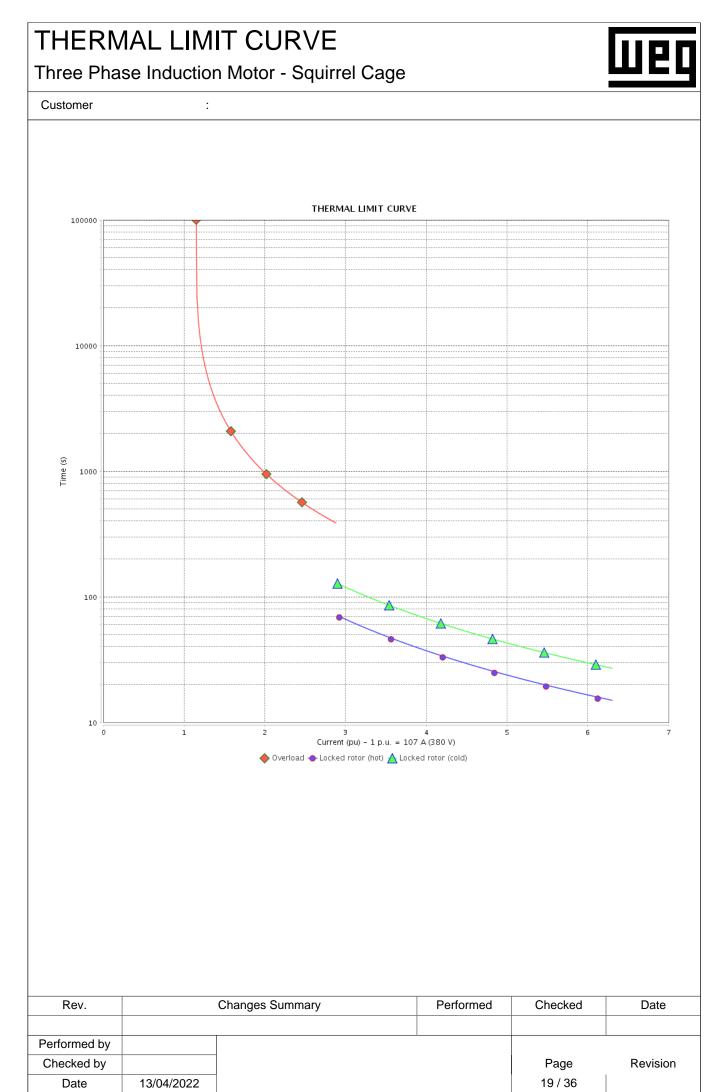
Sustomer	:		
roduct line	: NEMA Premium Efficiency Three- Phase	Product code :	11507519
		Catalog # :	10012ST3QIE444T-W2

Performance		: 460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	que	: 121 A : 5.9 : 443 ft.lb : 220 % : 229 % : 1185 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 87.3 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant	t				·	
Cooling constant	t					
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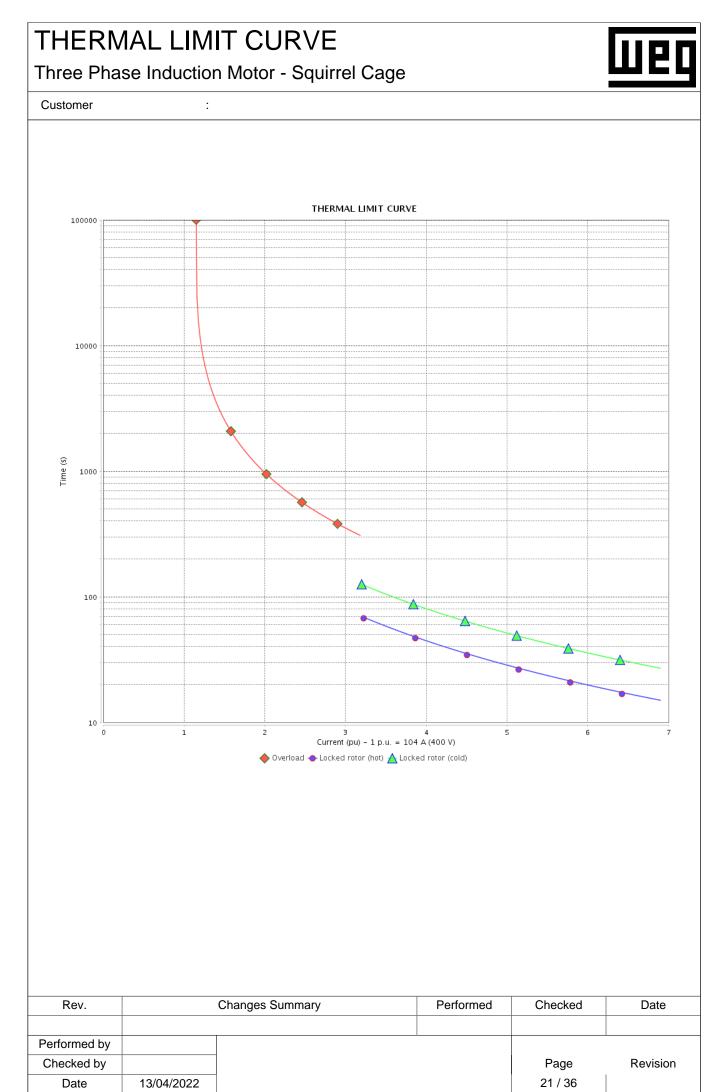
THERMAL LIMIT CURVE						
hree Phase In	duction Motor - Squirrel Cag	е	шс			
Customer	:					
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	11507519			
	FildSe	Catalog # :	10012ST3QIE444T-W22			
erformance	: 380 V 50 Hz 6P IE3					

Performance	: 38	80 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	iue : 22	07 A .3 00 ft.lb 29 % 50 % 85 rpm	Moment o Duty cycle Insulation Service fa Temperate Design	class ctor	: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant	t					
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
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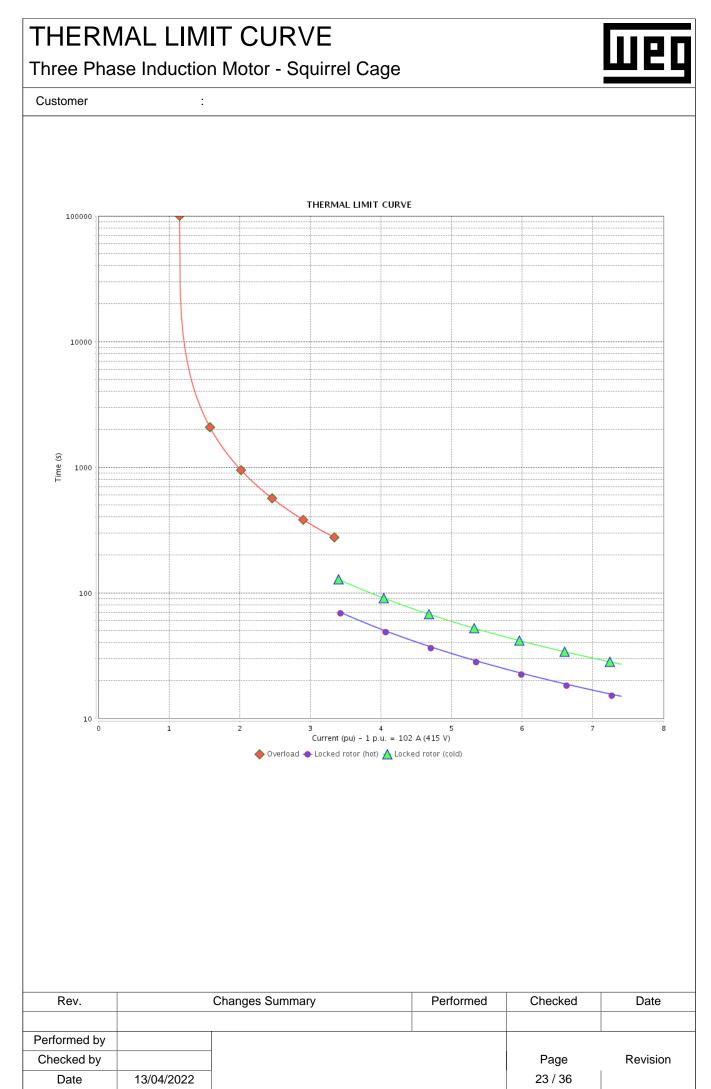
	IMIT CURVE		шер
Customer		; 	
Product line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	11507519 10012ST3QIE444T-W22

Performance	: 40	00 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 6 : 39 que : 29 ue : 29	04 A 9 98 ft.lb 50 % 80 % 90 rpm	Moment o Duty cycle Insulation Service fa Temperate Design	class ctor	: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constan	t					
Cooling constant	t					
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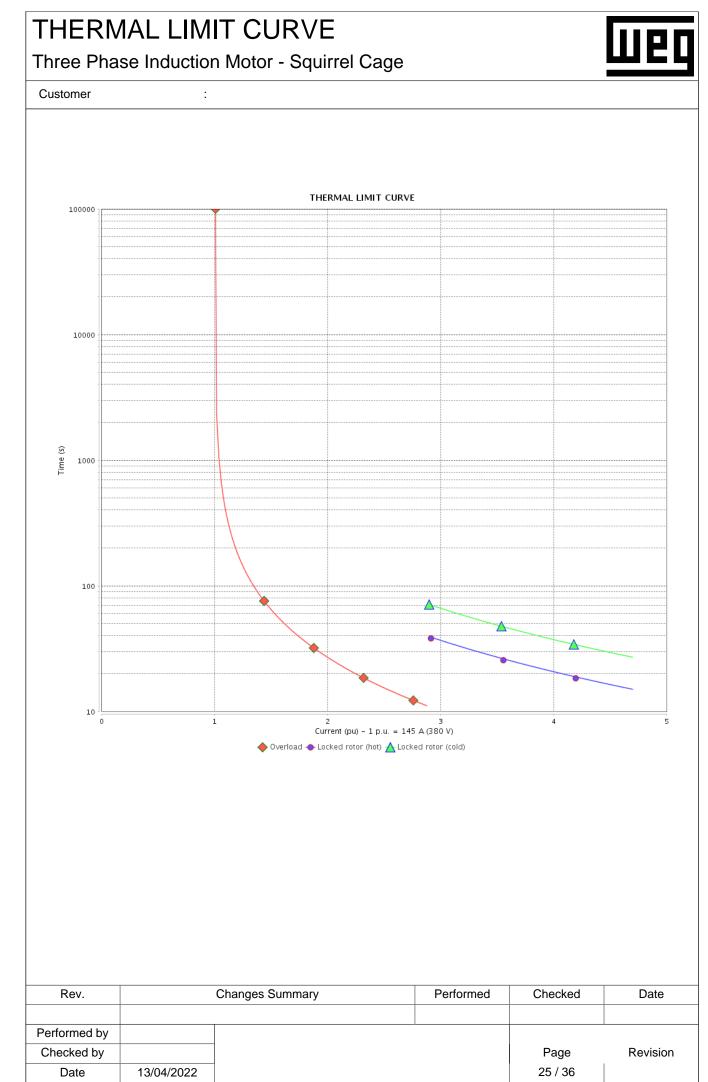
	LIMIT CURVE		
	nduction Motor - Squirrel Cag	е	шед
Customer	:		
Product line	: NEMA Premium Efficiency Three-	Product code :	11507519
	Phase	Catalog # :	10012ST3QIE444T-W22
Performance	: 415 V 50 Hz 6P IE3		
Rated current	: 102 A Mome	ent of inertia (J)	: 87.3 sq.ft.lb

T Chomanee						
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 7 : 3 que : 2 ue : 3	02 A .4 98 ft.lb 70 % 10 % 90 rpm	Moment o Duty cycle Insulation Service fa Temperate Design	class ctor	: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant	t					
Cooling constant	t					
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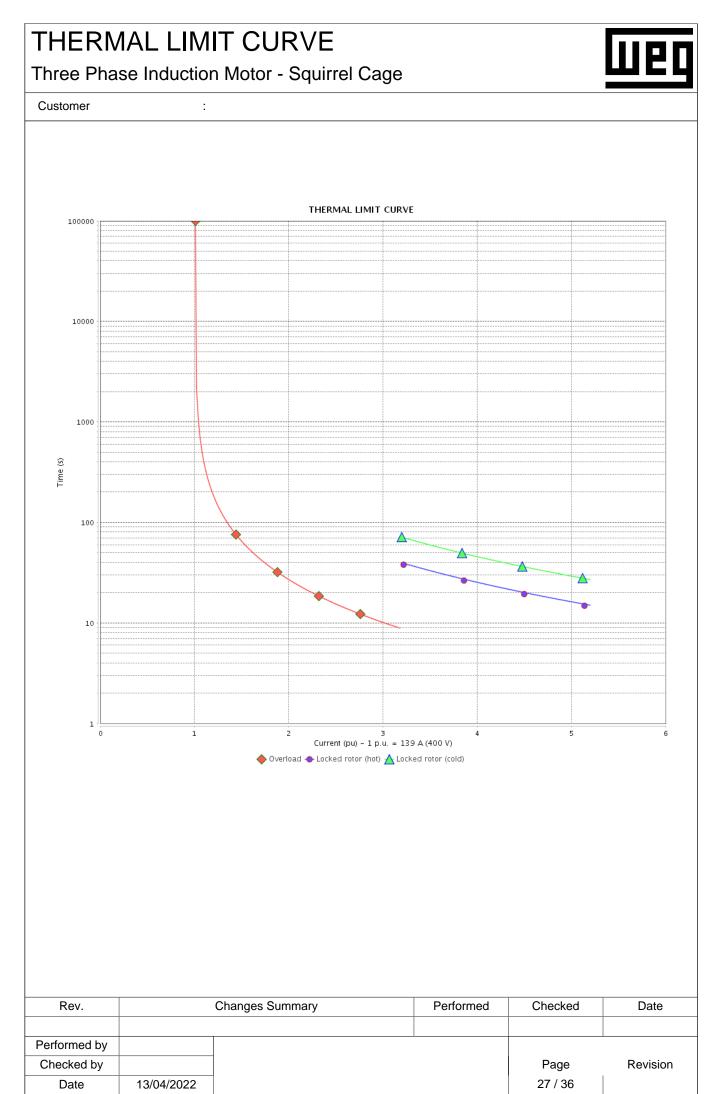
THERMAL	LIMIT CURVE		
	nduction Motor - Squirrel Cag	je	шед
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	11507519 10012ST3QIE444T-W22
Performance	: 380 V 50 Hz 6P IE1		
Rated current		ent of inertia (J)	: 87.3 sq.ft.lb : Cont (S1)

Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 4. : 53 jue : 17 ie : 18	I5 A 7 36 ft.lb 70 % 30 % 30 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant					·	
Cooling constant						
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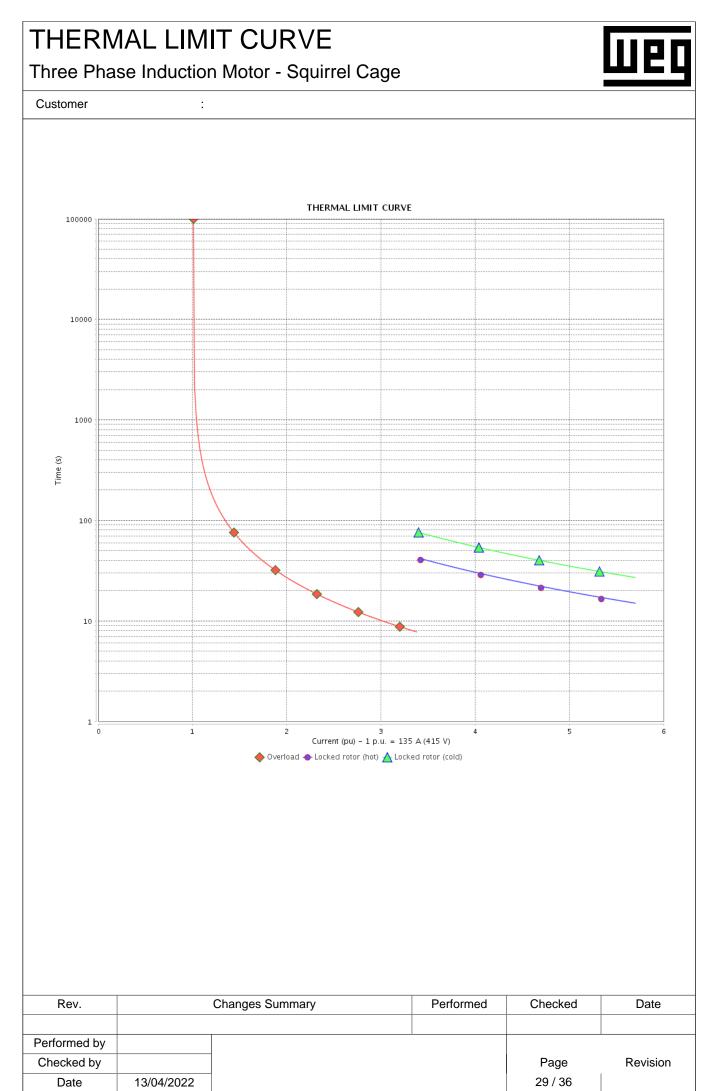
	LIMIT CURVE	Э	Ше
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	11507519 10012ST3QIE444T-W22
erformance	: 400 V 50 Hz 6P IE2		

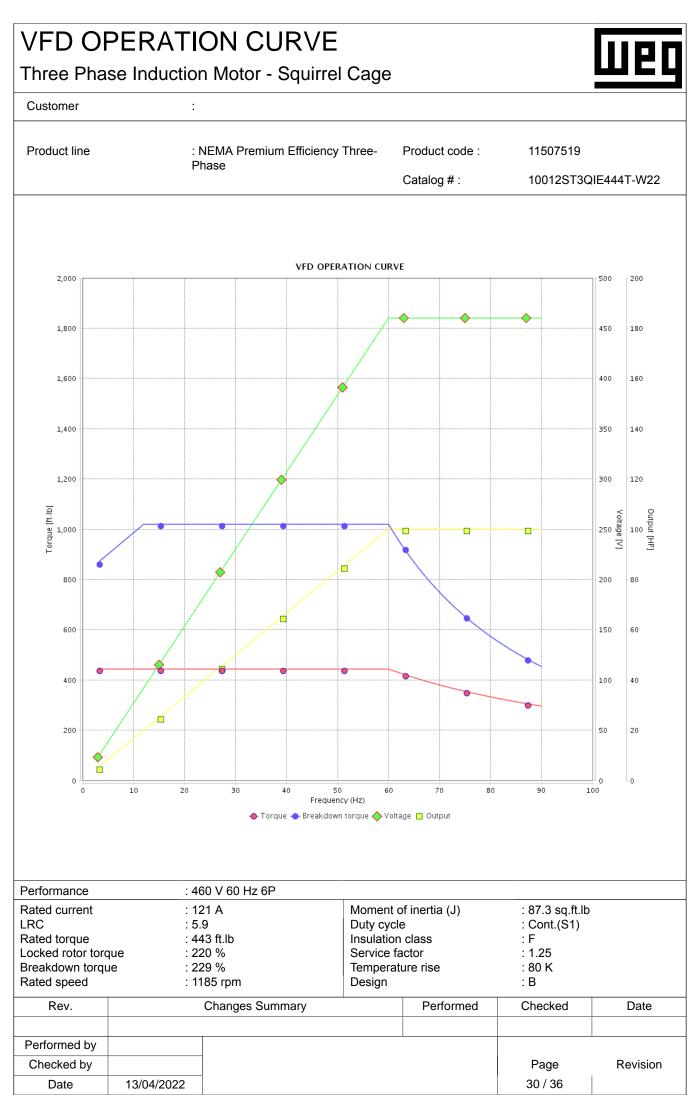
Performance	. 40	00 V 50 HZ 6P IEZ				
Rated current: 139 ALRC: 5.2Rated torque: 533 ft.Locked rotor torque: 190 %Breakdown torque: 200 %Rated speed: 985 rp		2 33 ft.lb 90 % 00 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant	t					
Cooling constant	t					
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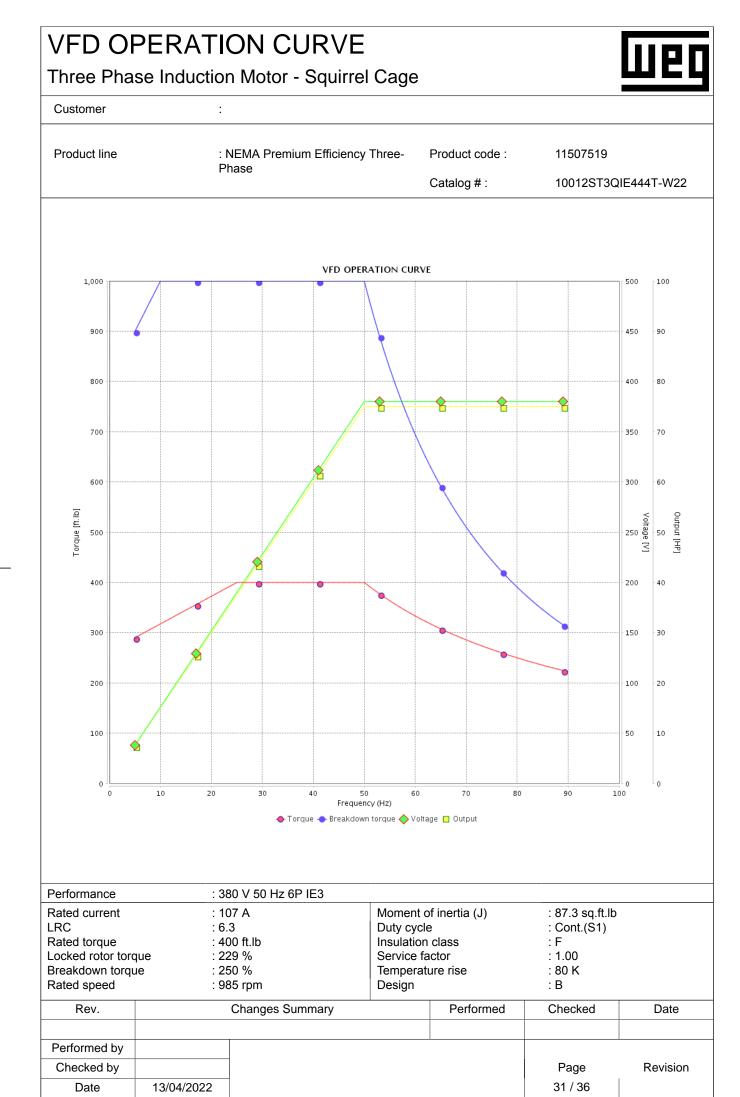


	LIMIT CURVE uction Motor - Squirrel Cage	à	шер
Customer	:	-	
Product line	: NEMA Premium Efficiency Three-	Product code :	11507519
	Phase	Catalog # :	10012ST3QIE444T-W22
Performance	: 415 V 50 Hz 6P IE2		
Rated current		nt of inertia (.I)	· 87 3 sq ft lb

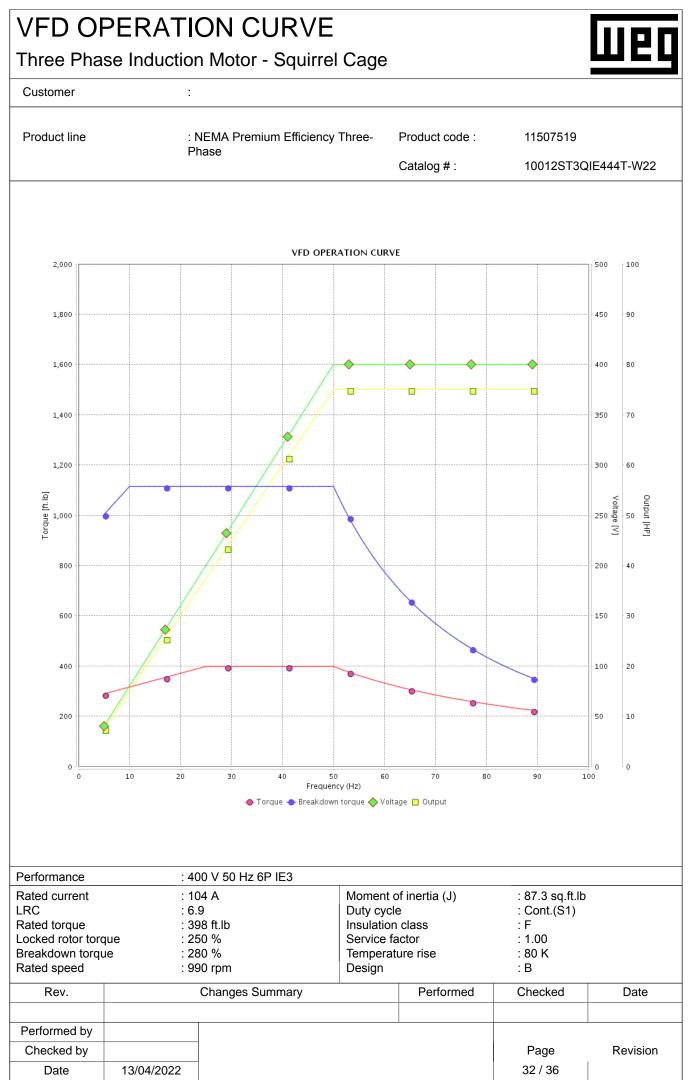
Performance	. 4	15 V 50 HZ 6P IEZ				
Rated current: 13LRC: 55Rated torque: 55Locked rotor torque: 20Breakdown torque: 22		35 A .7 33 ft.lb 00 % 20 % 85 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 87.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant	t					
Cooling constant	:					
Rev.	Changes Summary			Performed	Checked	Date
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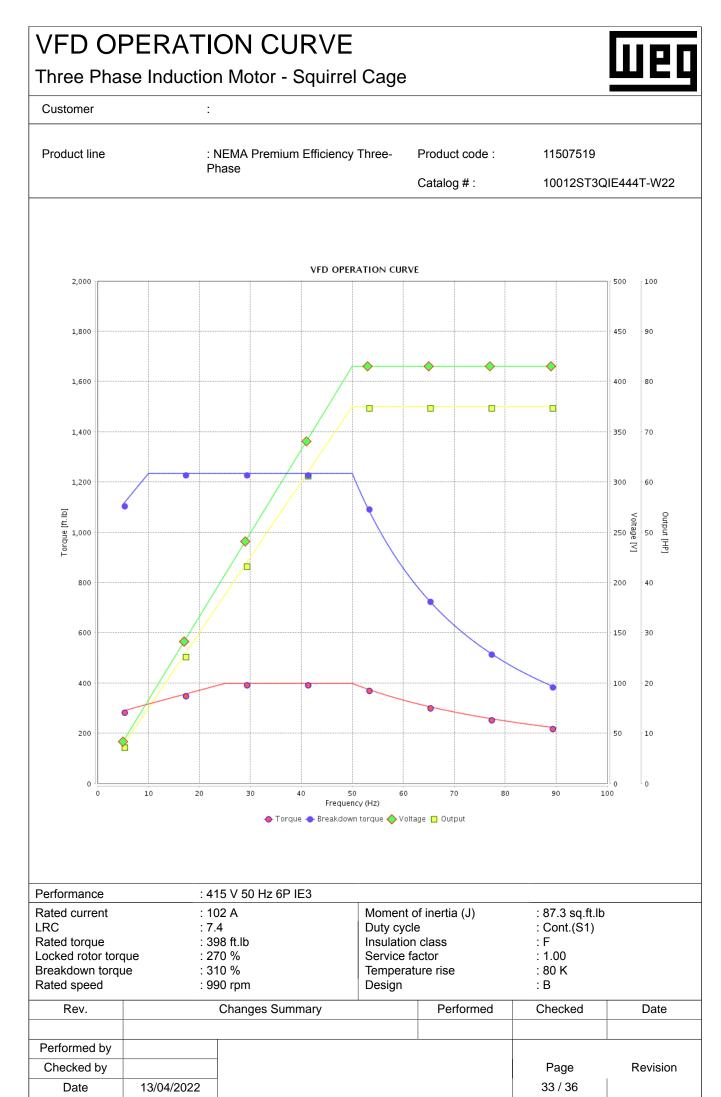


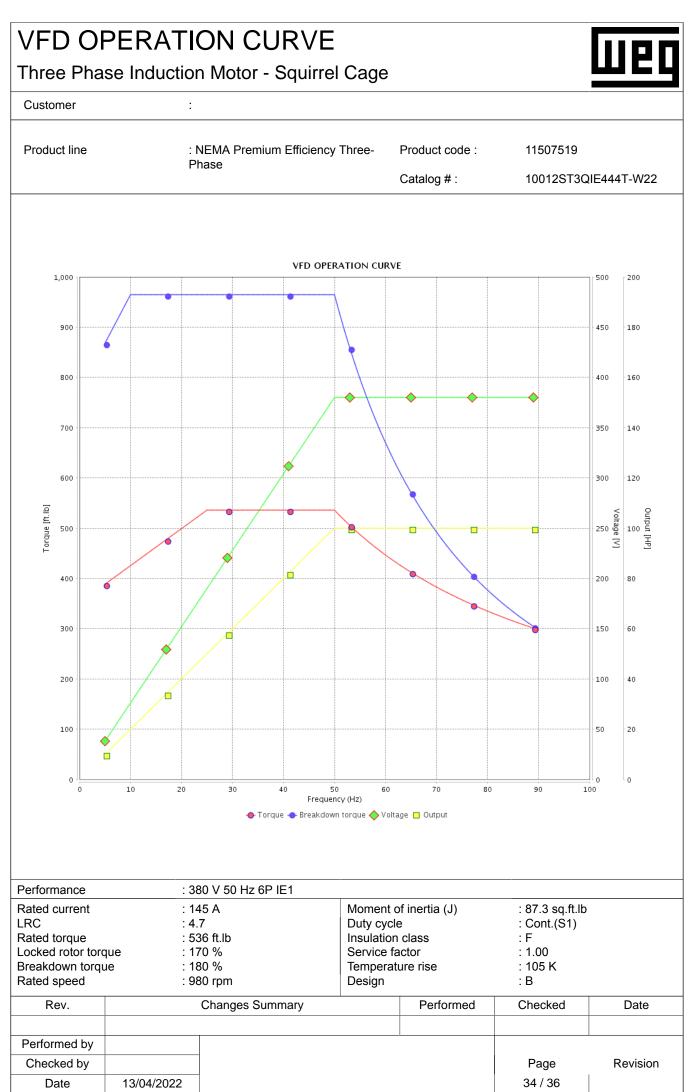


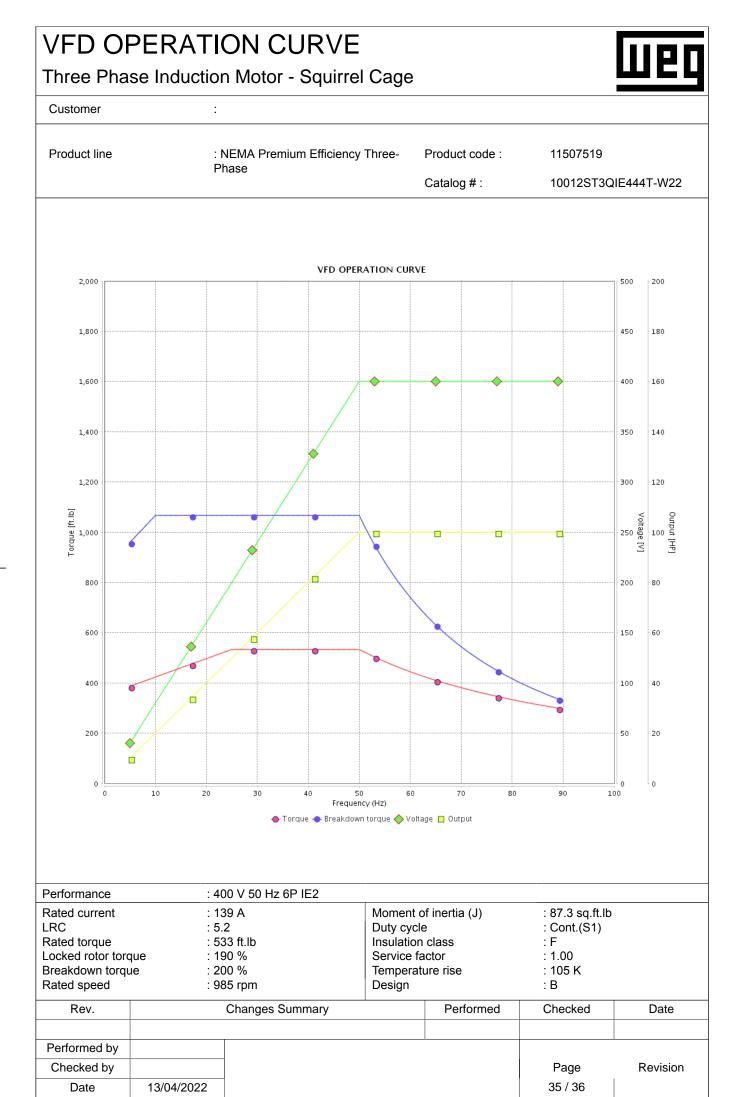


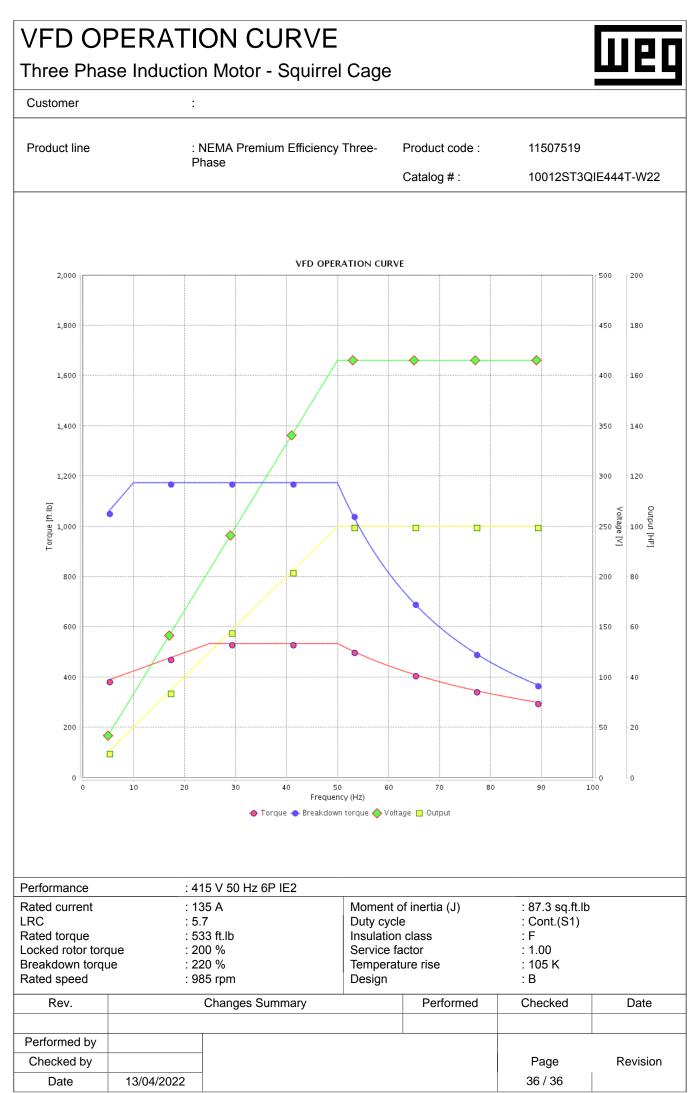
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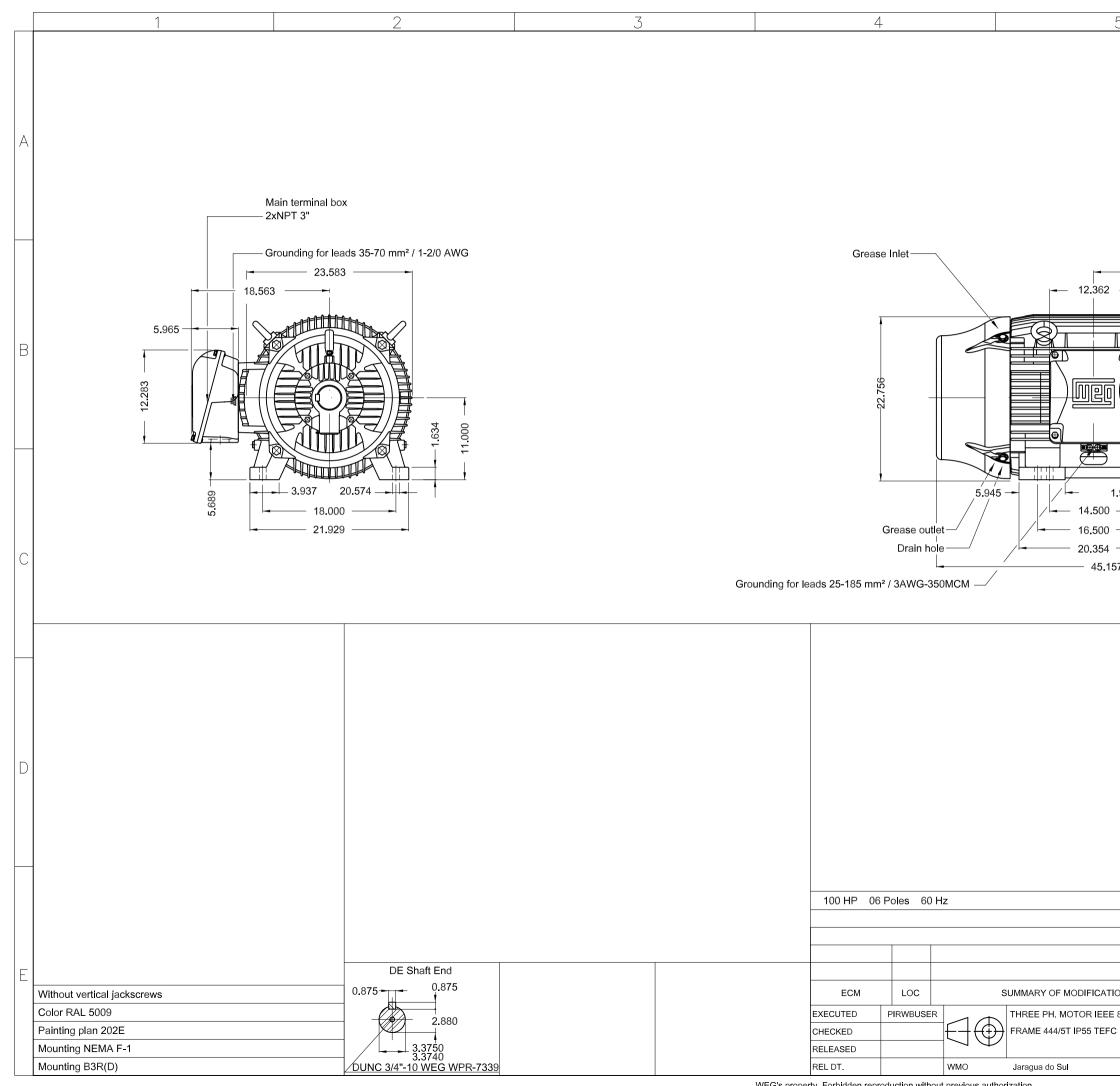












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