DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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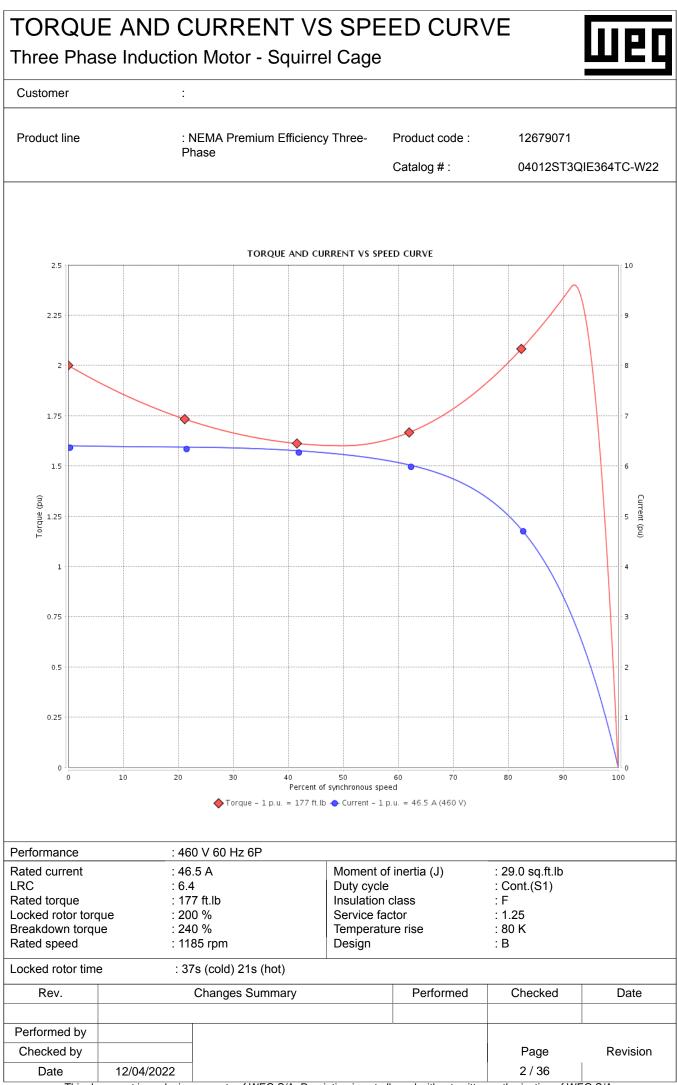
Customer

Product line		: NEMA Premium Efficiency Three- Phase			Product code	e: 12	679071	
		rnase			Catalog # :	04	012ST3QIE3	64TC-W22
Frame Insulation class Duty cycle Ambient tempera Altitude Protection degre Design		: 364/5TC : F : Cont.(S1) : -20°C to + : 1000 m.a.: : IP55 : B		Mount Rotatio Startin Approx		: F : E : C : 9	C411 - TEFC -1 Both (CW and Direct On Line 25 lb 29.0 sq.ft.lb	,
Output [HP]		40	30	30	30	40	40	40
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]		46.5	42.0	40.2	39.6	56.5	53.9	52.2
. R. Amperes [A]		298	269	289	305	277	296	313
.RC [A]		6.4x(Code G)	6.4x(Code G)	7.2x(Code H)	7.7x(Code J)	4.9x(Code E)	5.5x(Code F)	6.0x(Code G)
No load current [A	.]	17.0	16.8	17.9	18.7	16.8	17.9	18.7
Rated speed [RPN		1185	985	985	990	980	980	985
Slip [%]		1.25	1.50	1.50	1.00	2.00	2.00	1.50
Rated torque [ft.lb	-	177	160	160	159	214	214	213
ocked rotor torqu		200	210	240	270	160	180	200
Breakdown torque	e [%]	240	250	280	310	190	210	229
Service factor		1.25	1.00	1.00	1.00	1.00	1.00	1.00
Cemperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
ocked rotor time		37s (cold) 21s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (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%	93.1	92.5	92.2	91.6	93.5	93.4	92.9
Efficiency (%)	50%	93.6	92.4	92.3	91.9	93.0	93.0	93.0
	75%	93.6	92.8	93.1	93.0	92.4	93.0	93.0
	100%	94.1	92.5	93.0	93.2	91.7	92.4	93.0
	25%	0.47	0.43	0.41	0.38	0.53	0.50	0.47
Power Factor	50%	0.73	0.68	0.66	0.63	0.78	0.76	0.73
	75%	0.82	0.80	0.79	0.76	0.85	0.84	0.82
	100%	0.86	0.86	0.85	0.83	0.88	0.87	0.86
Bearing type Sealing Lubrication inter Lubricant amour Lubricant type		Drive end 6314 C3 Inpro/Sea 17000 h 27 g Mobi	3 6314 (al Inpro/S	C3 Max. tra eal Max. co h	ation loads action ompression		216 lb 141 lb	
Notes								
This revision repl must be eliminate (1) Looking the m (2) Measured at (3) Approximate manufacturing pr (4) At 100% of fu	ed. lotor from the Im and with t weight subjec ocess.	e shaft end. tolerance of +3	8dB(A).		are average va supply, subject			
Rev.		Changes	Summary	1	Performe	ed Che	ecked	Date
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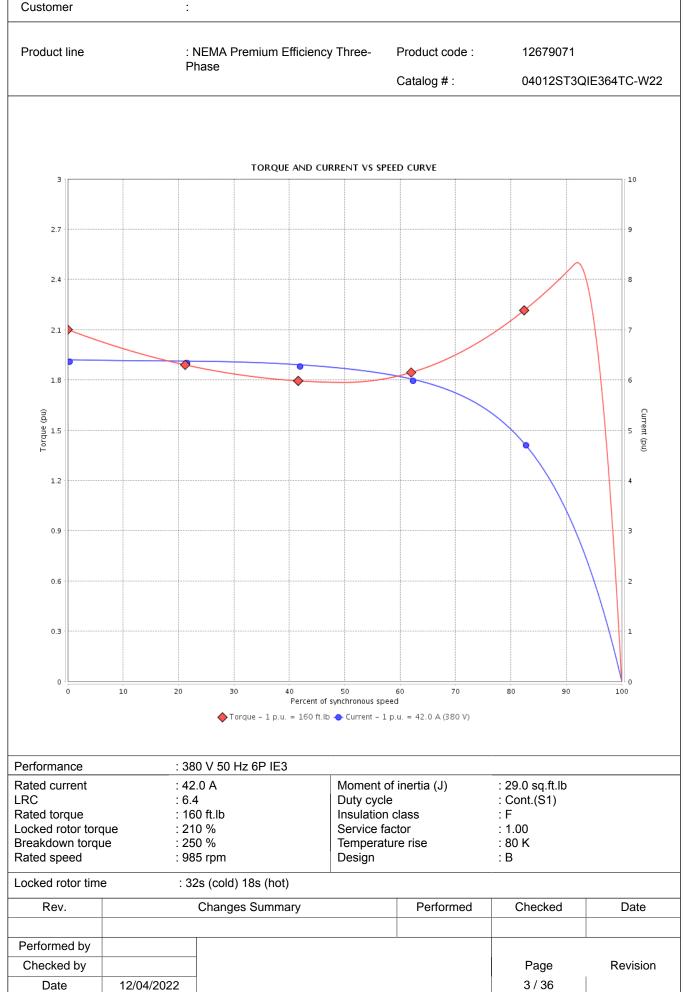
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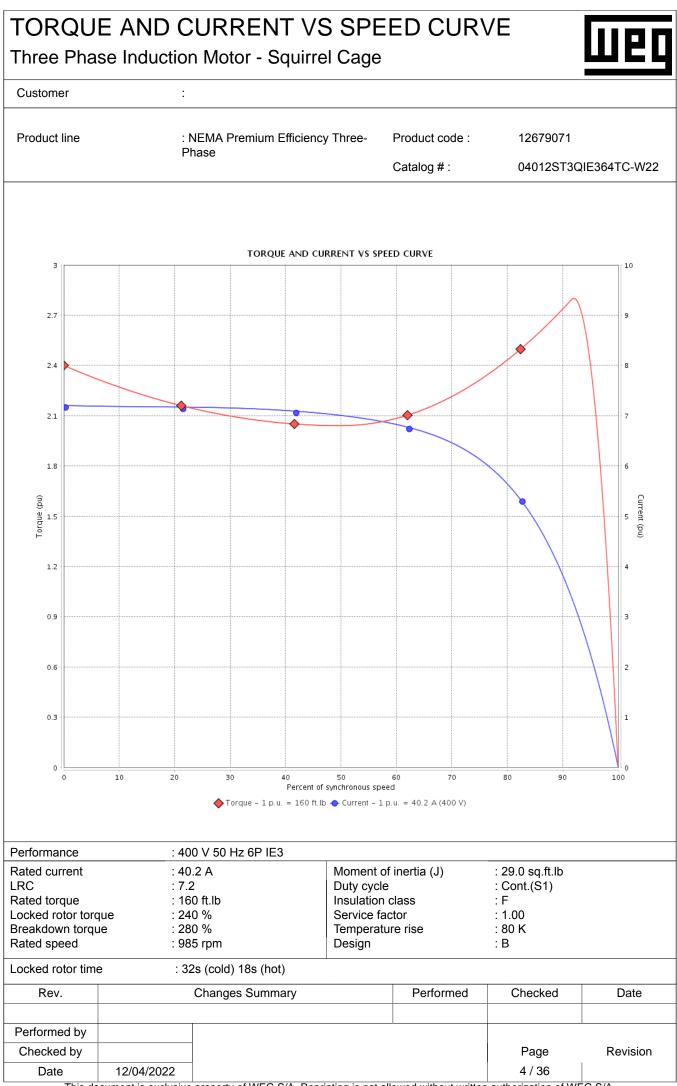
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



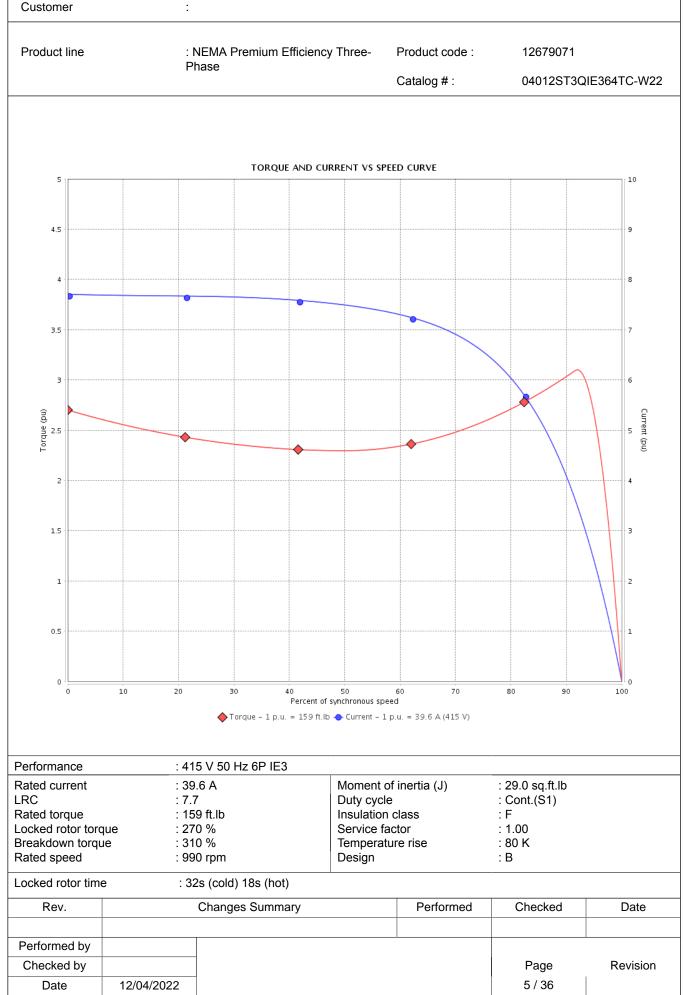
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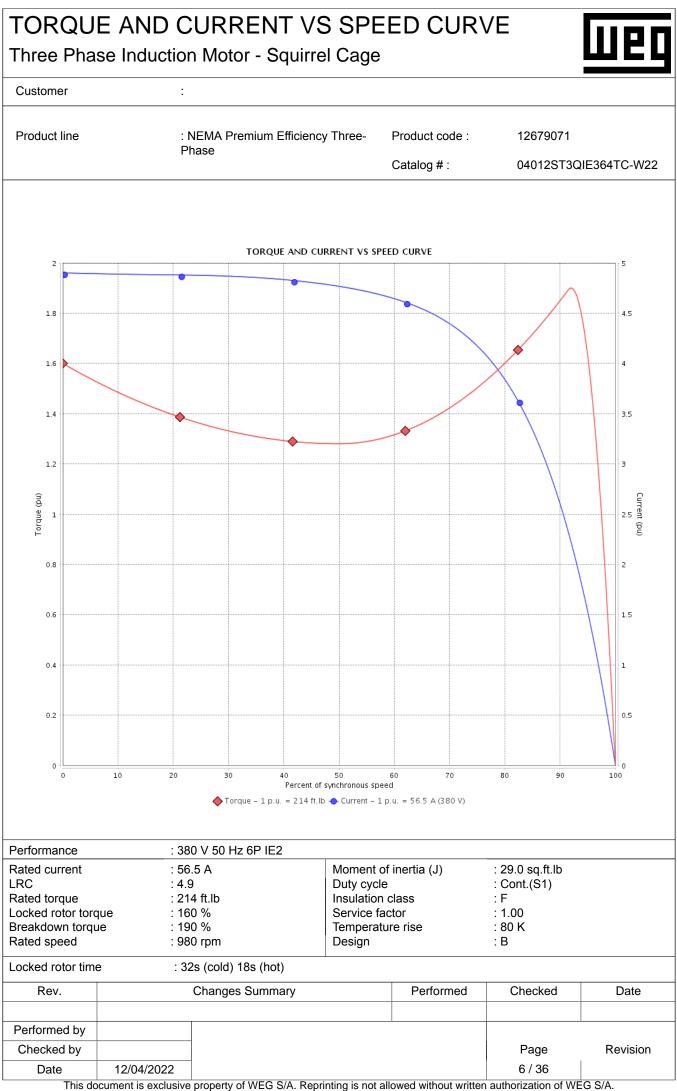
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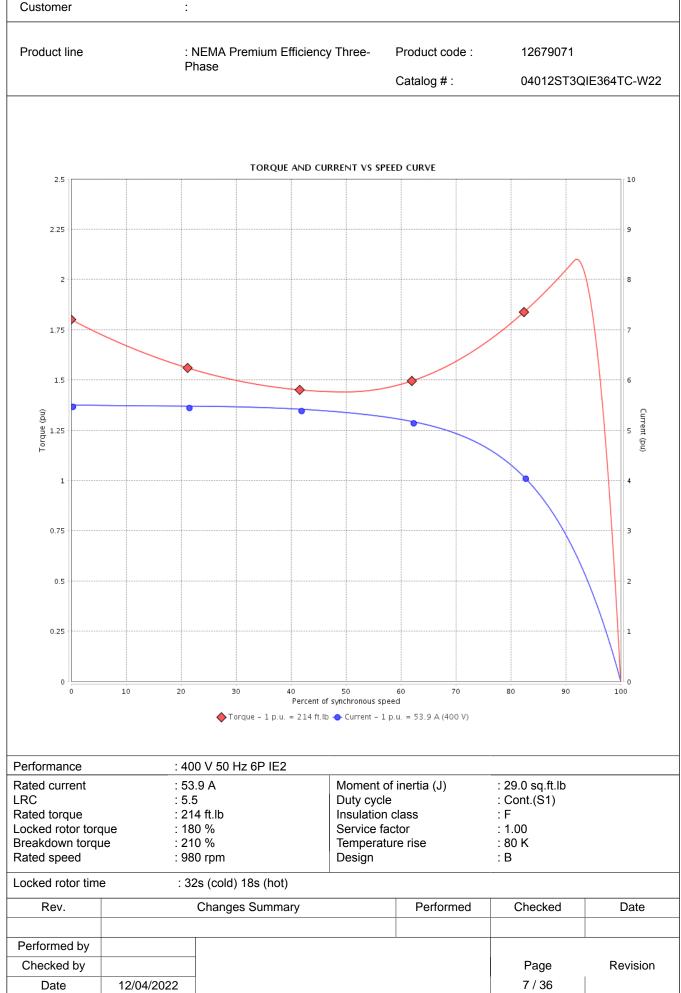
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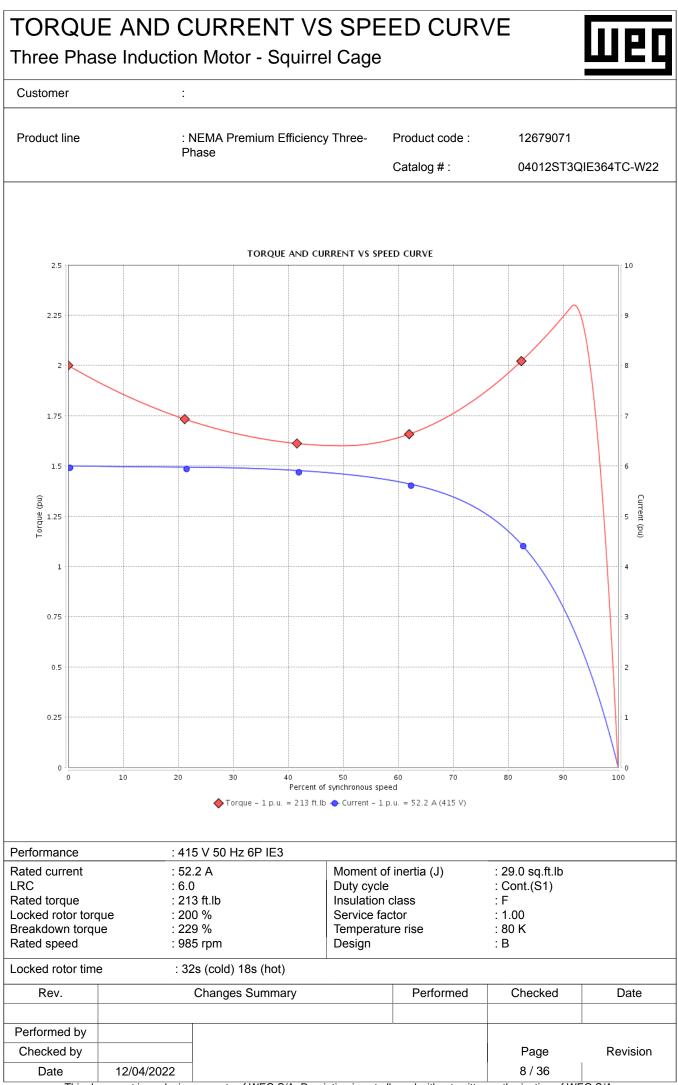
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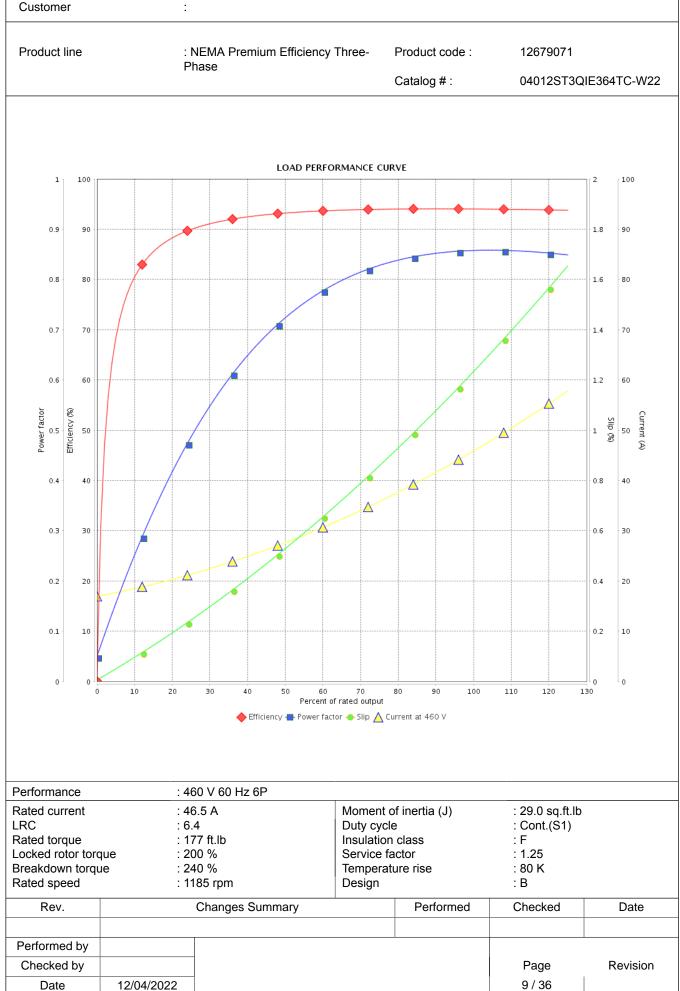


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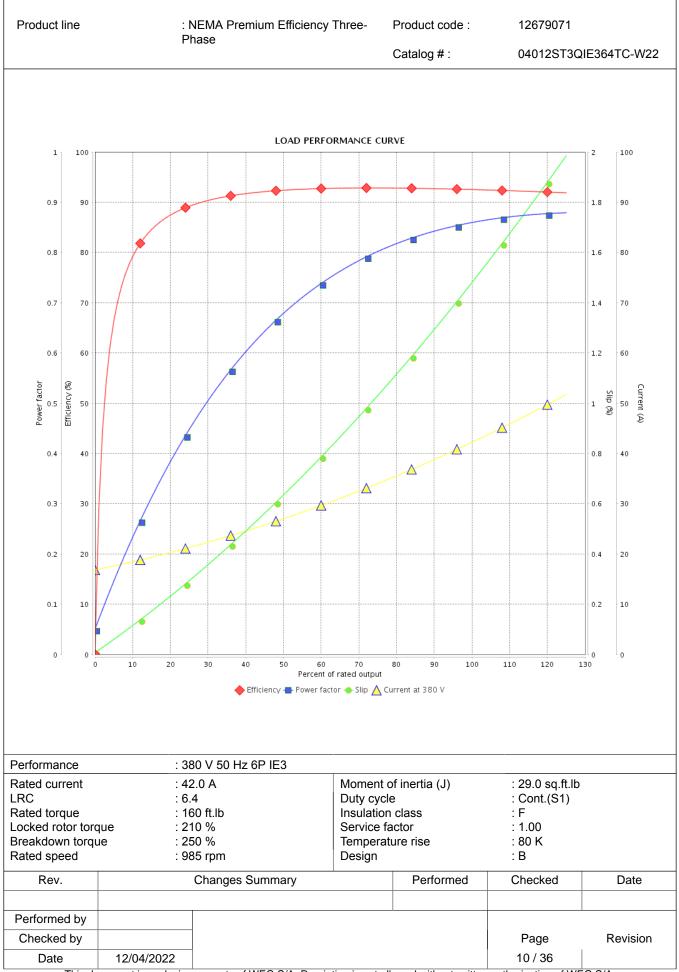
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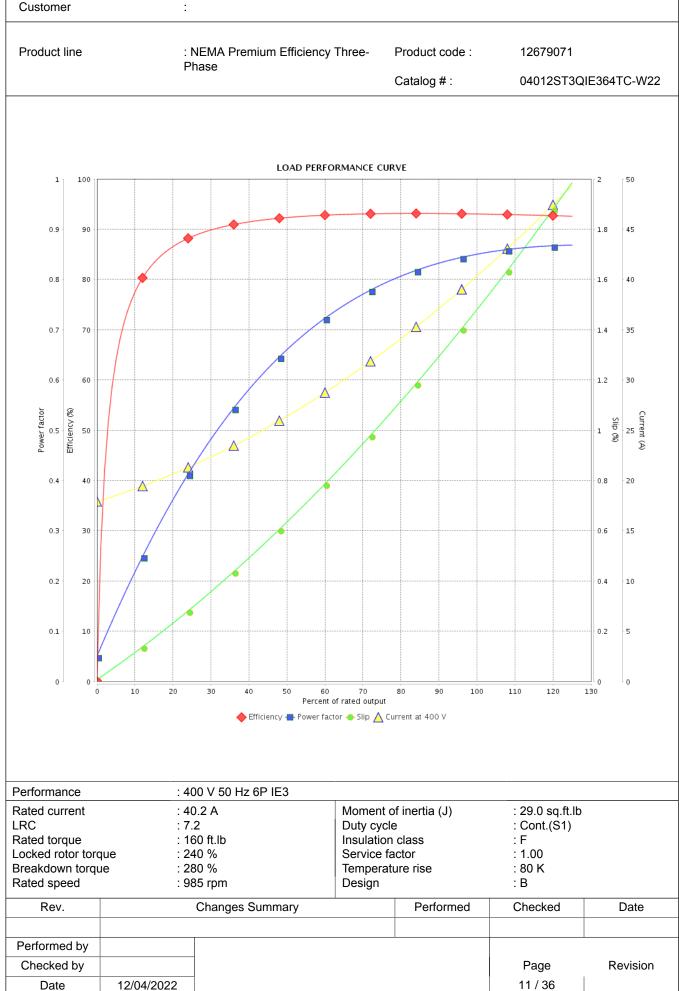


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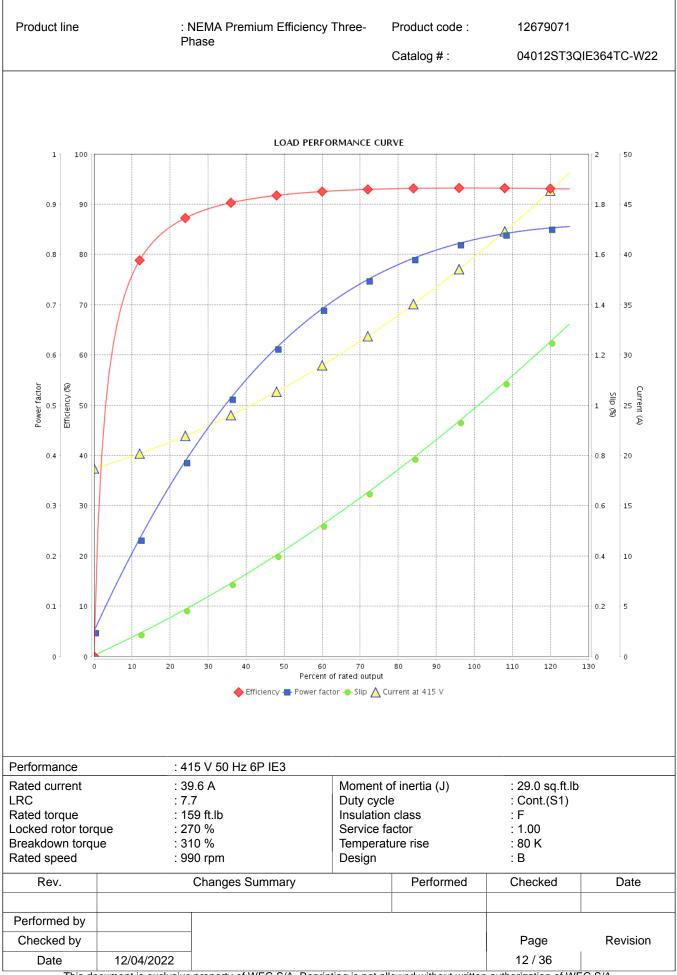
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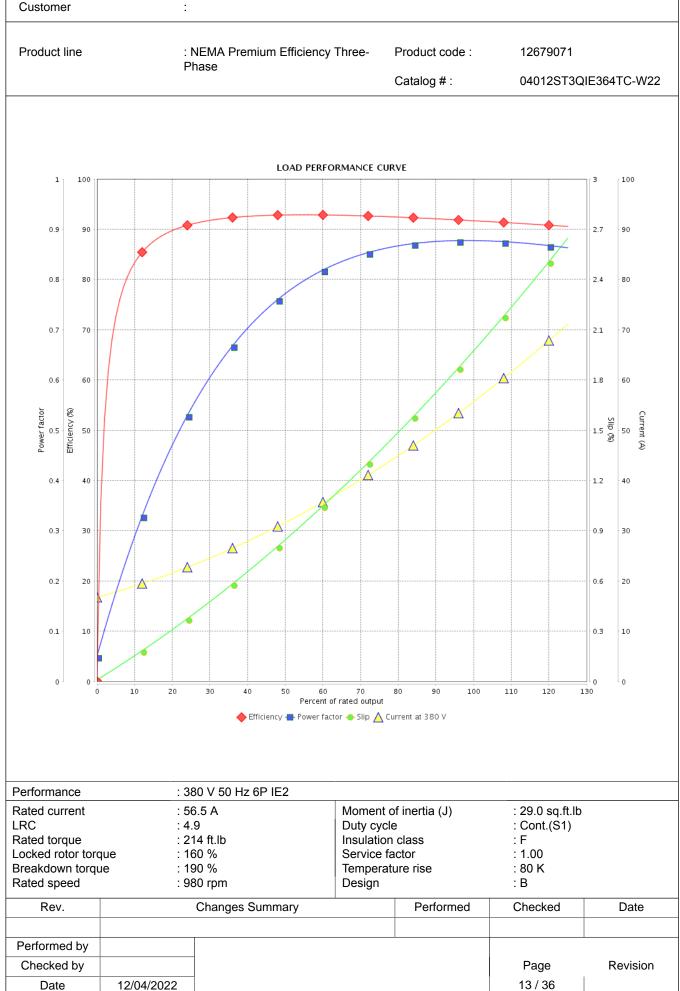


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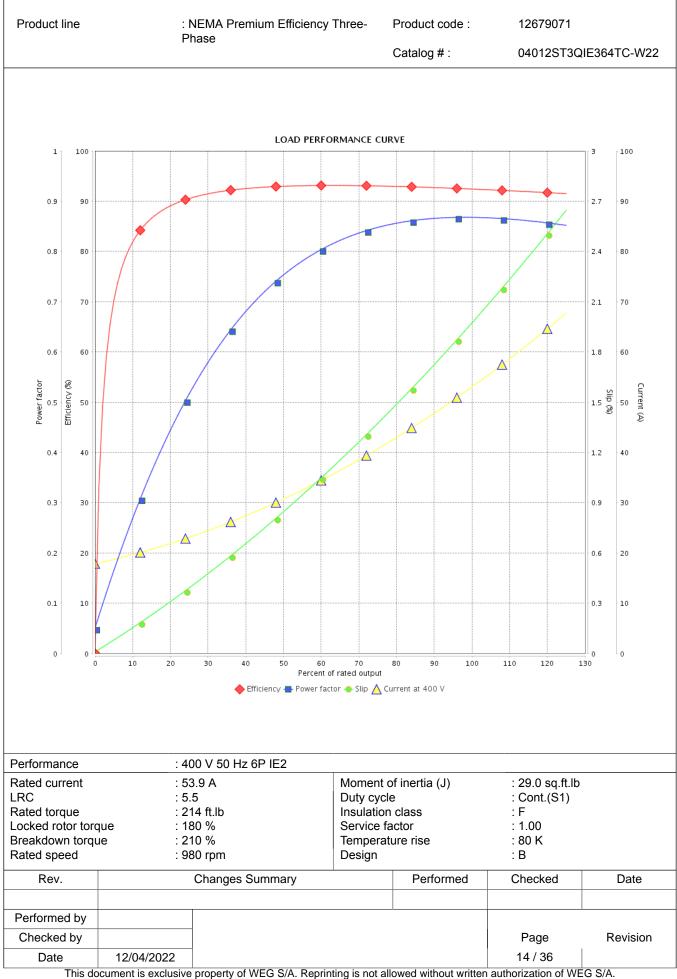
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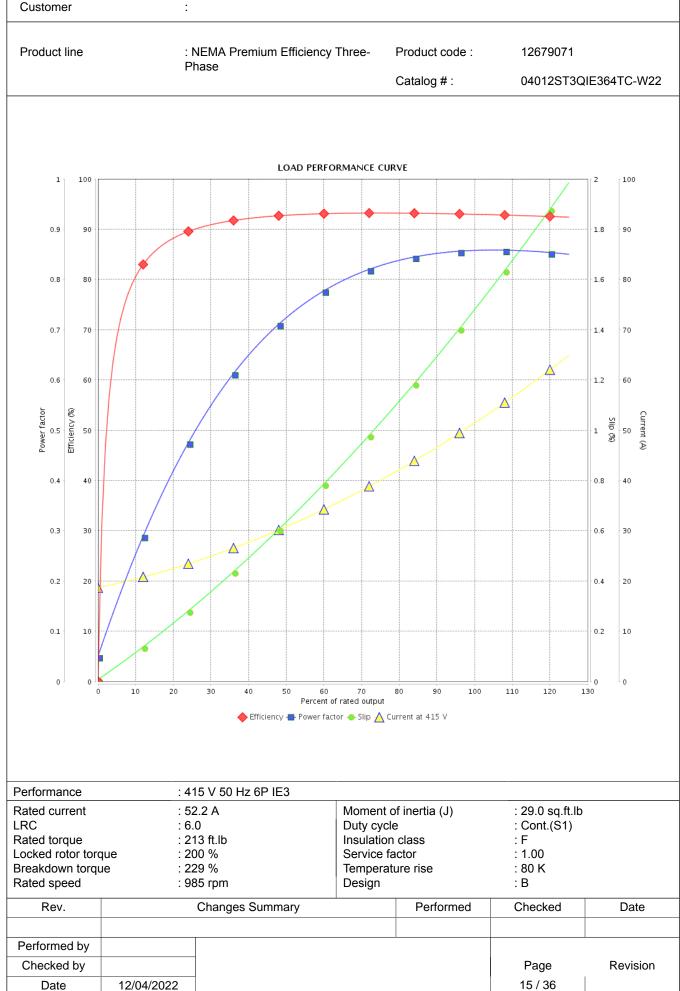


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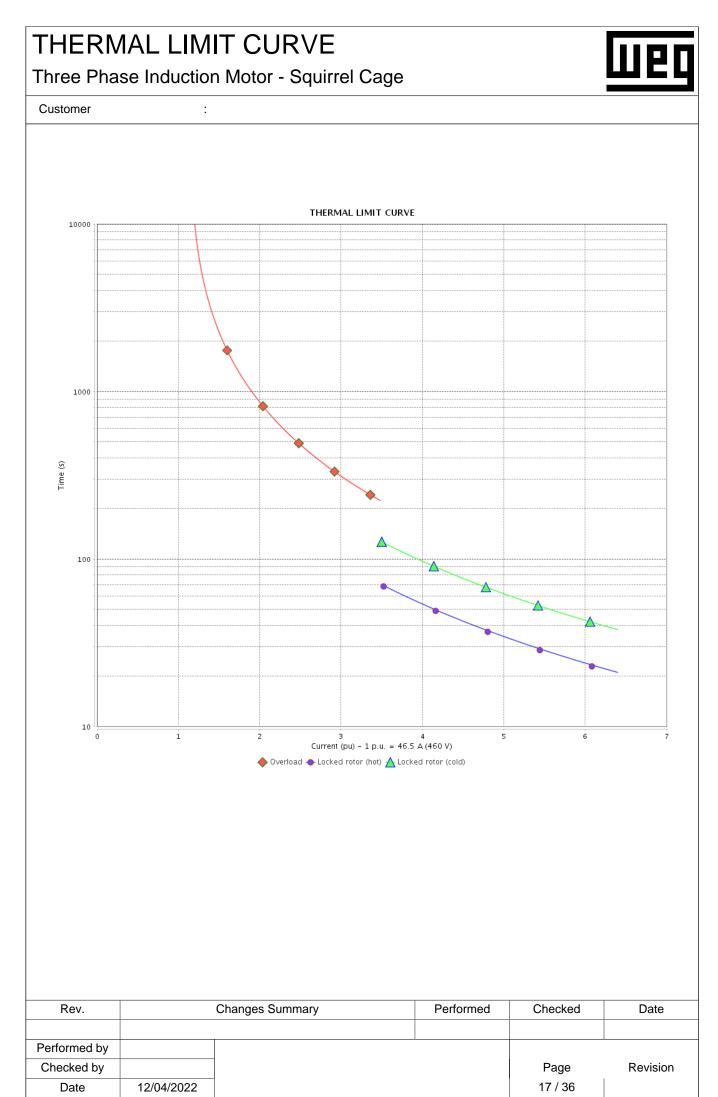
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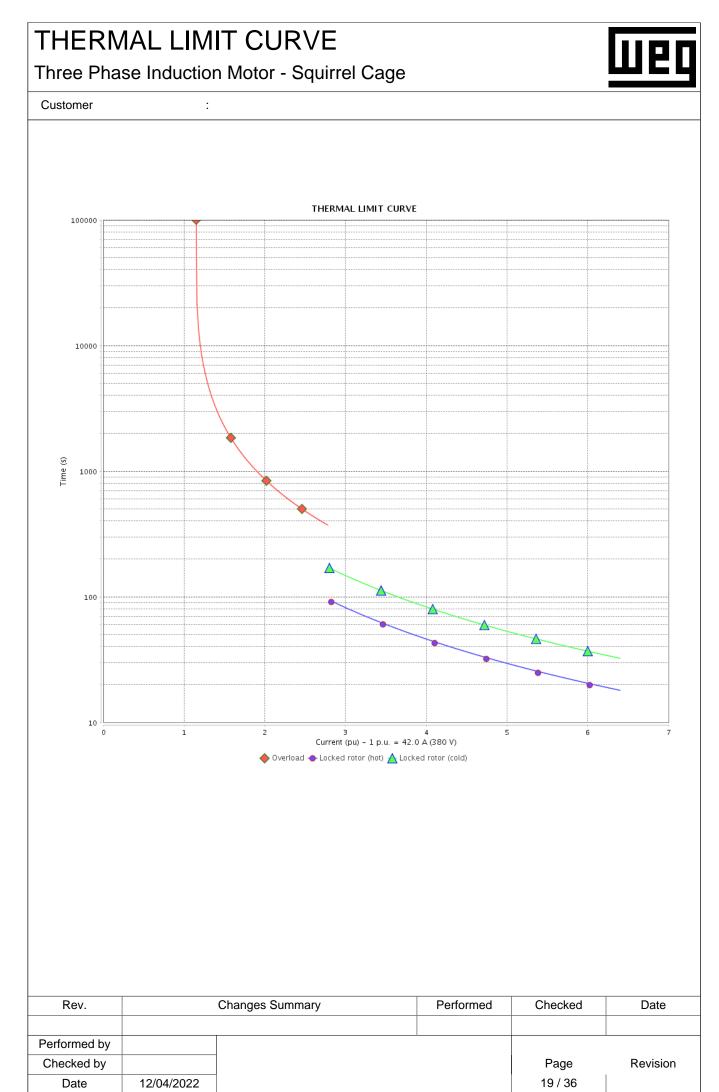
THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage						
Customer	:					
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12679071			
	Phase	Catalog # :	04012ST3QIE364TC-W22			

Performance		: 460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	que	: 46.5 A : 6.4 : 177 ft.lb : 200 % : 240 % : 1185 rpm	Duty cycle Ib Insulation class Service factor Temperature rise		: 29.0 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant	t					
Cooling constant	t					
Rev.		Changes Summary		Performed	Checked	Date
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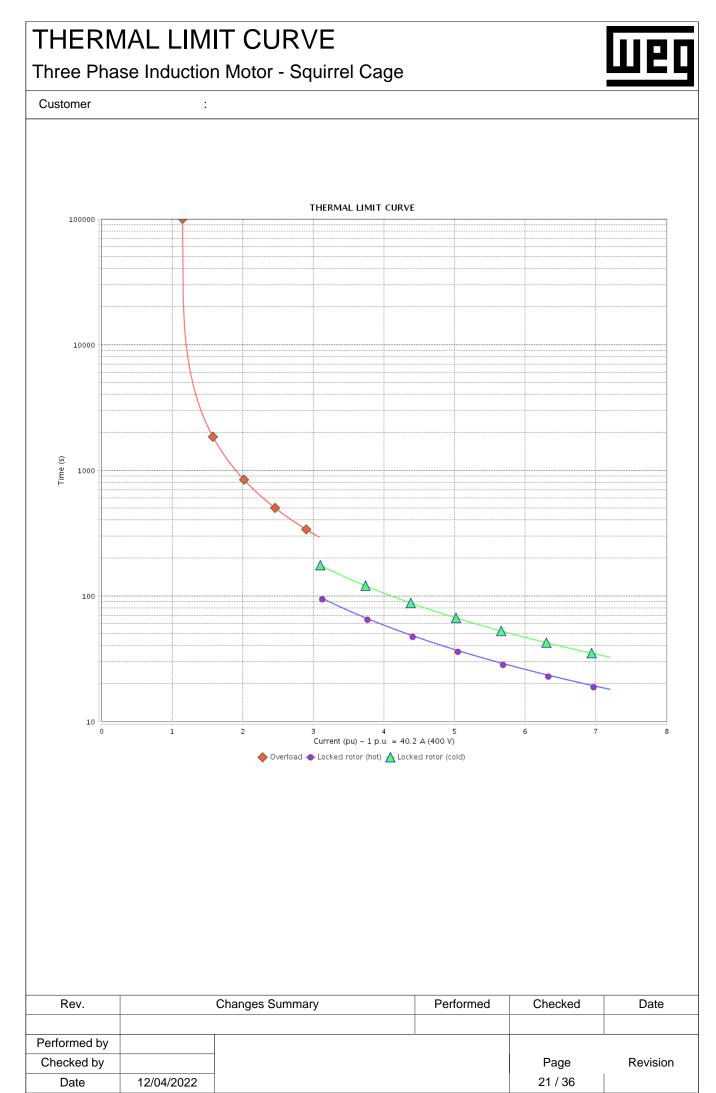
	duction Motor - Squirrel Cage	;	ШВ
Product line	: NEMA Premium Efficiency Three-	Product code :	12679071
	Phase	Catalog # :	04012ST3QIE364TC-W22

Performance	: 38	80 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 16 que : 2 ⁷ ue : 28	2.0 A 4 60 ft.lb 10 % 50 % 85 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 29.0 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constan	t					
Cooling constan	t					
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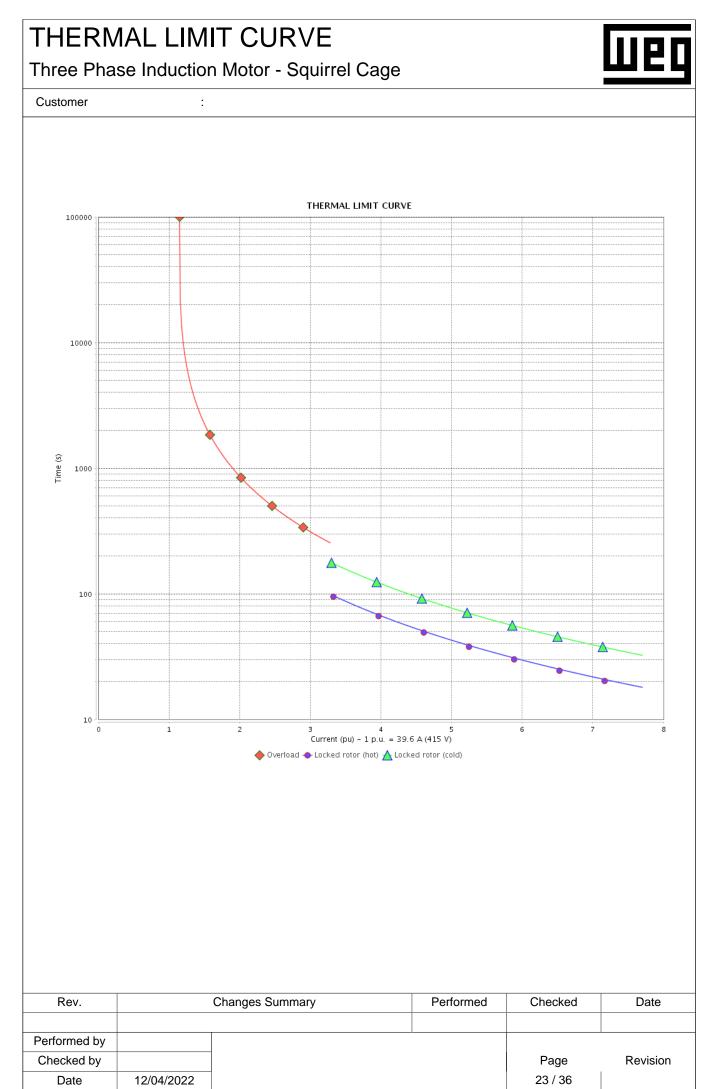
THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage						
Customer	:					
Product line	: NEMA Premium Efficiency Three-	Product code :	12679071			
	Phase	Catalog # :	04012ST3QIE364TC-W22			

Performance	:	400 V 50 Hz 6P IE3				
Rated current	:	40.2 A	Moment o	f inertia (J)	: 29.0 sq.ft.lb	
LRC	:	7.2	Duty cycle	9	: Cont.(S1)	
Rated torque	:	160 ft.lb	Insulation	class	: F	
Locked rotor torc	que :	240 %	Service fa	ctor	: 1.00	
Breakdown torqu	ie :	280 %	Temperature rise		: 80 K	
Rated speed	:	985 rpm	Design		: B	
Heating constant	t					
Cooling constant	t					
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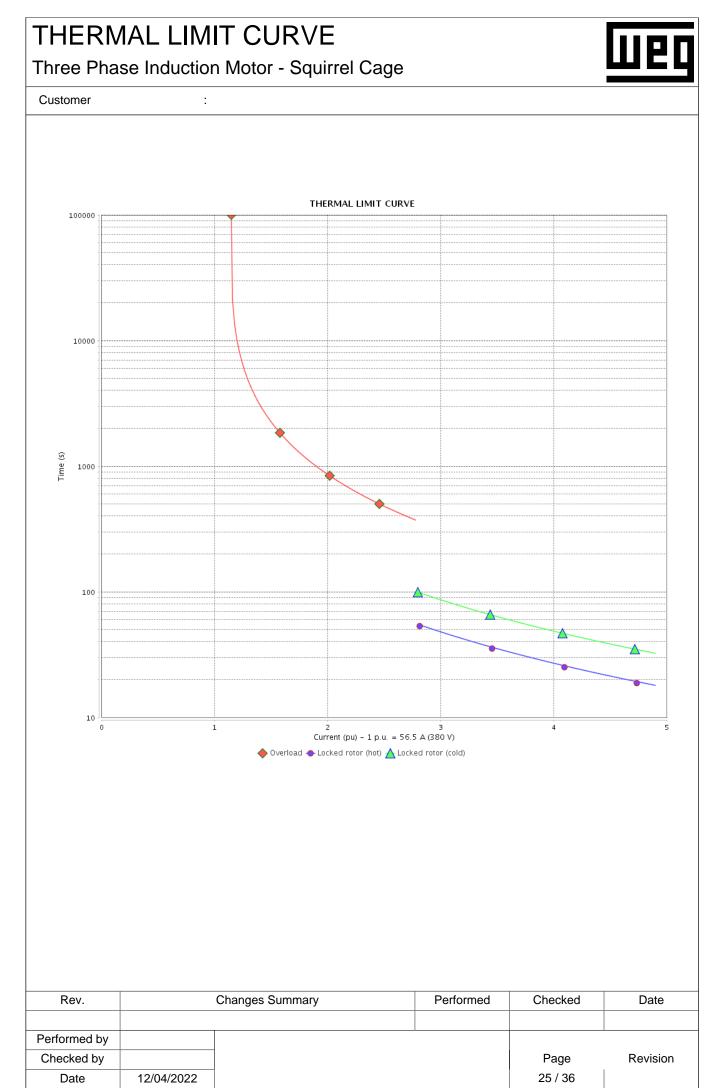
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Customer	· · · · · · · · · · · · · · · · · · ·		
Product line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	12679071 04012ST3QIE364TC-W22

Performance	: 4	15 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	2 que : 2 ue : 3	59 ft.lb 70 % 10 %	Duty cycle Insulation Service fa Temperate	class ctor	: 29.0 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Raled speed		90 rpm	Design		. D	
Heating constant	t					
Cooling constant	t					
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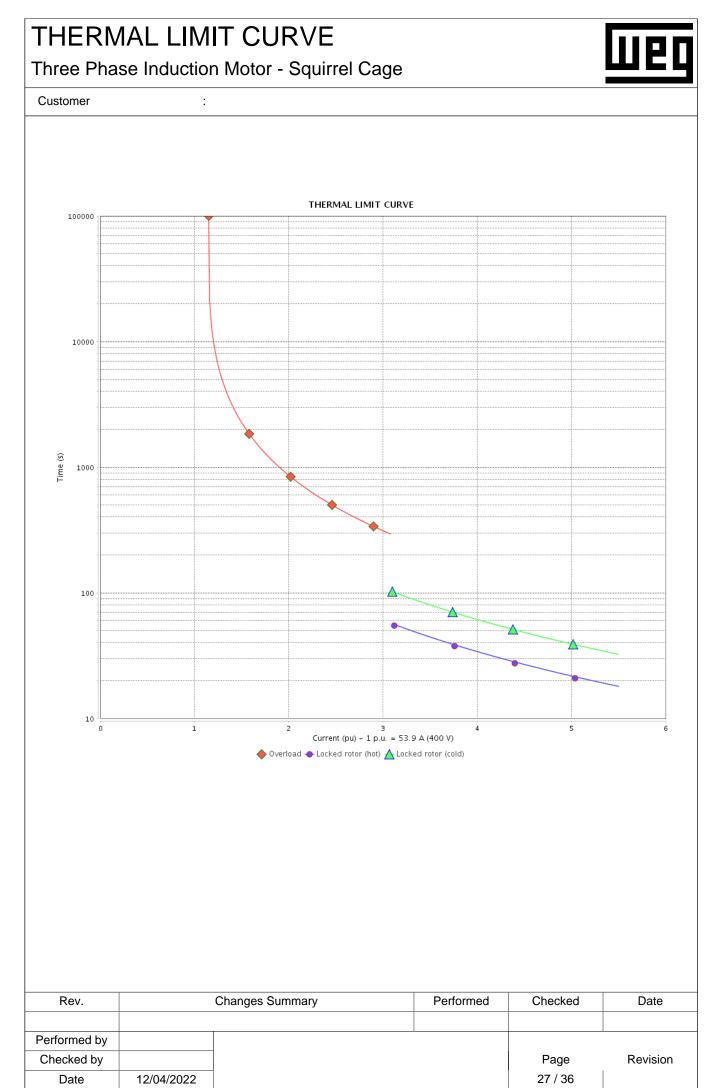
THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage						
Customer	:					
Product line	: NEMA Premium Efficiency Three-	Product code :	12679071			
	Phase	Catalog # :	04012ST3QIE364TC-W22			

Performance	: 3	880 V 50 Hz 6P IE2				
Rated current	: 5	6.5 A	Moment o	f inertia (J)	: 29.0 sq.ft.lb	
LRC	: 4	l.9	Duty cycle	;	: Cont.(S1)	
Rated torque	: 2	214 ft.lb	Insulation	class	: F	
Locked rotor torc	que :1	60 %	Service fa	ctor	: 1.00	
Breakdown torqu	.e :1	90 %	Temperatu	ure rise	: 80 K	
Rated speed	: 9	980 rpm	Design		: B	
Heating constant	t					
Cooling constant	t					
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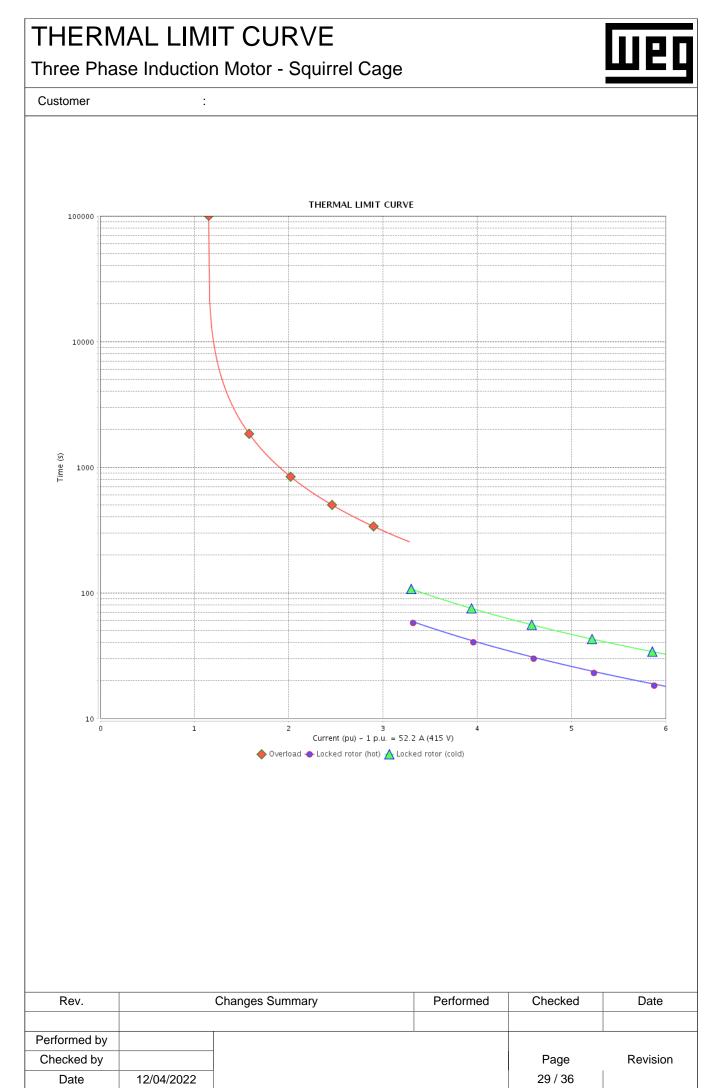
	nduction Motor - Squirrel Cage	,	ШВ
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12679071
	FildSC	Catalog # :	04012ST3QIE364TC-W22

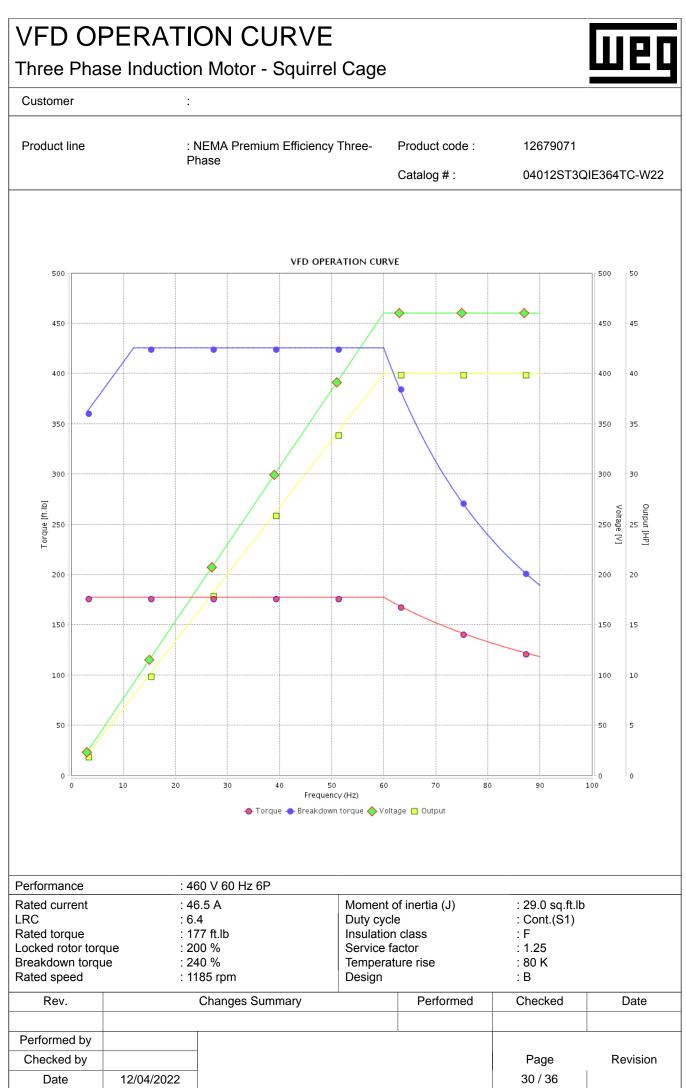
Performance	: 4	: 400 V 50 Hz 6P IE2				
Rated current : 53.9 A		Moment of inertia (J)		: 29.0 sq.ft.lb		
LRC : 5.5		Duty cycle		: Cont.(S1)		
Rated torque : 214 ft.lb		214 ft.lb	Insulation class		:F	
Locked rotor torque : 180 %		Service factor		: 1.00		
Breakdown torque : 210 %		Temperature rise		: 80 K		
Rated speed	: 9	980 rpm	Design		: B	
Heating constant	t					
Cooling constant	t					
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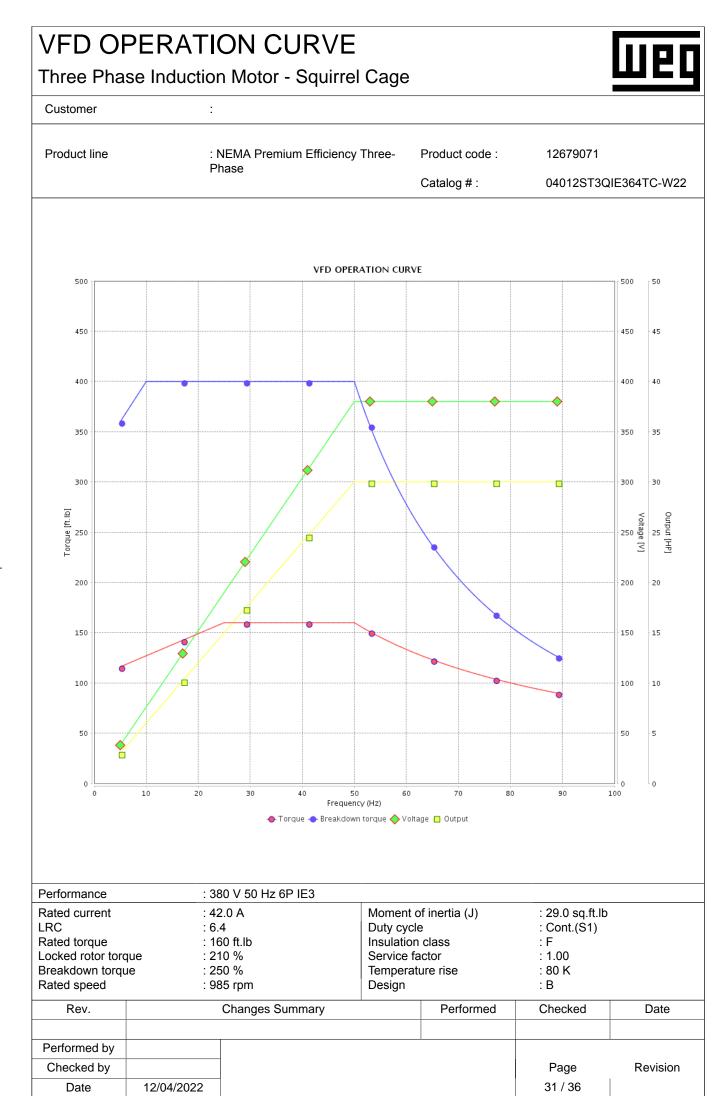


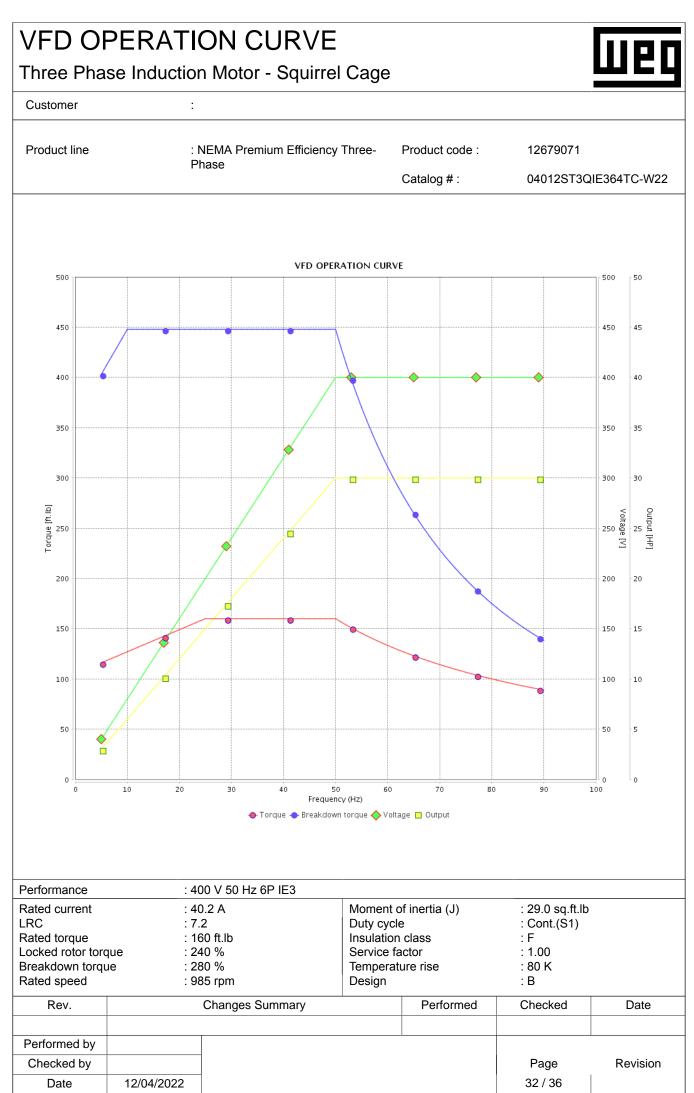
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12679071
	Flidse	Catalog # :	04012ST3QIE364TC-W2

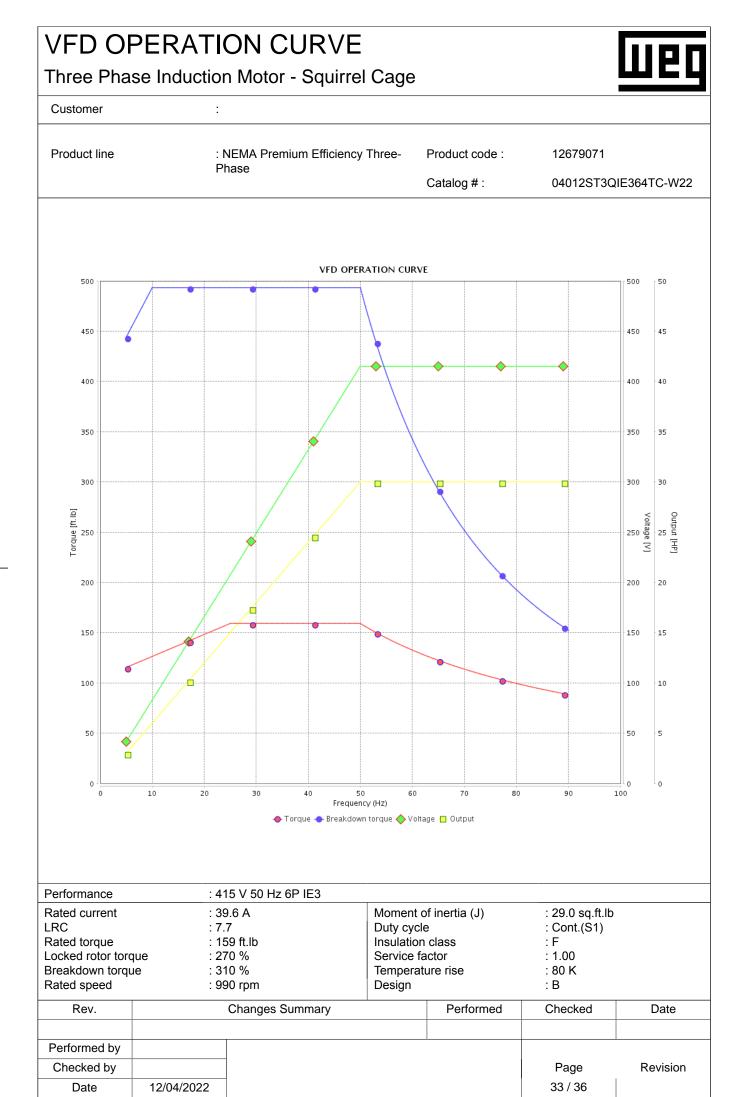
Performance : 415 V 50 Hz 6P IE3		15 V 50 Hz 6P IE3				
Rated current : 52.2 A		2.2 A	Moment of inertia (J)		: 29.0 sq.ft.lb	
LRC : 6.0		.0	Duty cycle		: Cont.(S1)	
Rated torque : 213 ft.lb		13 ft.lb	Insulation class		: F	
Locked rotor torque : 200 %		00 %	Service factor		: 1.00	
		29 %	Temperature rise		: 80 K	
Rated speed : 985 rpm		Design		: B		
Heating constant	t					
Cooling constant	t					
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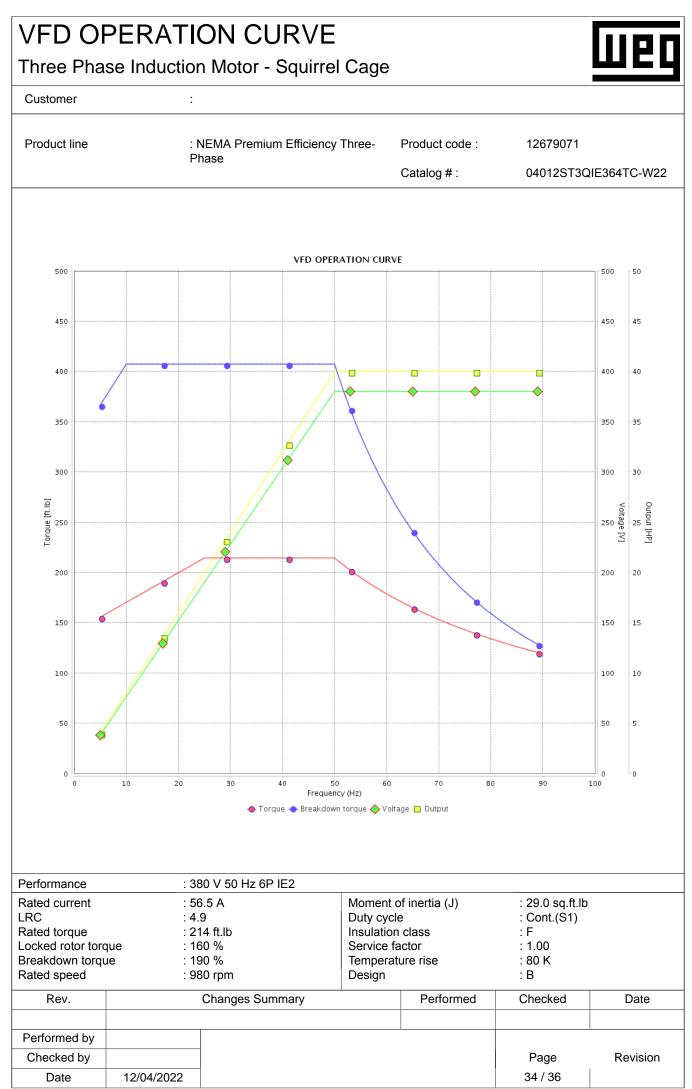


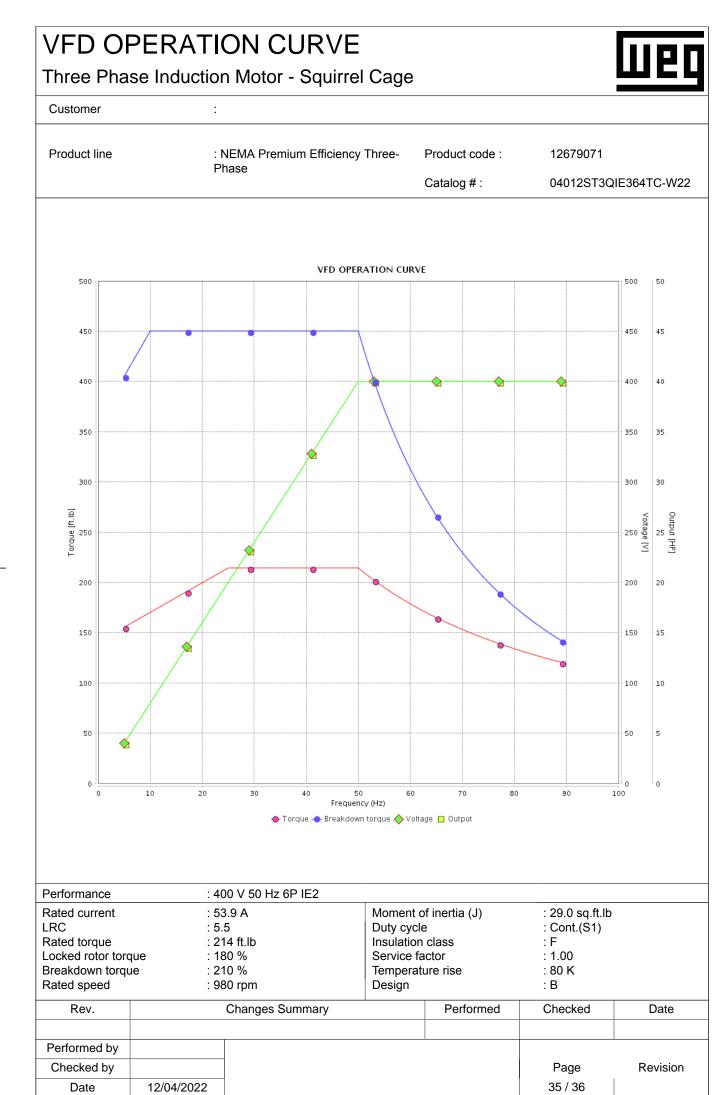


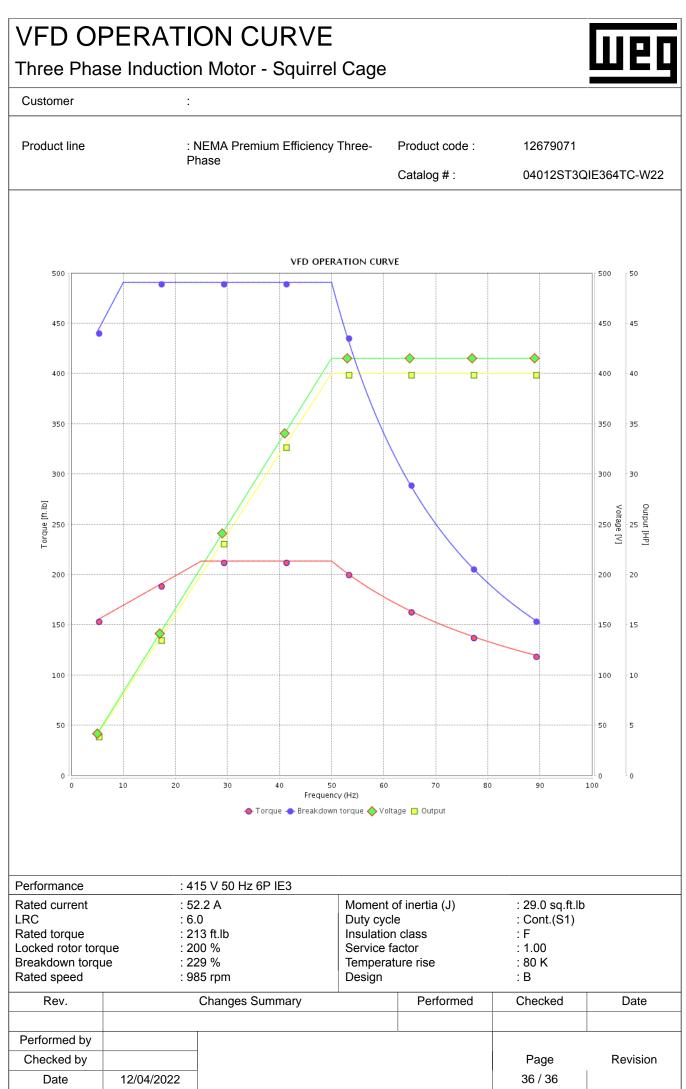


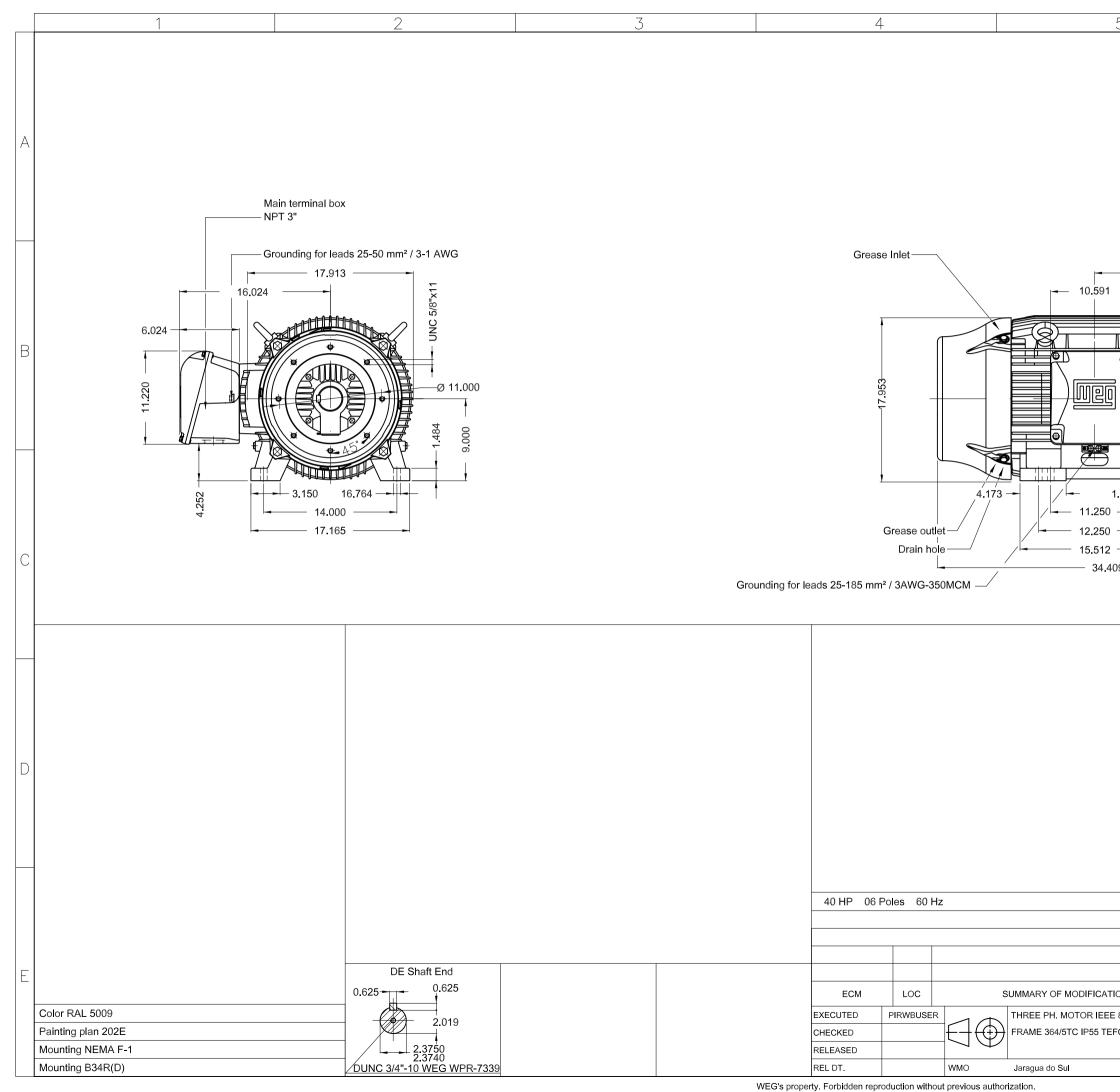












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