DATA SHEET

Three Phase Induction Motor - Squirrel Cage

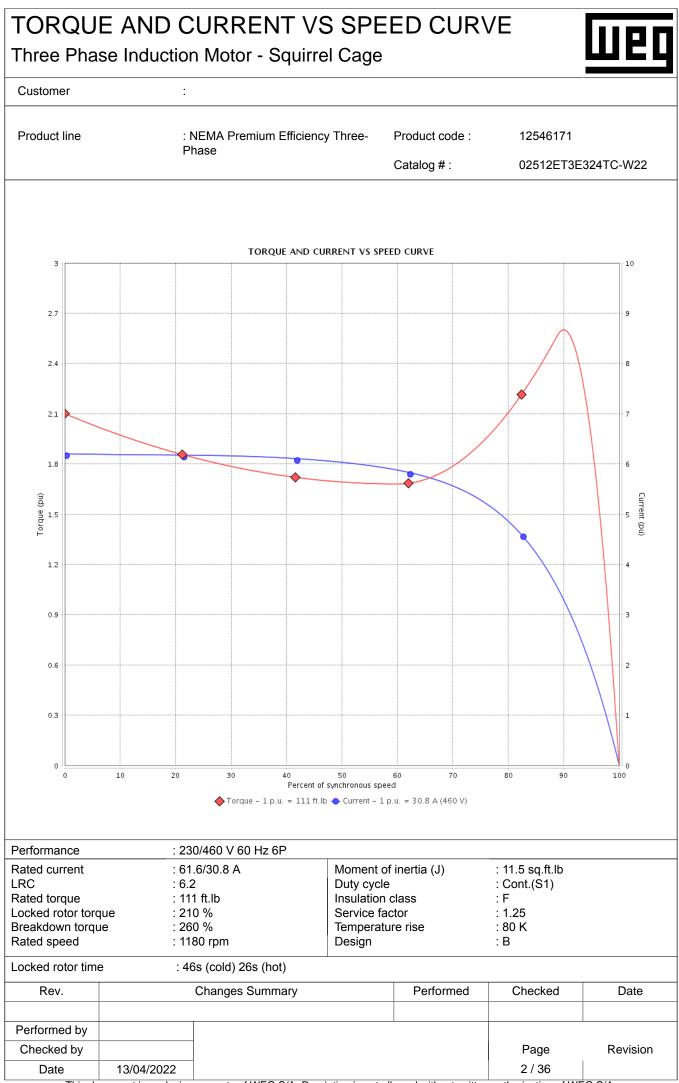
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Customer

Product line		: NEMA Premium Efficiency Three-			Product code	e: 12	2546171	
		Phase	Phase			02	02512ET3E324TC-W22	
Frame Insulation class Duty cycle Ambient tempera Altitude Protection degre Design		: 324/6TC : F : Cont.(S1) : -20°C to + : 1000 m.a. : IP55 : B		Mour Rotat Starti Appro		: F : E : C : E	C411 - TEFC -1 Both (CW and Direct On Line 561 lb 11.5 sq.ft.lb	
-								
Output [HP]		25	20	20	20	25	25	25
Poles		6	6	6	6	6	6	6
Frequency [Hz] Rated voltage [V]		60 230/460	50 380	50 400	50 415	50 380	50 400	50 415
Rated current [A]		61.6/30.8	30.3	29.4	28.6	36.8	35.1	34.2
. R. Amperes [A]		382/191	182		20.0	180	190	198
LRC [A]		6.2x(Code G)			H) 7.0x(Code J)			
No load current [A]	28.0/14.0	13.2	14.2	14.9	13.2	14.2	14.9
Rated speed [RPN		1180	980	985	985	975	980	980
Slip [%]	-	1.67	2.00	1.50	1.50	2.50	2.00	2.00
Rated torque [ft.lb]		111	107	107	107	135	134	134
Locked rotor torqu		210	200	229	250	160	180	200
Breakdown torque	[%]	260	250	290	310	200	229	250
Service factor		1.25	1.00	1.15	1.15	1.00	1.15	1.15
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
_ocked rotor time		46s (cold) 26s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)
Noise level ²		62.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)
	25%							
Efficiency (%)	50%	92.4	91.1	91.1	91.1	91.7	91.7	91.7
	75%	93.0	91.8	92.2	92.2	92.4	92.4	92.4
	100%	93.0	91.6	92.2	92.2	91.0	91.7	91.7
	25%							
Power Factor	50%	0.65	0.63	0.60	0.57	0.71	0.68	0.65
	75%	0.77	0.76	0.74	0.71	0.81	0.79	0.77
	100%	0.81	0.82	0.80	0.79	0.84	0.83	0.82
Bearing type		<u>Drive end</u> : 6312 C3	6212 (C3 Max. f	lation loads raction	: 1	005 lb	
Sealing Lubrication interv Lubricant amoun Lubricant type		: V'Ring : 20000 h : 21 g : Mobi		ĥ	compression	: 1:	566 lb	
Notes USABLE @208V	67.2A SF 1	.15 SFA 77.3A						
This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate w manufacturing pro (4) At 100% of ful	ed. otor from the m and with veight subjectocess.	e shaft end. tolerance of +3	8dB(A).		are average va supply, subjec			
Rev.		Changes	Summary		Performe	ed Che	ecked	Date
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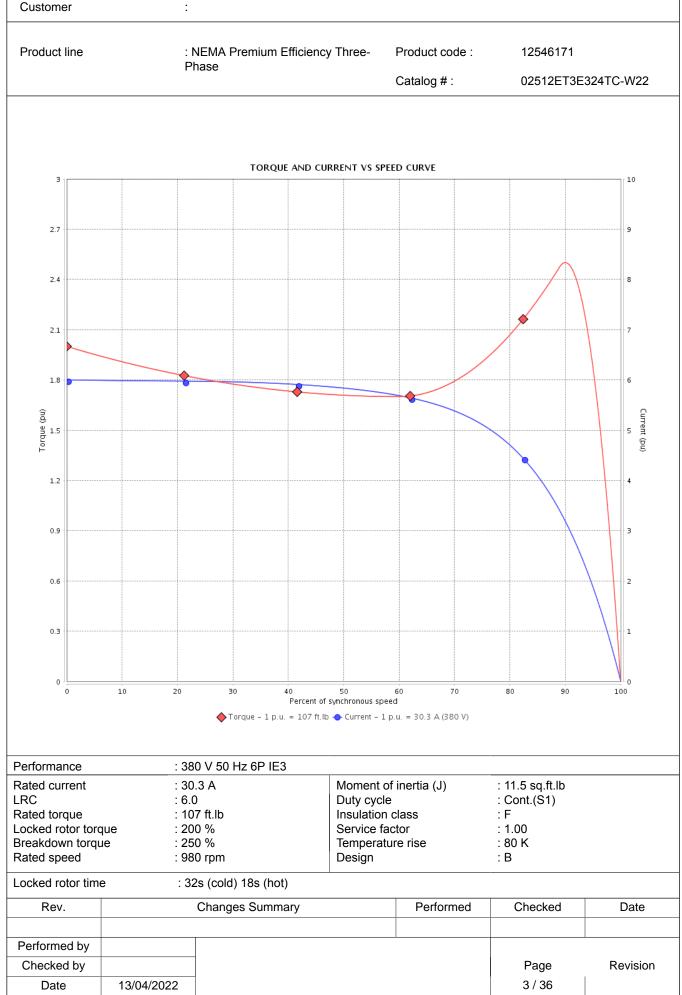


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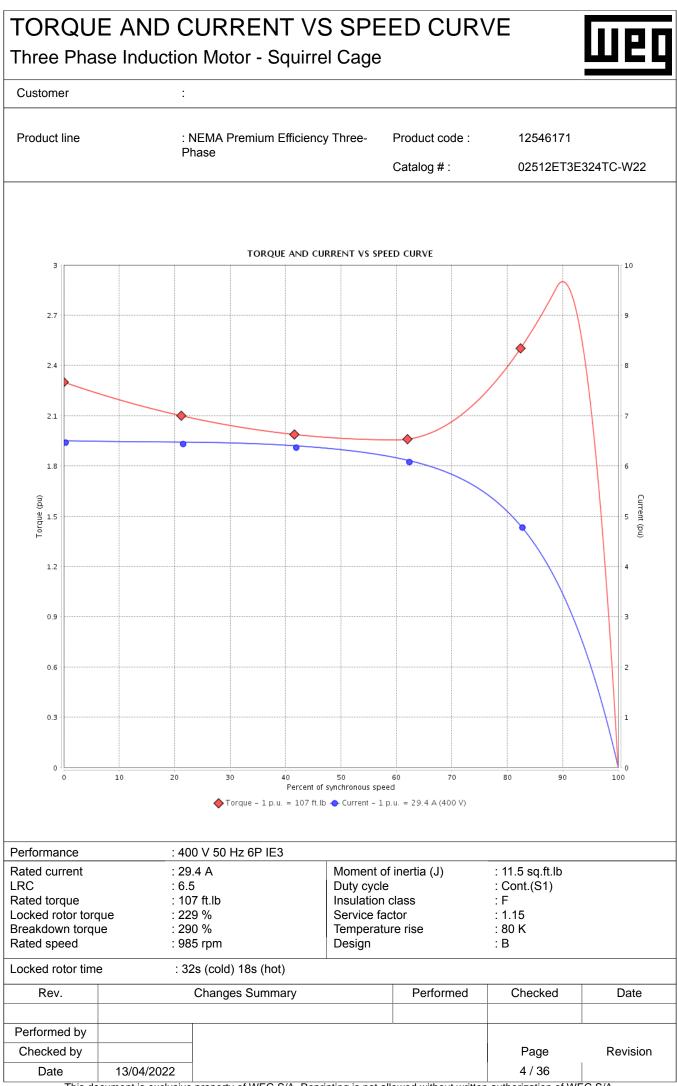
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage





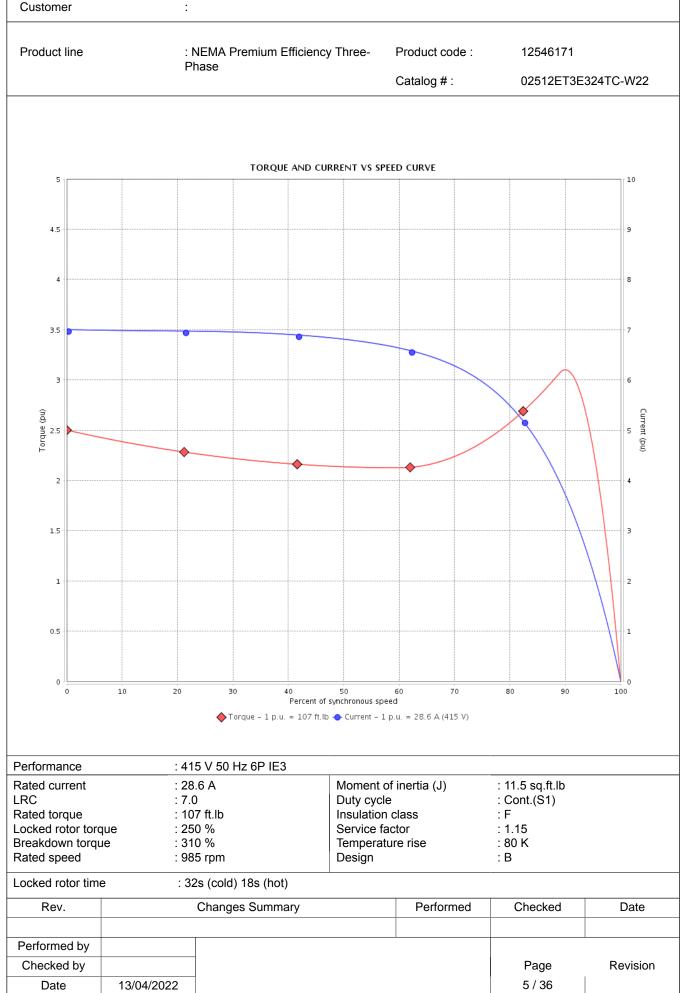
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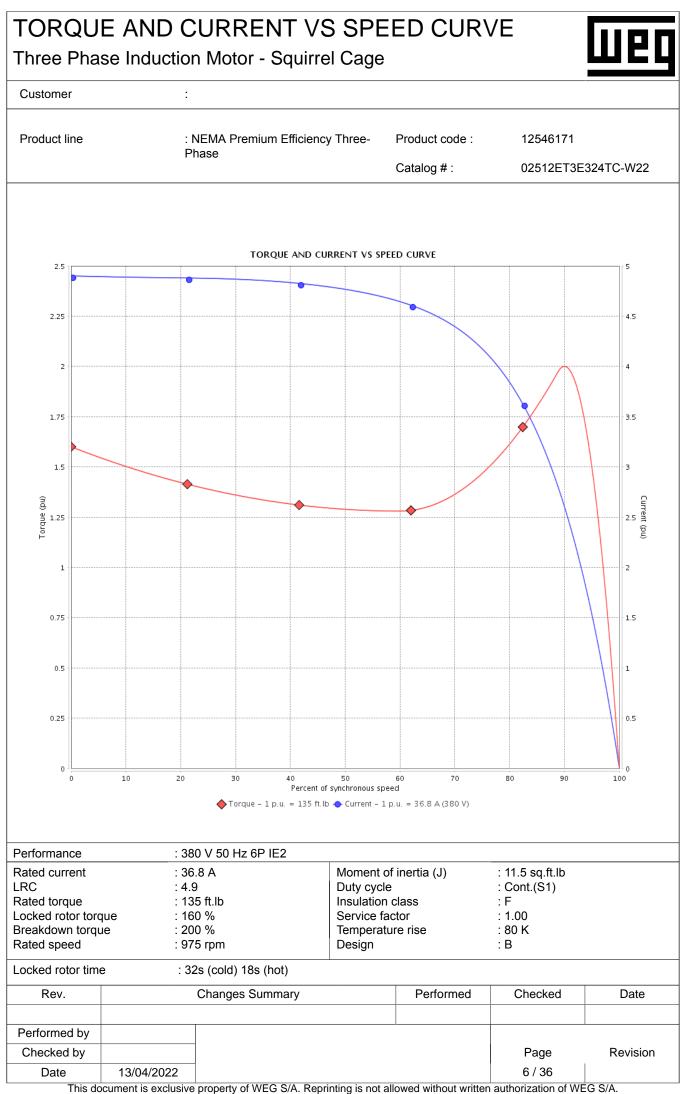
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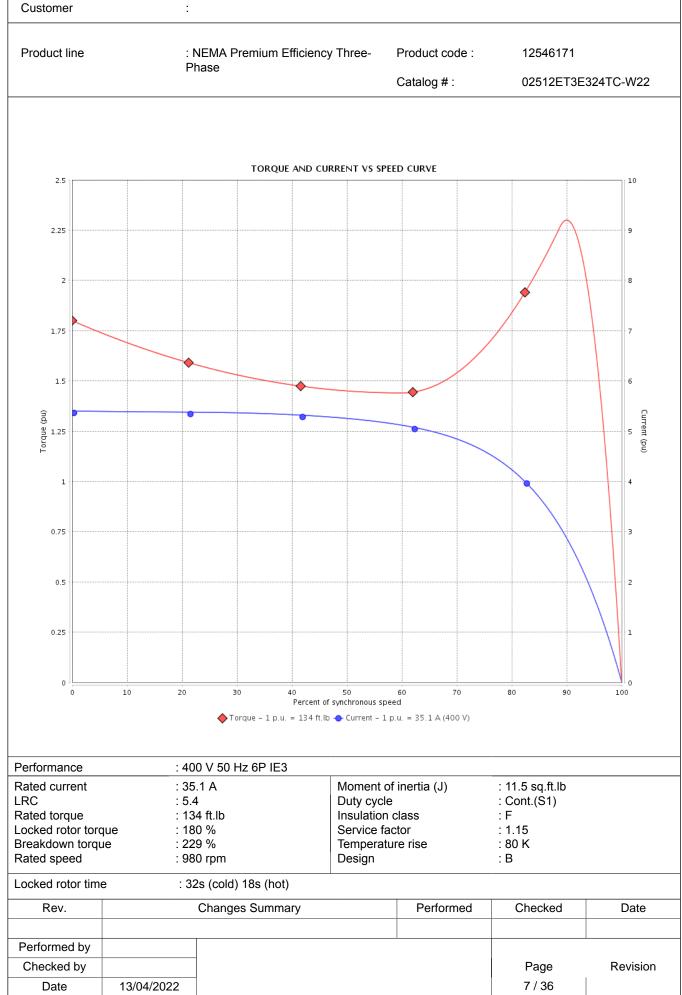


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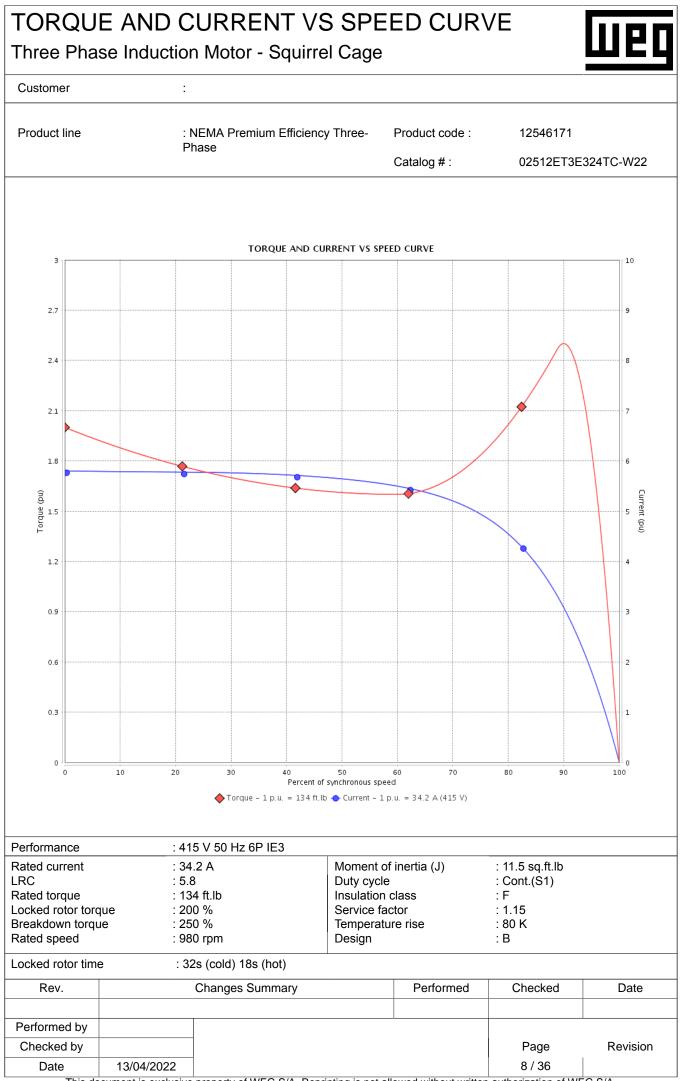
TORQUE AND CURRENT VS SPEED CURVE

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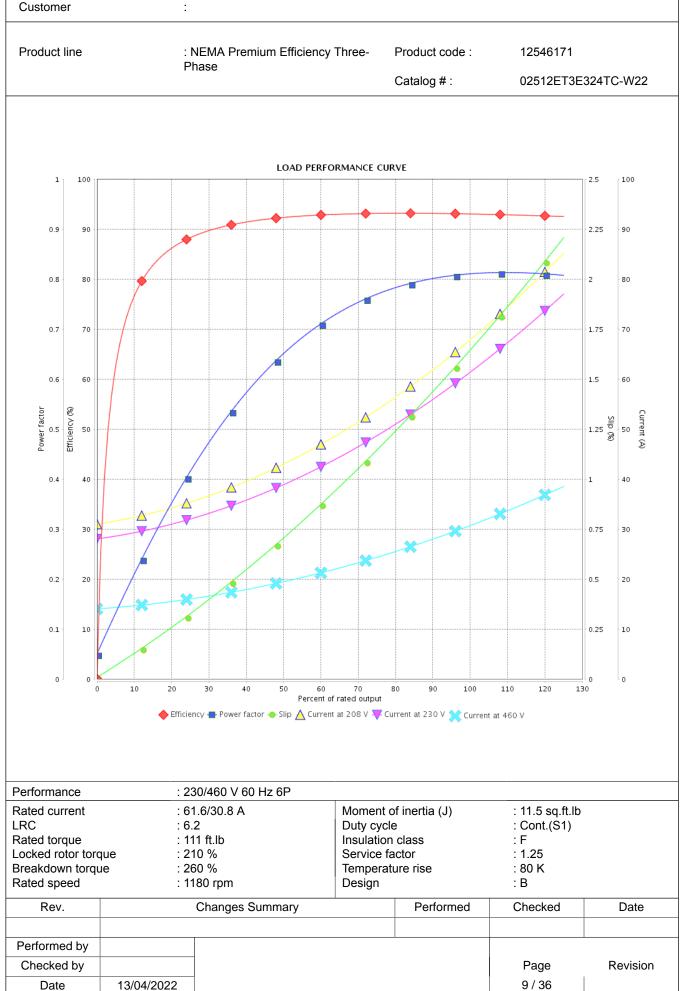


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Customer



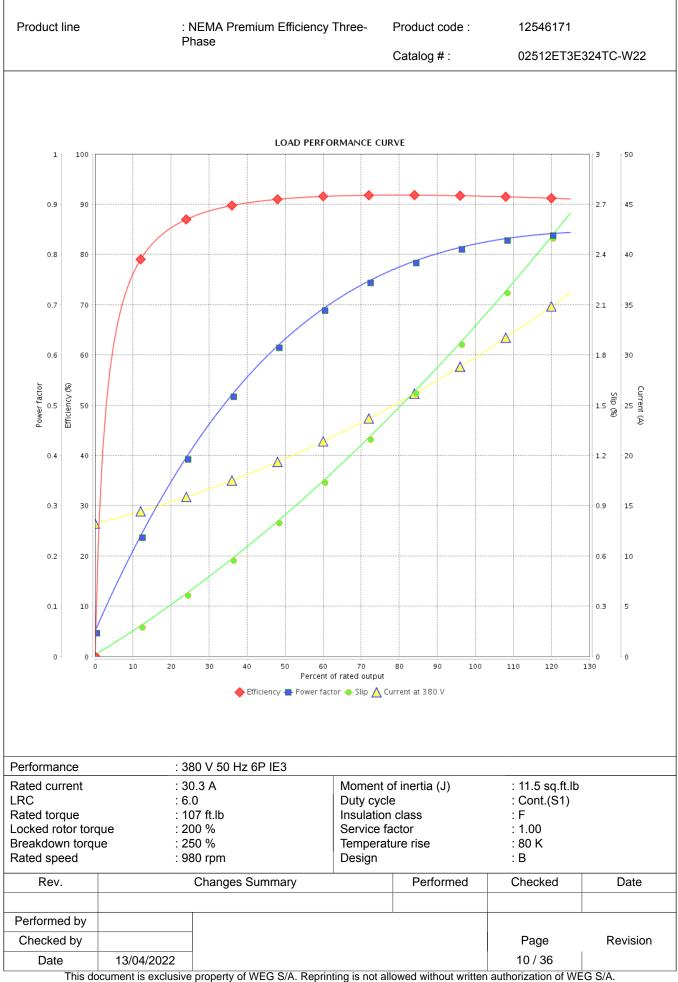
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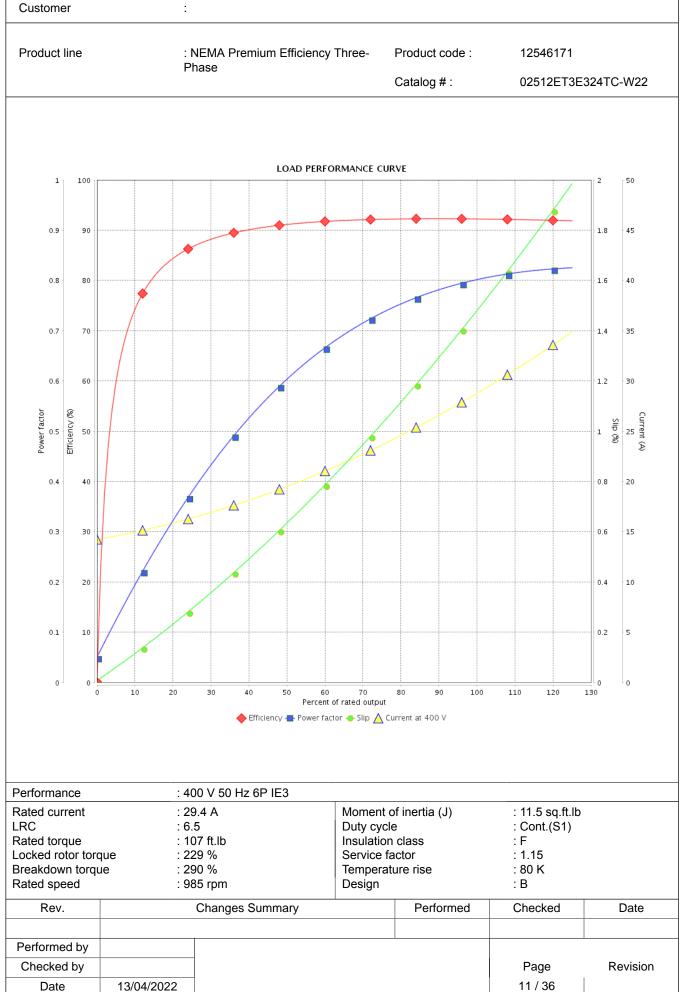


Customer



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Customer



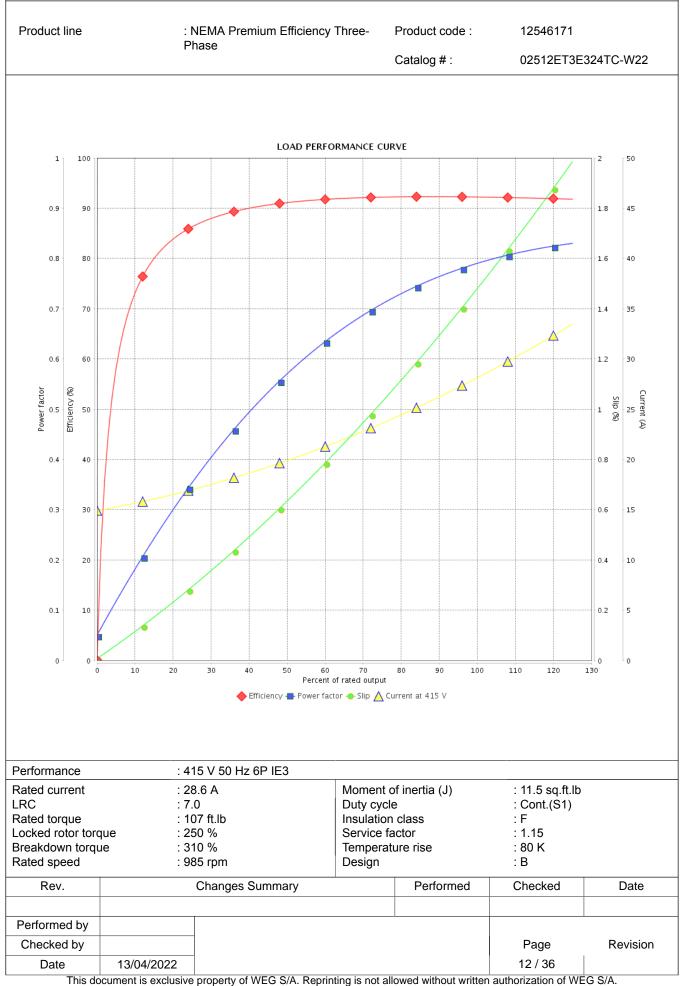
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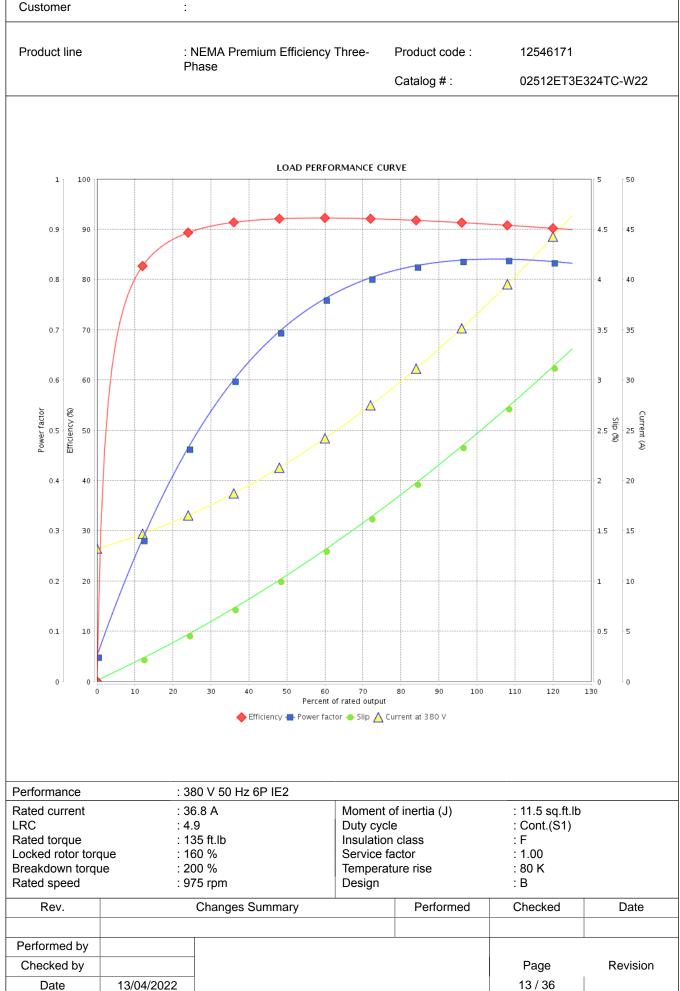


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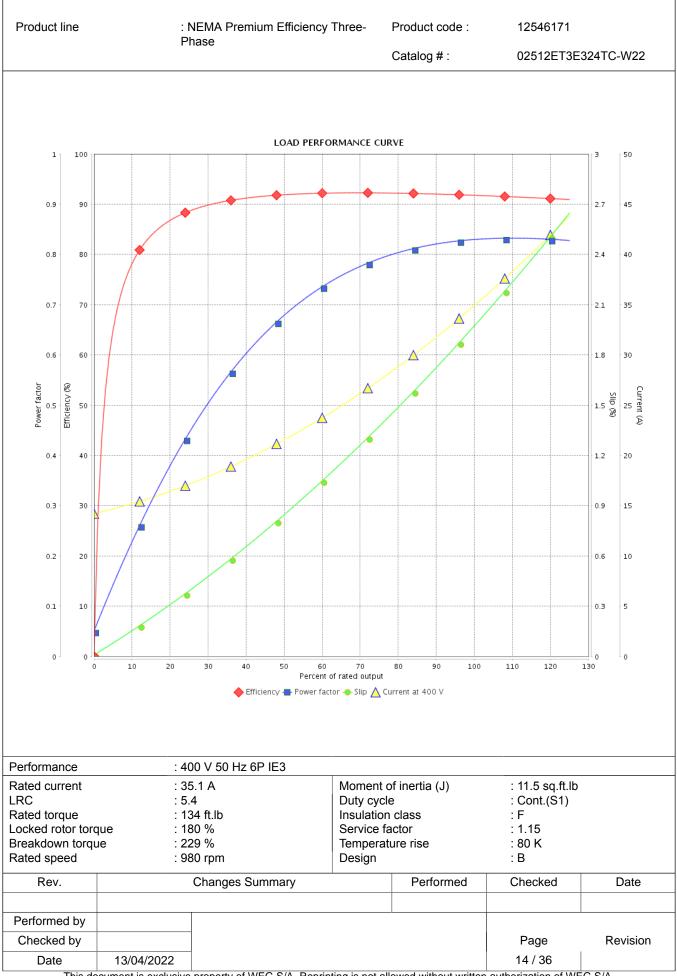
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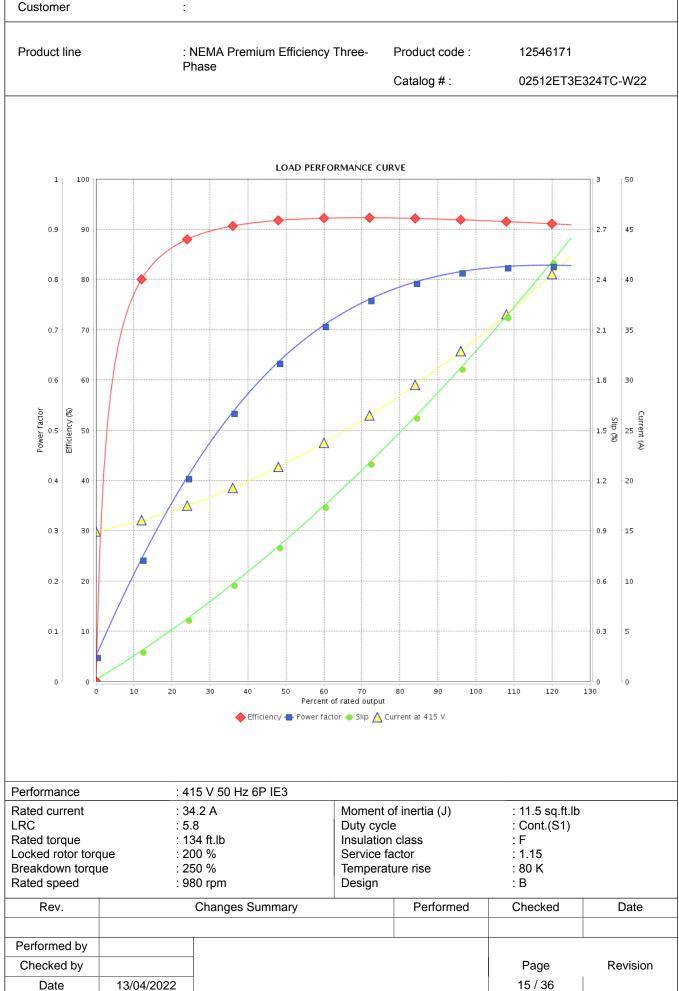


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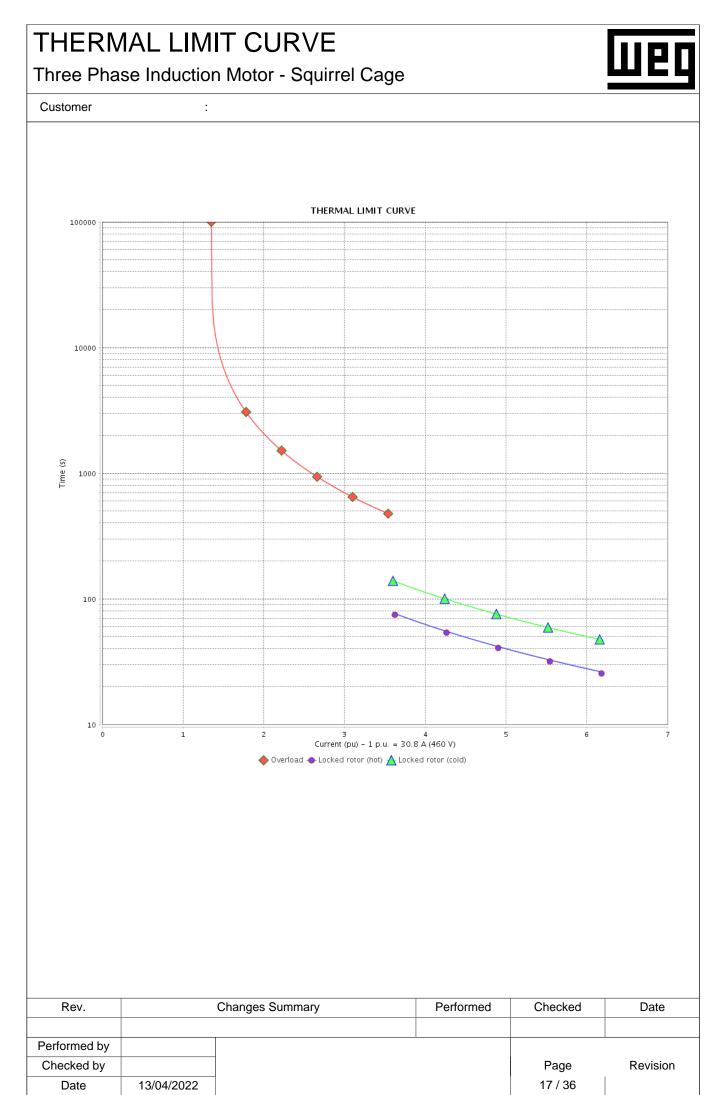
Customer



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Three Phase Indu	iction Motor - Squirrel Cage)	шсч
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12546171
	FlidSe	Catalog # :	02512ET3E324TC-W22

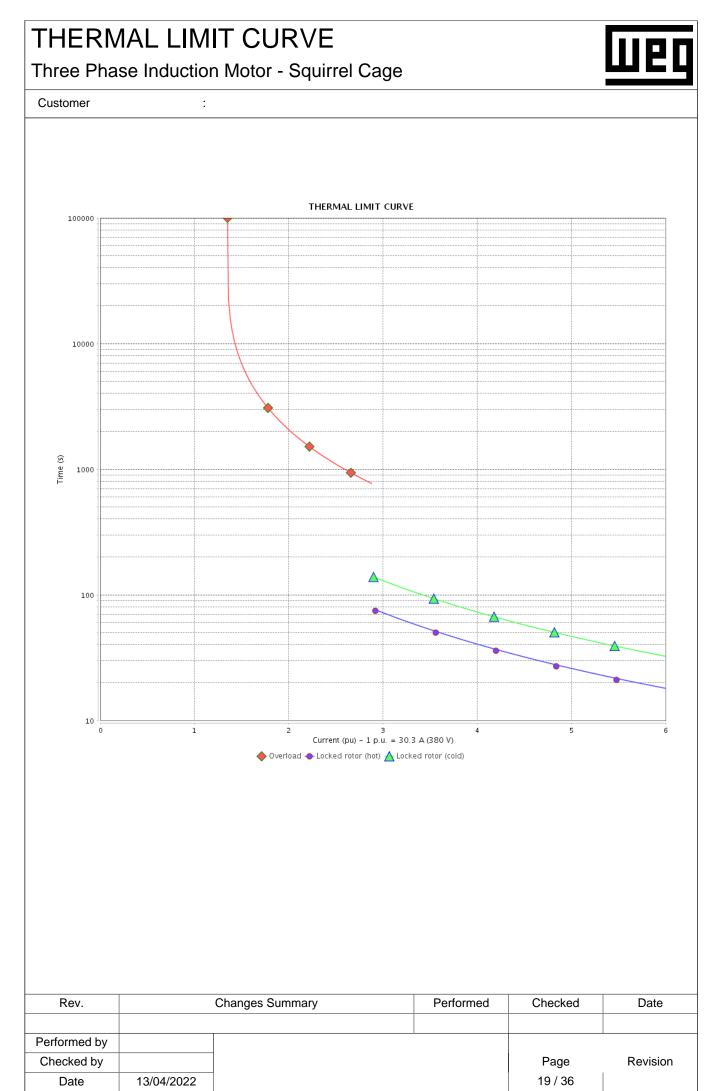
Performance		: 230/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	que	: 61.6/30.8 A : 6.2 : 111 ft.lb : 210 % : 260 % : 1180 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 11.5 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant	t					
Cooling constant	t					
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				16 / 36	
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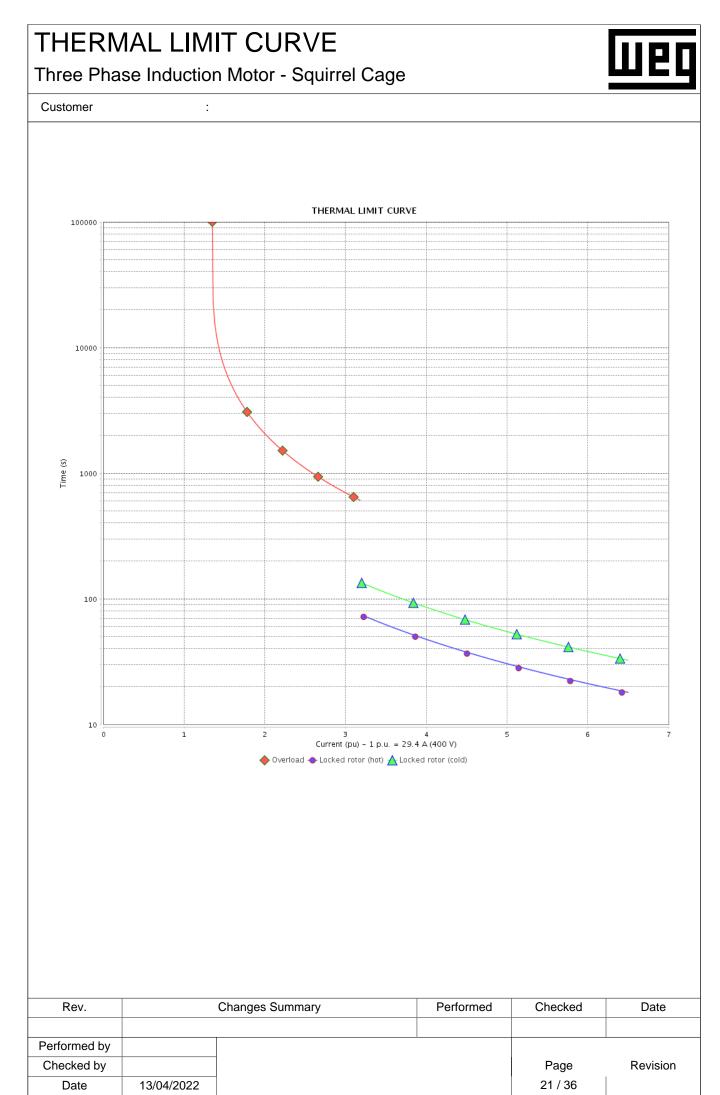
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Three Phase Induc	tion Motor - Squirrel Cage)	Шед					
Customer	:							
Product line	: NEMA Premium Efficiency Three-	Product code :	12546171					
	Phase	Catalog # :	02512ET3E324TC-W22					

Performance	: 3	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 6 : 1 que : 2 Je : 2	0.3 A 6.0 07 ft.lb 00 % 50 % 80 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 11.5 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constan	t					
Cooling constant	t					
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Date	13/04/2022				18 / 36	



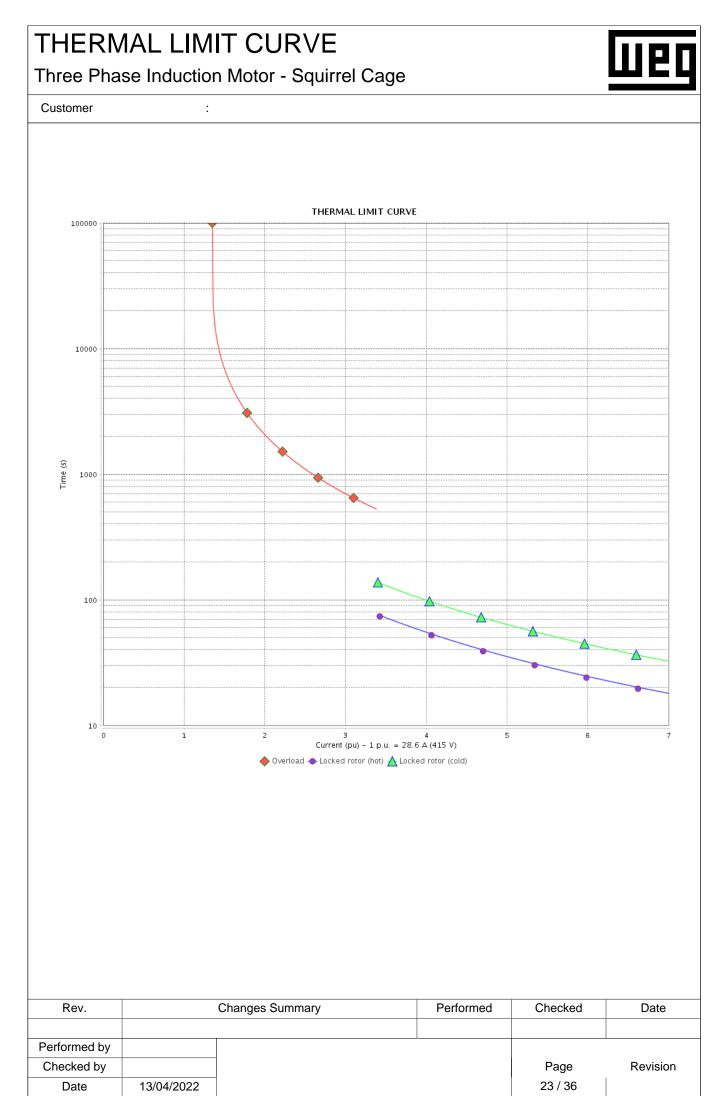
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Three Phase Ind	uction Motor - Squirrel Cage)	шец
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12546171
	Phase	Catalog # :	02512ET3E324TC-W22

Performance	:.	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	ue :	29.4 A 6.5 107 ft.lb 229 % 290 % 985 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 11.5 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constan	t					
Cooling constant	t					
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Checked by					Page	Revision
Date	13/04/2022				20 / 36	



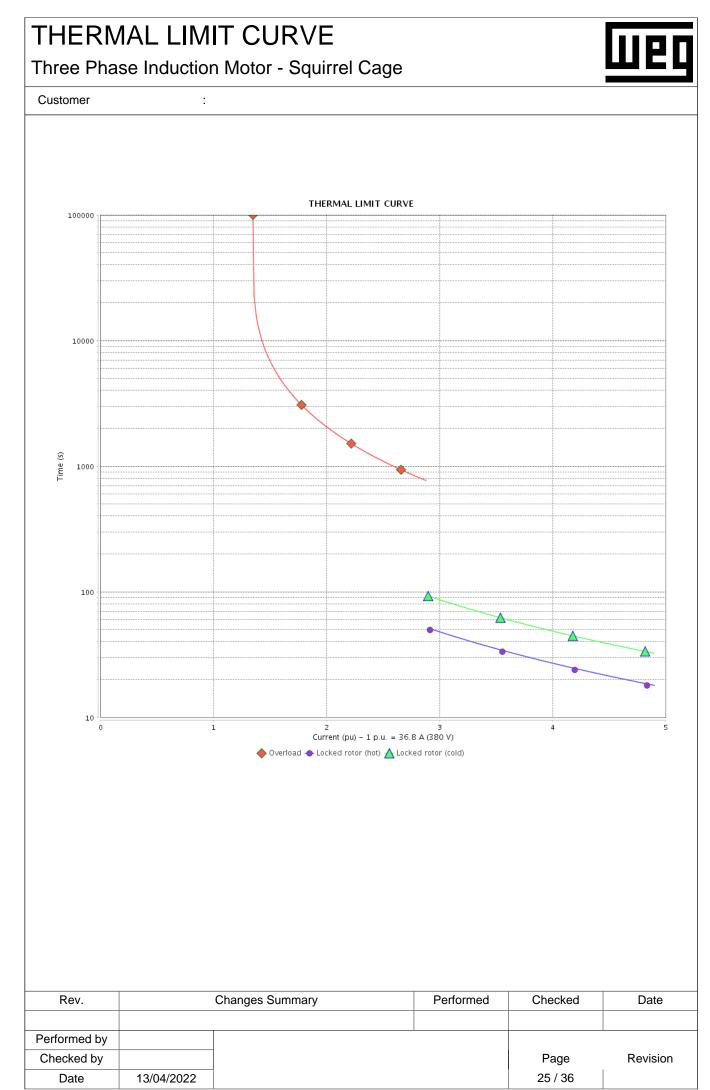
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Three Phase Ind	uction Motor - Squirrel Cage	;	шсч
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12546171
		Catalog # :	02512ET3E324TC-W22

Performance	-	415 V 50 Hz 6P IE3	·			
Rated current LRC Rated torque Locked rotor torqu Breakdown torqu Rated speed	jue :	28.6 A 7.0 107 ft.lb 250 % 310 % 985 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 11.5 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant	t					
Cooling constant	:					
Rev.		Changes Summary	·	Performed	Checked	Date
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Date	13/04/2022				22 / 36	
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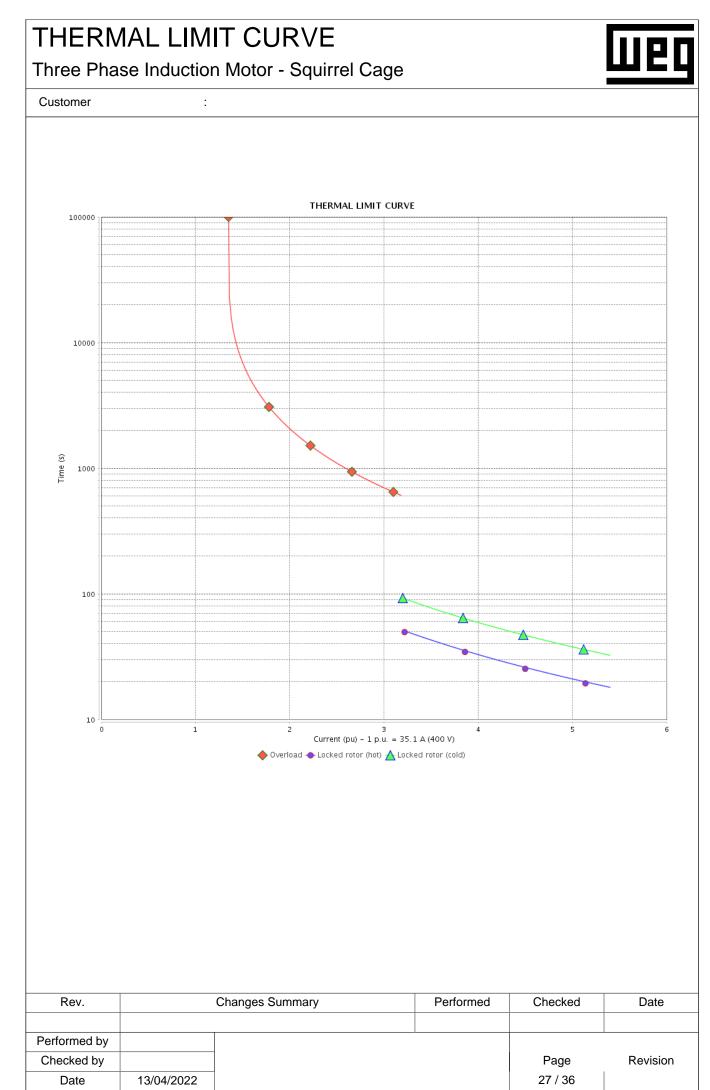
THERMAL LIMIT CURVE							
Three Phase Ind	luction Motor - Squirrel Cage	;	шец				
Customer	:						
Product line	: NEMA Premium Efficiency Three-	Product code :	12546171				
	Phase	Catalog # :	02512ET3E324TC-W22				

Performance	: 38	80 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 4 : 1; que : 10 ue : 20	6.8 A .9 35 ft.lb 60 % 00 % 75 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 11.5 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant						
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Performed by						
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Date	13/04/2022	1			24 / 36	



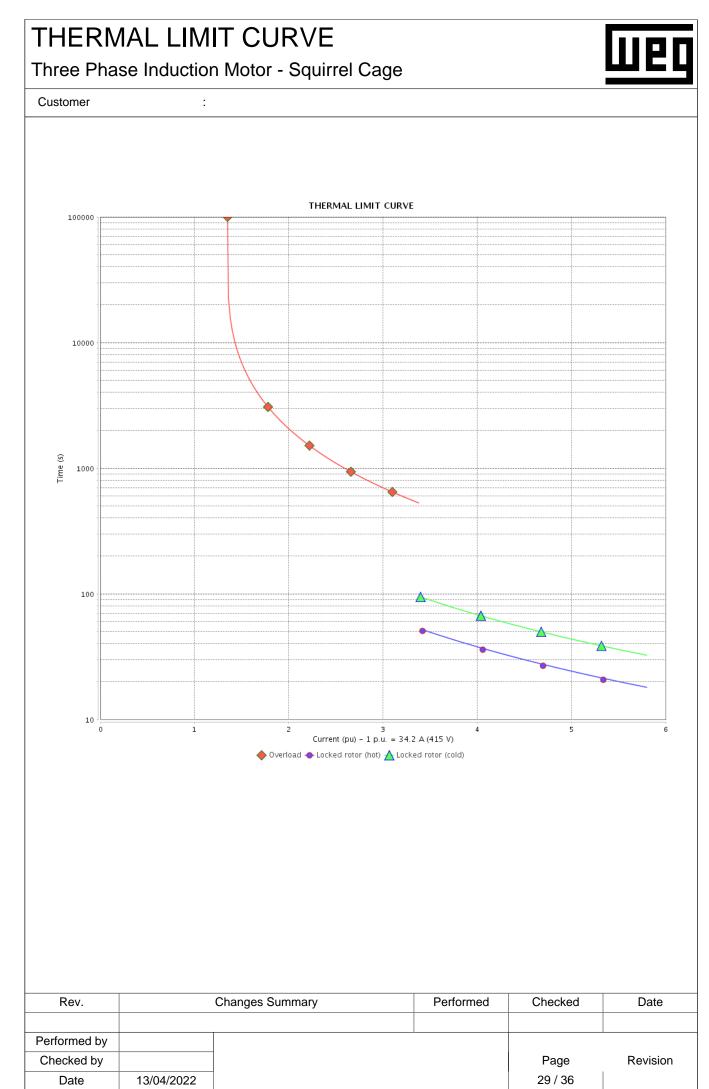
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Three Phase Ind	luction Motor - Squirrel Cage	;	шсч
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12546171
	Thase	Catalog # :	02512ET3E324TC-W22

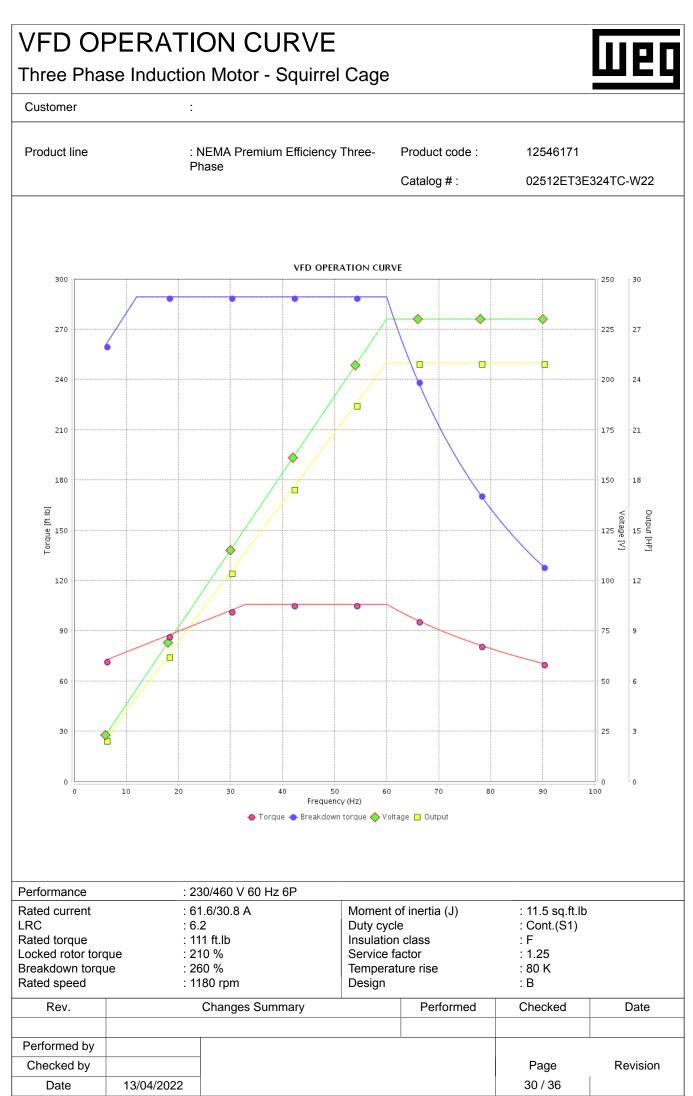
Performance	: 4	00 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 5 : 1 que : 1 Je : 2	5.1 A .4 34 ft.lb 80 % 29 % 80 rpm	Moment o Duty cycle Insulation Service fa Temperate Design	class ctor	: 11.5 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant	t				·	
Cooling constant	t					
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Performed by				·		
Checked by					Page	Revision
Date	13/04/2022				26 / 36	



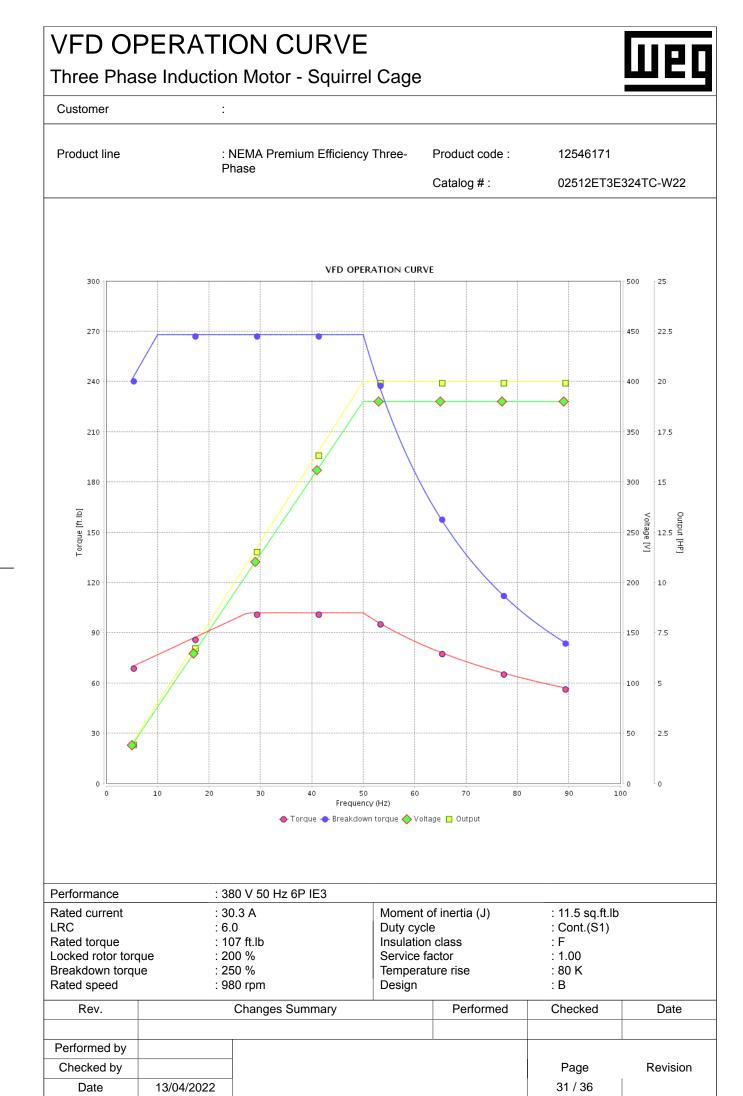
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Three Phase Indu	ction Motor - Squirrel Cage)	шсч
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12546171
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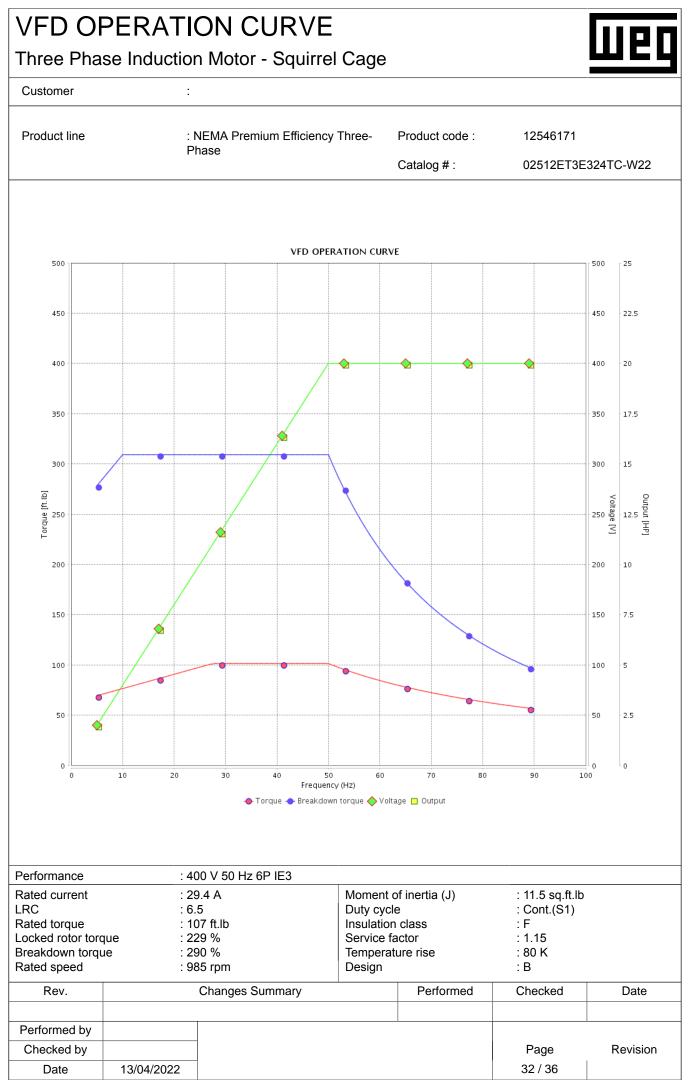
Performance		: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	que	: 34.2 A : 5.8 : 134 ft.lb : 200 % : 250 % : 980 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 11.5 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant	t					
Cooling constant	t					
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Performed by Checked by	13/04/2022				Page 28 / 36	Revision
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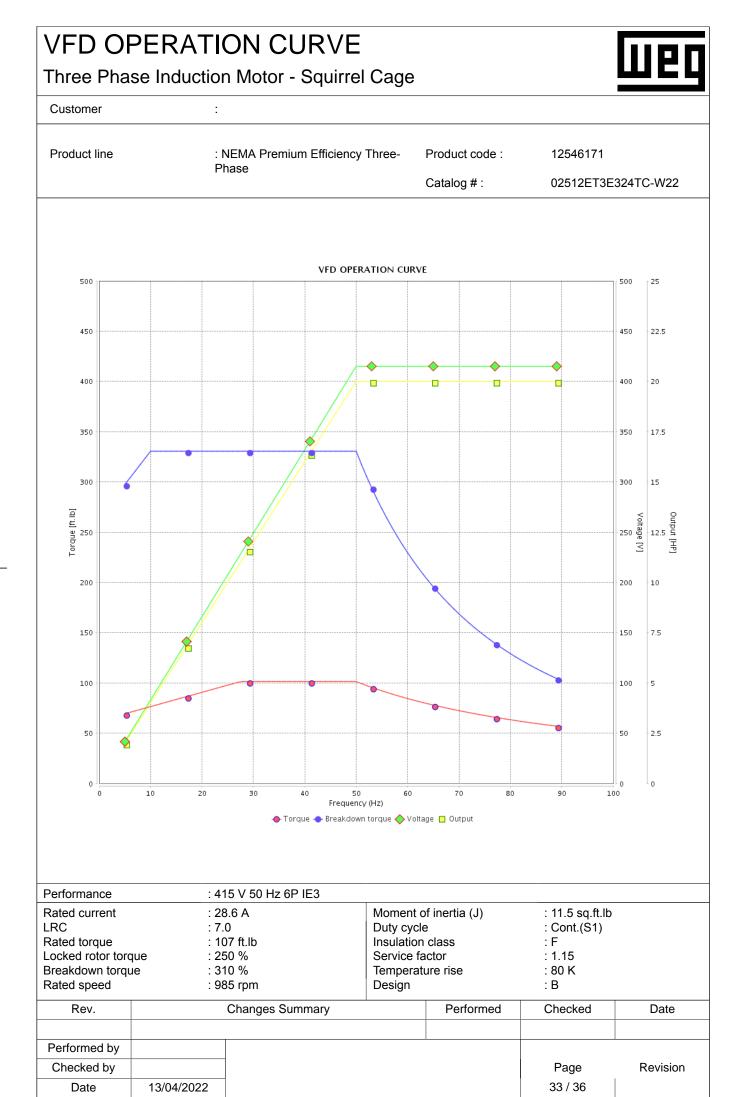


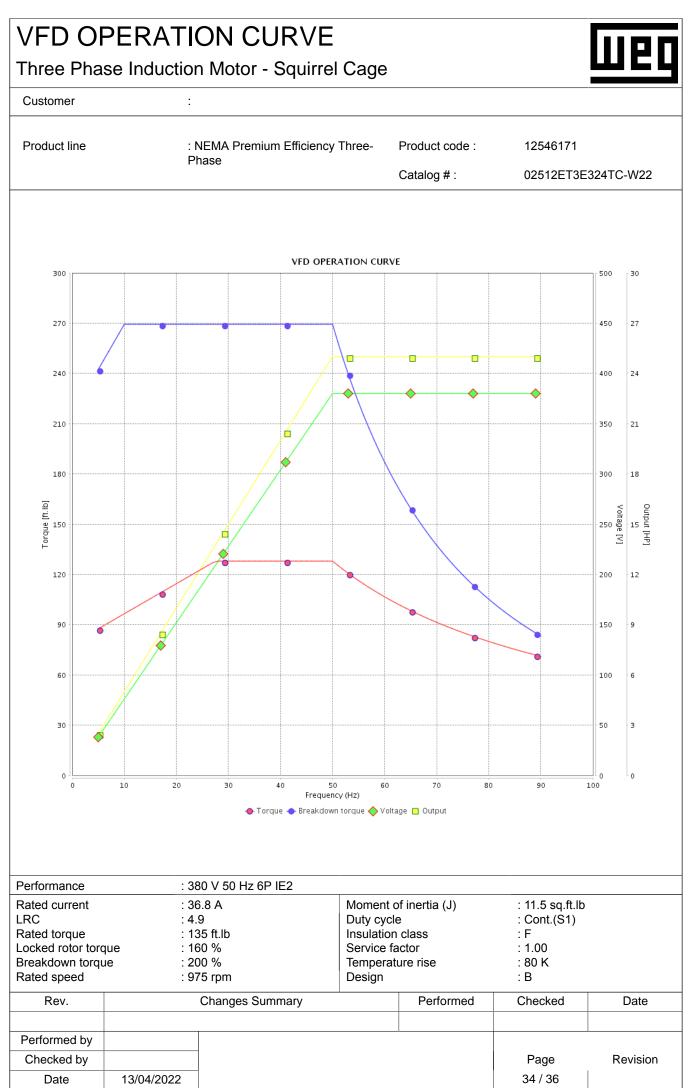


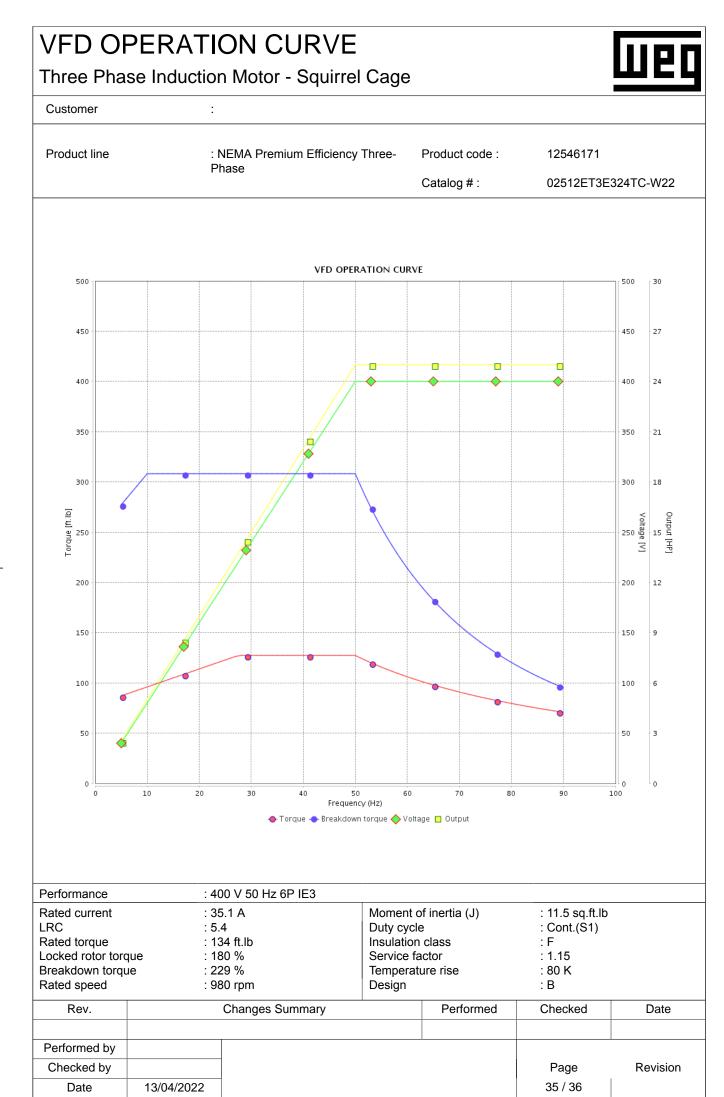
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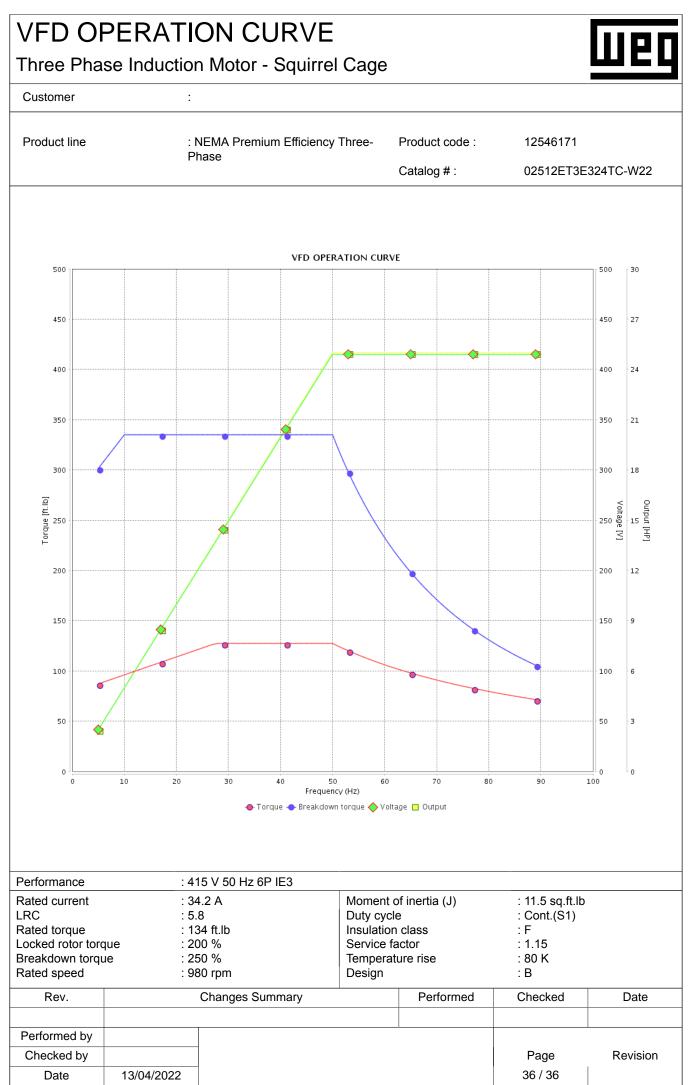


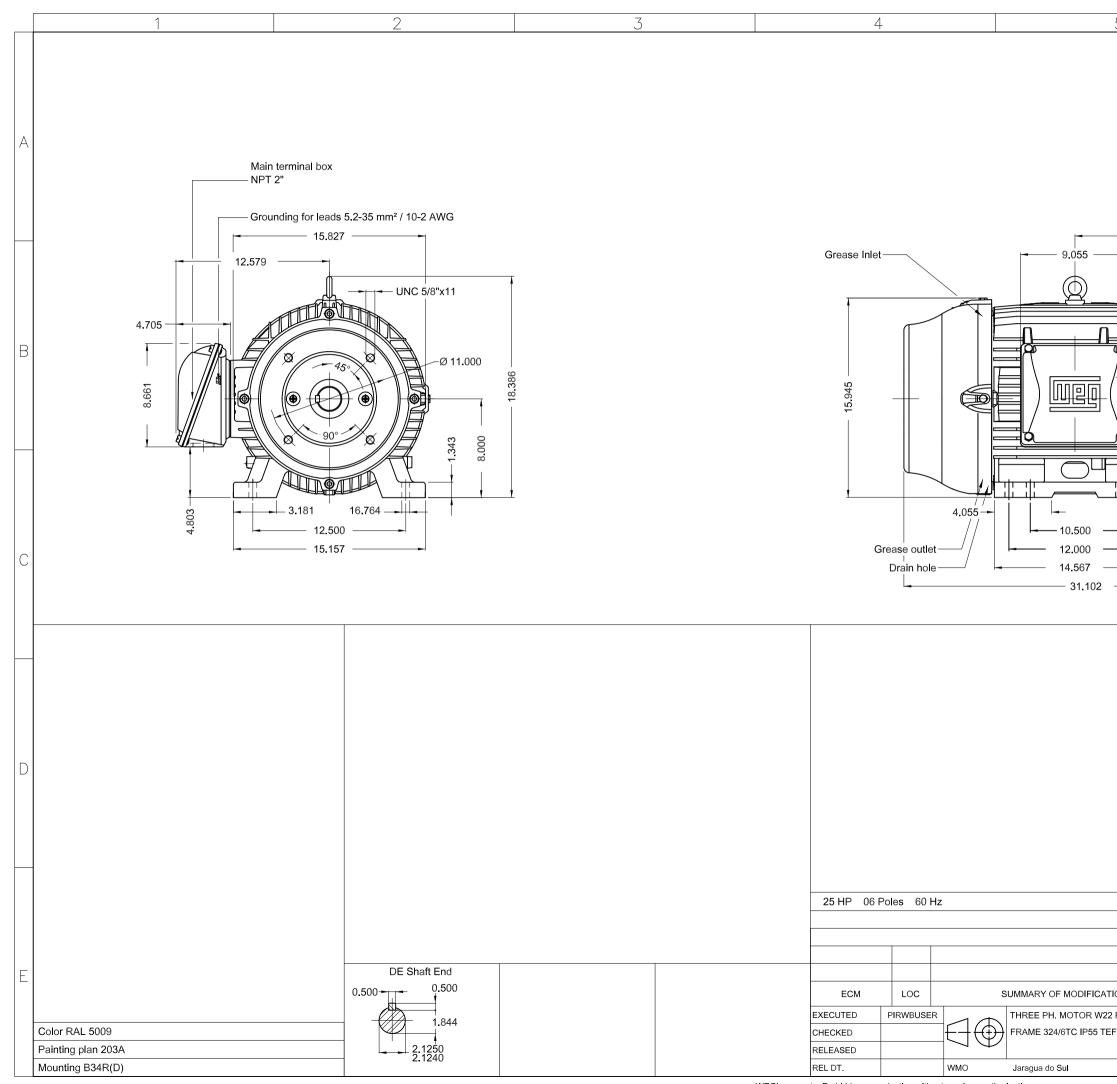












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