# DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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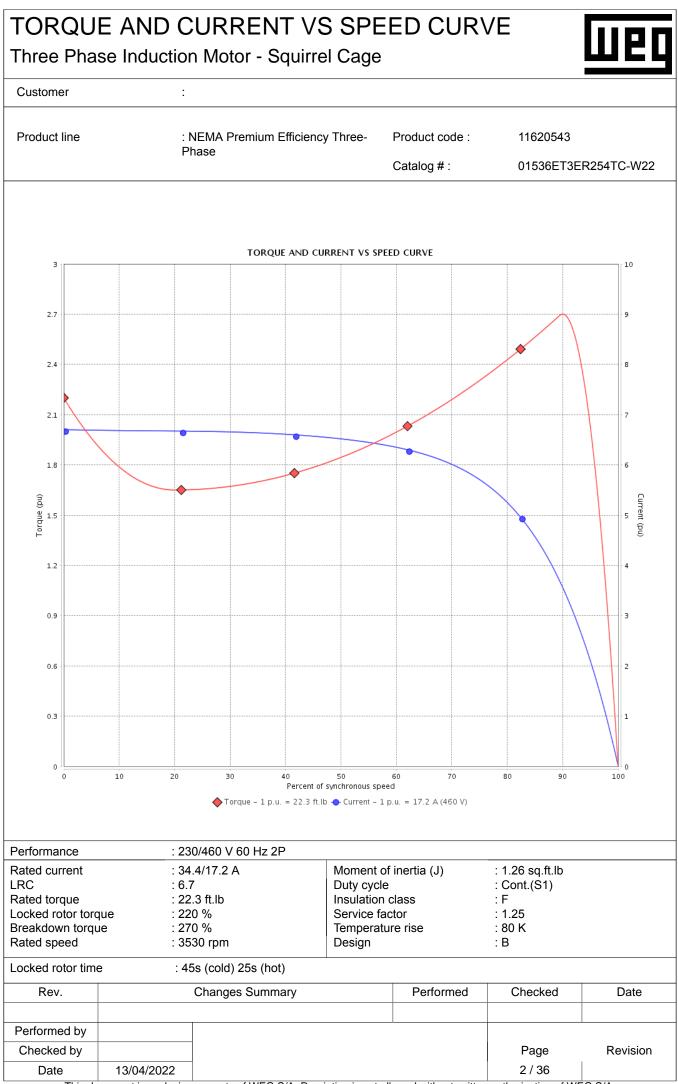
#### Customer

		: NEMA Premium Efficiency Three- Phase			Product code :		11620543		
		FIIdSE	Catalog # :		01	01536ET3ER254TC-W22			
Frame Insulation class Duty cycle		: 254TC : F : Cont.(S1)		Mounti Rotatio	on <sup>1</sup>	: V : E	C411 - TEFC V-6 Both (CW and		
Ambient tempera Altitude Protection degre Design		: -20°C to + : 1000 m.a.: : IP55 : B		Approx	g method weight³ nt of inertia (J)	method : Direct On Line weight <sup>3</sup> : 271 lb			
Output [HP] Poles		15 2	10 2	10	10 2	15 2	15 2	15 2	
Frequency [Hz]		60	 50	50	50	50	50	50	
Rated voltage [V]		230/460	380	400	415	380	400	415	
Rated current [A]		34.4/17.2	14.5	14.0	13.7	20.7	19.6	19.1	
. R. Amperes [A]		230/115	98.6	105	108	101	108	113	
_RC [A]		6.7x(Code G)	6.8x(Code H)	7.5x(Code J)	7.9x(Code J)	4.9x(Code D)	5.5x(Code E)	5.9x(Code l	
No load current [A		10.6/5.30	5.10	5.40	5.70	5.10	5.40	5.70	
Rated speed [RPN	/]	3530	2945	2950	2955	2910	2920	2925	
Slip [%]	-	1.94	1.83	1.67	1.50	3.00	2.67	2.50	
Rated torque [ft.lb		22.3	17.8	17.8	17.8	27.1	27.0	26.9	
ocked rotor torqu		220	200	229	250	170	190	210	
Breakdown torque	e [%]	270	310	350	380	200	229	240	
Service factor		1.25	1.25	1.25	1.25	1.00	1.00	1.15	
Temperature rise Locked rotor time		80 K 45s (cold)	80 K 55s (cold)	80 K 50s (cold)	80 K 46s (cold)	80 K 36s (cold)	80 K 36s (cold)	80 K 36s (cold)	
Noise level <sup>2</sup>		25s (hot) 72.0 dB(A)	31s (hot) 67.0 dB(A)	28s (hot) 67.0 dB(A)	26s (hot) 67.0 dB(A)	20s (hot) 67.0 dB(A)	20s (hot) 67.0 dB(A)	20s (hot) 67.0 dB(A	
	25%	89.2	90.1	89.9	89.7	89.8	90.0	90.7	
Efficiency (%)	50%	89.5	90.3	90.1	89.9	89.5	90.2	90.2	
	75%	91.0	90.5	90.7	90.8	90.2	90.2	91.0	
	100%	91.0	90.5	90.7	90.8	89.5	90.2	90.2	
	25%	0.53	0.48	0.44	0.42	0.60	0.57	0.54	
Power Factor	50%	0.77	0.73	0.69	0.67	0.83	0.81	0.79	
Power Factor	75%	0.85	0.83	0.80	0.78	0.88	0.87	0.86	
	100%	0.88	0.87	0.85	0.84	0.90	0.90	0.89	
Bearing type		<u>Drive end</u> : 6309 C3	6209 (	C3 Max. tra			74 lb		
Sealing Lubrication inter Lubricant amour Lubricant type		: V'Ring : 9000 h : 13 g	V'Rin 11000 9 g I Polyrex EM	•	ompression	: 44	: 445 lb		
Notes USABLE @208V		.15 SFA 43.7A							
This revision repl must be eliminate (1) Looking the m (2) Measured at (3) Approximate manufacturing pr (4) At 100% of fu	ed. notor from the 1m and with t weight subjee ocess.	e shaft end. tolerance of +3	8dB(A).		are average va supply, subject				
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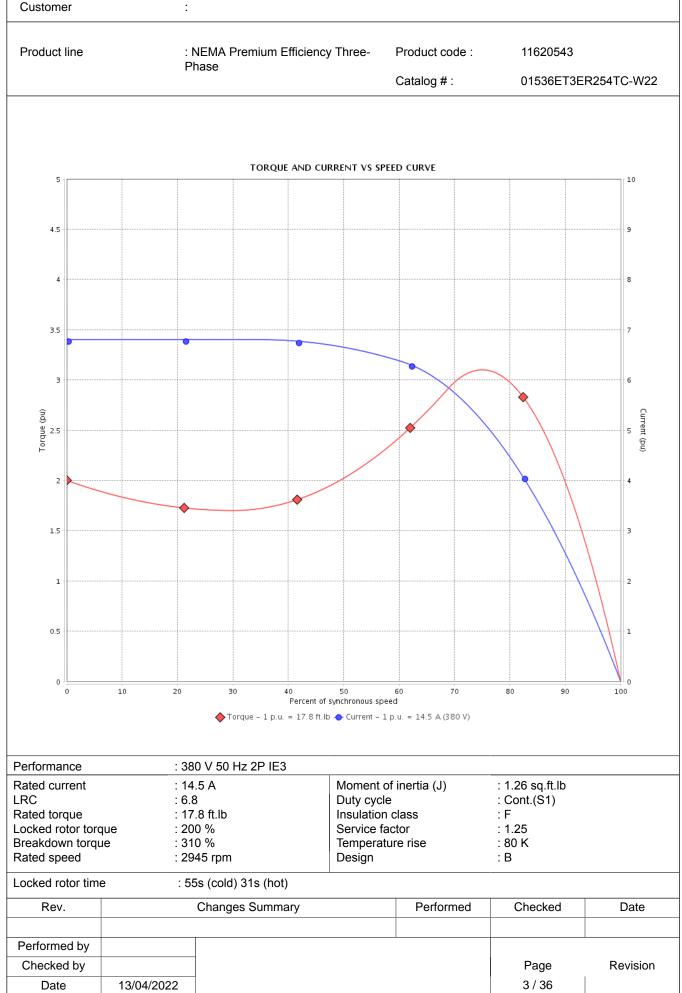
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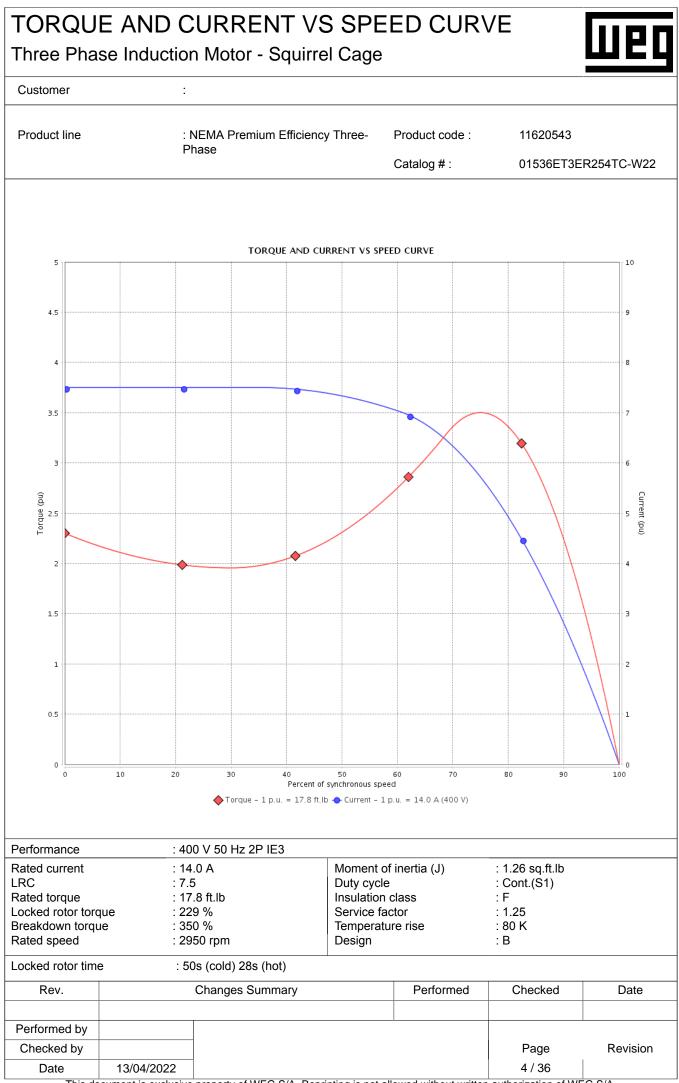
#### TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



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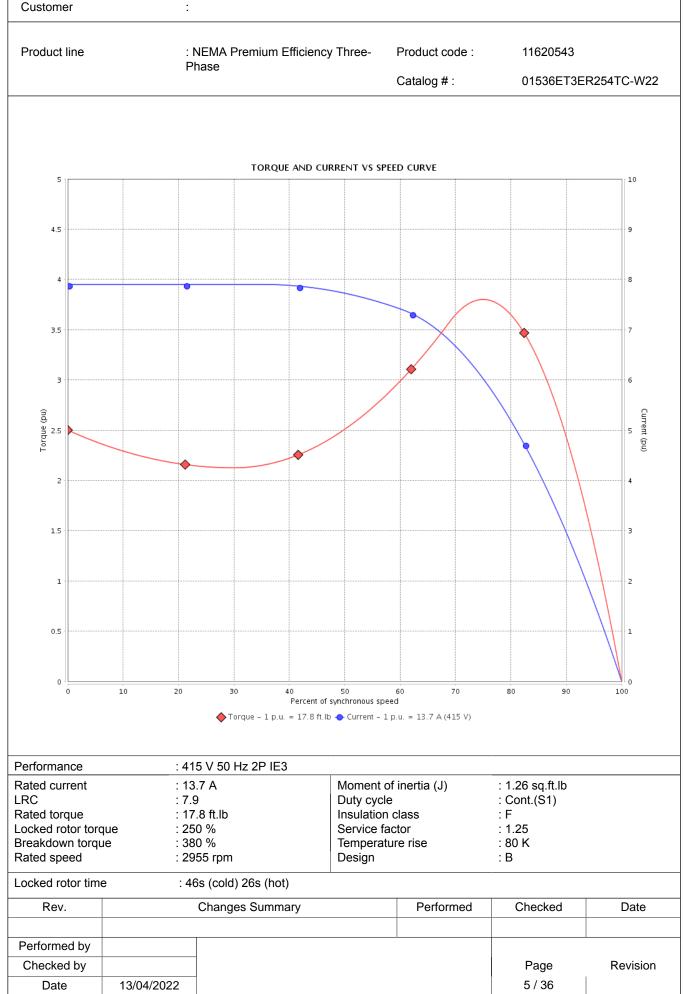


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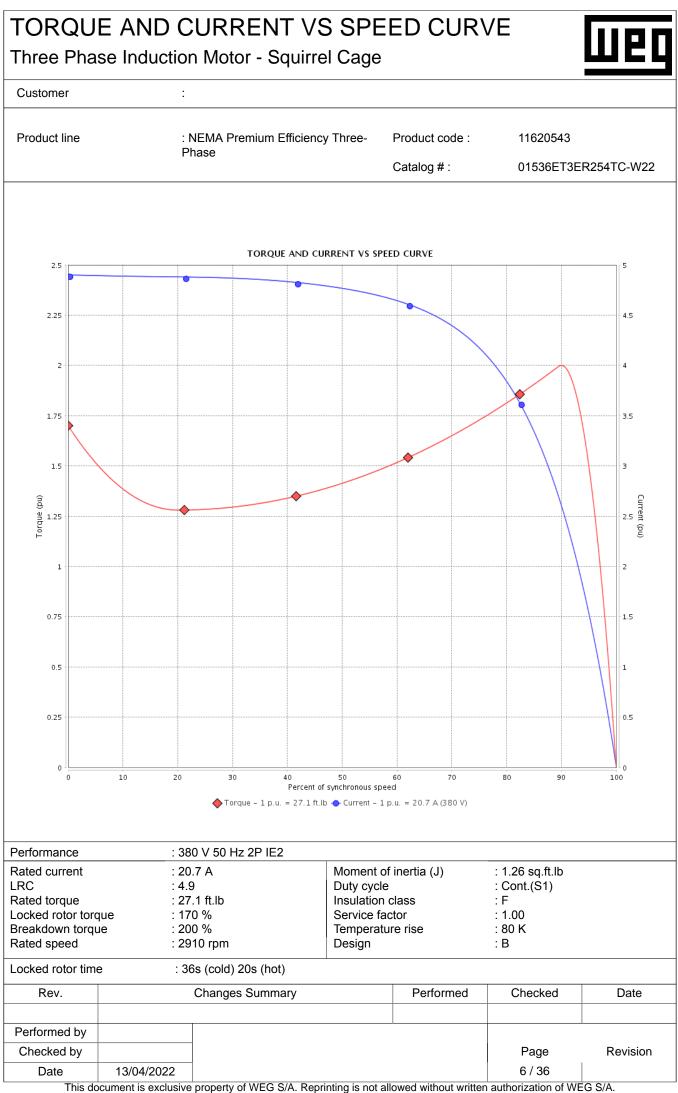
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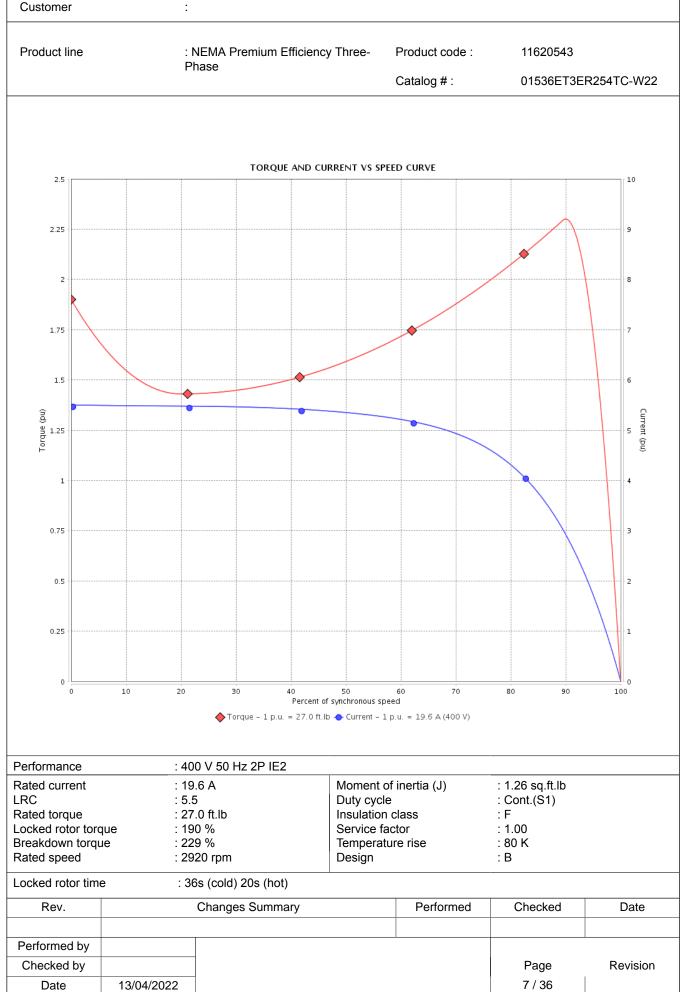
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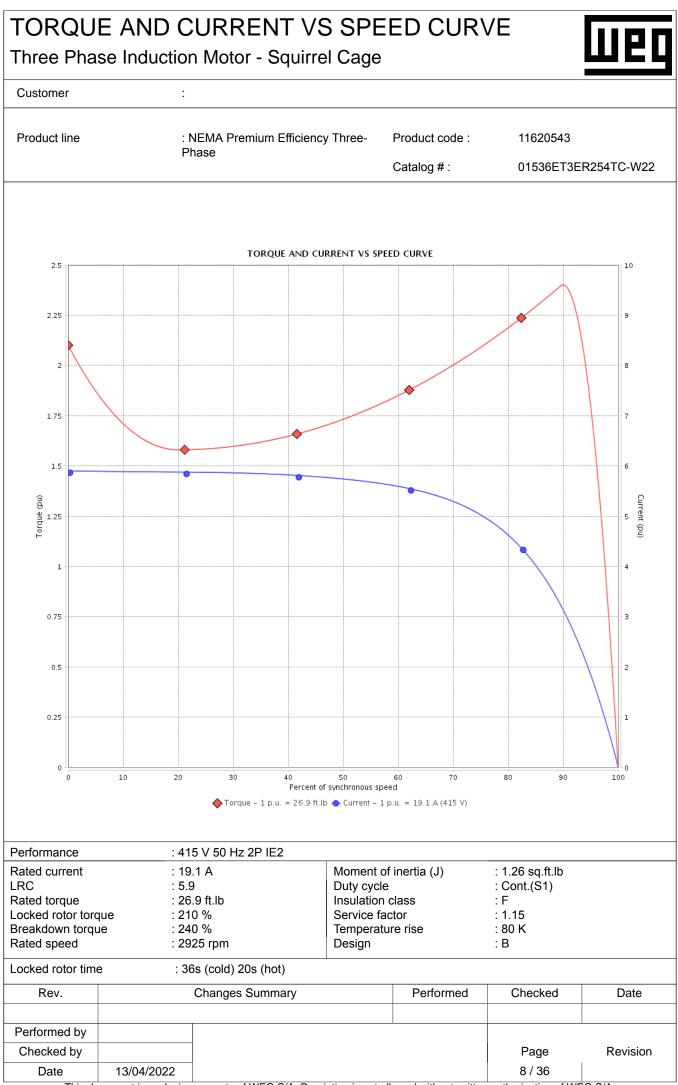
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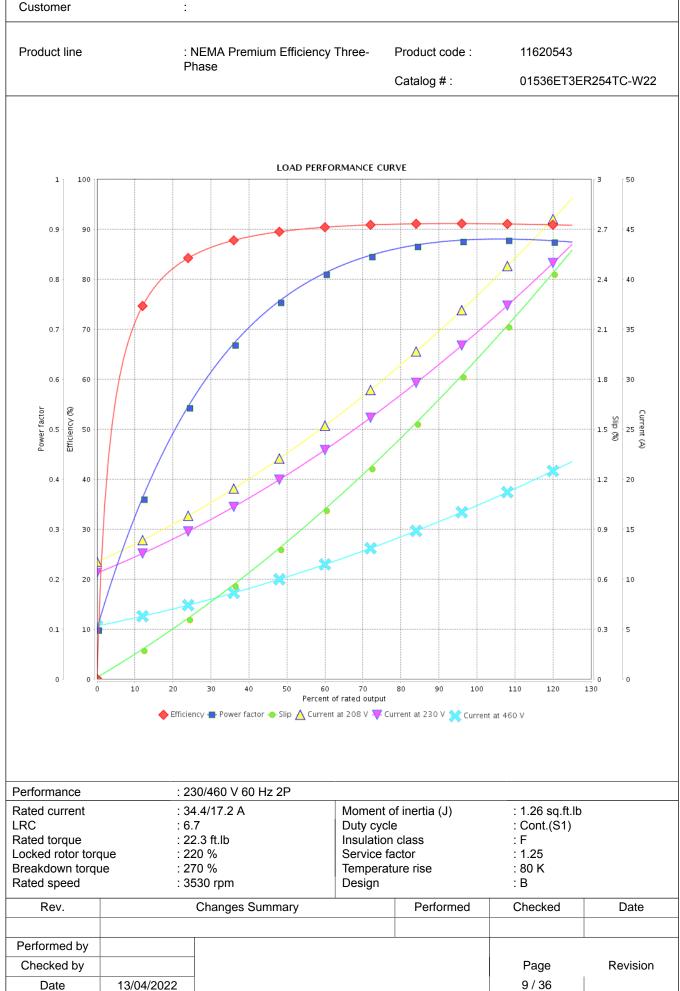
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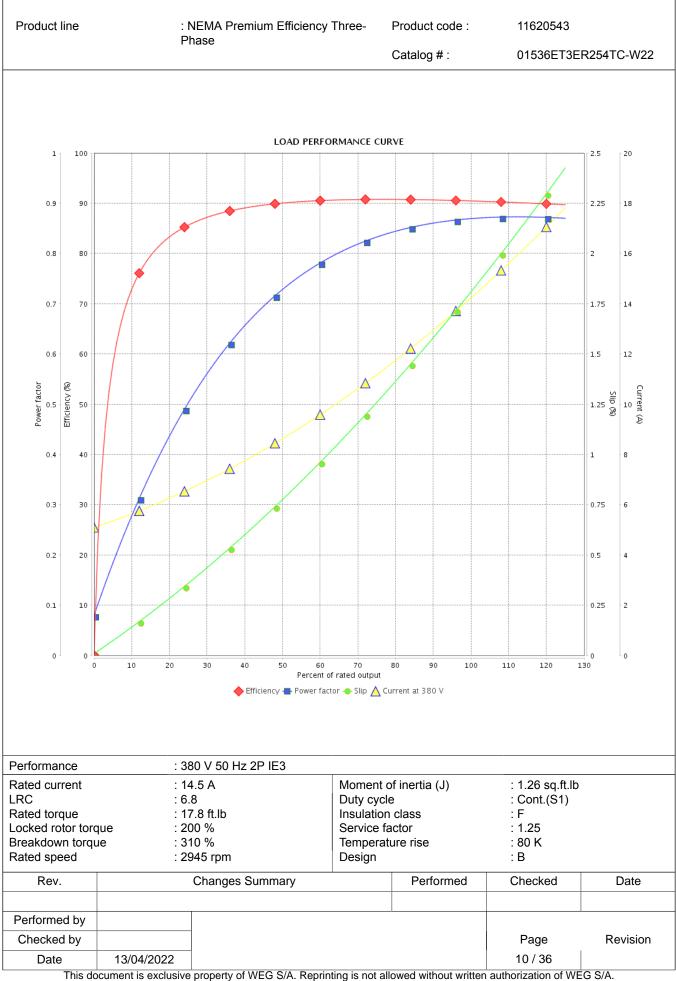
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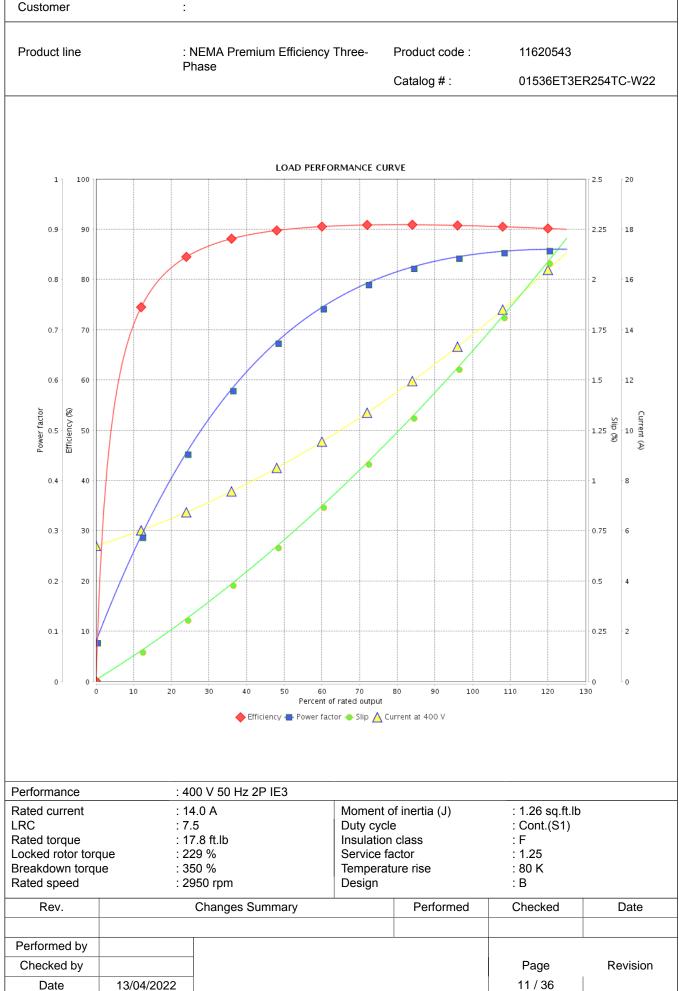


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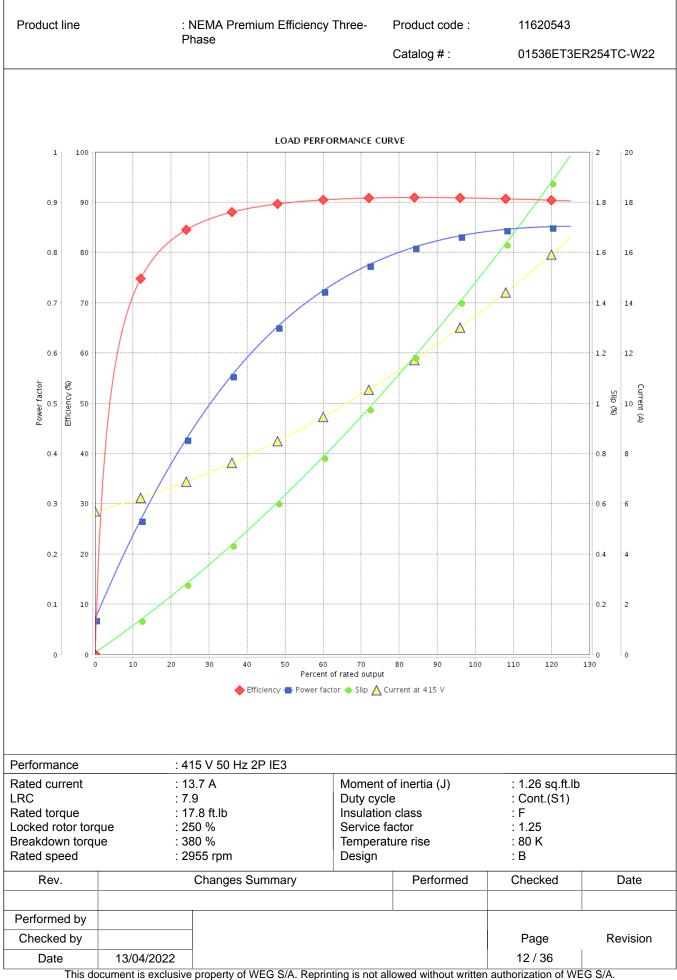
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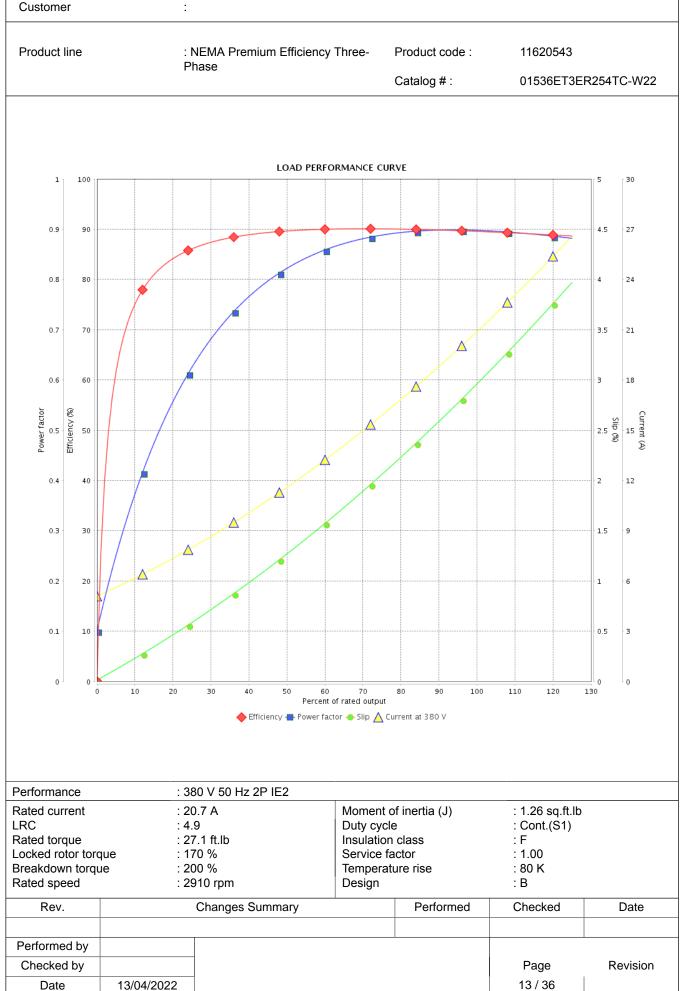


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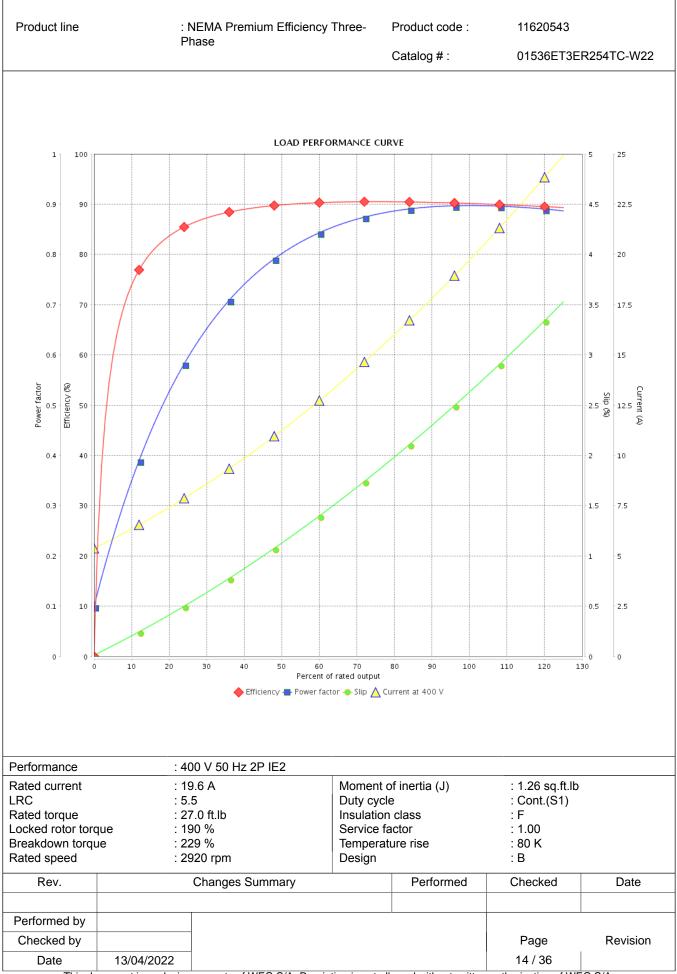
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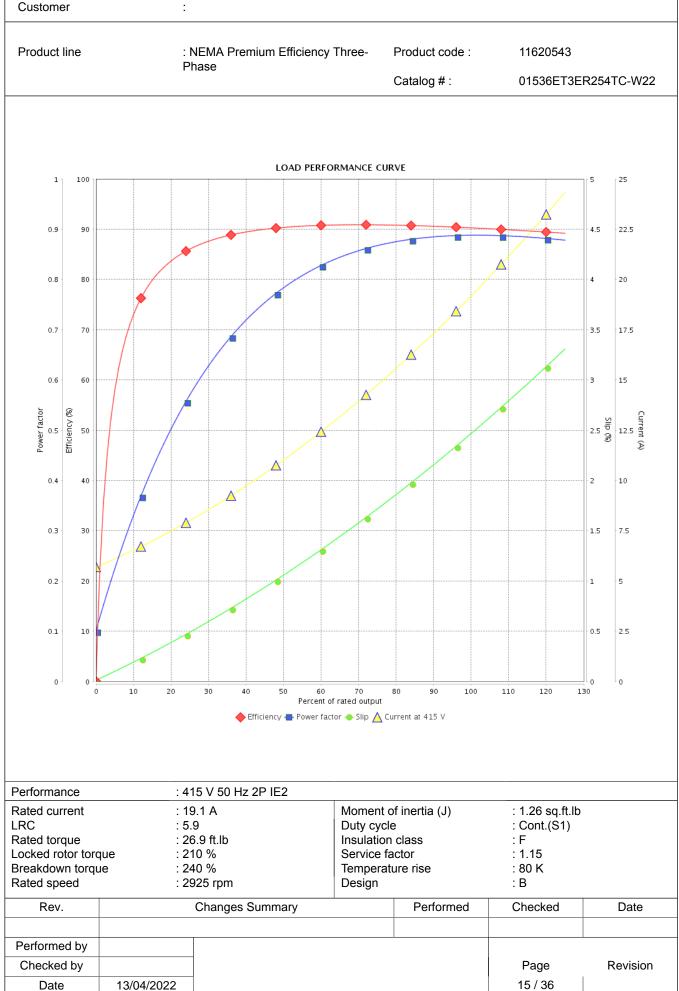


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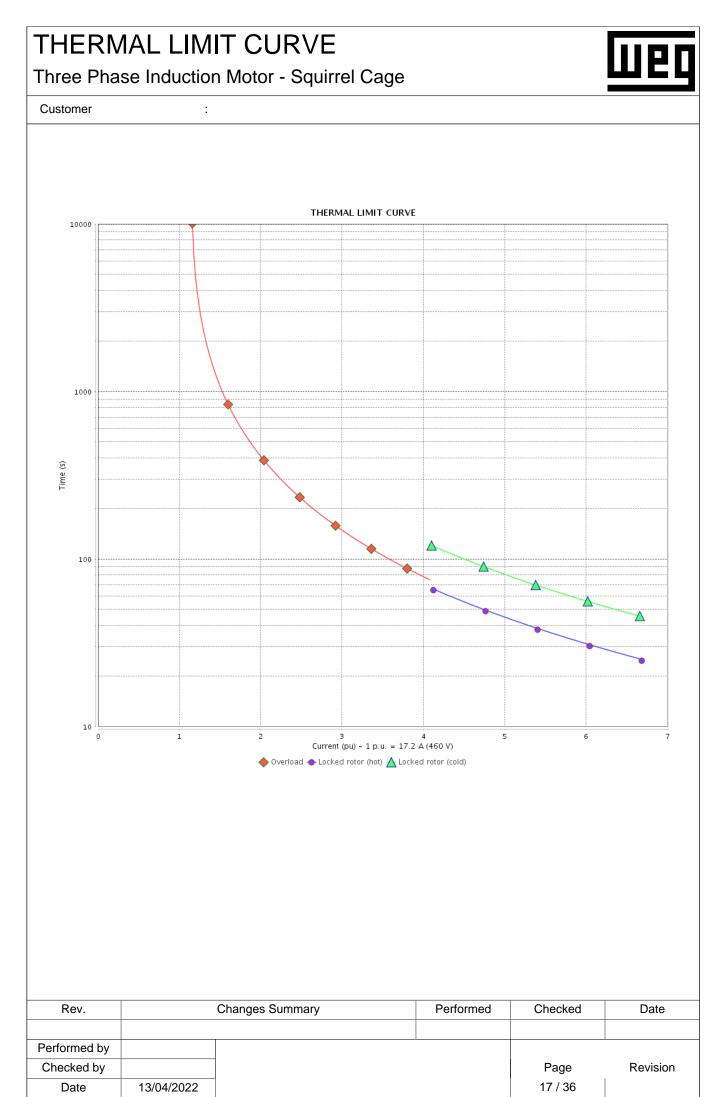
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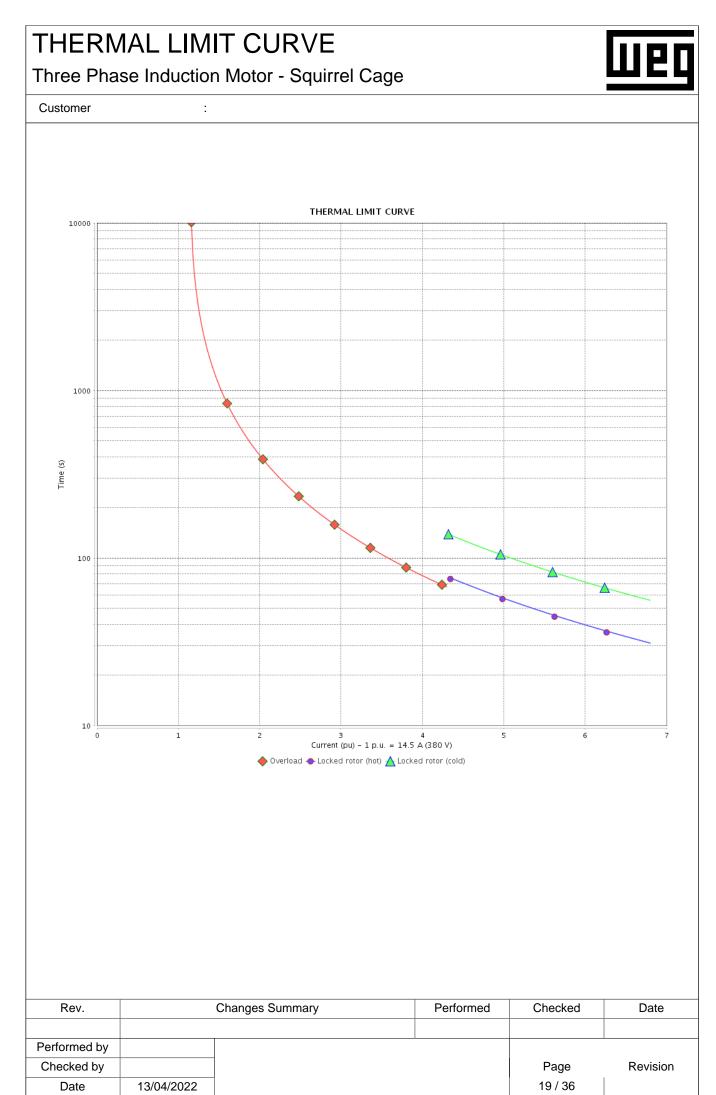
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Customer			
Product line	: NEMA Premium Efficiency Th Phase	nree- Product code : Catalog # :	11620543 01536ET3ER254TC-W22
Performance	: 230/460 V 60 Hz 2P		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 34.4/17.2 A M : 6.7 E : 22.3 ft.lb I : 220 % S : 270 %	Moment of inertia (J) Duty cycle nsulation class Service factor Femperature rise Design	: 1.26 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B
Heating constant			

Heating constan	t				
Cooling constant	t				
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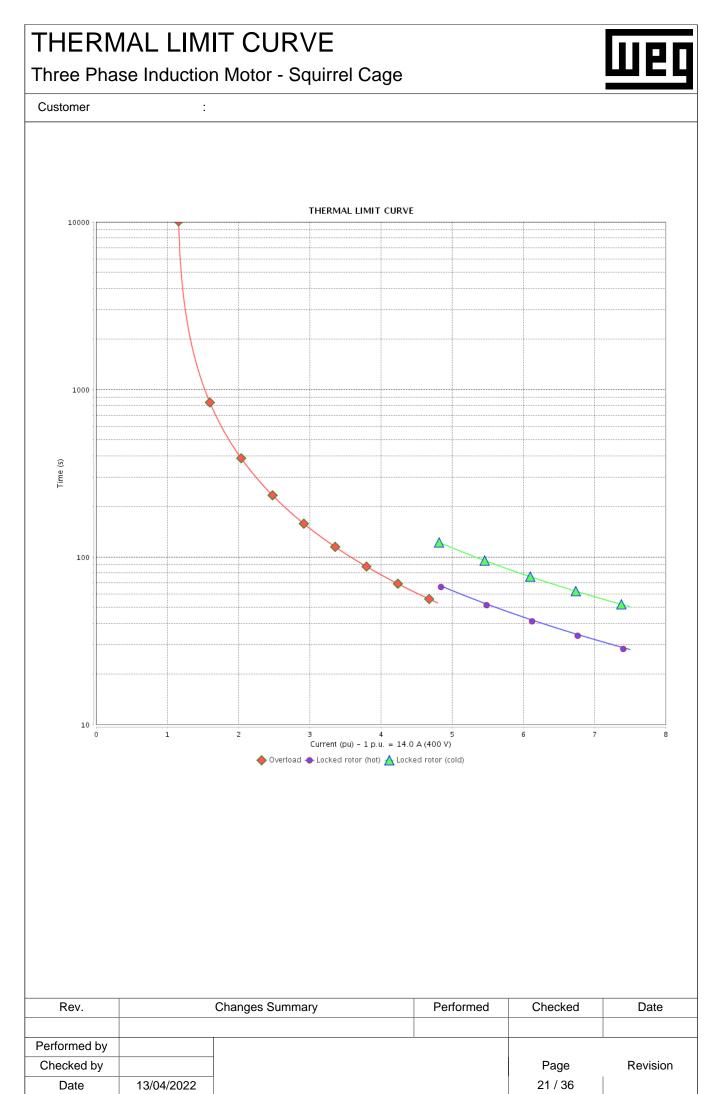
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THERMAL LI	MIT CURVE	Cage	Шер
Customer	:		
Product line	: NEMA Premium Efficiency T Phase	hree- Product code : Catalog # :	11620543 01536ET3ER254TC-W22
Performance	: 380 V 50 Hz 2P IE3		
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 6.8 : 17.8 ft.lb : 200 % : 310 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise	: 1.26 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B
Rated speed Heating constant	: 2945 rpm	Design	
Cooling constant			

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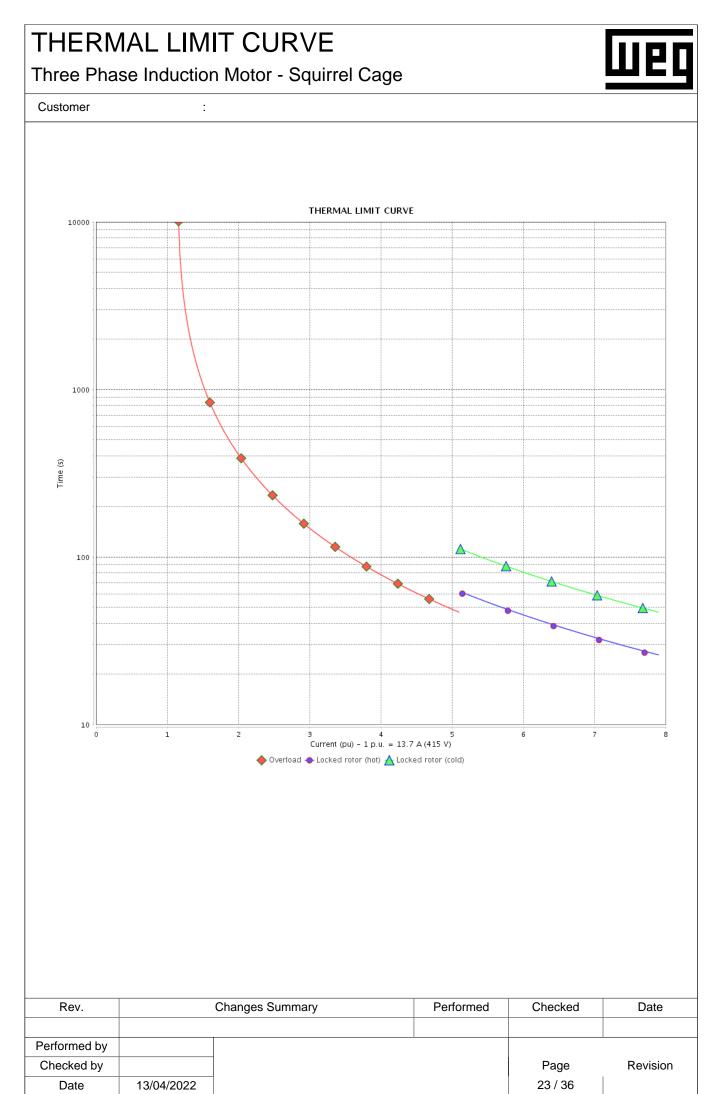
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	tion Motor - Squirrel	Cage	шеч			
Customer	:					
Product line	: NEMA Premium Efficiency Phase	Three- Product code : Catalog # :	11620543 01536ET3ER254TC-W22			
Performance	: 400 V 50 Hz 2P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 400 V 50 H2 2P IE3 : 14.0 A : 7.5 : 17.8 ft.lb : 229 % : 350 % : 2950 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 1.26 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B			
Heating constant						

Heating constant	t				
Cooling constant	t				
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Customer	:					
Product line	: NE Pha	MA Premium Efficiency se		Product code : Catalog # :	11620543 01536ET3E	R254TC-W22
Performance	: 415	V 50 Hz 2P IE3				
Rated current LRC	: 13.7 : 7.9	Â	Moment of Duty cycle	of inertia (J) e	: 1.26 sq.ft.lb : Cont.(S1)	
Rated torque	: 17.8		Insulation Service fa	class	: F : 1.25	
Locked rotor torq Breakdown torqu	ie : 380	%	Temperat		: 80 K	
Rated speed	: 2955	5 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		hanges Summary		Performed	Checked	Date

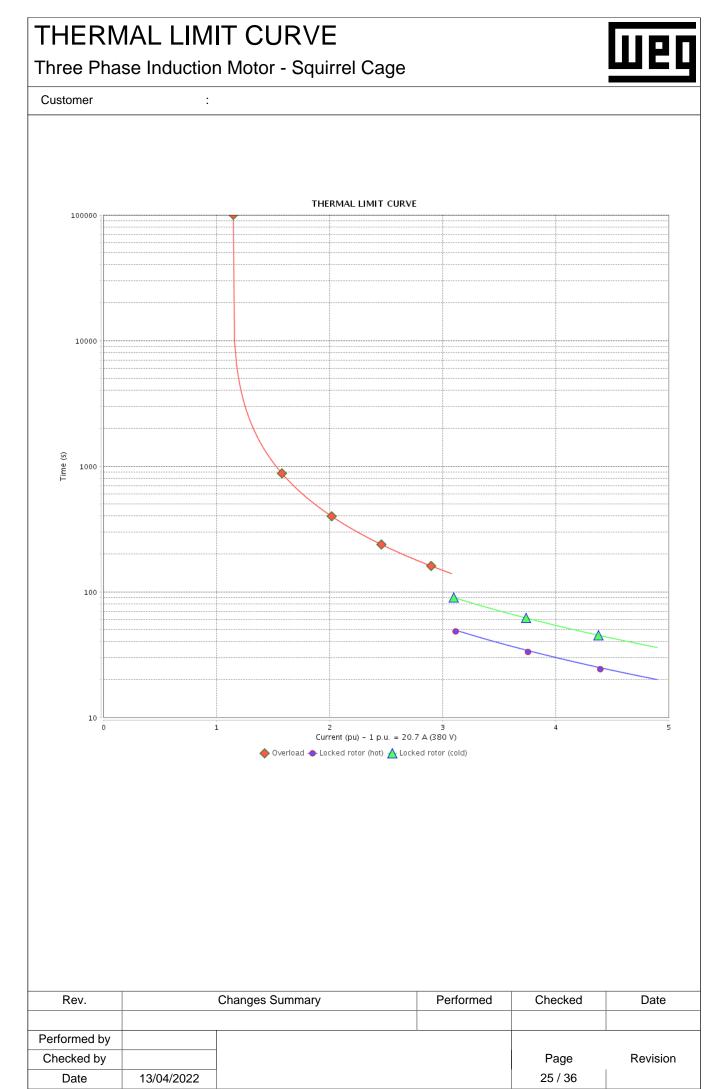
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Customer	:		
Product line	: NEMA Premium Efficiency T Phase	Three- Product code : Catalog # :	11620543 01536ET3ER254TC-W22
Performance	: 380 V 50 Hz 2P IE2		
Rated current LRC Rated torque Locked rotor torque	: 20.7 A : 4.9 : 27.1 ft.lb : 170 %	Moment of inertia (J) Duty cycle Insulation class Service factor	: 1.26 sq.ft.lb : Cont.(S1) : F : 1.00
Breakdown torque Rated speed	: 200 % : 2910 rpm	Temperature rise Design	: 80 K : B
Heating constant Cooling constant			

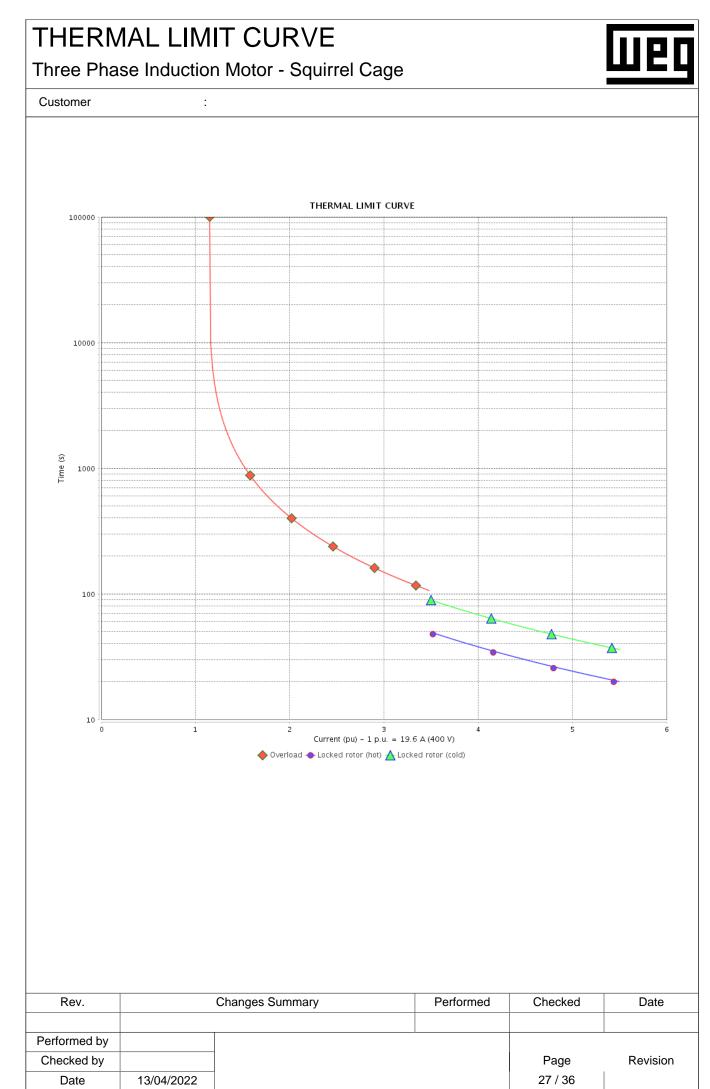
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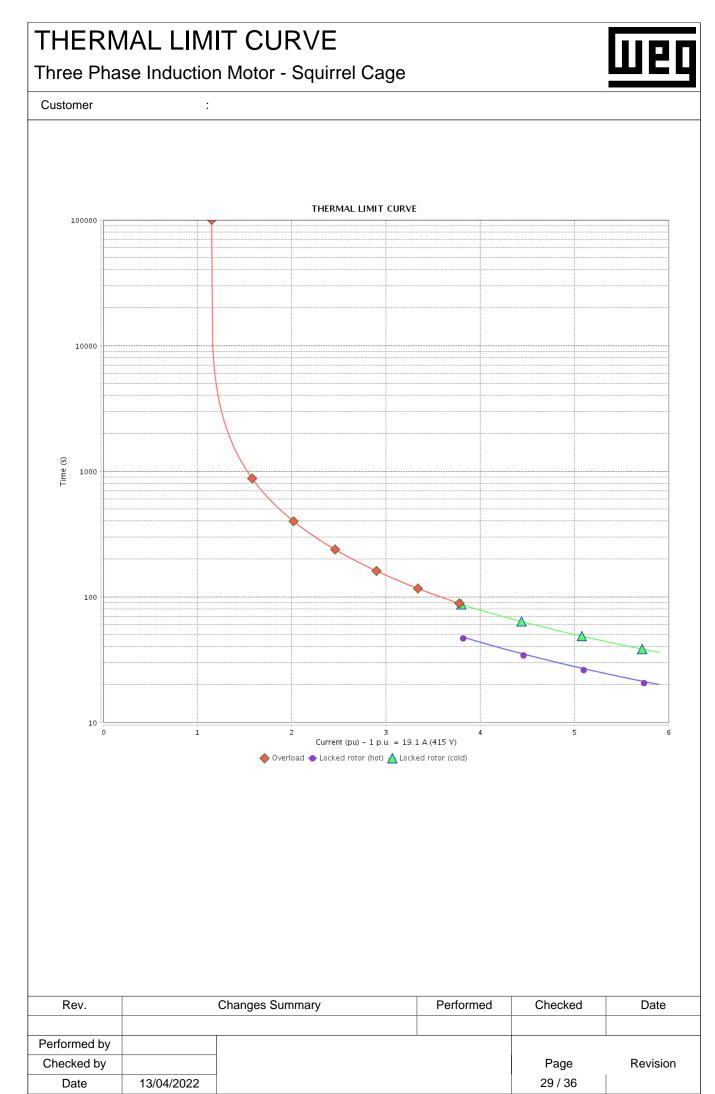
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Three Phase Ind	uction Motor - Squirrel C	Cage	шец			
Customer	:					
Product line	: NEMA Premium Efficiency Th Phase	ree- Product code : Catalog # :	11620543 01536ET3ER254TC-W22			
Performance	: 400 V 50 Hz 2P IE2					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5.5 E E E E E E E E E E E E E E E E E E	Aoment of inertia (J) Duty cycle nsulation class Service factor ēmperature rise Design	: 1.26 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B			
Heating constant		-				

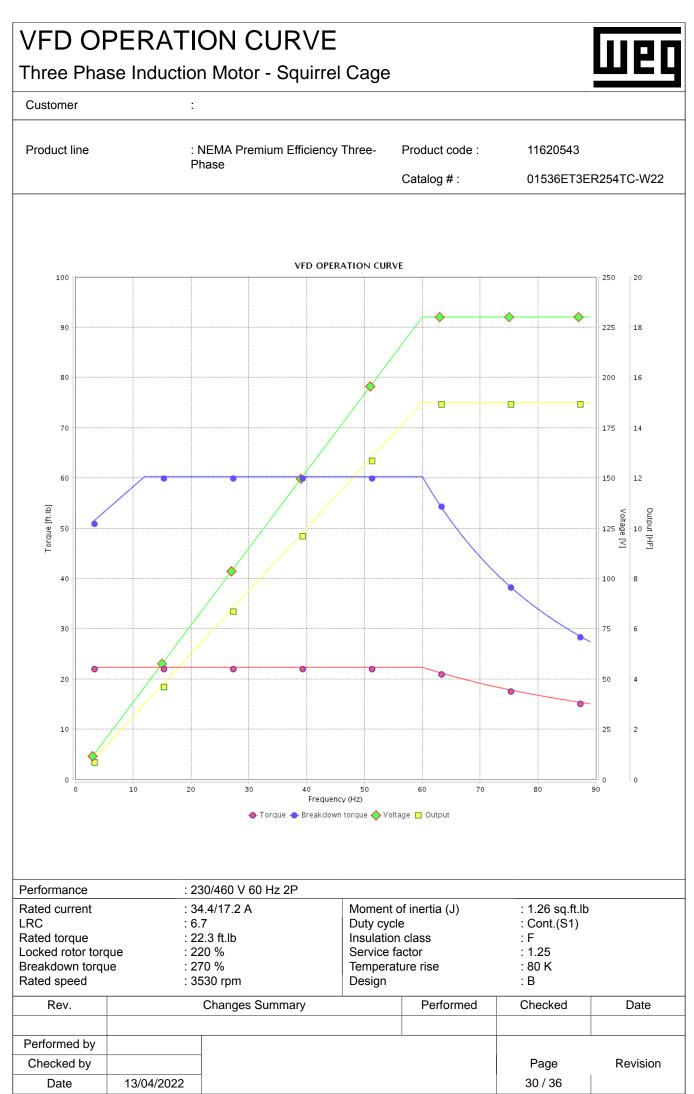
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Cooling constant	t					
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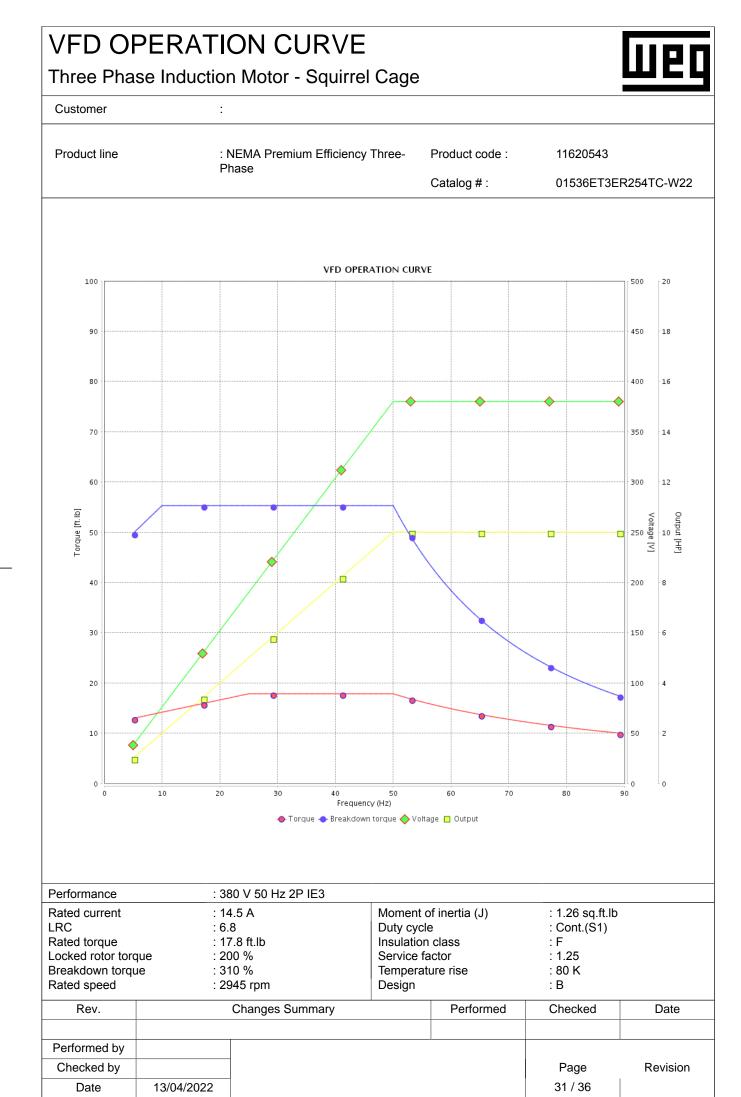
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Three Phase Ind	luction Motor - Squirrel 0	Cage	шсч		
Customer	:				
Product line	: NEMA Premium Efficiency Th Phase	ree- Product code : Catalog # :	11620543 01536ET3ER254TC-W22		
Performance Rated current	: 415 V 50 Hz 2P IE2 : 19.1 A	Moment of inertia (J)	: 1.26 sq.ft.lb		
LRC	: 5.9	Duty cycle	: Cont.(S1)		
Rated torque Locked rotor torque		nsulation class Service factor	: F : 1.15		
Breakdown torque Rated speed	: 240 %	lemperature rise Design	: 80 K : B		
Heating constant					

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Cooling constant	t					
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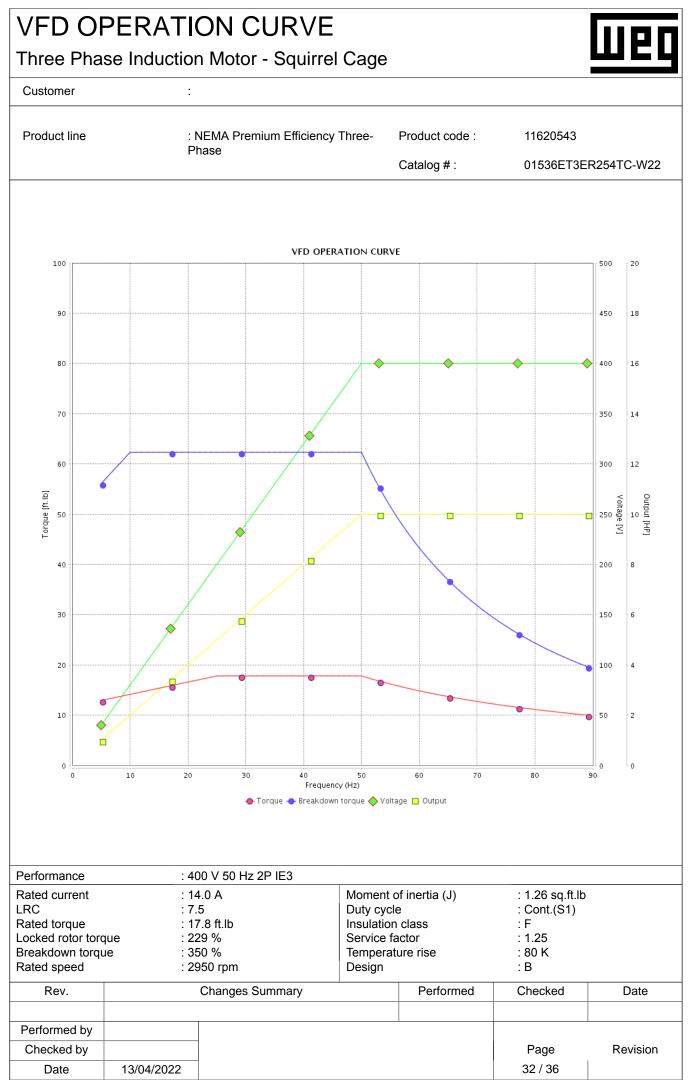


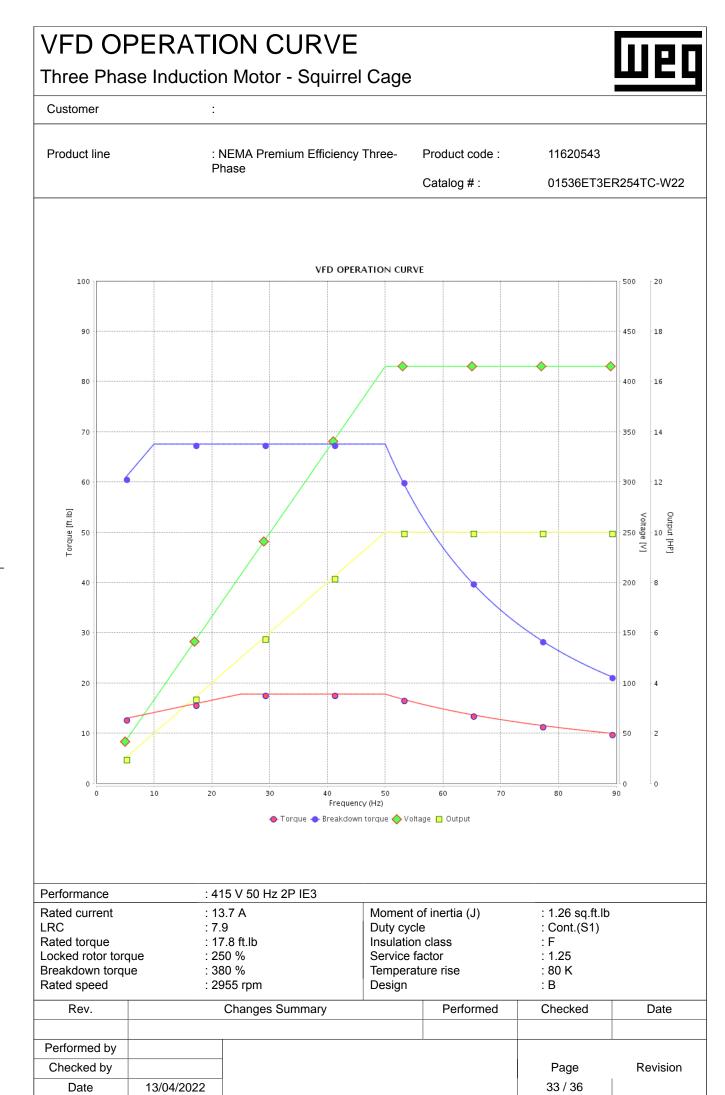


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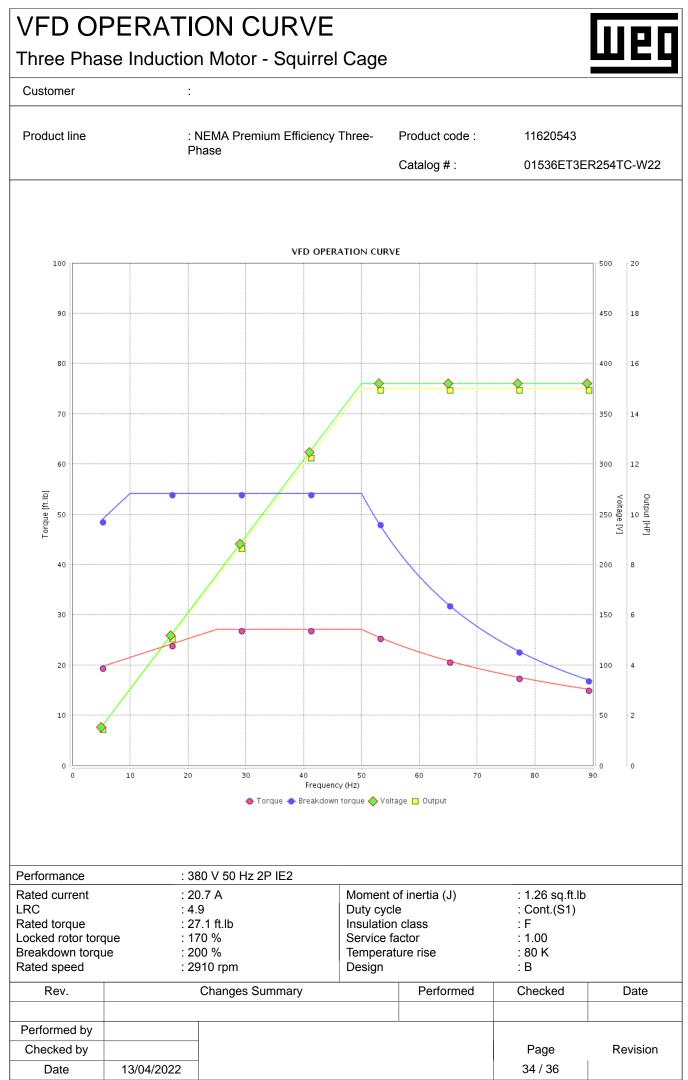


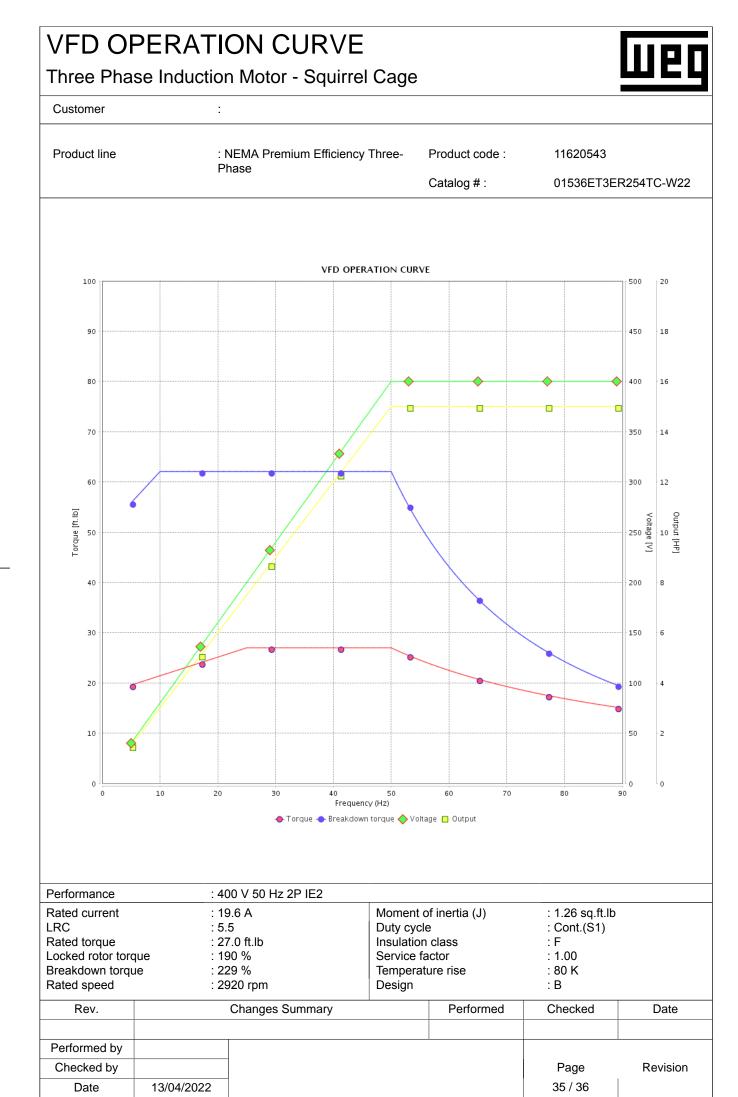
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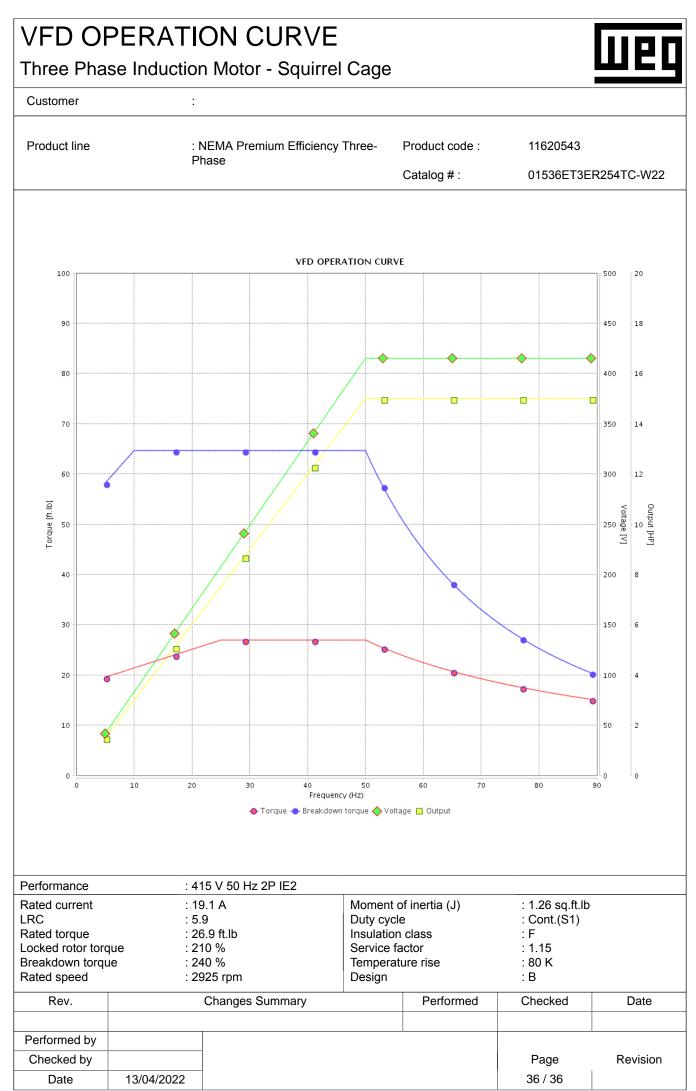


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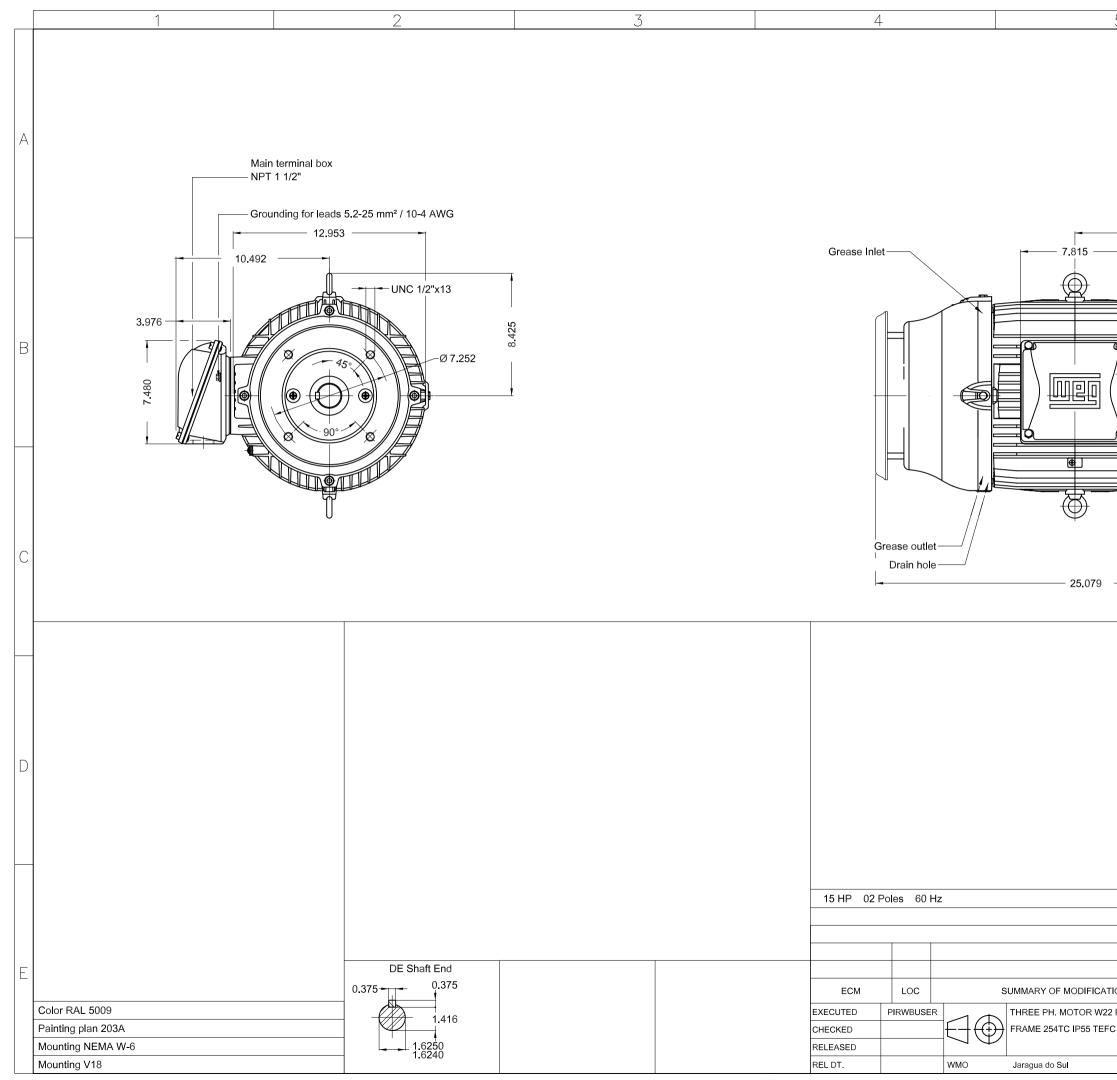




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