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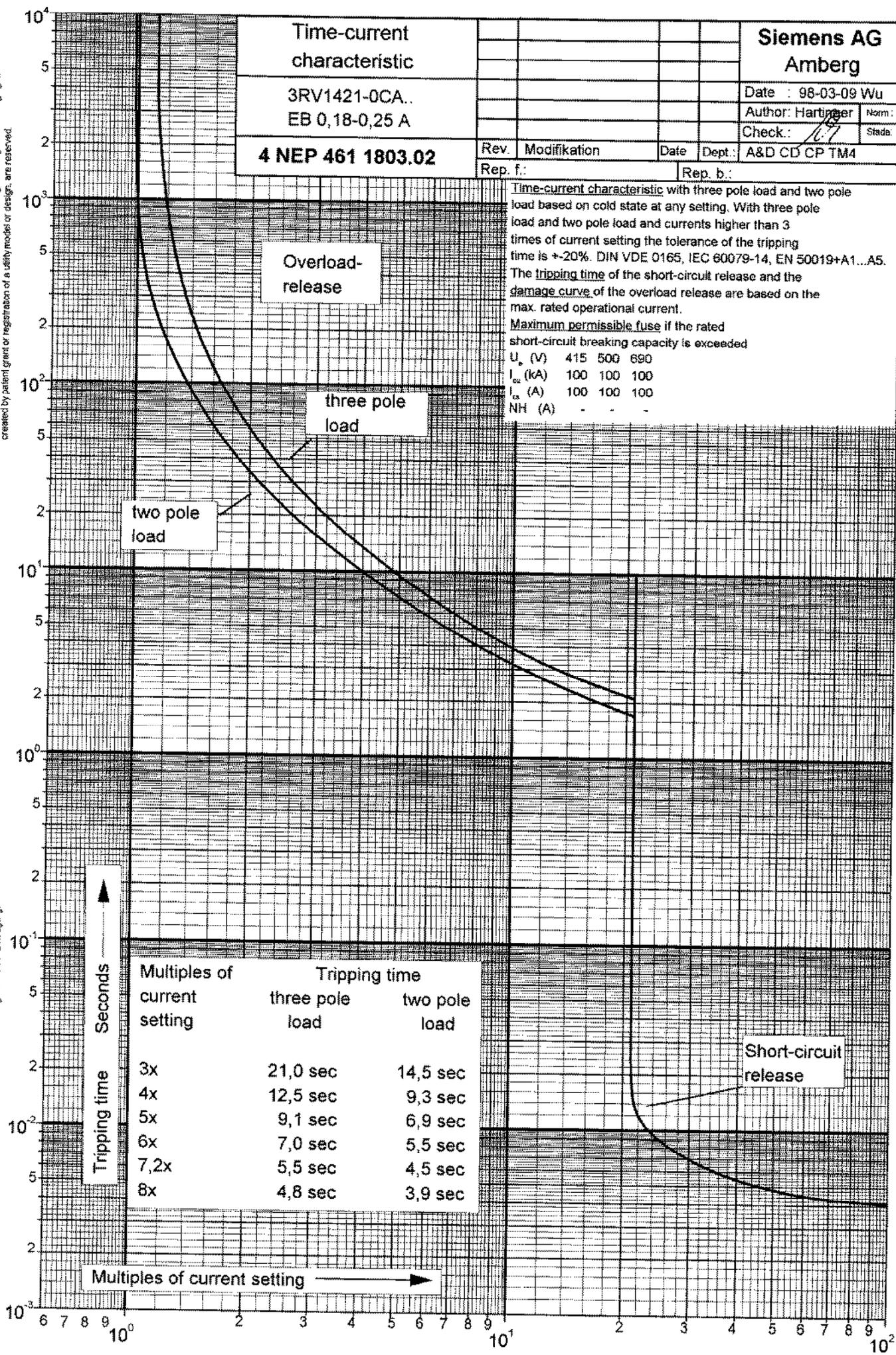
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Time-current characteristic				Siemens AG Amberg			
3RV1421-0CA.. EB 0,18-0,25 A				Date : 98-03-09 Wu			
4 NEP 461 1803.02				Rev.	Modifikation	Date	Dept.:
				Rep. f.:	Rep. b.:		
				A&D CD CP TM4			
				Norm:			
				Stade:			

Time-current characteristic with three pole load and two pole load based on cold state at any setting. With three pole load and two pole load and currents higher than 3 times of current setting the tolerance of the tripping time is $\pm 20\%$. DIN VDE 0165, IEC 60079-14, EN 50019+A1...A5. The tripping time of the short-circuit release and the damage curve of the overload release are based on the max. rated operational current.

Maximum permissible fuse if the rated short-circuit breaking capacity is exceeded

U_n (V)	415	500	690
I_{sc} (kA)	100	100	100
I_{cs} (A)	100	100	100
NH (A)	-	-	-



Multiples of current setting	Tripping time	
	three pole load	two pole load
3x	21,0 sec	14,5 sec
4x	12,5 sec	9,3 sec
5x	9,1 sec	6,9 sec
6x	7,0 sec	5,5 sec
7,2x	5,5 sec	4,5 sec
8x	4,8 sec	3,9 sec

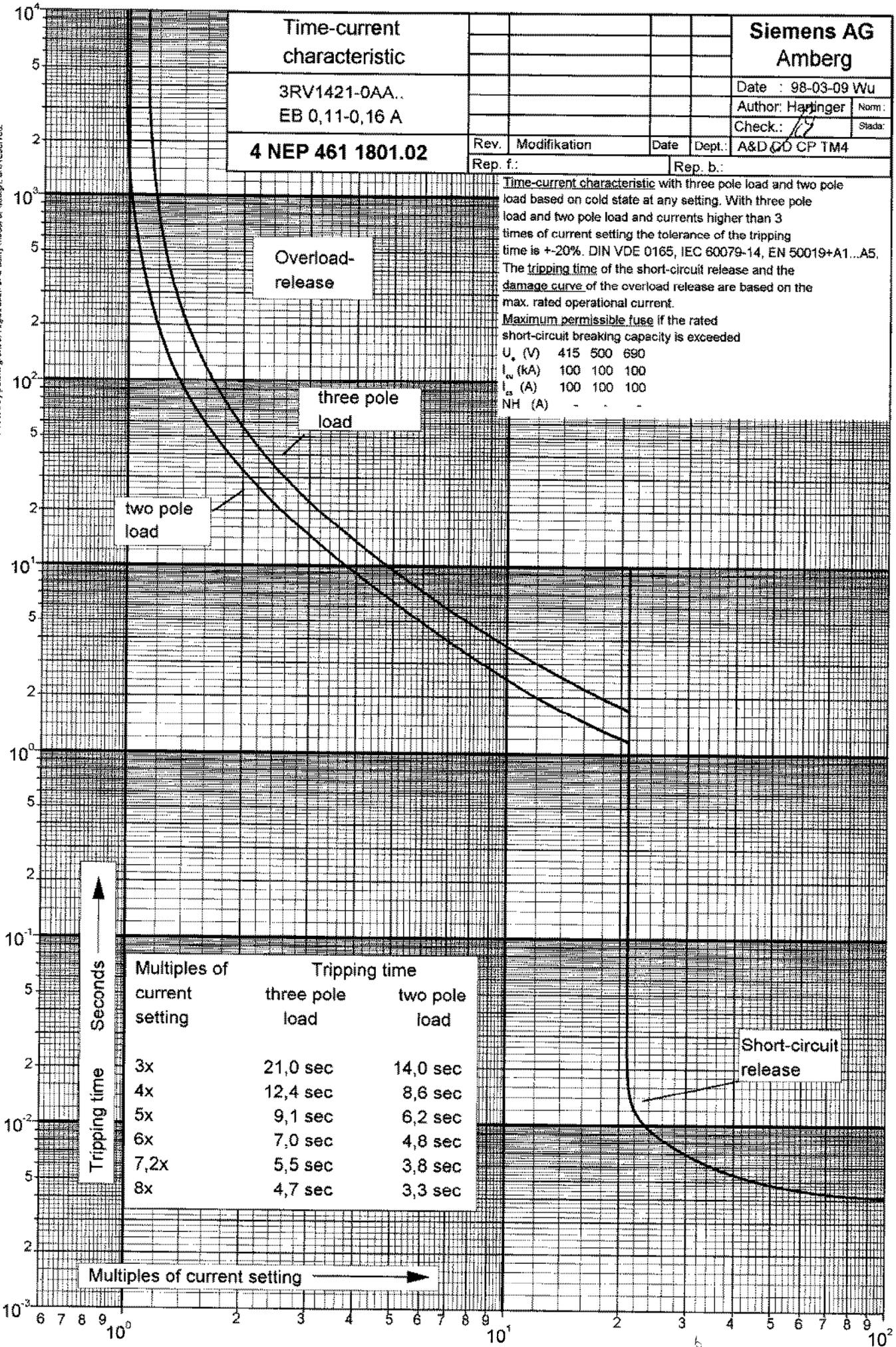
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Time-current characteristic				Siemens AG Amberg			
3RV1421-0AA.. EB 0,11-0,16 A				Date : 98-03-09 Wu			
4 NEP 461 1801.02				Rev. Modification		Date	Dept.
				Rep. f.:		Rep. b.:	
				Author: Hartinger Norm:			
				Check.: [Signature] Stada:			
				A&D GD CP TM4			

Time-current characteristic with three pole load and two pole load based on cold state at any setting. With three pole load and two pole load and currents higher than 3 times of current setting the tolerance of the tripping time is +20%. DIN VDE 0165, IEC 60079-14, EN 50019+A1...A5. The tripping time of the short-circuit release and the damage curve of the overload release are based on the max. rated operational current.
Maximum permissible fuse if the rated short-circuit breaking capacity is exceeded

U _e (V)	415	500	690
I _n (kA)	100	100	100
I _{cs} (A)	100	100	100
NH (A)	-	-	-



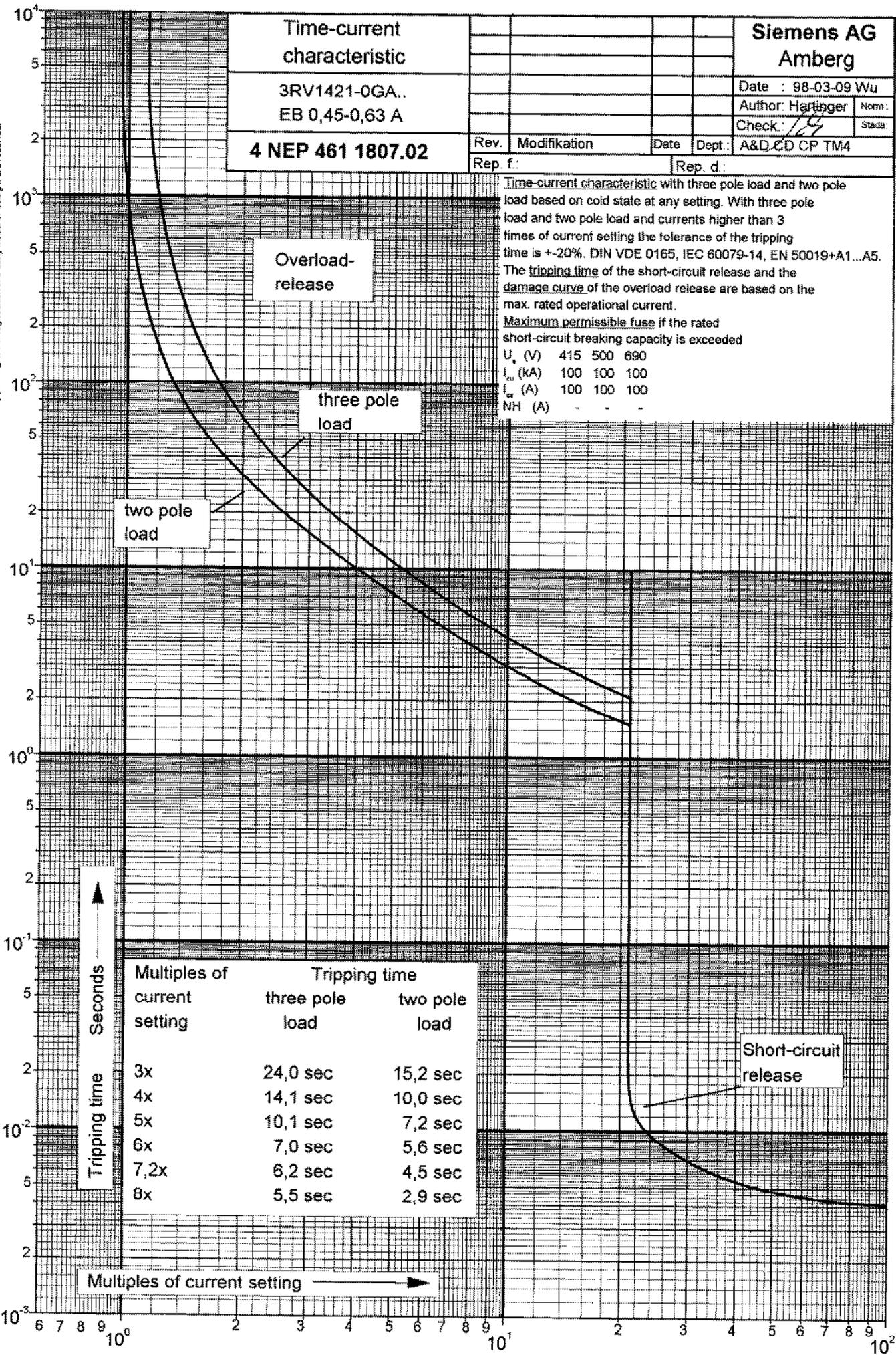
Multiples of current setting	Tripping time	
	three pole load	two pole load
3x	21,0 sec	14,0 sec
4x	12,4 sec	8,6 sec
5x	9,1 sec	6,2 sec
6x	7,0 sec	4,8 sec
7,2x	5,5 sec	3,8 sec
8x	4,7 sec	3,3 sec

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Time-current characteristic		Siemens AG Amberg	
3RV1421-0GA.. EB 0,45-0,63 A		Date : 98-03-09 Wu	Author: Hartinger Norm:
4 NEP 461 1807.02		Check: <i>[Signature]</i> Stada:	Rev. Modification Date Dept.: A&D/CD CP TM4
Rep. f.:	Rep. d.:		

Time-current characteristic with three pole load and two pole load based on cold state at any setting. With three pole load and two pole load and currents higher than 3 times of current setting the tolerance of the tripping time is +20%. DIN VDE 0165, IEC 60079-14, EN 50019+A1...A5. The tripping time of the short-circuit release and the damage curve of the overload release are based on the max. rated operational current.
Maximum permissible fuse if the rated short-circuit breaking capacity is exceeded

U _e (V)	415	500	690
I _{cu} (kA)	100	100	100
I _{cr} (A)	100	100	100
NH (A)	-	-	-



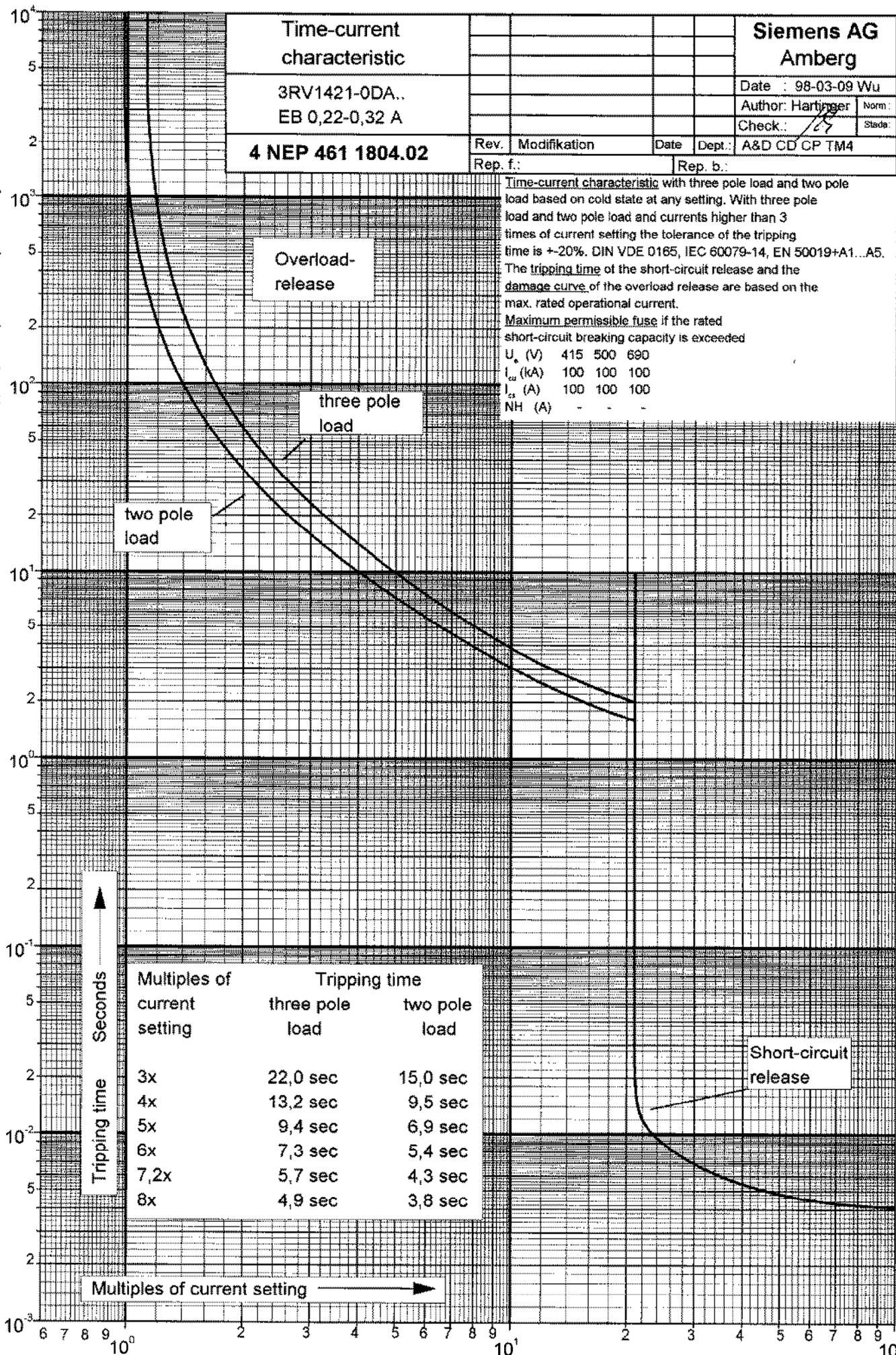
Multiples of current setting	Tripping time	
	three pole load	two pole load
3x	24,0 sec	15,2 sec
4x	14,1 sec	10,0 sec
5x	10,1 sec	7,2 sec
6x	7,0 sec	5,6 sec
7,2x	6,2 sec	4,5 sec
8x	5,5 sec	2,9 sec

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Time-current characteristic		Siemens AG Amberg	
3RV1421-0DA.. EB 0,22-0,32 A		Date : 98-03-09 Wu	Author: Hartinger Norm:
4 NEP 461 1804.02		Check.: / 27	Stada:
Rev.	Modifikation	Date	Dept.: A&D CD CP TM4
Rep. f.:		Rep. b.:	



Time-current characteristic with three pole load and two pole load based on cold state at any setting. With three pole load and two pole load and currents higher than 3 times of current setting the tolerance of the tripping time is +20%. DIN VDE 0165, IEC 60079-14, EN 50019+A1...A5. The tripping time of the short-circuit release and the damage curve of the overload release are based on the max. rated operational current. Maximum permissible fuse if the rated short-circuit breaking capacity is exceeded

U _n (V)	415	500	690
I _{cu} (kA)	100	100	100
I _{cs} (A)	100	100	100
NH (A)	-	-	-

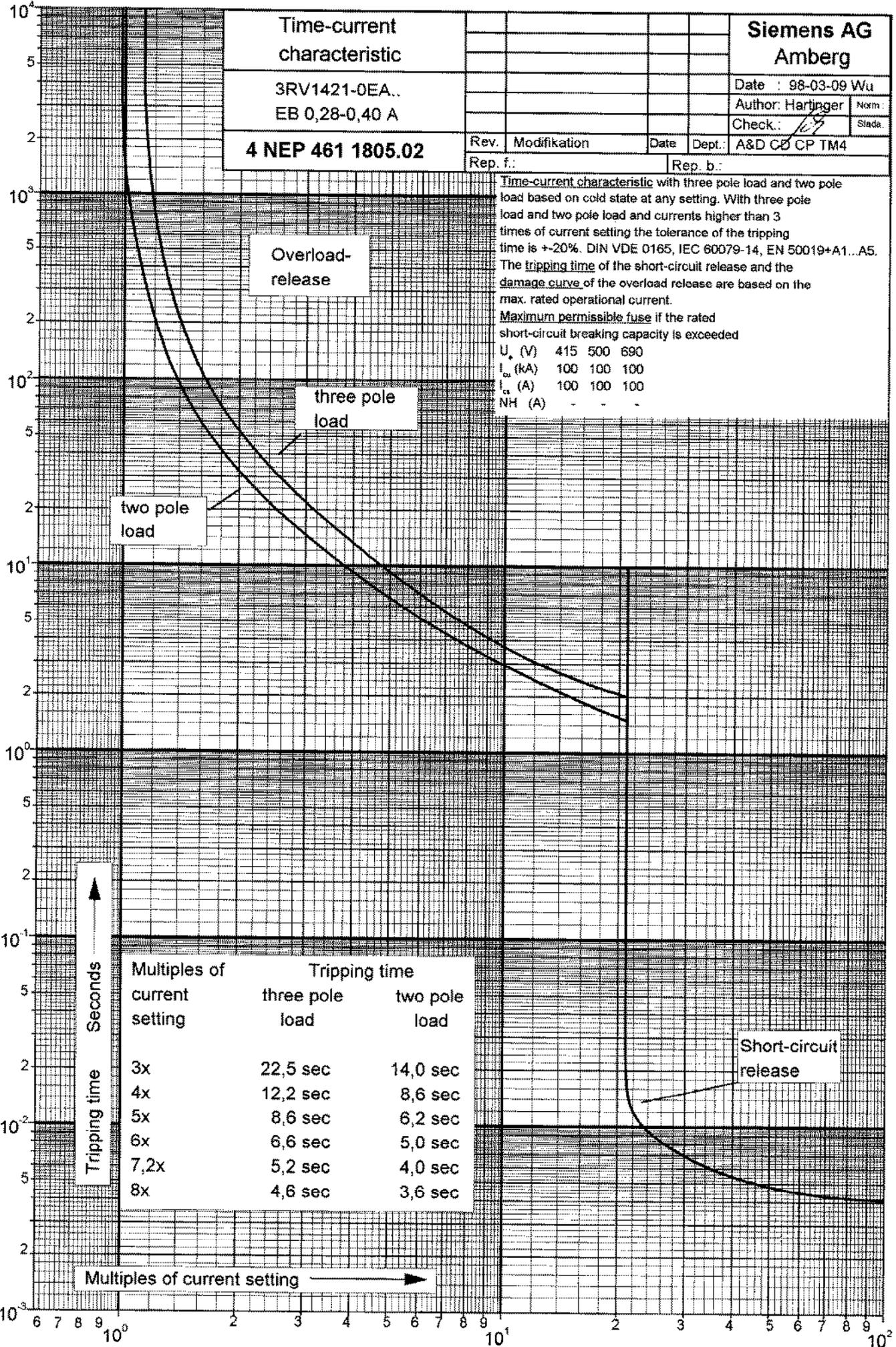
Multiples of current setting	Tripping time	
	three pole load	two pole load
3x	22,0 sec	15,0 sec
4x	13,2 sec	9,5 sec
5x	9,4 sec	6,9 sec
6x	7,3 sec	5,4 sec
7,2x	5,7 sec	4,3 sec
8x	4,9 sec	3,8 sec

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Time-current characteristic				Siemens AG Amberg	
3RV1421-0EA.. EB 0,28-0,40 A				Date : 98-03-09 Wu	
4 NEP 461 1805.02		Rev.	Modifikation	Date	Dept.: A&D CB CP TM4
		Rep. f.:	Rep. b.:		

Time-current characteristic with three pole load and two pole load based on cold state at any setting. With three pole load and two pole load and currents higher than 3 times of current setting the tolerance of the tripping time is $\pm 20\%$. DIN VDE 0165, IEC 60079-14, EN 50019+A1...A5. The tripping time of the short-circuit release and the damage curve of the overload release are based on the max. rated operational current.
 Maximum permissible fuse if the rated short-circuit breaking capacity is exceeded

U_n (V)	415	500	690
I_{sc} (kA)	100	100	100
I_{cc} (A)	100	100	100
NH (A)	-	-	-

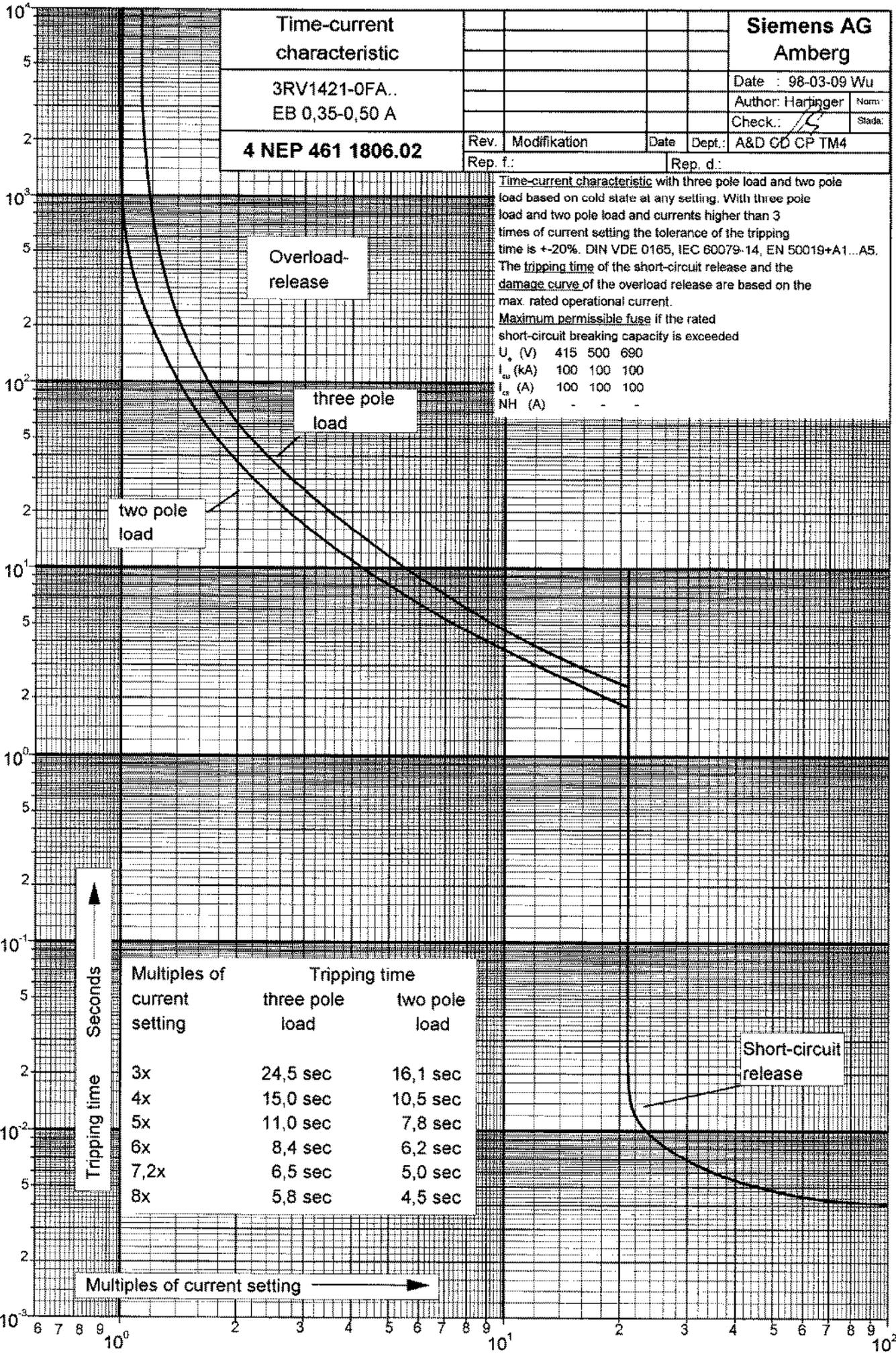


Multiples of current setting	Tripping time	
	three pole load	two pole load
3x	22,5 sec	14,0 sec
4x	12,2 sec	8,6 sec
5x	8,6 sec	6,2 sec
6x	6,6 sec	5,0 sec
7,2x	5,2 sec	4,0 sec
8x	4,6 sec	3,6 sec

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Time-current characteristic
 3RV1421-0FA..
 EB 0,35-0,50 A
4 NEP 461 1806.02

Siemens AG
Amberg
 Date : 98-03-09 Wu
 Author: Harpinger Norm:
 Check.: /S/ Stada:
 Rev. Modification Date Dept.: A&D GD CP TM4
 Rep. f.: Rep. d.:

Time-current characteristic with three pole load and two pole load based on cold state at any setting. With three pole load and two pole load and currents higher than 3 times of current setting the tolerance of the tripping time is +/-20%. DIN VDE 0165, IEC 60079-14, EN 50019+A1...A5. The tripping time of the short-circuit release and the damage curve of the overload release are based on the max. rated operational current.
 Maximum permissible fuse if the rated short-circuit breaking capacity is exceeded
 U_e (V) 415 500 690
 I_w (kA) 100 100 100
 I_{cn} (A) 100 100 100
 NH (A) - - -

Multiples of current setting	Tripping time	
	three pole load	two pole load
3x	24,5 sec	16,1 sec
4x	15,0 sec	10,5 sec
5x	11,0 sec	7,8 sec
6x	8,4 sec	6,2 sec
7,2x	6,5 sec	5,0 sec
8x	5,8 sec	4,5 sec

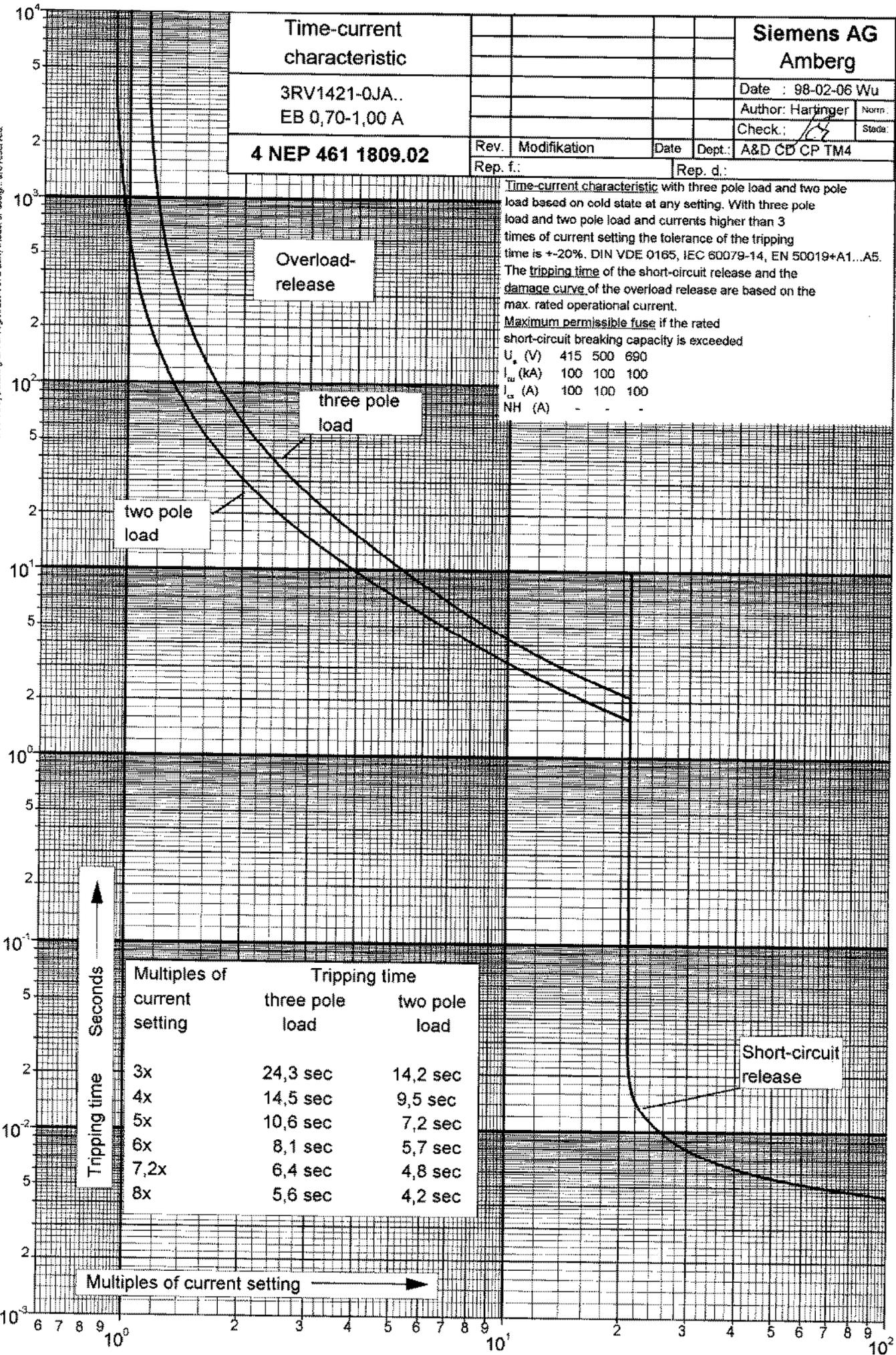
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Time-current characteristic		Siemens AG Amberg	
3RV1421-0JA.. EB 0,70-1,00 A		Date : 98-02-06 Wu	Norm:
4 NEP 461 1809.02		Check: <i>[Signature]</i>	Steda:
Rev.	Modifikation	Date	Dept.: A&D CD CP TM4
Rep. f.:	Rep. d.:		

Time-current characteristic with three pole load and two pole load based on cold state at any setting. With three pole load and two pole load and currents higher than 3 times of current setting the tolerance of the tripping time is $\pm 20\%$. DIN VDE 0165, IEC 60079-14, EN 50019+A1...A5. The tripping time of the short-circuit release and the damage curve of the overload release are based on the max. rated operational current.

Maximum permissible fuse if the rated short-circuit breaking capacity is exceeded

U_n (V)	415	500	690
I_{sc} (kA)	100	100	100
I_{sc} (A)	100	100	100
NH (A)	-	-	-



Multiples of current setting	Tripping time	
	three pole load	two pole load
3x	24,3 sec	14,2 sec
4x	14,5 sec	9,5 sec
5x	10,6 sec	7,2 sec
6x	8,1 sec	5,7 sec
7,2x	6,4 sec	4,8 sec
8x	5,6 sec	4,2 sec

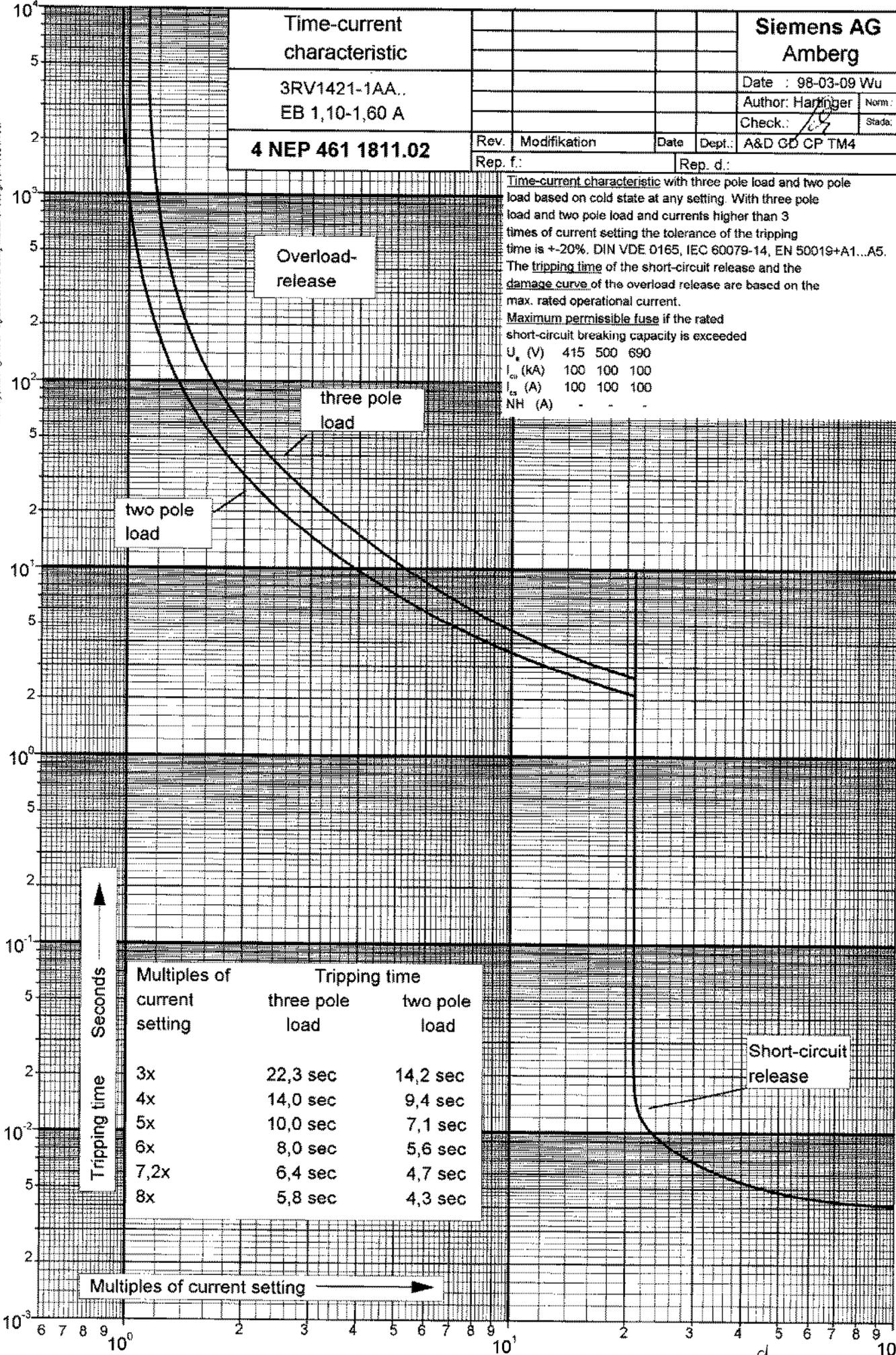
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Time-current characteristic				Siemens AG Amberg			
3RV1421-1AA.. EB 1,10-1,60 A				Date : 98-03-09 Wu			
4 NEP 461 1811.02				Rev.	Modifikation	Date	Dept.: A&D GD CP TM4
				Rep. f.:	Rep. d.:		

Time-current characteristic with three pole load and two pole load based on cold state at any setting. With three pole load and two pole load and currents higher than 3 times of current setting the tolerance of the tripping time is +20%. DIN VDE 0165, IEC 60079-14, EN 50019+A1...A5. The tripping time of the short-circuit release and the damage curve of the overload release are based on the max. rated operational current.
Maximum permissible fuse if the rated short-circuit breaking capacity is exceeded

U _n (V)	415	500	690
I _{cu} (kA)	100	100	100
I _{cs} (A)	100	100	100
NH (A)	-	-	-

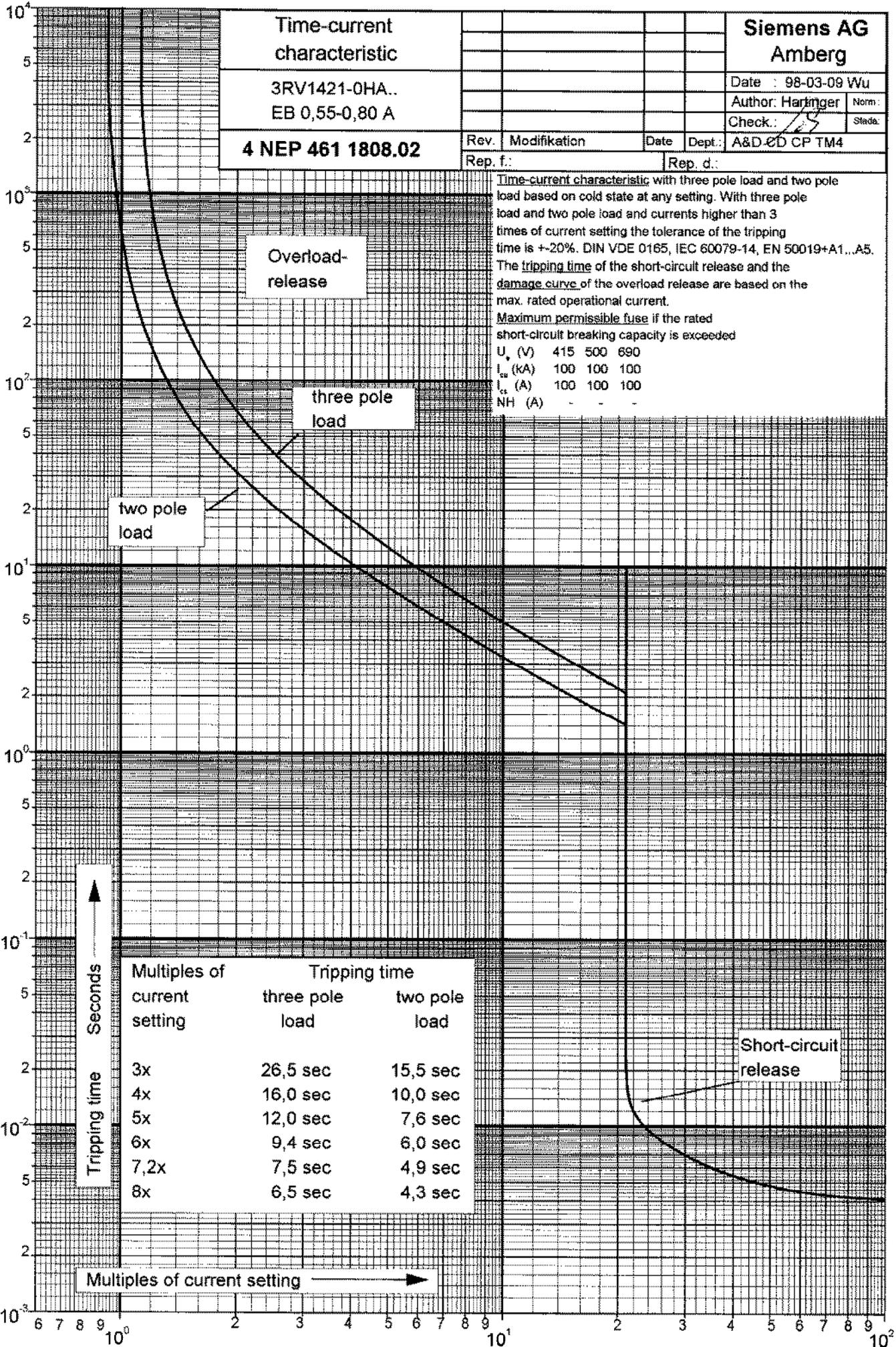


Multiples of current setting	Tripping time	
	three pole load	two pole load
3x	22,3 sec	14,2 sec
4x	14,0 sec	9,4 sec
5x	10,0 sec	7,1 sec
6x	8,0 sec	5,6 sec
7,2x	6,4 sec	4,7 sec
8x	5,8 sec	4,3 sec

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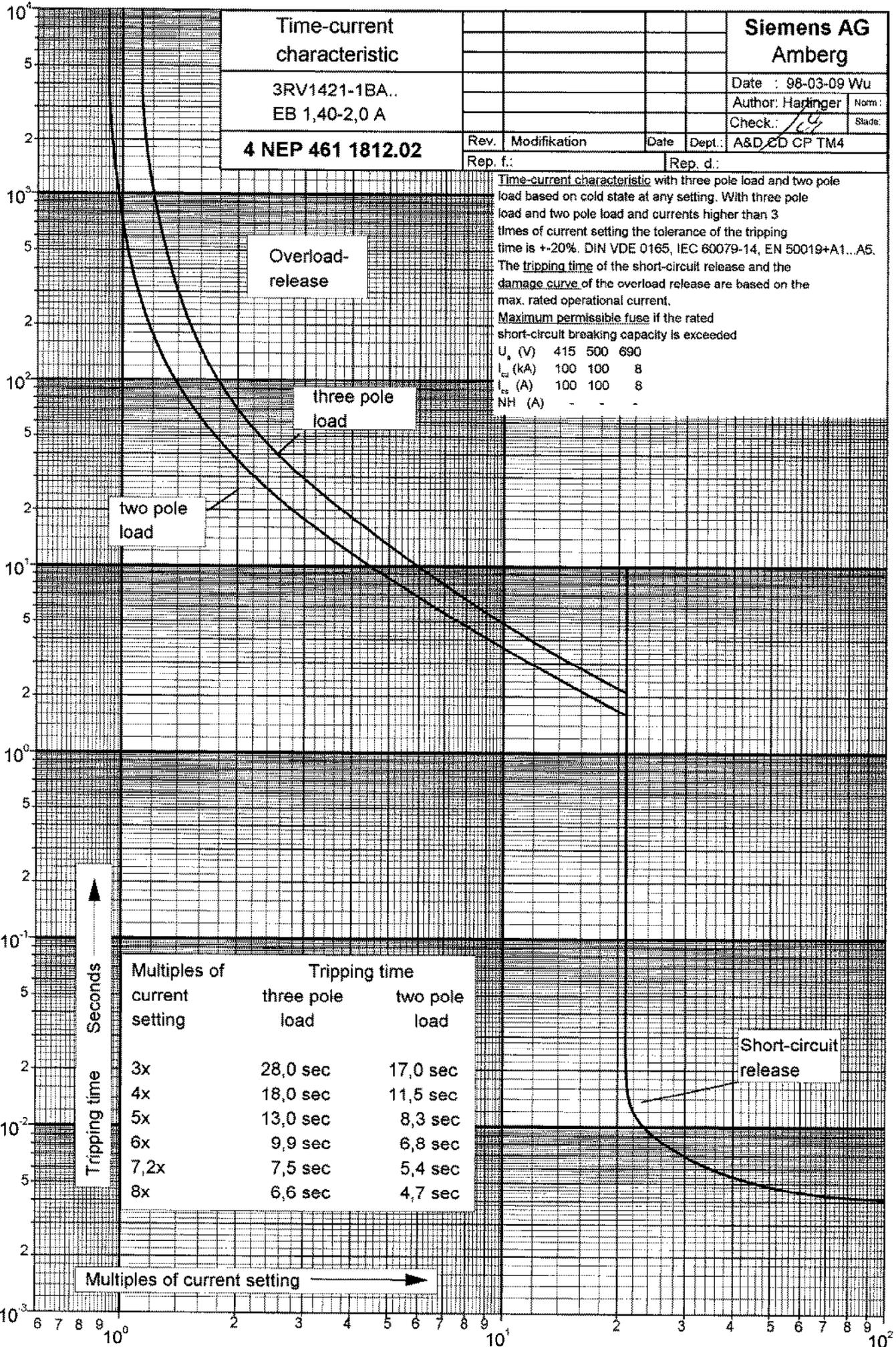
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Time-current characteristic
 3RV1421-1BA..
 EB 1,40-2,0 A
4 NEP 461 1812.02

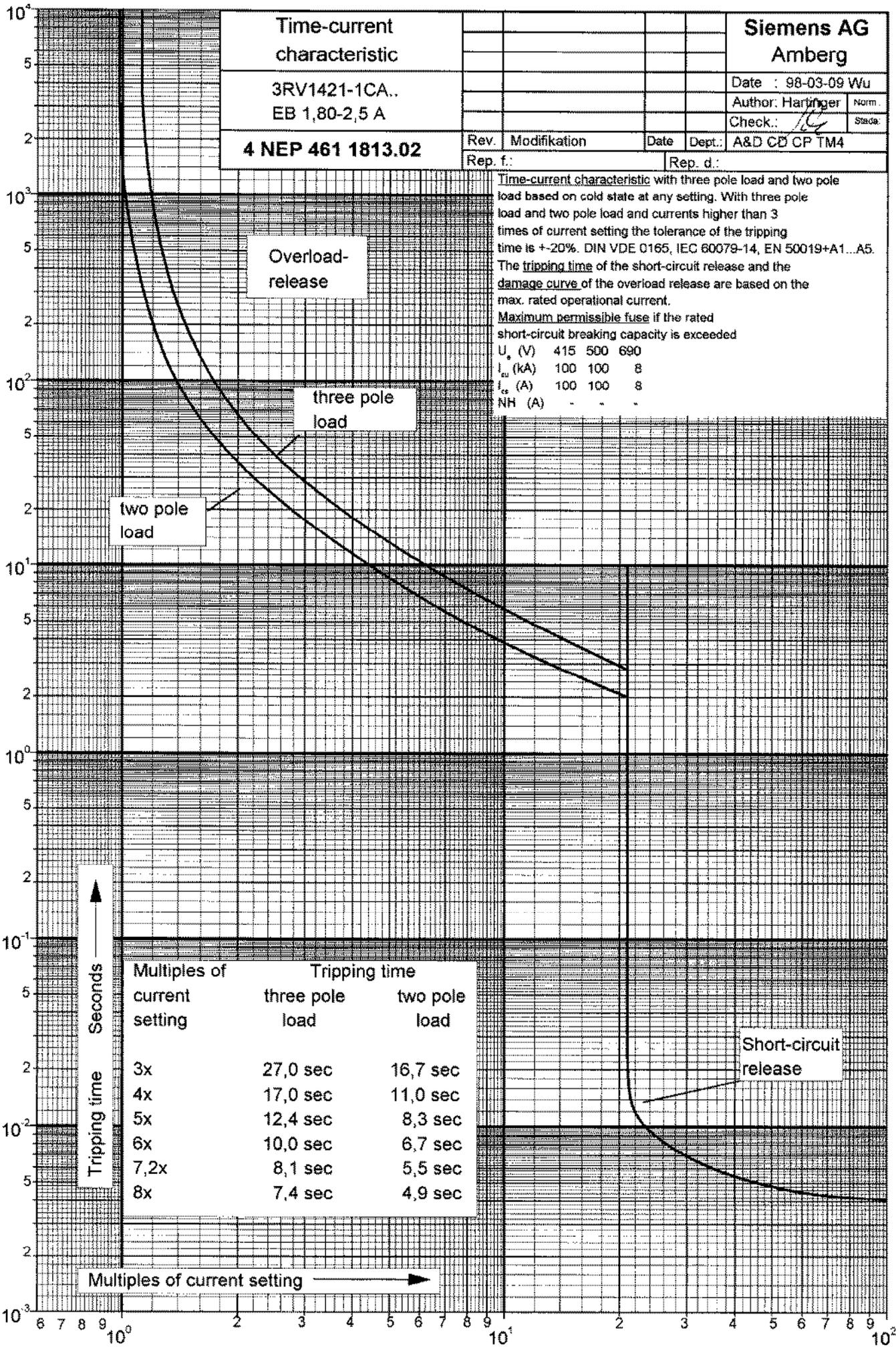
Siemens AG Amberg
 Date : 98-03-09 Wu
 Author: Harfinger
 Check: [Signature]
 A&D ED CP TM4

Rev. Modifikation Date Dept. Rep. f.: Rep. d.:
 Time-current characteristic with three pole load and two pole load based on cold state at any setting. With three pole load and two pole load and currents higher than 3 times of current setting the tolerance of the tripping time is +20%. DIN VDE 0165, IEC 60079-14, EN 50019+A1...A5. The tripping time of the short-circuit release and the damage curve of the overload release are based on the max. rated operational current.
 Maximum permissible fuse if the rated short-circuit breaking capacity is exceeded
 U_n (V) 415 500 690
 I_{cs} (kA) 100 100 8
 I_{cs} (A) 100 100 8
 NH (A) - - -

Multiples of current setting	Tripping time	
	three pole load	two pole load
3x	28,0 sec	17,0 sec
4x	18,0 sec	11,5 sec
5x	13,0 sec	8,3 sec
6x	9,9 sec	6,8 sec
7,2x	7,5 sec	5,4 sec
8x	6,6 sec	4,7 sec

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Time-current characteristic				Siemens AG Amberg			
3RV1421-1CA.. EB 1,80-2,5 A				Date : 98-03-09 Wu			
4 NEP 461 1813.02				Rev.	Modifikation	Date	Dept.: A&D CD CP TM4
				Rep. f.:	Rep. d.:		
				Check.:	Author: Hartinger	Norm	Stage

Time-current characteristic with three pole load and two pole load based on cold state at any setting. With three pole load and two pole load and currents higher than 3 times of current setting the tolerance of the tripping time is +20%. DIN VDE 0165, IEC 60079-14, EN 50019+A1...A5. The tripping time of the short-circuit release and the damage curve of the overload release are based on the max. rated operational current.
 Maximum permissible fuse if the rated short-circuit breaking capacity is exceeded

U _n (V)	415	500	690
I _{sn} (kA)	100	100	8
I _{cs} (A)	100	100	8
NH (A)	-	-	-

Multiples of current setting	Tripping time	
	three pole load	two pole load
3x	27,0 sec	16,7 sec
4x	17,0 sec	11,0 sec
5x	12,4 sec	8,3 sec
6x	10,0 sec	6,7 sec
7,2x	8,1 sec	5,5 sec
8x	7,4 sec	4,9 sec

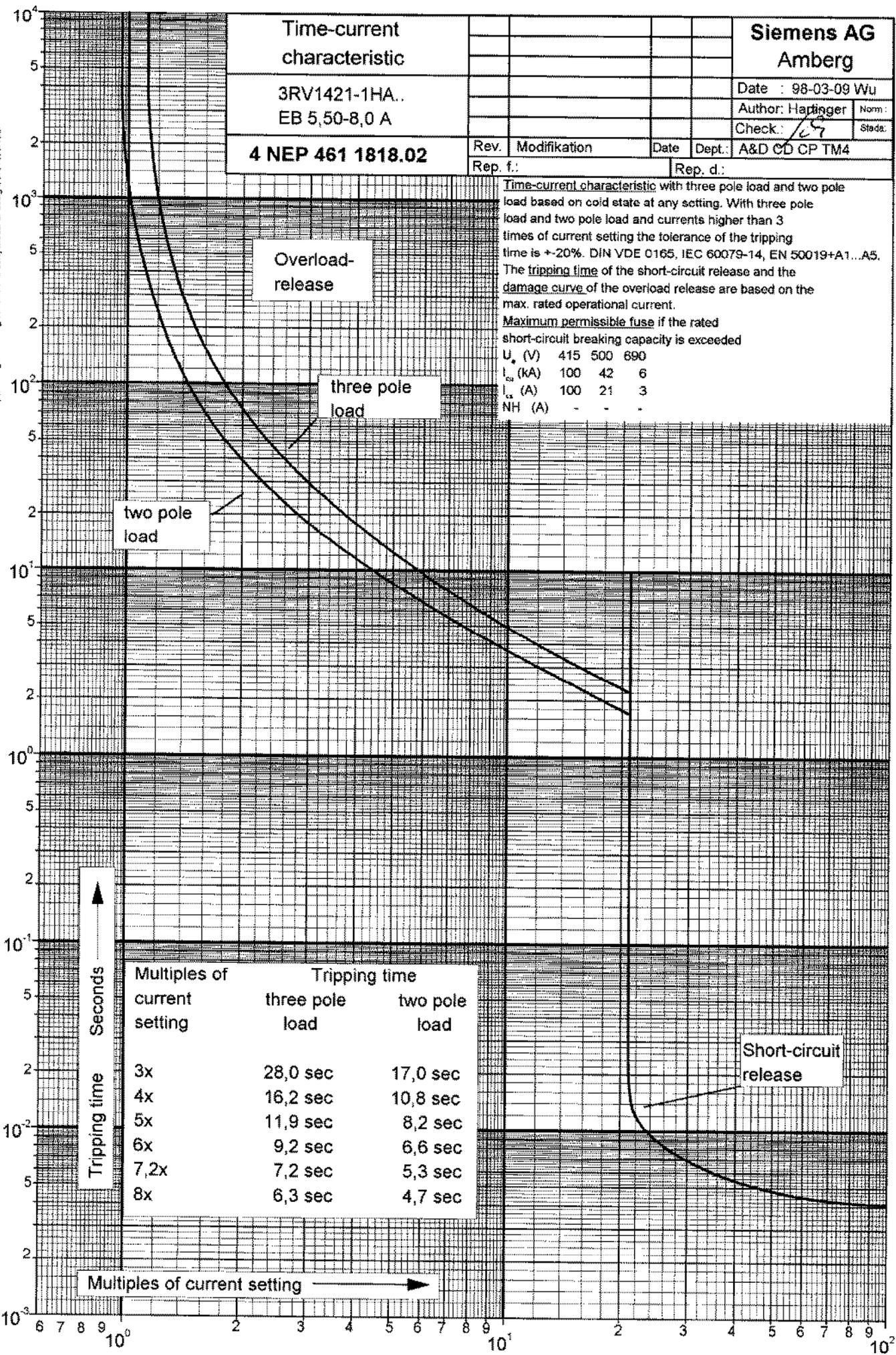
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Time-current characteristic		Siemens AG Amberg	
3RV1421-1HA.. EB 5,50-8,0 A		Date : 98-03-09 Wu	Norm:
4 NEP 461 1818.02		Check: <i>[Signature]</i>	Stads:
Rev.	Modifikation	Date	Dept.
Rep. f.:	Rep. d.: A&D CD CP TM4		

Time-current characteristic with three pole load and two pole load based on cold state at any setting. With three pole load and two pole load and currents higher than 3 times of current setting the tolerance of the tripping time is $\pm 20\%$. DIN VDE 0165, IEC 60079-14, EN 50019+A1...A5. The tripping time of the short-circuit release and the damage curve of the overload release are based on the max. rated operational current.

Maximum permissible fuse if the rated short-circuit breaking capacity is exceeded

U_n (V)	415	500	690
I_{sc} (kA)	100	42	6
I_{sc} (A)	100	21	3
NH (A)	-	-	-

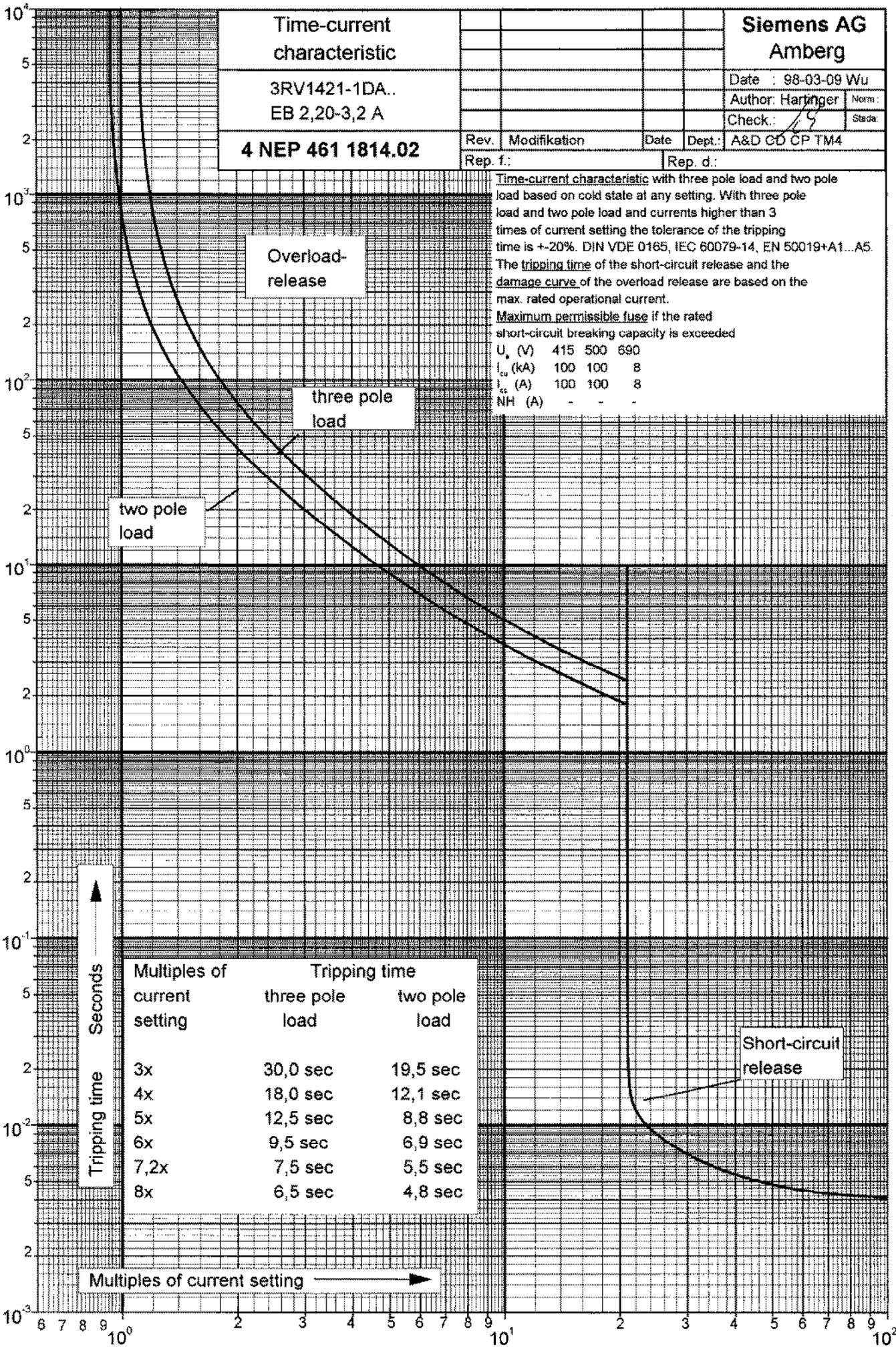


Multiples of current setting	Tripping time	
	three pole load	two pole load
3x	28,0 sec	17,0 sec
4x	16,2 sec	10,8 sec
5x	11,9 sec	8,2 sec
6x	9,2 sec	6,6 sec
7,2x	7,2 sec	5,3 sec
8x	6,3 sec	4,7 sec

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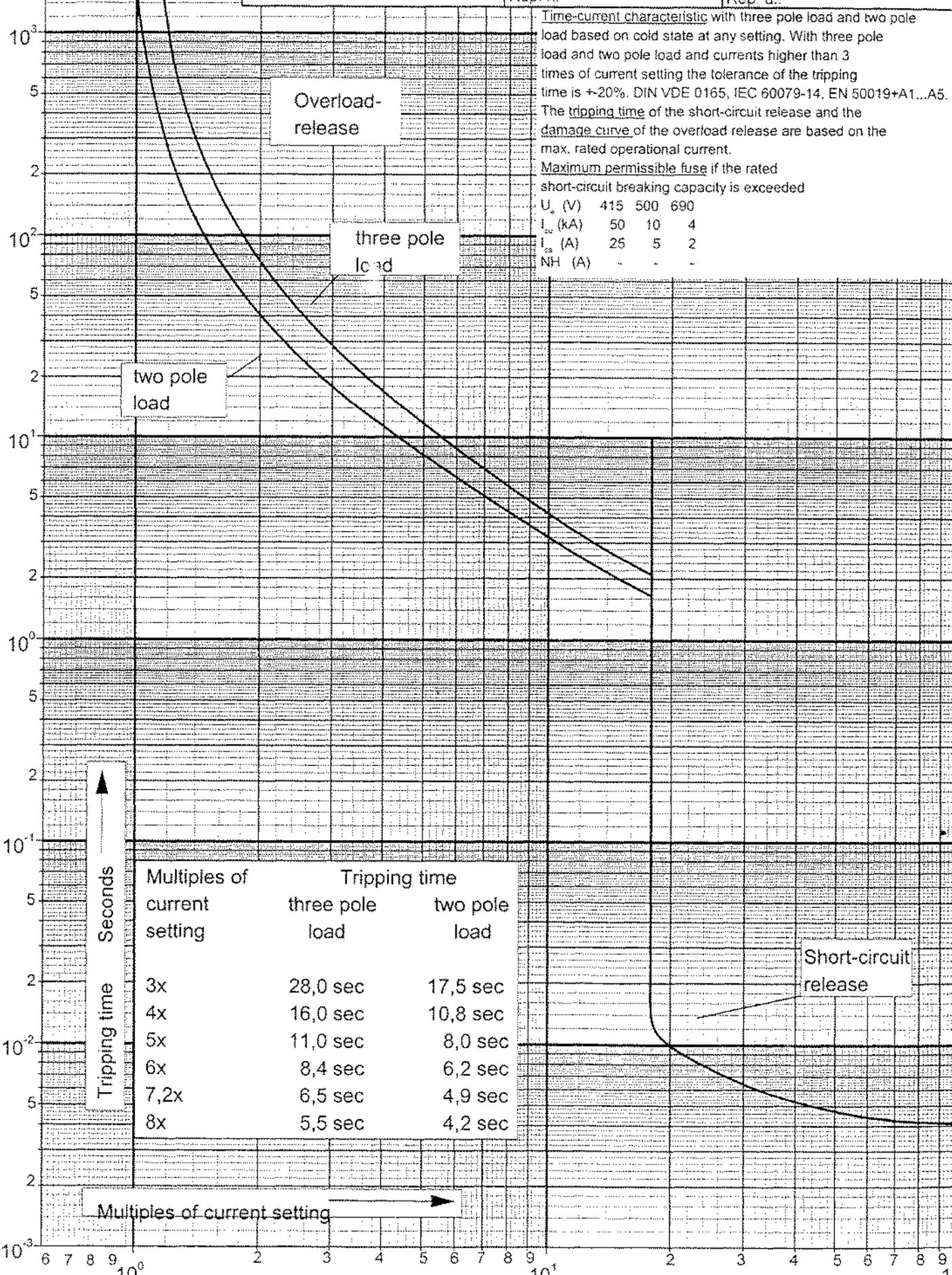
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Time-current characteristic

3RV1421-4AA..
EB 11-16 A

4 NEP 461 1821.02 a

a	Shortcircuit 17.7	30.09.02	Glaser	Siemens AG Amberg	
				Date	: 98-03-09 Wu
				Author	Hartinger Norm
				Check	Stada
Rev.	Modifikation	Date	Dept.	A&D CD CC TM5	
Rep. f.:			Rep. d.:		



Time-current characteristic with three pole load and two pole load based on cold state at any setting. With three pole load and two pole load and currents higher than 3 times of current setting the tolerance of the tripping time is $\pm 20\%$. DIN VDE 0165, IEC 60079-14, EN 50019+A1...A5. The tripping time of the short-circuit release and the damage curve of the overload release are based on the max. rated operational current.

Maximum permissible fuse if the rated short-circuit breaking capacity is exceeded

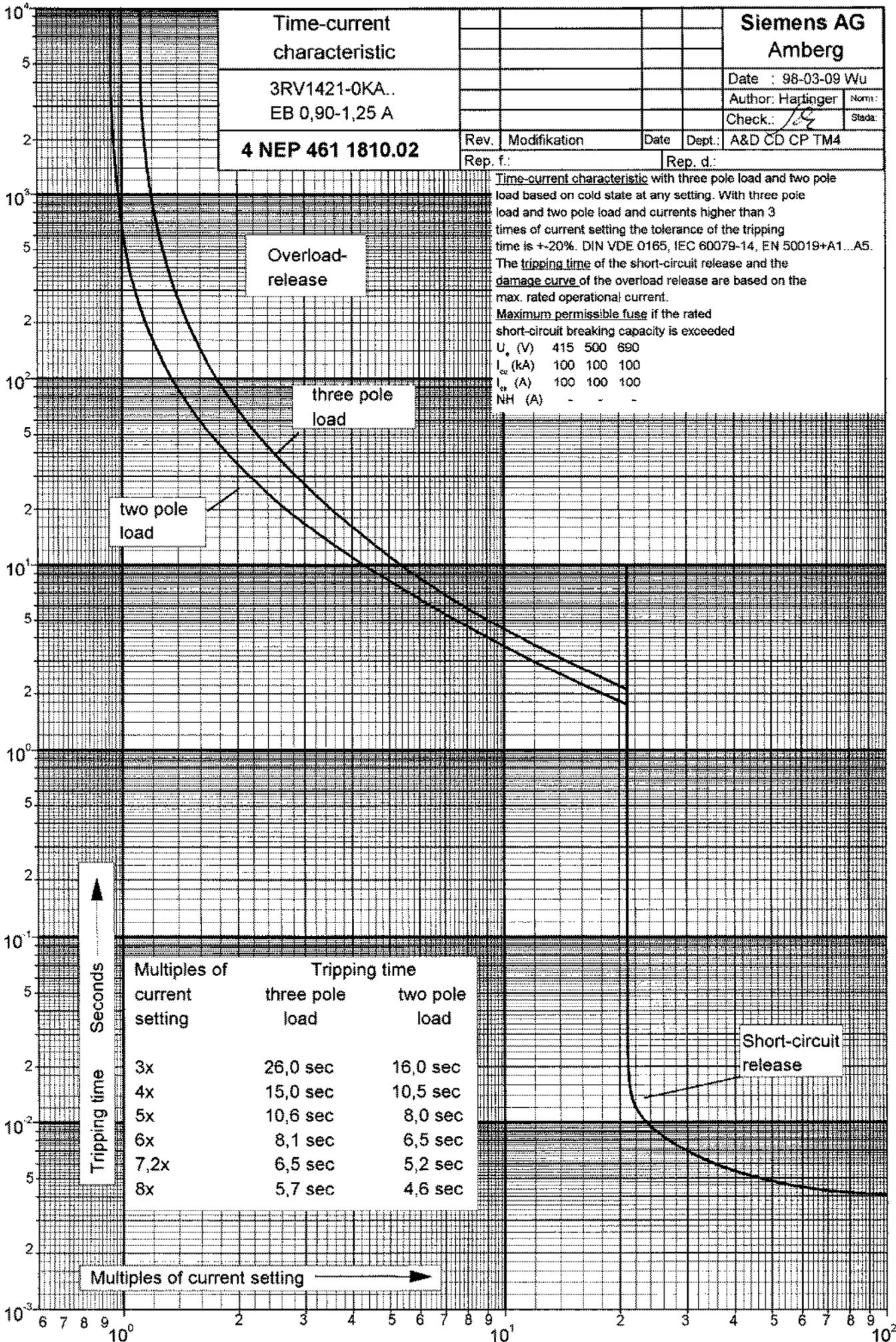
U_n (V)	415	500	690
I_{sc} (kA)	50	10	4
I_{ca} (A)	25	5	2
NH (A)	-	-	-

Multiples of current setting	Tripping time	
	three pole load	two pole load
3x	28,0 sec	17,5 sec
4x	16,0 sec	10,8 sec
5x	11,0 sec	8,0 sec
6x	8,4 sec	6,2 sec
7,2x	6,5 sec	4,9 sec
8x	5,5 sec	4,2 sec

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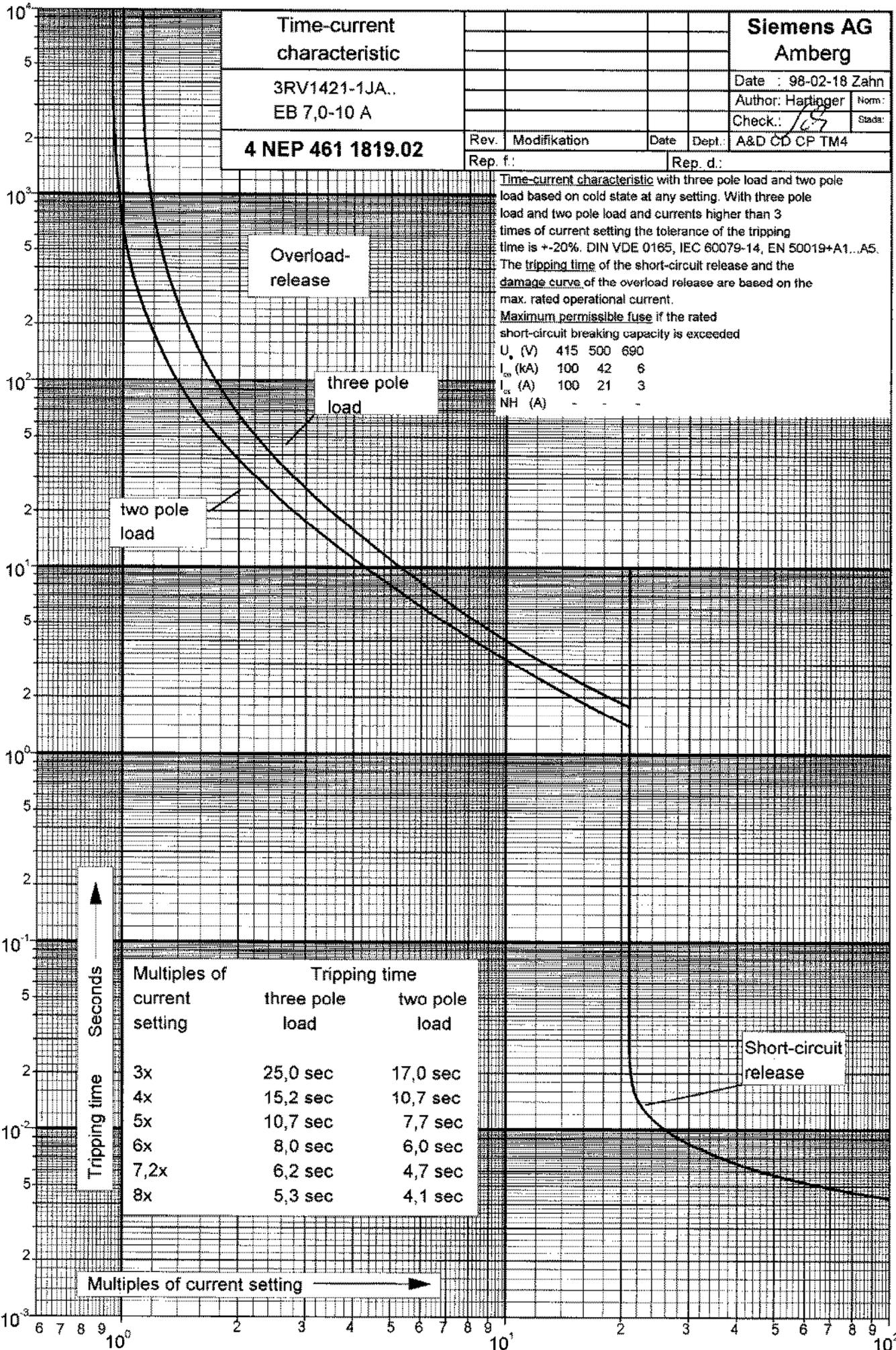
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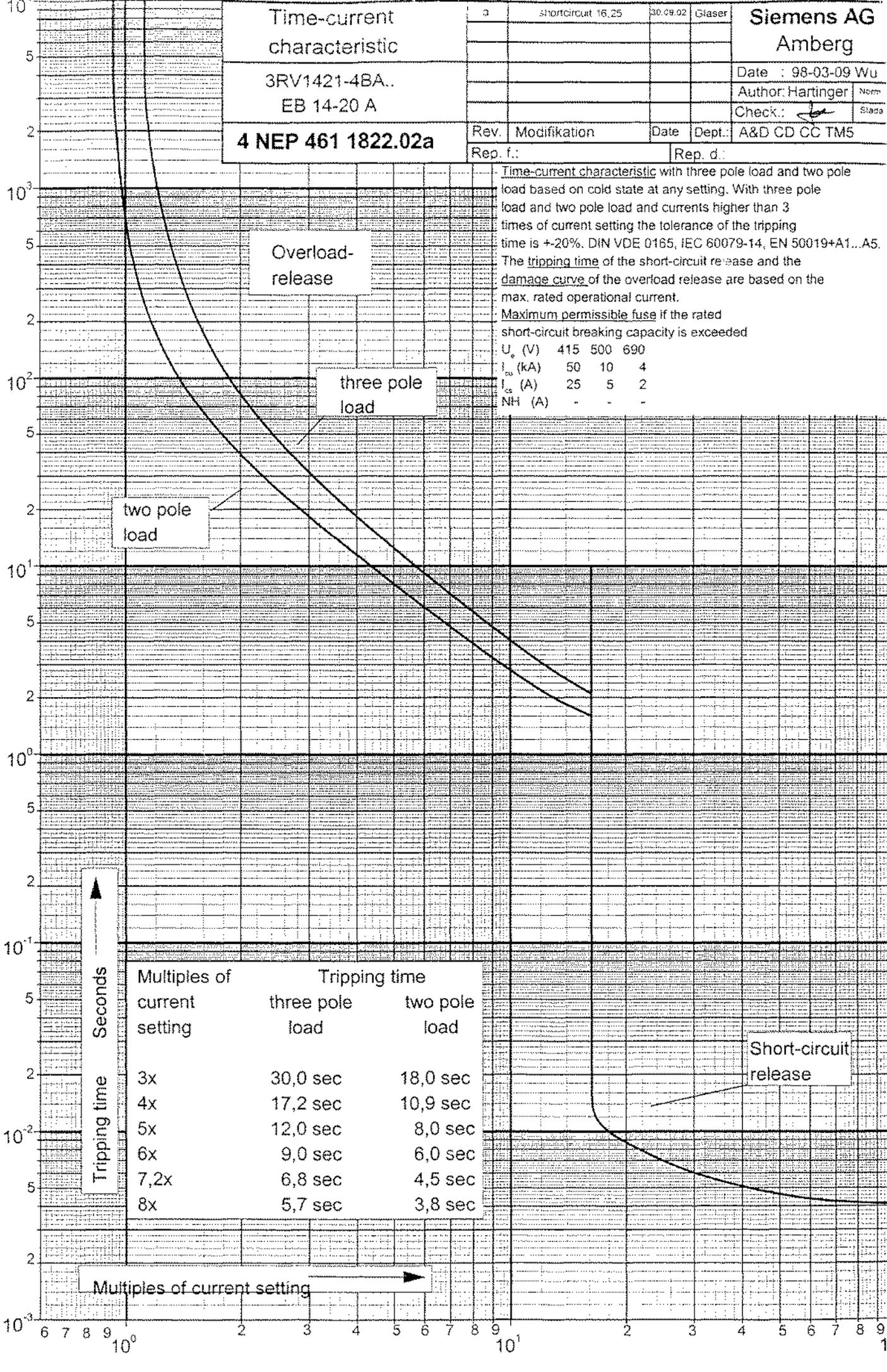
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Time-current characteristic
 3RV1421-4BA..
 EB 14-20 A
4 NEP 461 1822.02a

a	shortcircuit 16,25	30.09.02	Glaser	Siemens AG Amberg	
Rev.	Modifikation	Date	Dept.	Date : 98-03-09 Wu	Norm
Rep. f.:				Author: Hartinger	Stada
				Check.:	
				A&D CD CC TMS	



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Time-current characteristic with three pole load and two pole load based on cold state at any setting. With three pole load and two pole load and currents higher than 3 times of current setting the tolerance of the tripping time is +20%. DIN VDE 0165, IEC 60079-14, EN 50019+A1...A5. The tripping time of the short-circuit release and the damage curve of the overload release are based on the max. rated operational current. Maximum permissible fuse if the rated short-circuit breaking capacity is exceeded

U _e (V)	415	500	690
I _{cu} (kA)	50	10	4
I _{ca} (A)	25	5	2
NH (A)	-	-	-

Multiples of current setting	Tripping time	
	three pole load	two pole load
3x	30,0 sec	18,0 sec
4x	17,2 sec	10,9 sec
5x	12,0 sec	8,0 sec
6x	9,0 sec	6,0 sec
7,2x	6,8 sec	4,5 sec
8x	5,7 sec	3,8 sec

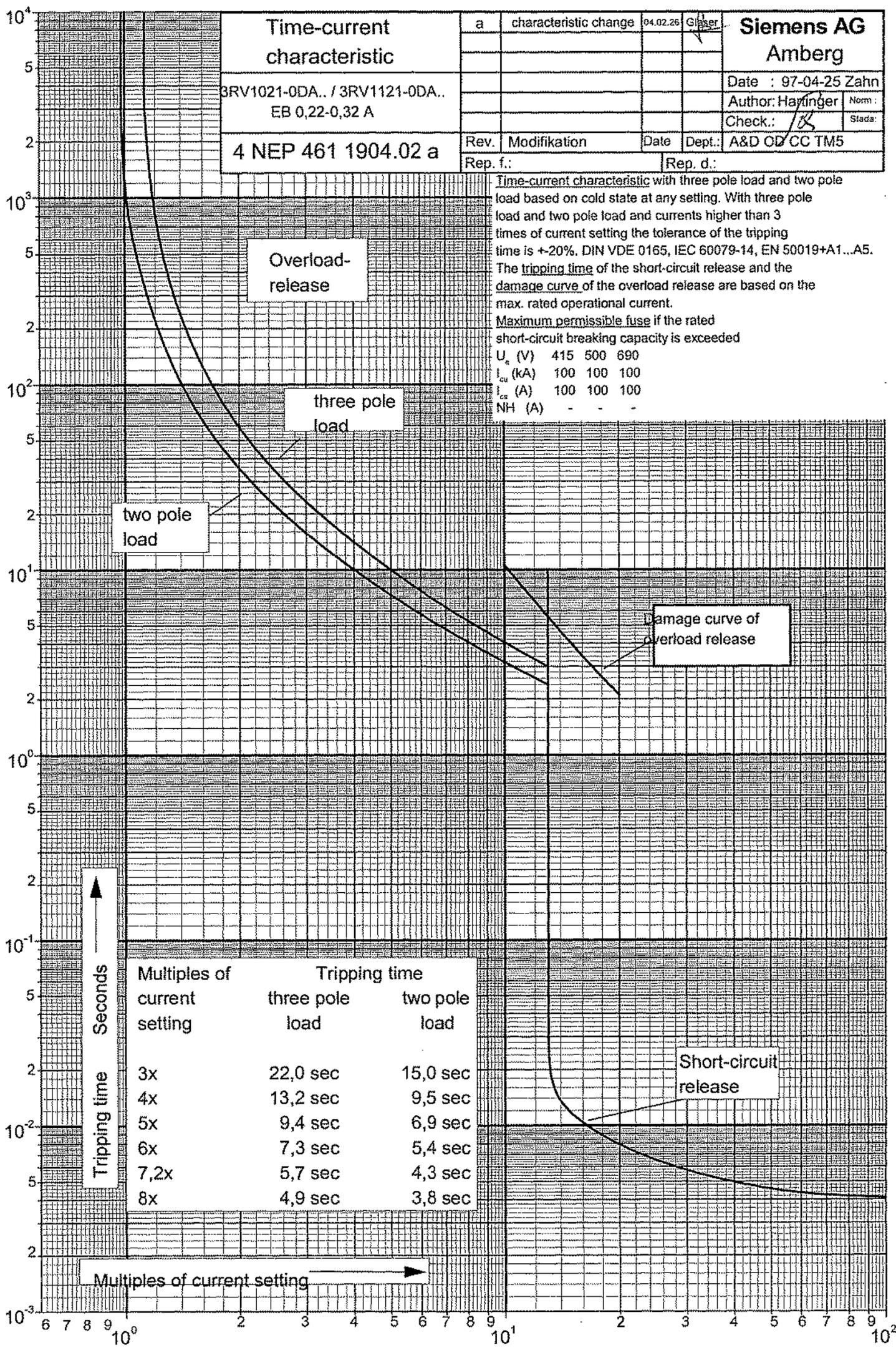
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Time-current characteristic		a	characteristic change	04.02.26	Glasser	Siemens AG Amberg
3RV1021-0DA.. / 3RV1121-0DA.. EB 0,22-0,32 A						
4 NEP 461 1904.02 a		Rev.	Modifikation	Date	Dept.:	Author: Haylinger
		Rep. f.:				Norm.:
						Check.: <i>[Signature]</i>
						Stada:
						A&D OD/CC TM5

Time-current characteristic with three pole load and two pole load based on cold state at any setting. With three pole load and two pole load and currents higher than 3 times of current setting the tolerance of the tripping time is +20%. DIN VDE 0165, IEC 60079-14, EN 50019+A1...A5. The tripping time of the short-circuit release and the damage curve of the overload release are based on the max. rated operational current. Maximum permissible fuse if the rated short-circuit breaking capacity is exceeded

U _e (V)	415	500	690
I _{cu} (kA)	100	100	100
I _{cs} (A)	100	100	100
NH (A)	-	-	-



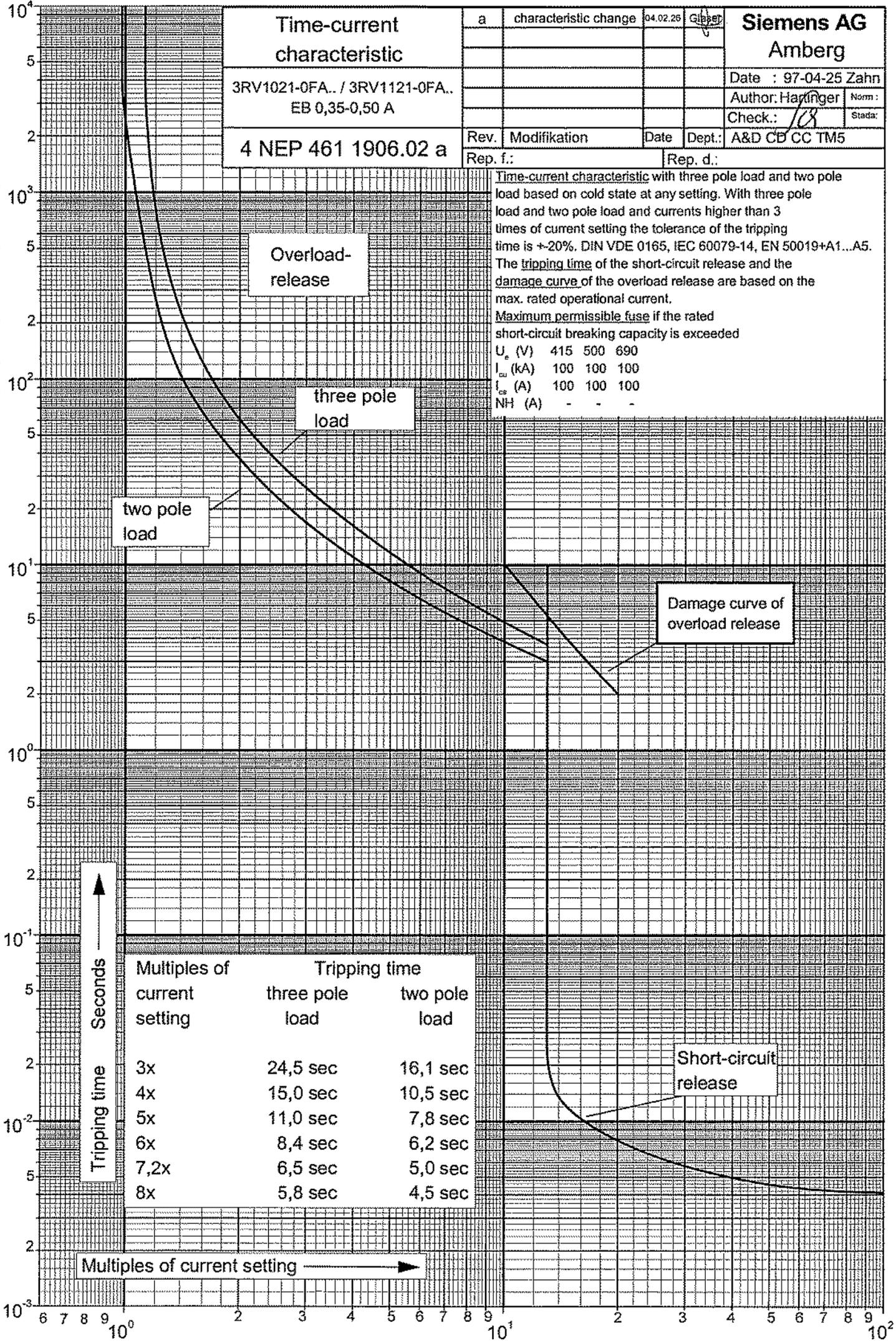
Multiples of current setting	Tripping time	
	three pole load	two pole load
3x	22,0 sec	15,0 sec
4x	13,2 sec	9,5 sec
5x	9,4 sec	6,9 sec
6x	7,3 sec	5,4 sec
7,2x	5,7 sec	4,3 sec
8x	4,9 sec	3,8 sec

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Time-current characteristic		a	characteristic change	04.02.25	Gibbs	Siemens AG Amberg	
							Date : 97-04-25 Zahn
3RV1021-0FA.. / 3RV1121-0FA.. EB 0,35-0,50 A						Author: Harfinger	Norm:
4 NEP 461 1906.02 a		Rev. Modifikation				Date	Dept.: A&D CB CC TM5
		Rep. f.:			Rep. d.:		

Time-current characteristic with three pole load and two pole load based on cold state at any setting. With three pole load and two pole load and currents higher than 3 times of current setting the tolerance of the tripping time is +20%. DIN VDE 0165, IEC 60079-14, EN 50019+A1...A5. The tripping time of the short-circuit release and the damage curve of the overload release are based on the max. rated operational current.
 Maximum permissible fuse if the rated short-circuit breaking capacity is exceeded
 U_e (V) 415 500 690
 I_{cu} (kA) 100 100 100
 I_{cs} (A) 100 100 100
 NH (A) - - -



Multiples of current setting	Tripping time	
	three pole load	two pole load
3x	24,5 sec	16,1 sec
4x	15,0 sec	10,5 sec
5x	11,0 sec	7,8 sec
6x	8,4 sec	6,2 sec
7,2x	6,5 sec	5,0 sec
8x	5,8 sec	4,5 sec

Multiples of current setting →

↑
Seconds
Tripping time

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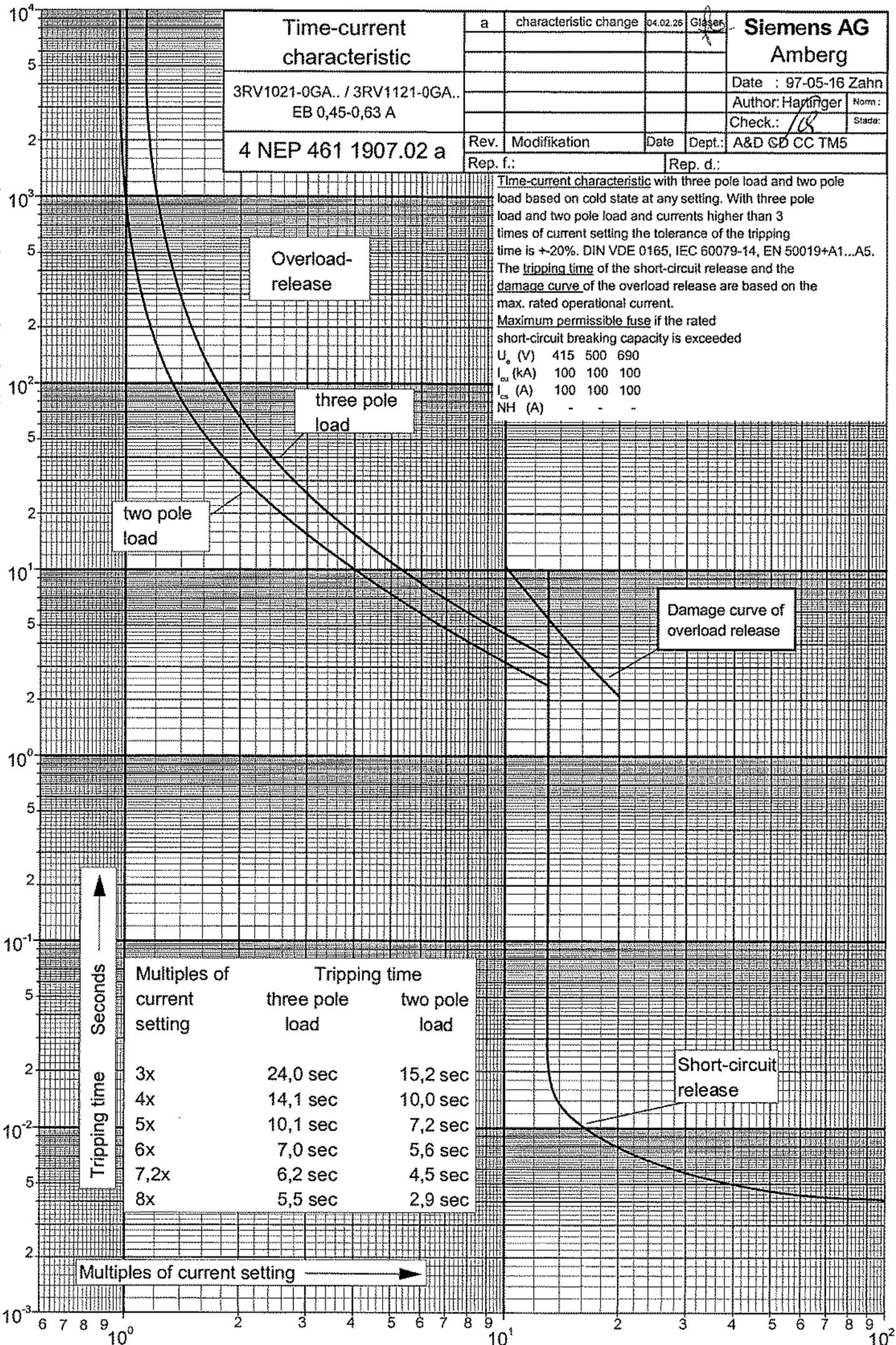
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Time-current characteristic	a	characteristic change	04.02.26	Glaser	Siemens AG Amberg
3RV1021-0GA.. / 3RV1121-0GA.. EB 0,45-0,63 A					Date : 97-05-16 Zahn
4 NEP 461 1907.02 a	Rev.	Modifikation	Date	Dept.:	Author: Harfinger Norm:
	Rep. f.:				Check.: 108 Stadt:
					A&D GD CC TM5

Time-current characteristic with three pole load and two pole load based on cold state at any setting. With three pole load and two pole load and currents higher than 3 times of current setting the tolerance of the tripping time is $\pm 20\%$. DIN VDE 0165, IEC 60079-14, EN 50019+A1...A5. The tripping time of the short-circuit release and the damage curve of the overload release are based on the max. rated operational current.

Maximum permissible fuse if the rated short-circuit breaking capacity is exceeded

U_o (V)	415	500	690
I_{sc} (kA)	100	100	100
I_{cs} (A)	100	100	100
NH (A)	-	-	-



Multiples of current setting	Tripping time	
	three pole load	two pole load
3x	24,0 sec	15,2 sec
4x	14,1 sec	10,0 sec
5x	10,1 sec	7,2 sec
6x	7,0 sec	5,6 sec
7,2x	6,2 sec	4,5 sec
8x	5,5 sec	2,9 sec

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Time-current characteristic

3RV1021-0CA.. / 3RV1121-0CA..
EB 0,18-0,25 A

4 NEP 461 1903.02 b

a	characteristic change	01.10.16	Glaser	Siemens AG Amberg	
b	characteristic change	04.02.26	Glaser		
Rev. Modifikation				Date	Dept.: A&D CC TM5
Rep. f.:				Rep. d.:	

Date : 97-04-25 Zahn

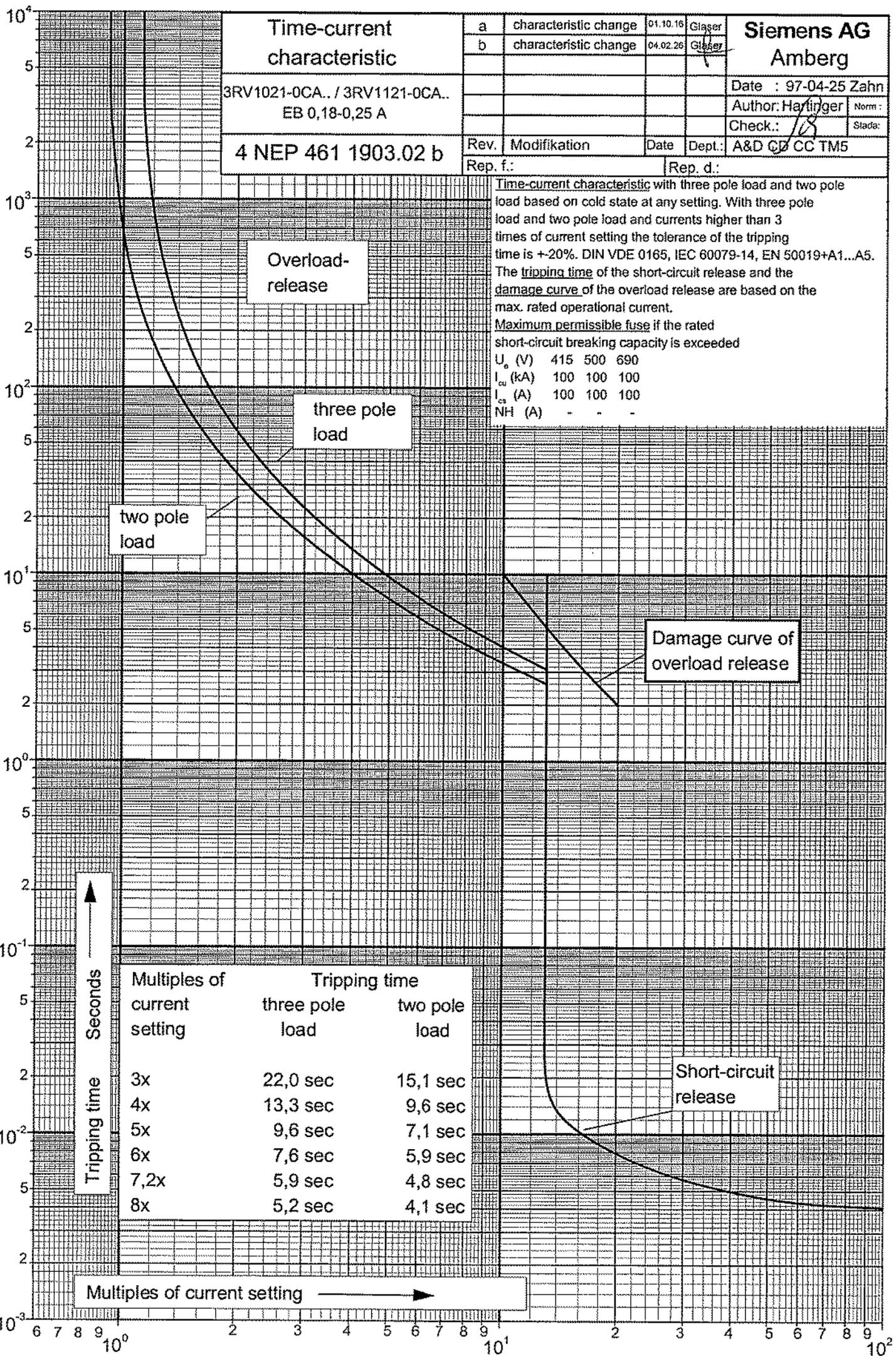
Author: Hartinger Norm:

Check.: Slade:

Time-current characteristic with three pole load and two pole load based on cold state at any setting. With three pole load and two pole load and currents higher than 3 times of current setting the tolerance of the tripping time is +20%. DIN VDE 0165, IEC 60079-14, EN 50019+A1...A5. The tripping time of the short-circuit release and the damage curve of the overload release are based on the max. rated operational current.

Maximum permissible fuse if the rated short-circuit breaking capacity is exceeded

U_o (V)	415	500	690
I_{cu} (kA)	100	100	100
I_{ca} (A)	100	100	100
NH (A)	-	-	-



↑
Seconds
Tripping time

Multiples of current setting →

Multiples of current setting	Tripping time	
	three pole load	two pole load
3x	22,0 sec	15,1 sec
4x	13,3 sec	9,6 sec
5x	9,6 sec	7,1 sec
6x	7,6 sec	5,9 sec
7,2x	5,9 sec	4,8 sec
8x	5,2 sec	4,1 sec

Short-circuit release

Overload-release

three pole load

two pole load

Damage curve of overload release

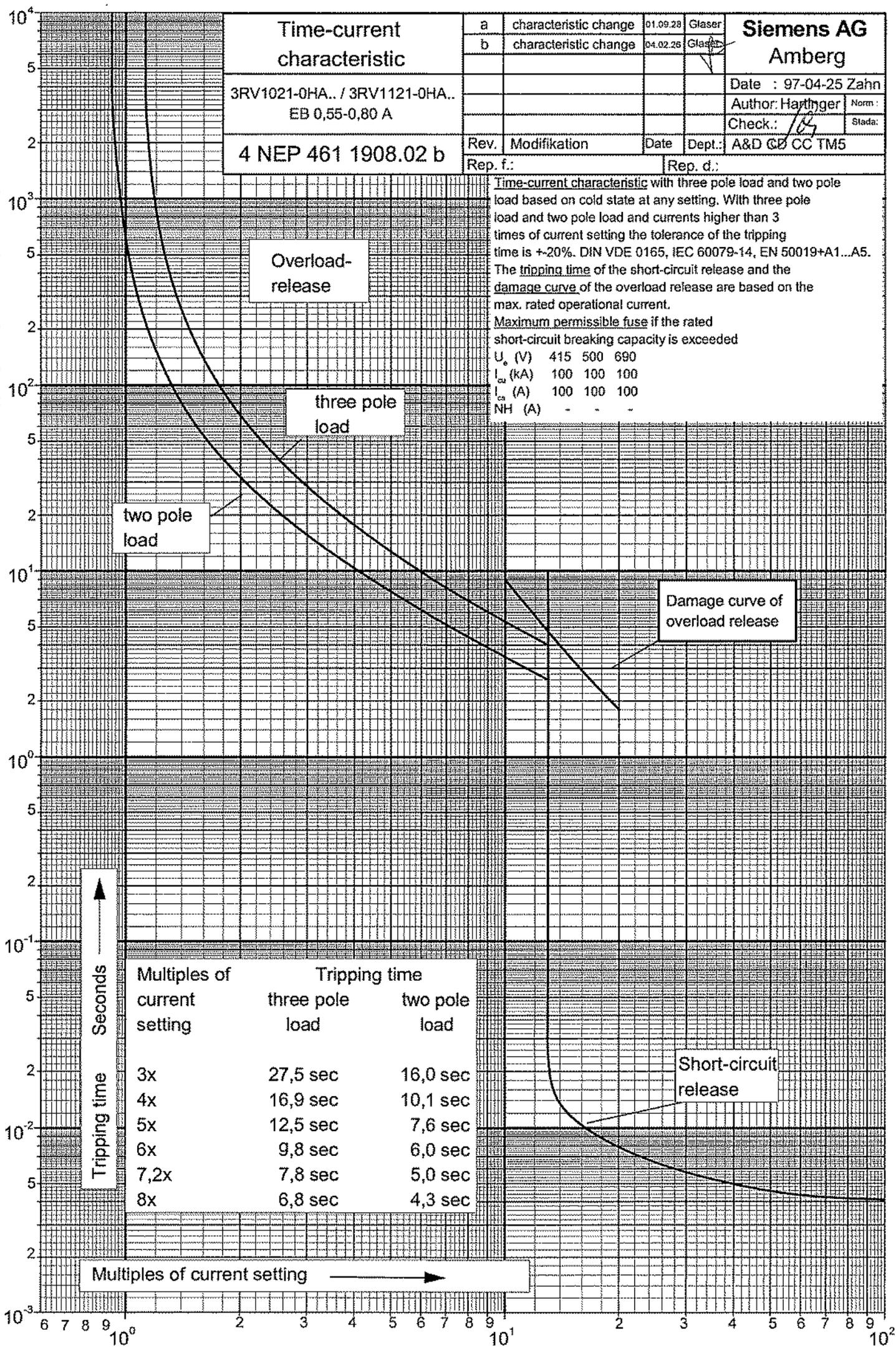
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Time-current characteristic	a	characteristic change	01.09.29	Glaser	Siemens AG Amberg
	b	characteristic change	04.02.26	Glaser	
3RV1021-0HA.. / 3RV1121-0HA.. EB 0,55-0,80 A					Date : 97-04-25 Zahn
4 NEP 461 1908.02 b					Author: Harthger Norm:
Rev. Modifikation			Date	Dept.:	Check.: /89 Stada:
Rep. f.:			Rep. d.:		

Time-current characteristic with three pole load and two pole load based on cold state at any setting. With three pole load and two pole load and currents higher than 3 times of current setting the tolerance of the tripping time is +20%. DIN VDE 0165, IEC 60079-14, EN 50019+A1...A5. The tripping time of the short-circuit release and the damage curve of the overload release are based on the max. rated operational current. Maximum permissible fuse if the rated short-circuit breaking capacity is exceeded

U _o (V)	415	500	690
I _{cu} (kA)	100	100	100
I _{ca} (A)	100	100	100
NH (A)	-	-	-



Multiples of current setting	Tripping time	
	three pole load	two pole load
3x	27,5 sec	16,0 sec
4x	16,9 sec	10,1 sec
5x	12,5 sec	7,6 sec
6x	9,8 sec	6,0 sec
7,2x	7,8 sec	5,0 sec
8x	6,8 sec	4,3 sec

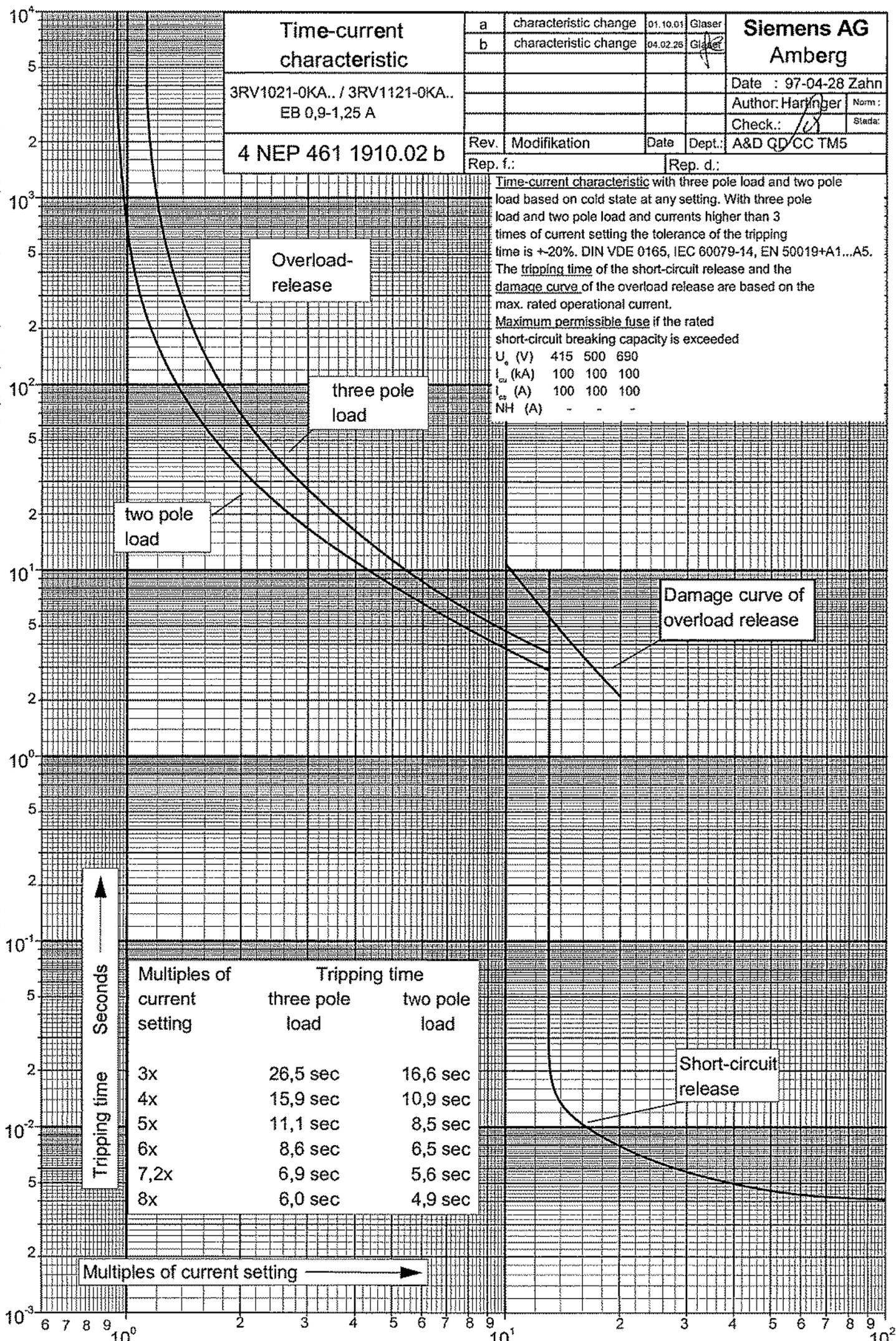
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Time-current characteristic		a	characteristic change	01.10.01	Glaser	Siemens AG Amberg
		b	characteristic change	04.02.26	Glaser	
3RV1021-0KA.. / 3RV1121-0KA.. EB 0,9-1,25 A						Date : 97-04-28 Zahn
4 NEP 461 1910.02 b						Author: Harfinger Norm : Check.: / S Stadl:
Rev.	Modifikation	Date	Dept.:	A&D QD/CC TM5		
Rep. f.:			Rep. d.:			

Time-current characteristic with three pole load and two pole load based on cold state at any setting. With three pole load and two pole load and currents higher than 3 times of current setting the tolerance of the tripping time is +20%. DIN VDE 0165, IEC 60079-14, EN 50019+A1...A5. The tripping time of the short-circuit release and the damage curve of the overload release are based on the max. rated operational current. Maximum permissible fuse if the rated short-circuit breaking capacity is exceeded

U _e (V)	415	500	690
I _{cu} (kA)	100	100	100
I _{cs} (A)	100	100	100
NH (A)	-	-	-



Multiples of current setting	Tripping time	
	three pole load	two pole load
3x	26,5 sec	16,6 sec
4x	15,9 sec	10,9 sec
5x	11,1 sec	8,5 sec
6x	8,6 sec	6,5 sec
7,2x	6,9 sec	5,6 sec
8x	6,0 sec	4,9 sec

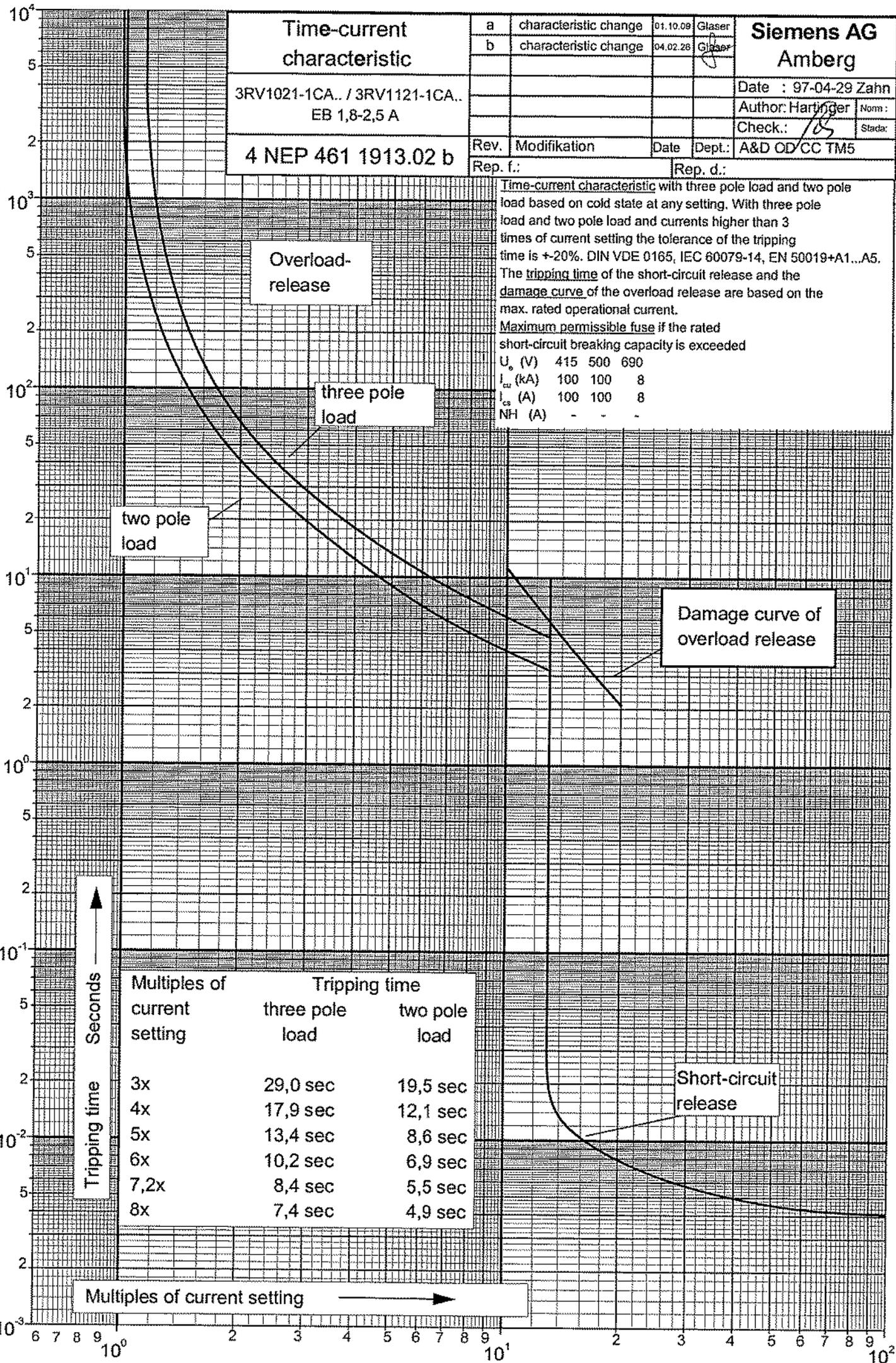
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Time-current characteristic		a	characteristic change	01.10.09	Glaser	Siemens AG Amberg
		b	characteristic change	04.02.26	Glaser	
3RV1021-1CA.. / 3RV1121-1CA.. EB 1,8-2,5 A						Date : 97-04-29 Zahn
4 NEP 461 1913.02 b		Rev.	Modifikation	Date	Dept.:	A&D OD/CC TM5
		Rep. f.:				Rep. d.:

Time-current characteristic with three pole load and two pole load based on cold state at any setting. With three pole load and two pole load and currents higher than 3 times of current setting the tolerance of the tripping time is +20%. DIN VDE 0165, IEC 60079-14, EN 50019+A1...A5. The tripping time of the short-circuit release and the damage curve of the overload release are based on the max. rated operational current. Maximum permissible fuse if the rated short-circuit breaking capacity is exceeded

U_o (V)	415	500	690
I_{cu} (kA)	100	100	8
I_{cs} (A)	100	100	8
NH (A)	-	-	-



Multiples of current setting	Tripping time	
	three pole load	two pole load
3x	29,0 sec	19,5 sec
4x	17,9 sec	12,1 sec
5x	13,4 sec	8,6 sec
6x	10,2 sec	6,9 sec
7,2x	8,4 sec	5,5 sec
8x	7,4 sec	4,9 sec

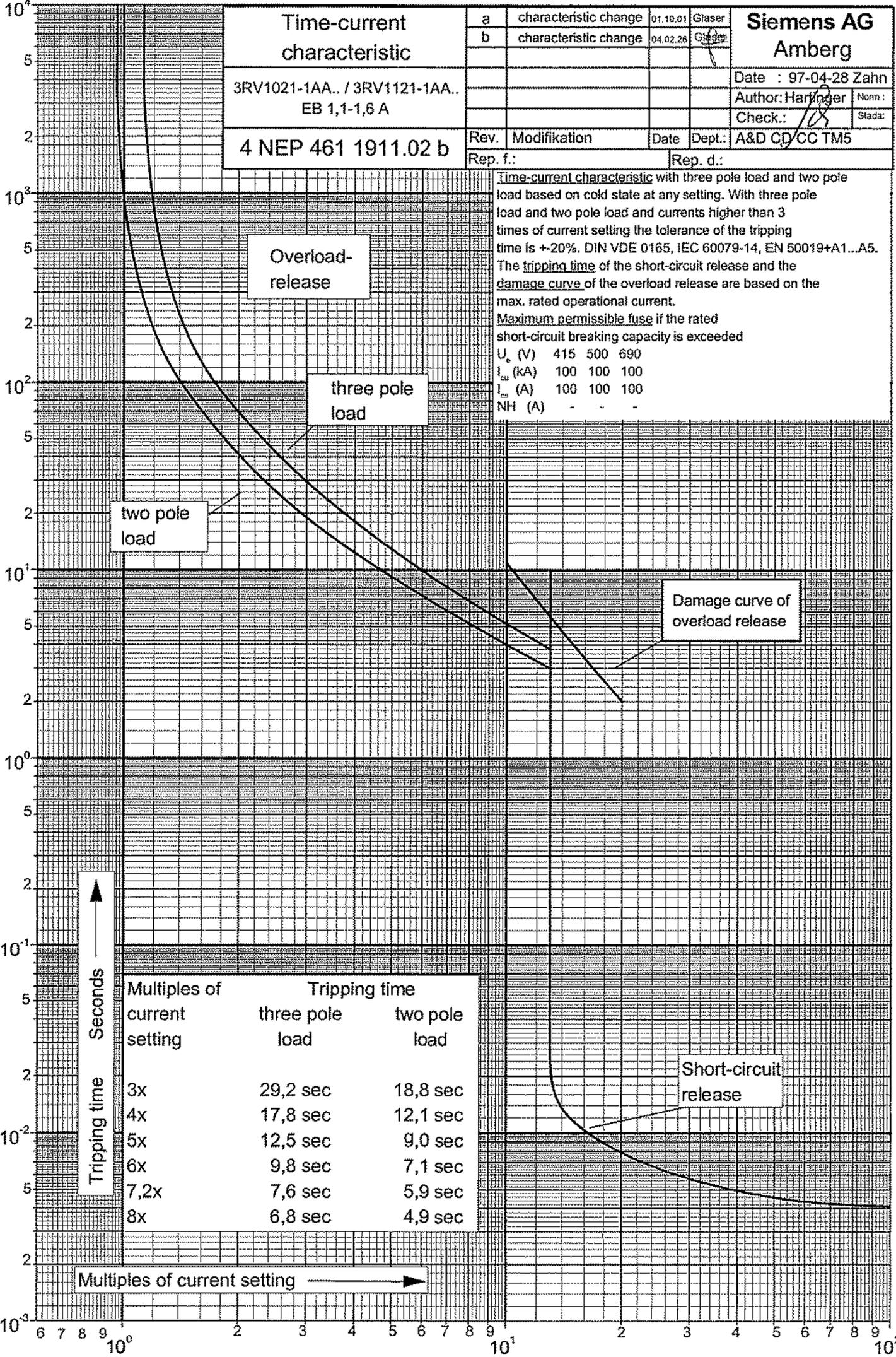
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Time-current characteristic		a	characteristic change	01.10.01	Glaser	Siemens AG Amberg
		b	characteristic change	04.02.26	Glaser	
3RV1021-1AA.. / 3RV1121-1AA.. EB 1,1-1,6 A						Date : 97-04-28 Zahn
4 NEP 461 1911.02 b						Author: Hartinger Norm: Check.: Stadl
Rev.	Modifikation	Date	Dept.	A&D CD/CC TM5		
Rep. f.:		Rep. d.:				

Time-current characteristic with three pole load and two pole load based on cold state at any setting. With three pole load and two pole load and currents higher than 3 times of current setting the tolerance of the tripping time is +20%. DIN VDE 0165, IEC 60079-14, EN 50019+A1...A5. The tripping time of the short-circuit release and the damage curve of the overload release are based on the max. rated operational current. Maximum permissible fuse if the rated short-circuit breaking capacity is exceeded

U _n (V)	415	500	690
I _{cu} (kA)	100	100	100
I _{cs} (A)	100	100	100
NH (A)	-	-	-



Multiples of current setting	Tripping time	
	three pole load	two pole load
3x	29,2 sec	18,8 sec
4x	17,8 sec	12,1 sec
5x	12,5 sec	9,0 sec
6x	9,8 sec	7,1 sec
7,2x	7,6 sec	5,9 sec
8x	6,8 sec	4,9 sec

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Time-current characteristic

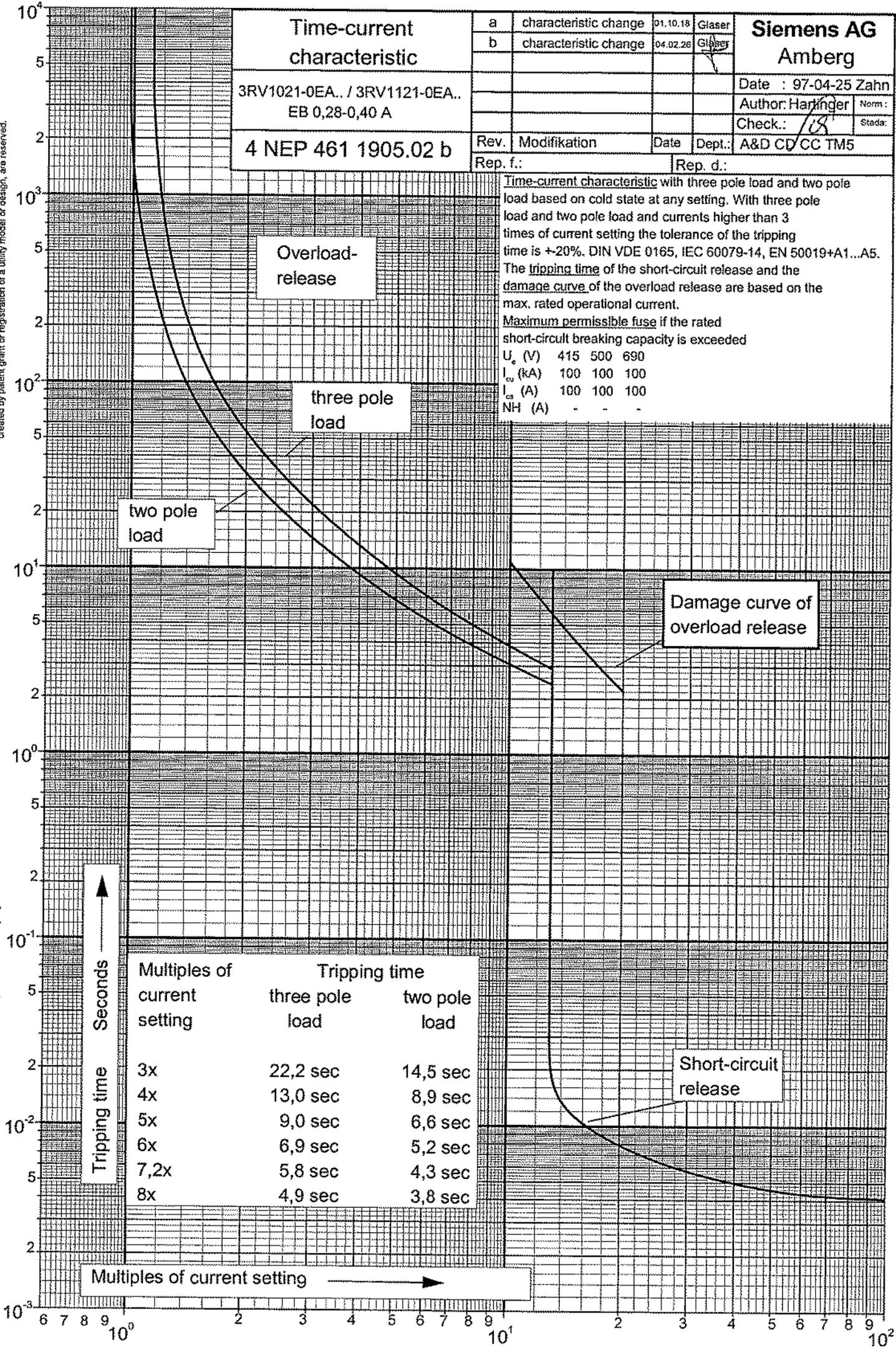
3RV1021-0EA.. / 3RV1121-0EA..
EB 0,28-0,40 A

4 NEP 461 1905.02 b

a	characteristic change	01.10.18	Glaser	Siemens AG Amberg
b	characteristic change	04.02.26	Glaser	
				Date : 97-04-25 Zahn
				Author: Harfinger Norm :
				Check.: /S Stada:
Rev.	Modifikation	Date	Dept.:	A&D CD/CC TM5
Rep. f.:				Rep. d.:

Time-current characteristic with three pole load and two pole load based on cold state at any setting. With three pole load and two pole load and currents higher than 3 times of current setting the tolerance of the tripping time is +20%. DIN VDE 0165, IEC 60079-14, EN 50019+A1...A5. The tripping time of the short-circuit release and the damage curve of the overload release are based on the max. rated operational current. Maximum permissible fuse if the rated short-circuit breaking capacity is exceeded

U_n (V)	415	500	690
I_{cu} (kA)	100	100	100
I_{cs} (A)	100	100	100
NH (A)	-	-	-



Multiples of current setting	Tripping time	
	three pole load	two pole load
3x	22,2 sec	14,5 sec
4x	13,0 sec	8,9 sec
5x	9,0 sec	6,6 sec
6x	6,9 sec	5,2 sec
7,2x	5,8 sec	4,3 sec
8x	4,9 sec	3,8 sec

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↑
Tripping time
Seconds

→
Multiples of current setting

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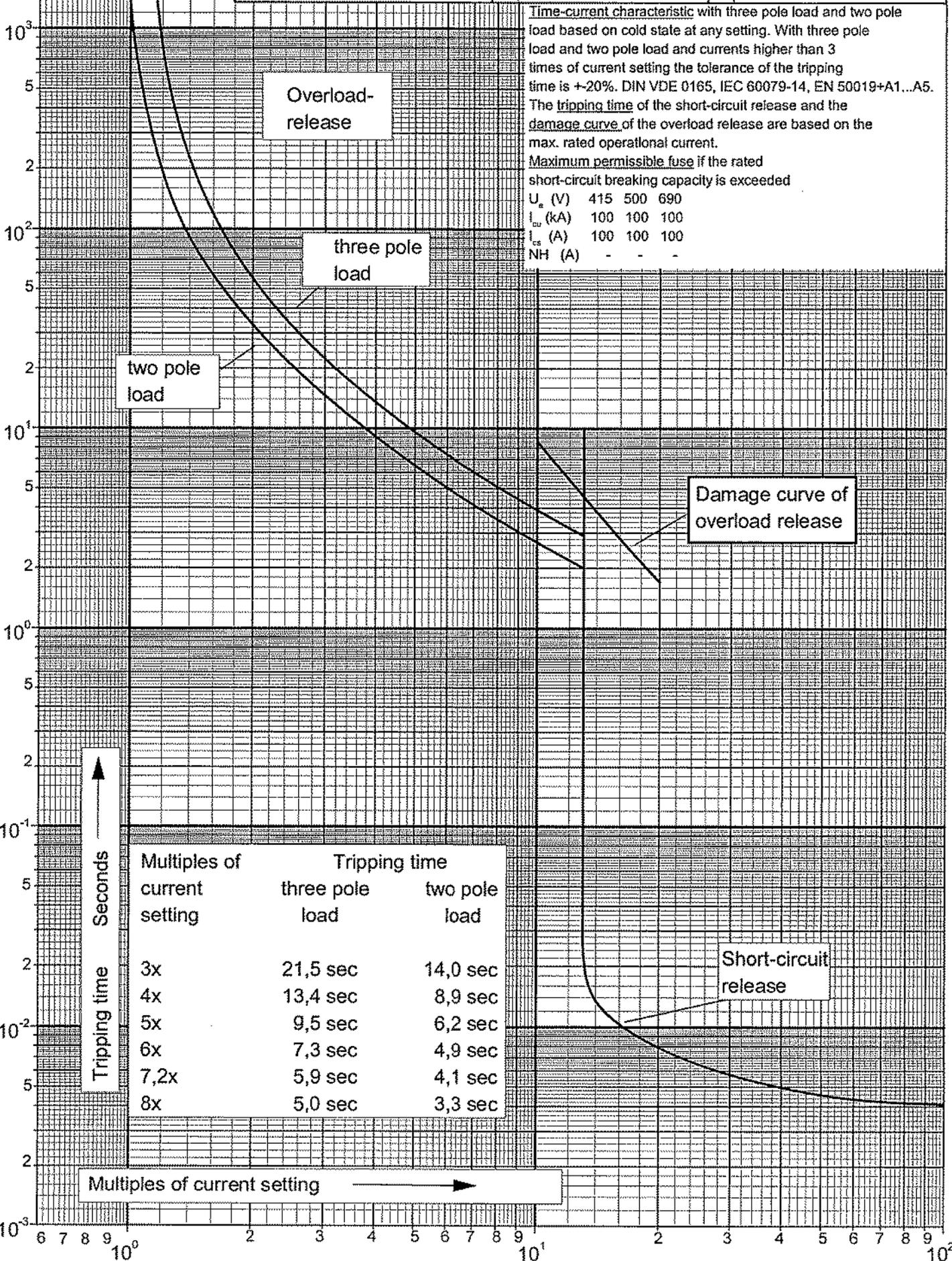
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Time-current characteristic	a	revision	01.09.28	Glaser	Siemens AG Amberg
	b	revision	04.02.28	Glaser	
3RV1021-0AA... / 3RV1121-0AA... EB 0,11-0,16 A					Date : 97-04-24 Zahn
4 NEP 461 1901.02b					Author: Hartinger Norm : Check.: Stada:
Rev. Modifikation			Date	Dept.:	A&D CD CC TM5
Rep. f.:			Rep. d.:		

Time-current characteristic with three pole load and two pole load based on cold state at any setting. With three pole load and two pole load and currents higher than 3 times of current setting the tolerance of the tripping time is +20%. DIN VDE 0165, IEC 60079-14, EN 50019+A1...A5. The tripping time of the short-circuit release and the damage curve of the overload release are based on the max. rated operational current.

Maximum permissible fuse if the rated short-circuit breaking capacity is exceeded

U_n (V)	415	500	690
I_{cu} (kA)	100	100	100
I_{cs} (A)	100	100	100
NH (A)	-	-	-



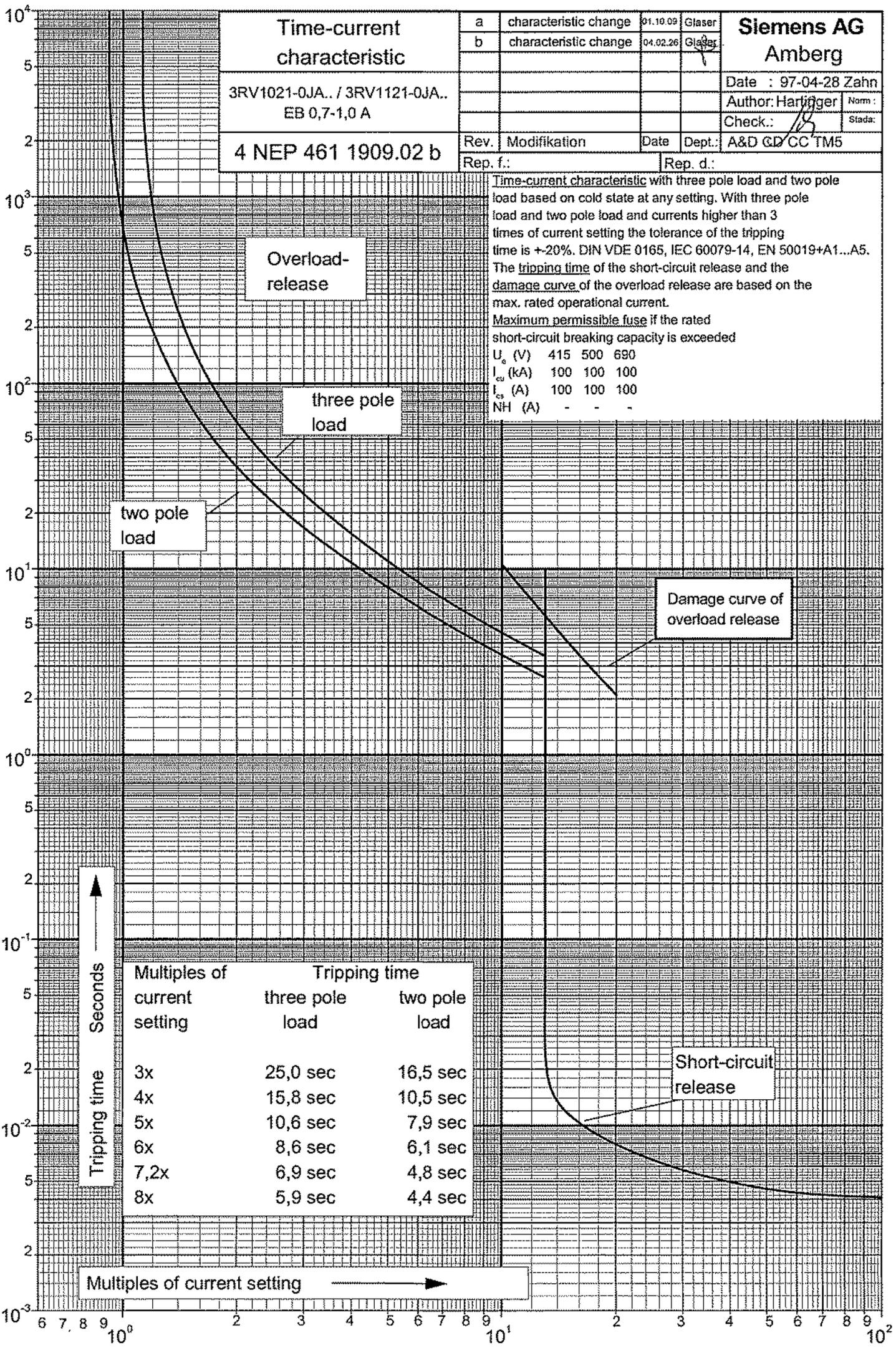
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Time-current characteristic	a	characteristic change	10.10.09	Glaser	Siemens AG Amberg
	b	characteristic change	04.02.26	Glaser	
3RV1021-0JA.. / 3RV1121-0JA.. EB 0,7-1,0 A					Date : 97-04-28 Zahn
4 NEP 461 1909.02 b					Author: Hartinger Norm : Check.: Stada:
Rev.	Modifikation	Date	Dept.	A&D GD/CC TM5	
Rep. f.:			Rep. d.:		

Time-current characteristic with three pole load and two pole load based on cold state at any setting. With three pole load and two pole load and currents higher than 3 times of current setting the tolerance of the tripping time is +20%. DIN VDE 0165, IEC 60079-14, EN 50019+A1...A5. The tripping time of the short-circuit release and the damage curve of the overload release are based on the max. rated operational current. Maximum permissible fuse if the rated short-circuit breaking capacity is exceeded

U_o (V)	415	500	690
I_{cs} (kA)	100	100	100
I_{cs} (A)	100	100	100
NH (A)	-	-	-



Multiples of current setting	Tripping time	
	three pole load	two pole load
3x	25,0 sec	16,5 sec
4x	15,8 sec	10,5 sec
5x	10,6 sec	7,9 sec
6x	8,6 sec	6,1 sec
7,2x	6,9 sec	4,8 sec
8x	5,9 sec	4,4 sec

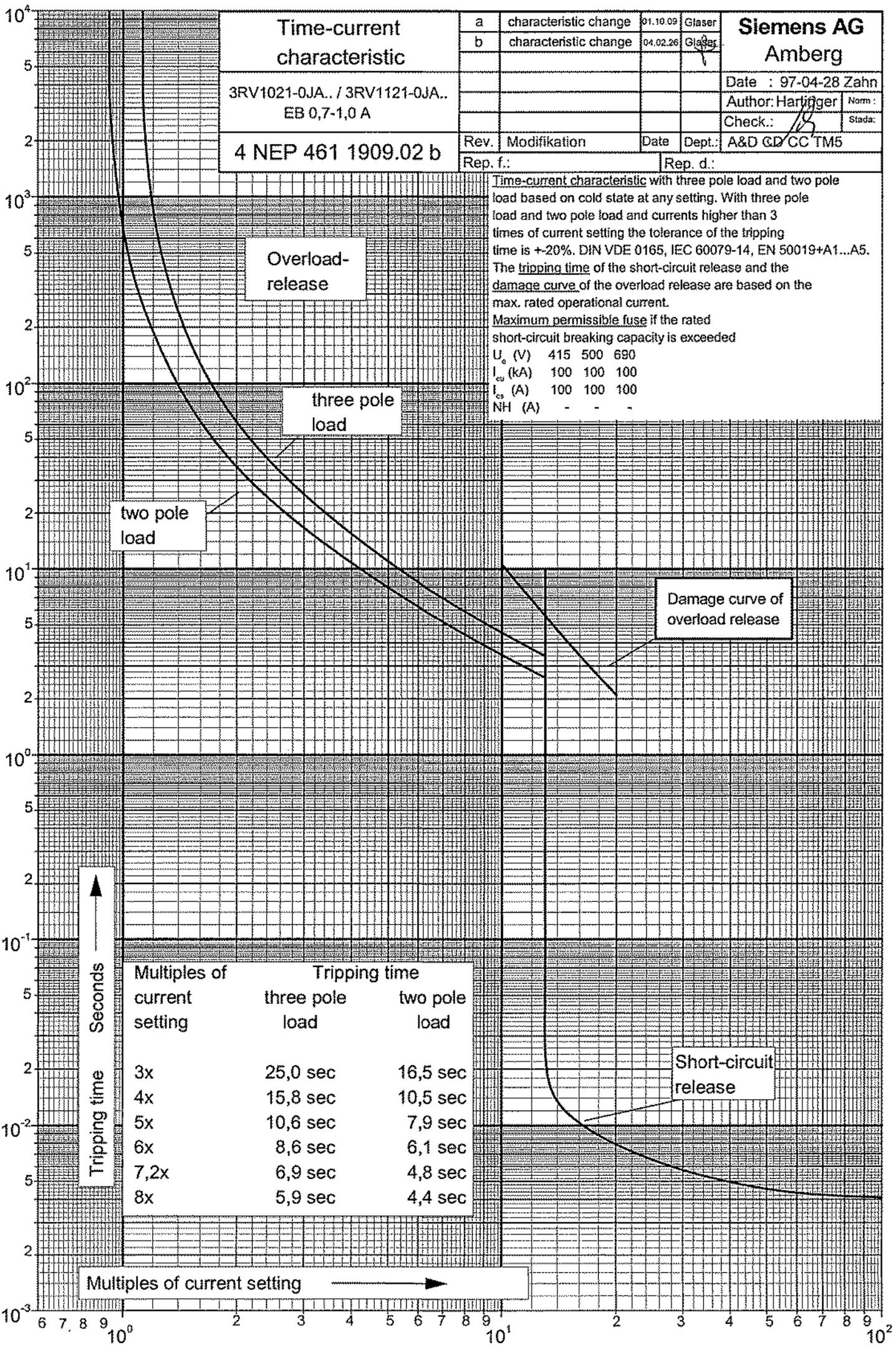
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Time-current characteristic	a	characteristic change	10.10.09	Glaser	Siemens AG Amberg
	b	characteristic change	04.02.26	Glaser	
3RV1021-0JA.. / 3RV1121-0JA.. EB 0,7-1,0 A					Date : 97-04-28 Zahn
4 NEP 461 1909.02 b					Author: Hartigger Norm : Check.: Stada:
Rev.	Modifikation	Date	Dept.	A&D GD/CC TM5	
Rep. f.:			Rep. d.:		

Time-current characteristic with three pole load and two pole load based on cold state at any setting. With three pole load and two pole load and currents higher than 3 times of current setting the tolerance of the tripping time is +20%. DIN VDE 0165, IEC 60079-14, EN 50019+A1...A5. The tripping time of the short-circuit release and the damage curve of the overload release are based on the max. rated operational current. Maximum permissible fuse if the rated short-circuit breaking capacity is exceeded

U_o (V)	415	500	690
I_{cs} (kA)	100	100	100
I_{cs} (A)	100	100	100
NH (A)	-	-	-



Multiples of current setting	Tripping time	
	three pole load	two pole load
3x	25,0 sec	16,5 sec
4x	15,8 sec	10,5 sec
5x	10,6 sec	7,9 sec
6x	8,6 sec	6,1 sec
7,2x	6,9 sec	4,8 sec
8x	5,9 sec	4,4 sec

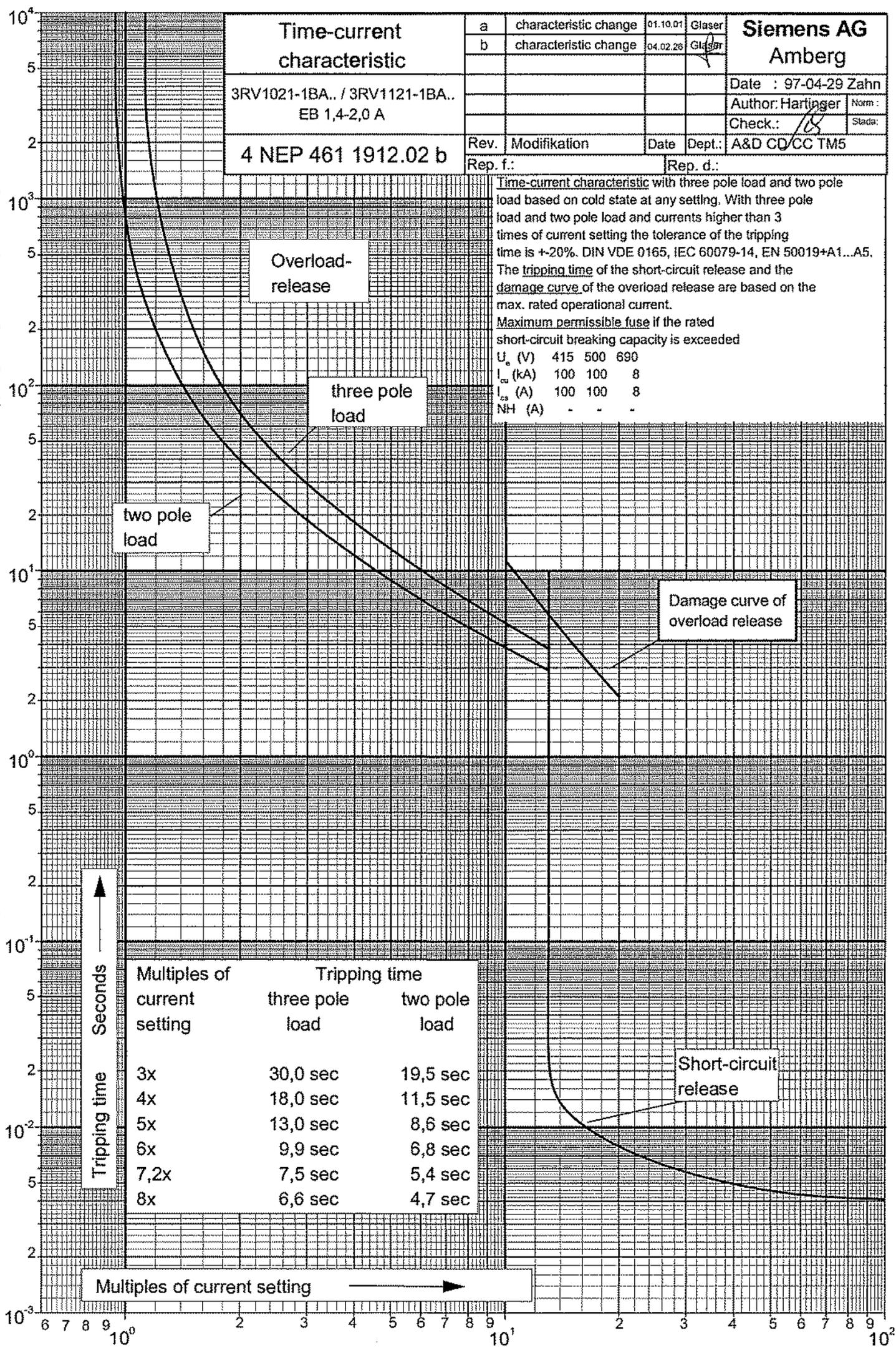
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Time-current characteristic	a	characteristic change	01.10.01	Glaser	Siemens AG Amberg
	b	characteristic change	04.02.28	Glaser	
3RV1021-1BA.. / 3RV1121-1BA.. EB 1,4-2,0 A					Date : 97-04-29 Zahn
4 NEP 461 1912.02 b					Author: Hartinger Norm: Check.: 108 Stada: Rev. Modifikation Date Dept.: A&D CD/CC TM5
Rep. f.:			Rep. d.:		

Time-current characteristic with three pole load and two pole load based on cold state at any setting. With three pole load and two pole load and currents higher than 3 times of current setting the tolerance of the tripping time is +20%. DIN VDE 0165, IEC 60079-14, EN 50019+A1...A5. The tripping time of the short-circuit release and the damage curve of the overload release are based on the max. rated operational current.
Maximum permissible fuse if the rated short-circuit breaking capacity is exceeded

U _o (V)	415	500	690
I _{sc} (kA)	100	100	8
I _{ca} (A)	100	100	8
NH (A)	-	-	-



Multiples of current setting	Tripping time	
	three pole load	two pole load
3x	30,0 sec	19,5 sec
4x	18,0 sec	11,5 sec
5x	13,0 sec	8,6 sec
6x	9,9 sec	6,8 sec
7,2x	7,5 sec	5,4 sec
8x	6,6 sec	4,7 sec

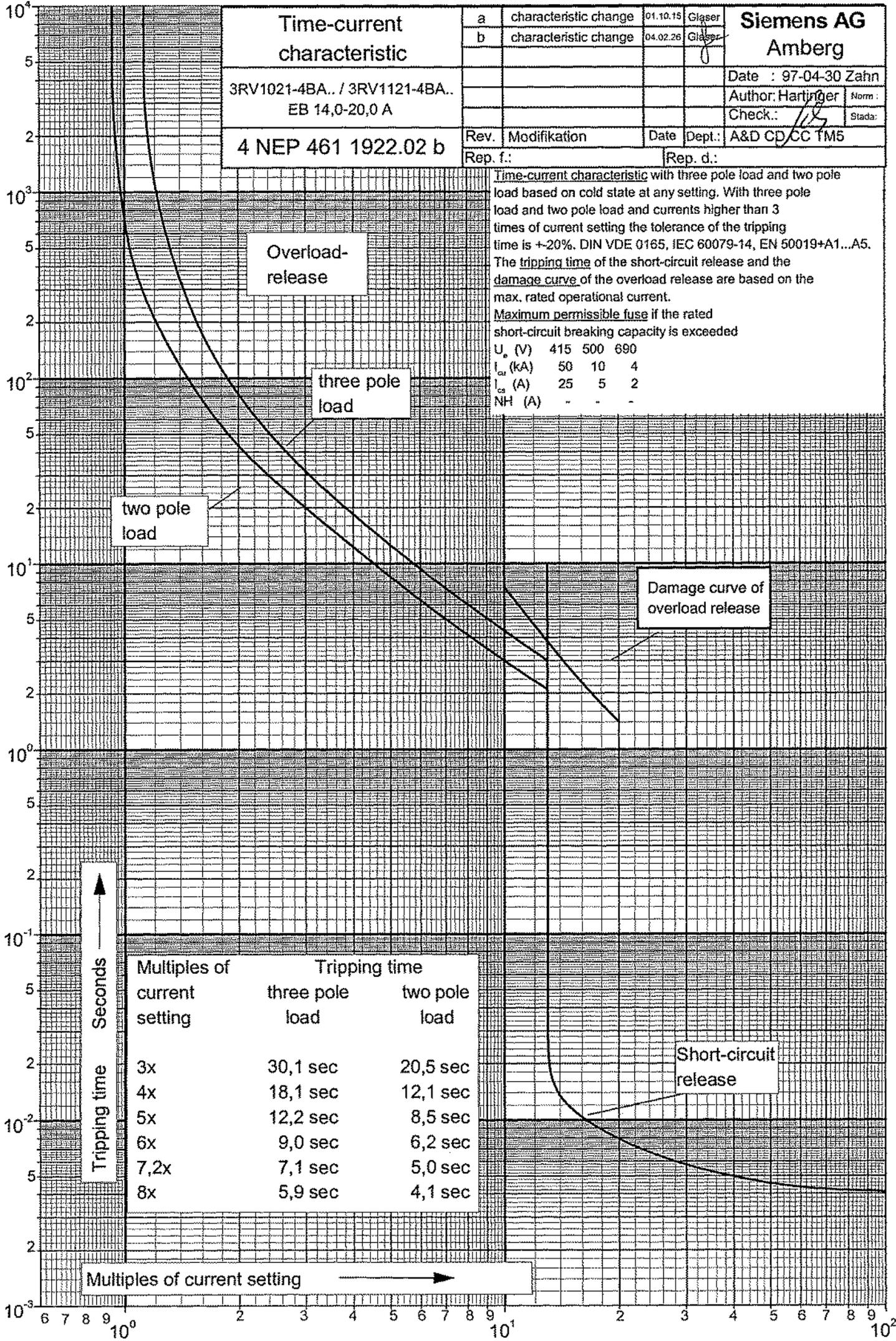
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Time-current characteristic		a	characteristic change	01.10.15	Glaser	Siemens AG Amberg
		b	characteristic change	04.02.26	Glaser	
3RV1021-4BA.. / 3RV1121-4BA.. EB 14,0-20,0 A						Date : 97-04-30 Zahn
4 NEP 461 1922.02 b						Author: Hartinger
Rev. Modifikation						Check: <i>[Signature]</i>
Date						Dept.: A&D CD/CC TM5
Rep. f.:						Rep. d.:

Time-current characteristic with three pole load and two pole load based on cold state at any setting. With three pole load and two pole load and currents higher than 3 times of current setting the tolerance of the tripping time is +20%. DIN VDE 0165, IEC 60079-14, EN 50019+A1...A5. The tripping time of the short-circuit release and the damage curve of the overload release are based on the max. rated operational current.
Maximum permissible fuse if the rated short-circuit breaking capacity is exceeded

U _n (V)	415	500	690
I _{cr} (kA)	50	10	4
I _{cs} (A)	25	5	2
NH (A)	-	-	-



Multiples of current setting	Tripping time	
	three pole load	two pole load
3x	30,1 sec	20,5 sec
4x	18,1 sec	12,1 sec
5x	12,2 sec	8,5 sec
6x	9,0 sec	6,2 sec
7,2x	7,1 sec	5,0 sec
8x	5,9 sec	4,1 sec

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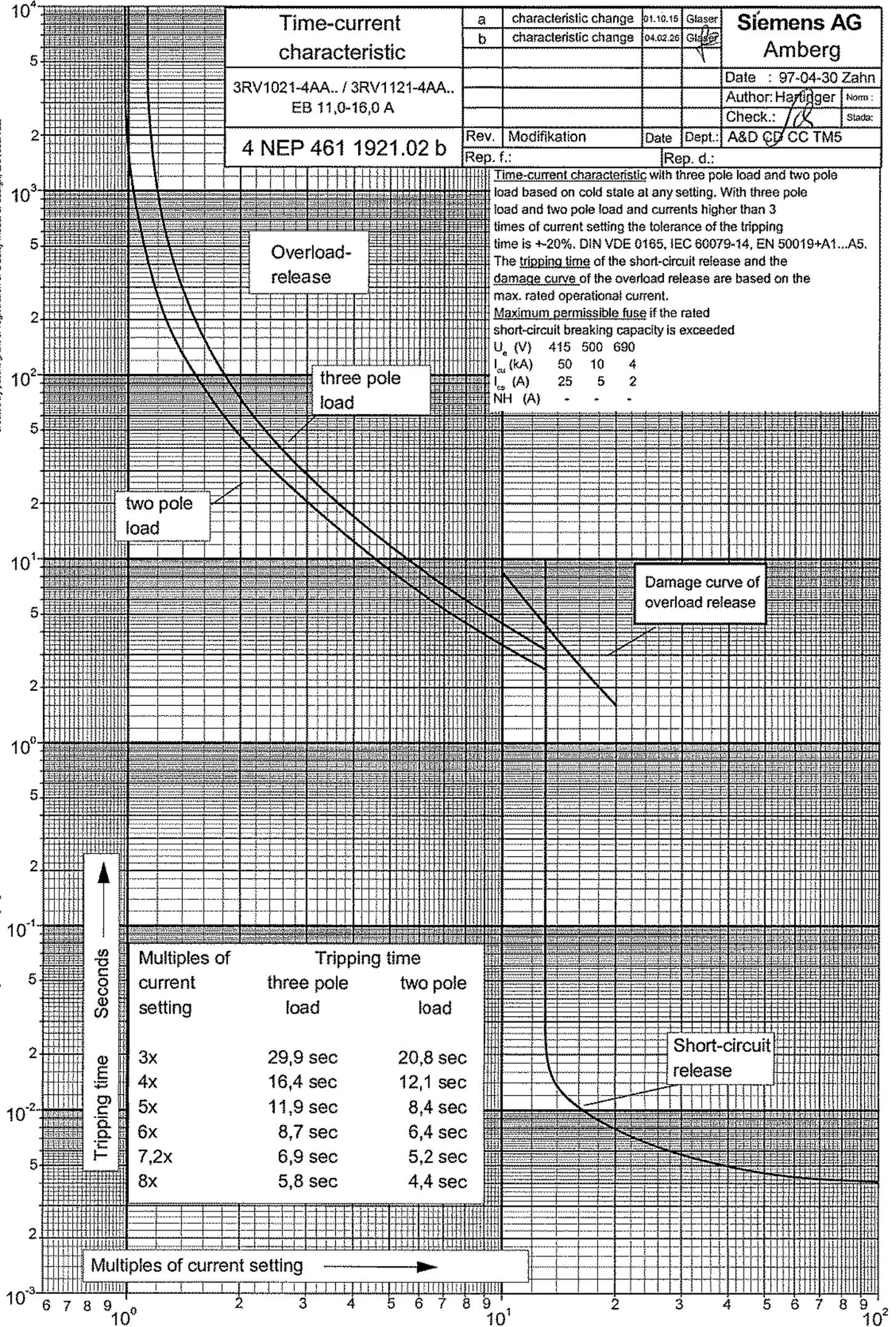
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Time-current characteristic		a	characteristic change	01.10.15	Glaser	Siemens AG Amberg
		b	characteristic change	04.02.26	Glaser	
3RV1021-4AA.. / 3RV1121-4AA.. EB 11,0-16,0 A						Date : 97-04-30 Zahn
4 NEP 461 1921.02 b						Author: Hartinger Norm:
Rev. Modifikation				Date	Dept.: A&D CC TM5	Check.: <i>JR</i> Stadt:
Rep. f.:			Rep. d.:			

Time-current characteristic with three pole load and two pole load based on cold state at any setting. With three pole load and two pole load and currents higher than 3 times of current setting the tolerance of the tripping time is +20%. DIN VDE 0165, IEC 60079-14, EN 50019+A1...A5. The tripping time of the short-circuit release and the damage curve of the overload release are based on the max. rated operational current.

Maximum permissible fuse if the rated short-circuit breaking capacity is exceeded

U _e (V)	415	500	690
I _{cu} (kA)	50	10	4
I _{cs} (A)	25	5	2
NH (A)	-	-	-



Multiples of current setting	Tripping time	
	three pole load	two pole load
3x	29,9 sec	20,8 sec
4x	16,4 sec	12,1 sec
5x	11,9 sec	8,4 sec
6x	8,7 sec	6,4 sec
7,2x	6,9 sec	5,2 sec
8x	5,8 sec	4,4 sec

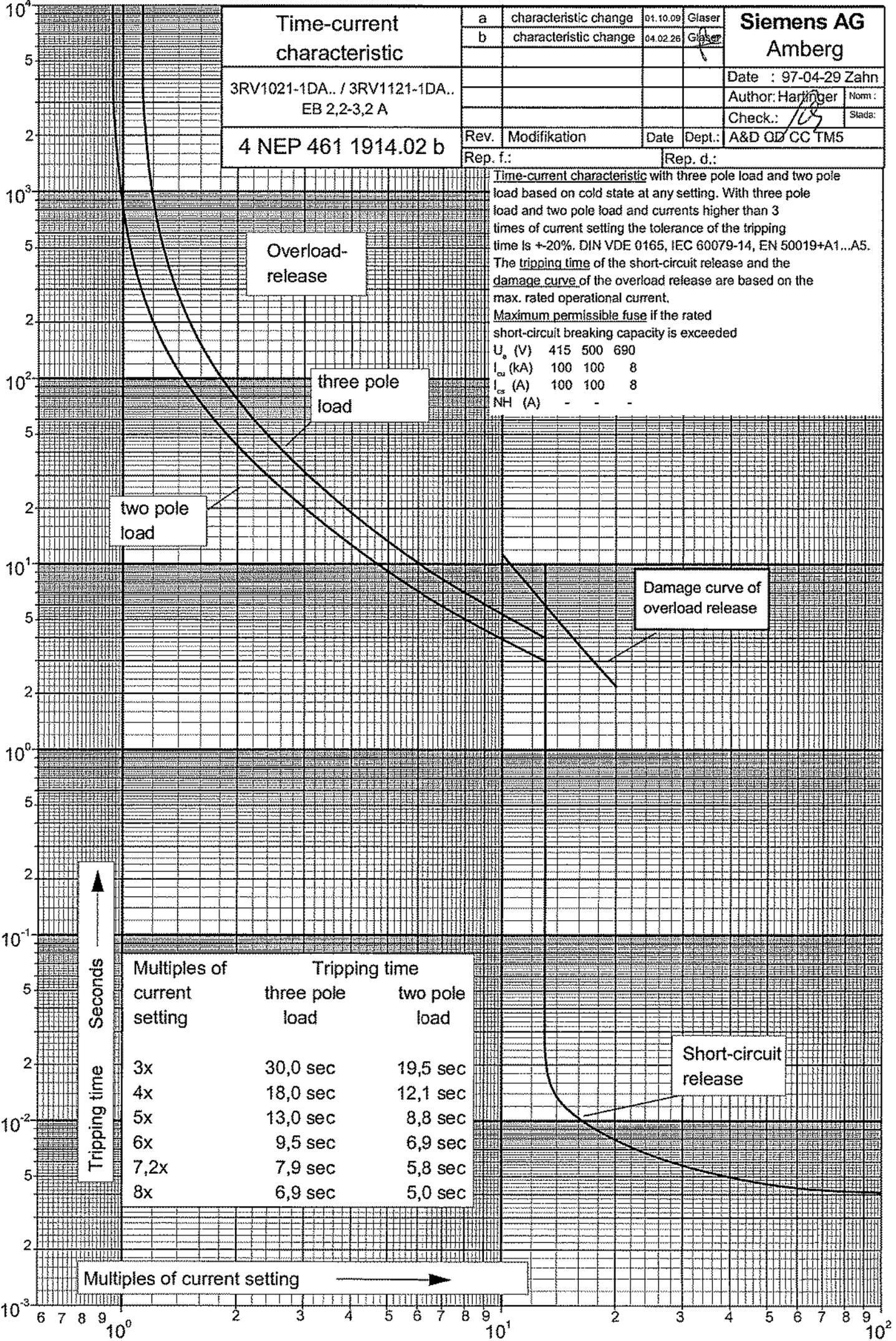
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Time-current characteristic	a	characteristic change	01.10.09	Glaser	Siemens AG Amberg
	b	characteristic change	04.02.26	Glaser	
3RV1021-1DA.. / 3RV1121-1DA.. EB 2,2-3,2 A					Date : 97-04-29 Zahn
4 NEP 461 1914.02 b					Author: Harfinger Norm:
Rev. Modifikation			Date	Dept.:	A&D GD CC TMS
Rep. f.:			Rep. d.:		

Time-current characteristic with three pole load and two pole load based on cold state at any setting. With three pole load and two pole load and currents higher than 3 times of current setting the tolerance of the tripping time is +20%. DIN VDE 0165, IEC 60079-14, EN 50019+A1...A5. The tripping time of the short-circuit release and the damage curve of the overload release are based on the max. rated operational current. Maximum permissible fuse if the rated short-circuit breaking capacity is exceeded

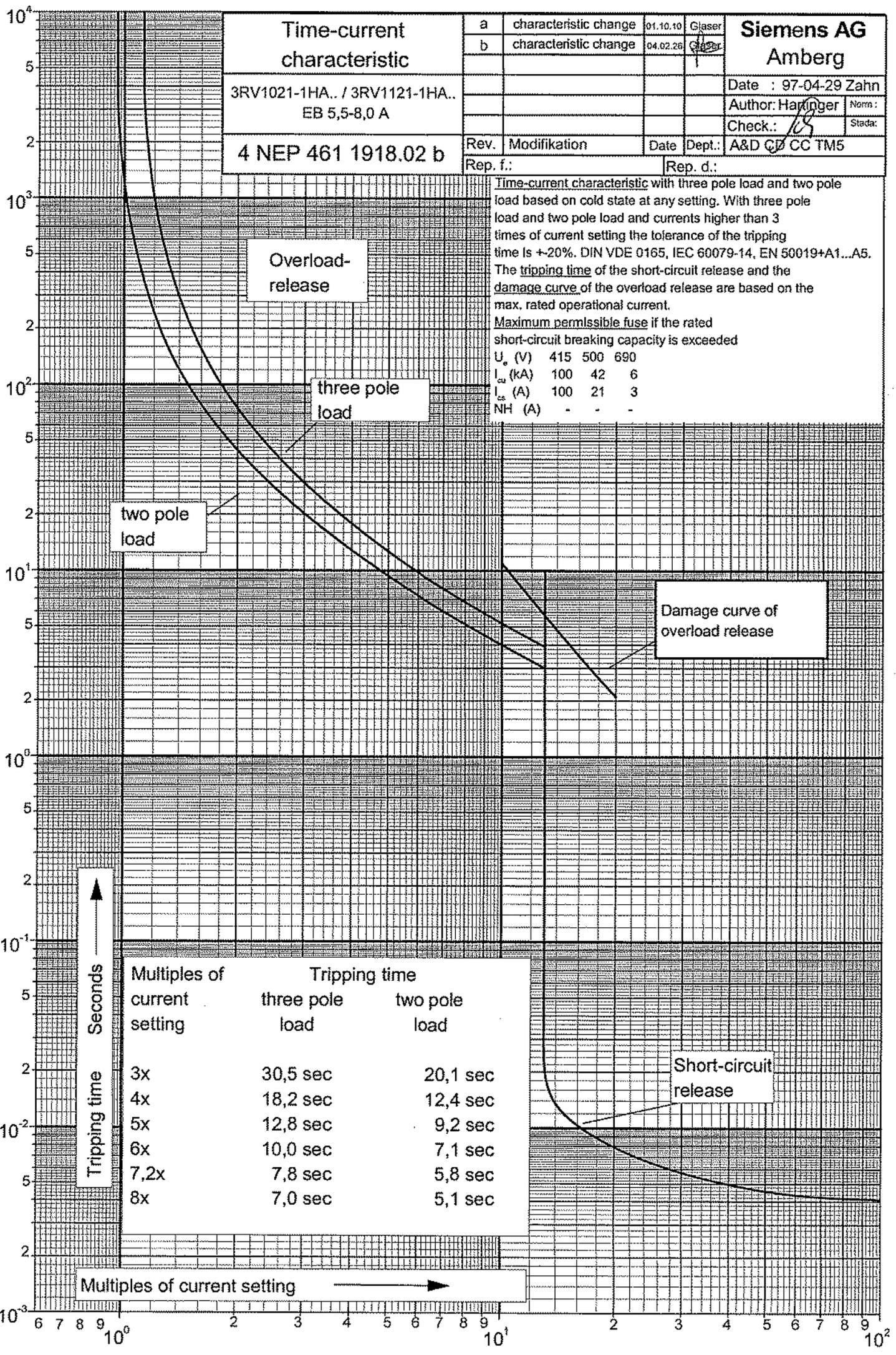
U _o (V)	415	500	690
I _{cu} (kA)	100	100	8
I _{cs} (A)	100	100	8
NH (A)	-	-	-



Multiples of current setting	Tripping time	
	three pole load	two pole load
3x	30,0 sec	19,5 sec
4x	18,0 sec	12,1 sec
5x	13,0 sec	8,8 sec
6x	9,5 sec	6,9 sec
7,2x	7,9 sec	5,8 sec
8x	6,9 sec	5,0 sec

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Siemens AG
Amberg

Time-current characteristic

3RV1021-1JA.. / 3RV1121-1JA..
EB 7,0-10,0 A

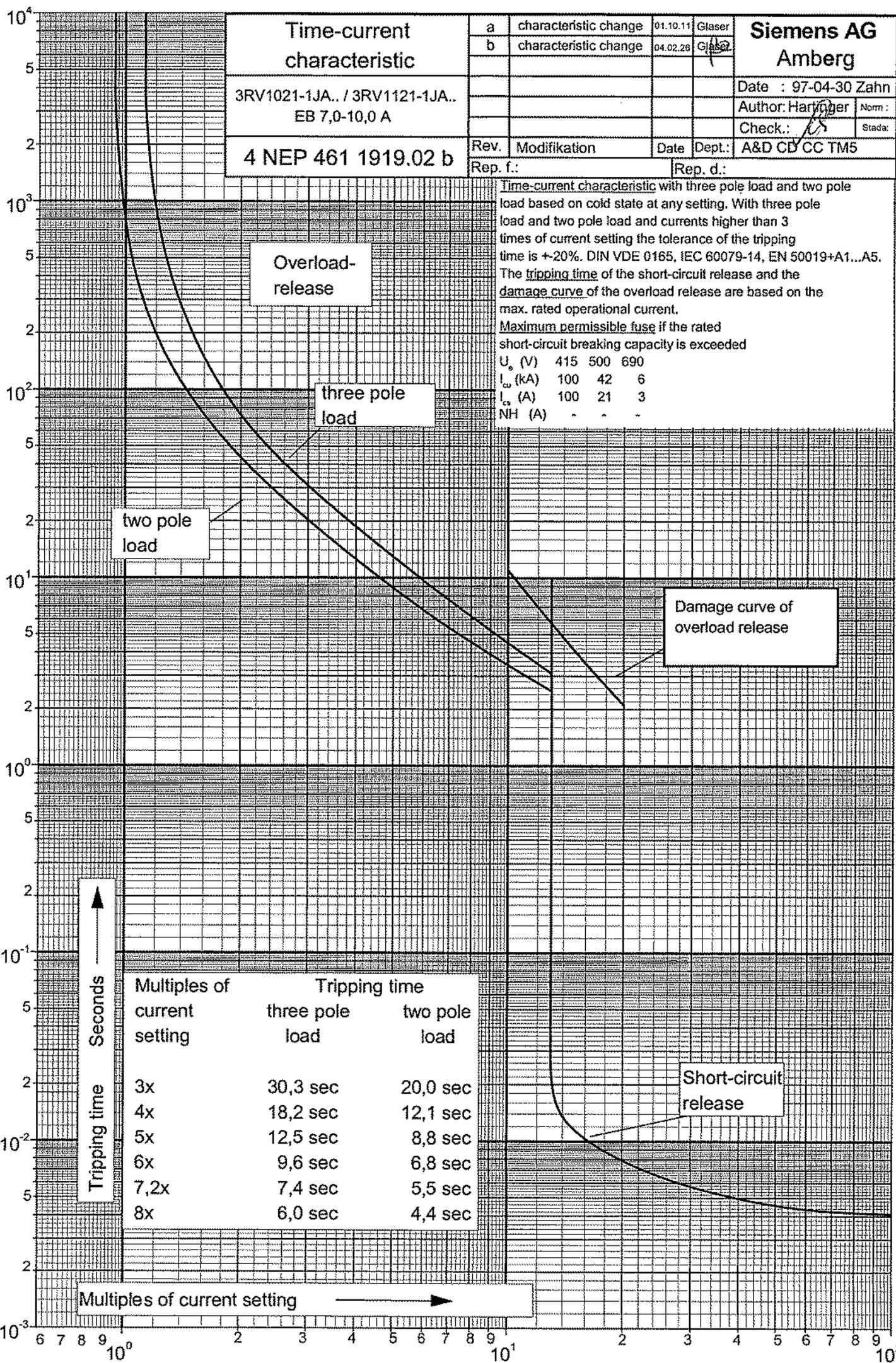
4 NEP 461 1919.02 b

a	characteristic change	01.10.11	Glaser
b	characteristic change	04.02.28	Glaser
Rev.	Modifikation	Date	Dept.:
Rep. f.:		Rep. d.:	

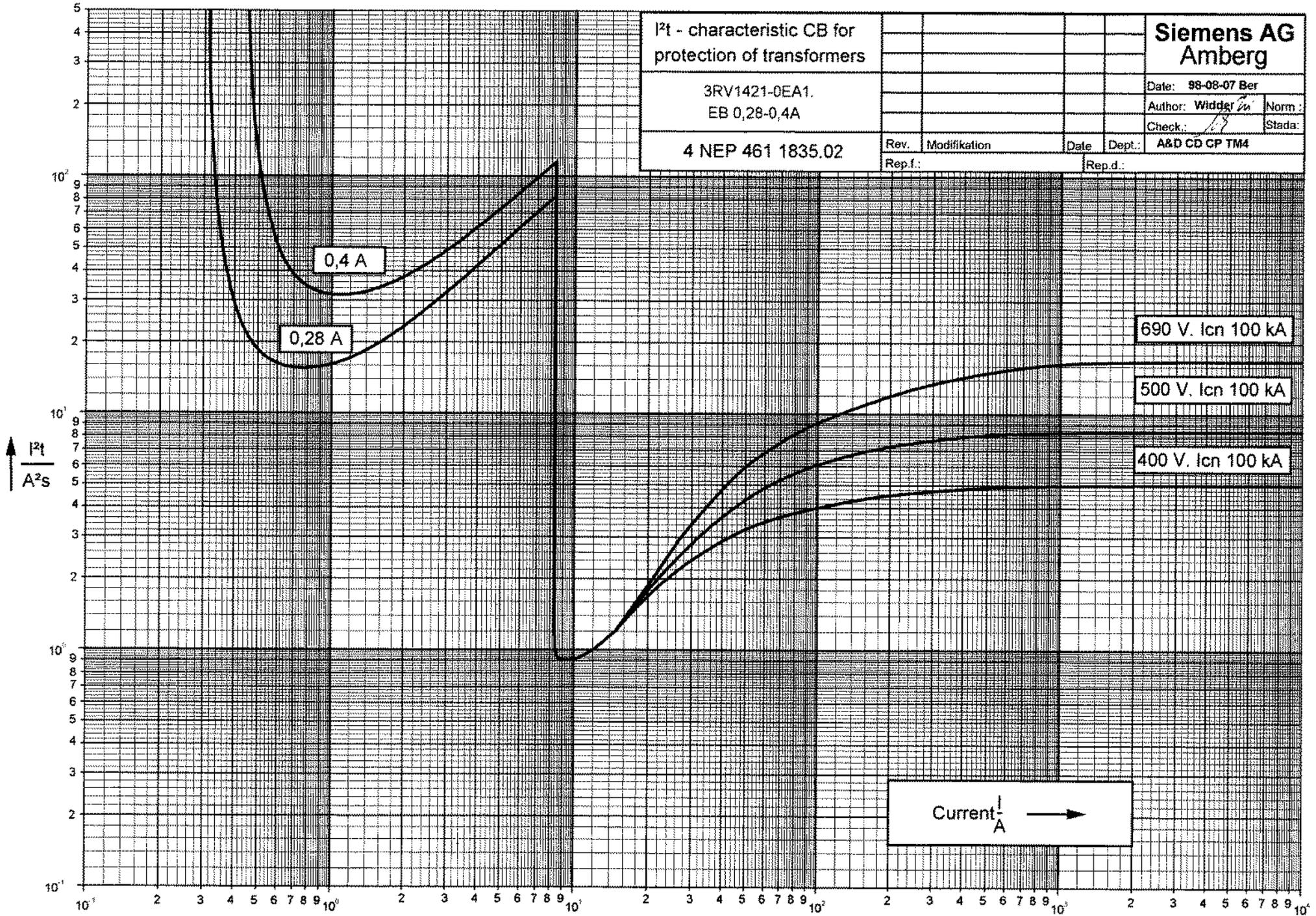
Date : 97-04-30 Zahn
Author: Hartig
Check.:
Norm :
Stadl:

Time-current characteristic with three pole load and two pole load based on cold state at any setting. With three pole load and two pole load and currents higher than 3 times of current setting the tolerance of the tripping time is +20%. DIN VDE 0165, IEC 60079-14, EN 50019+A1...A5. The tripping time of the short-circuit release and the damage curve of the overload release are based on the max. rated operational current.
Maximum permissible fuse if the rated short-circuit breaking capacity is exceeded

U _o (V)	415	500	690
I _{sc} (kA)	100	42	6
I _{cs} (A)	100	21	3
NH (A)	-	-	-

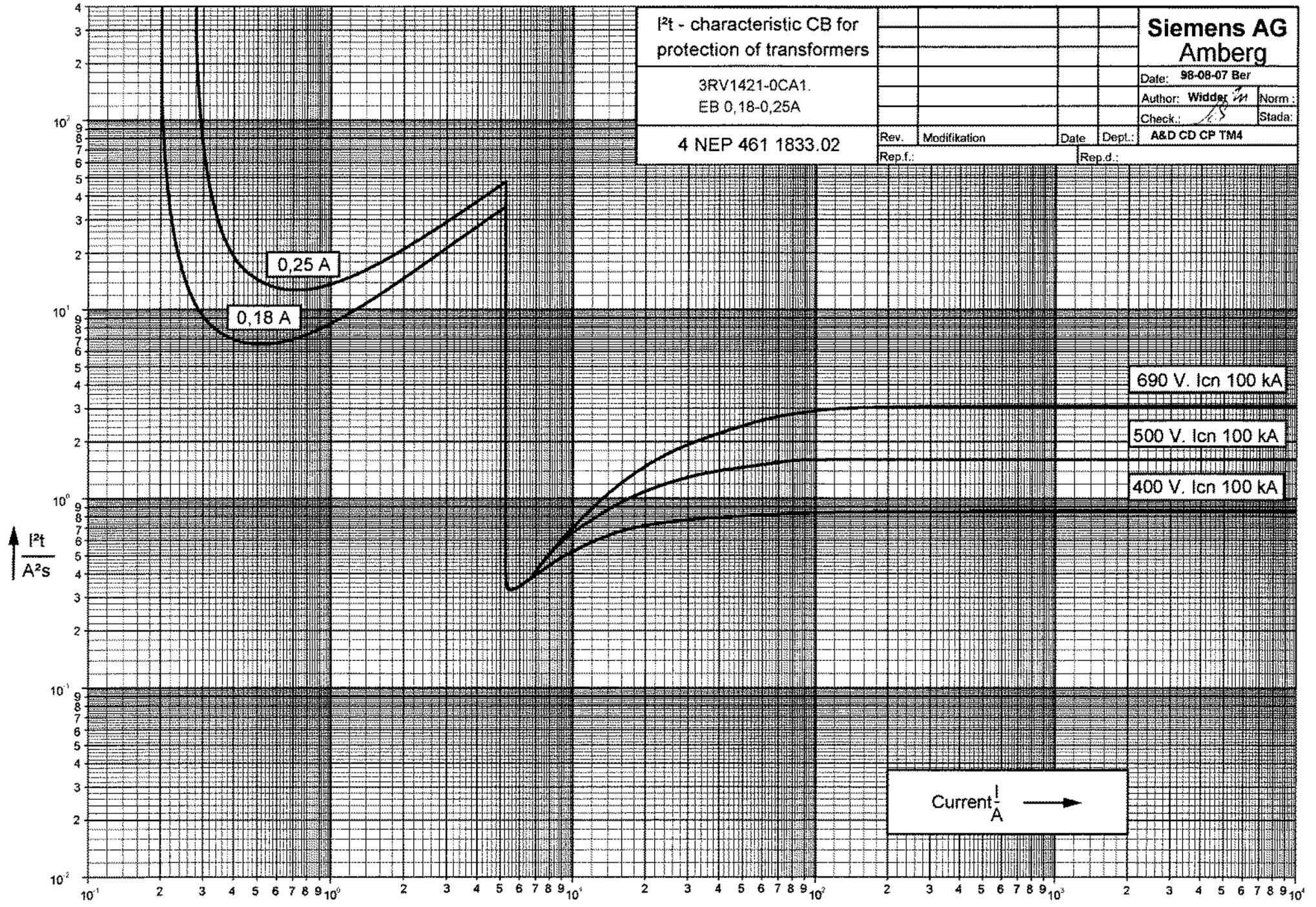


Multiples of current setting	Tripping time	
	three pole load	two pole load
3x	30,3 sec	20,0 sec
4x	18,2 sec	12,1 sec
5x	12,5 sec	8,8 sec
6x	9,6 sec	6,8 sec
7,2x	7,4 sec	5,5 sec
8x	6,0 sec	4,4 sec



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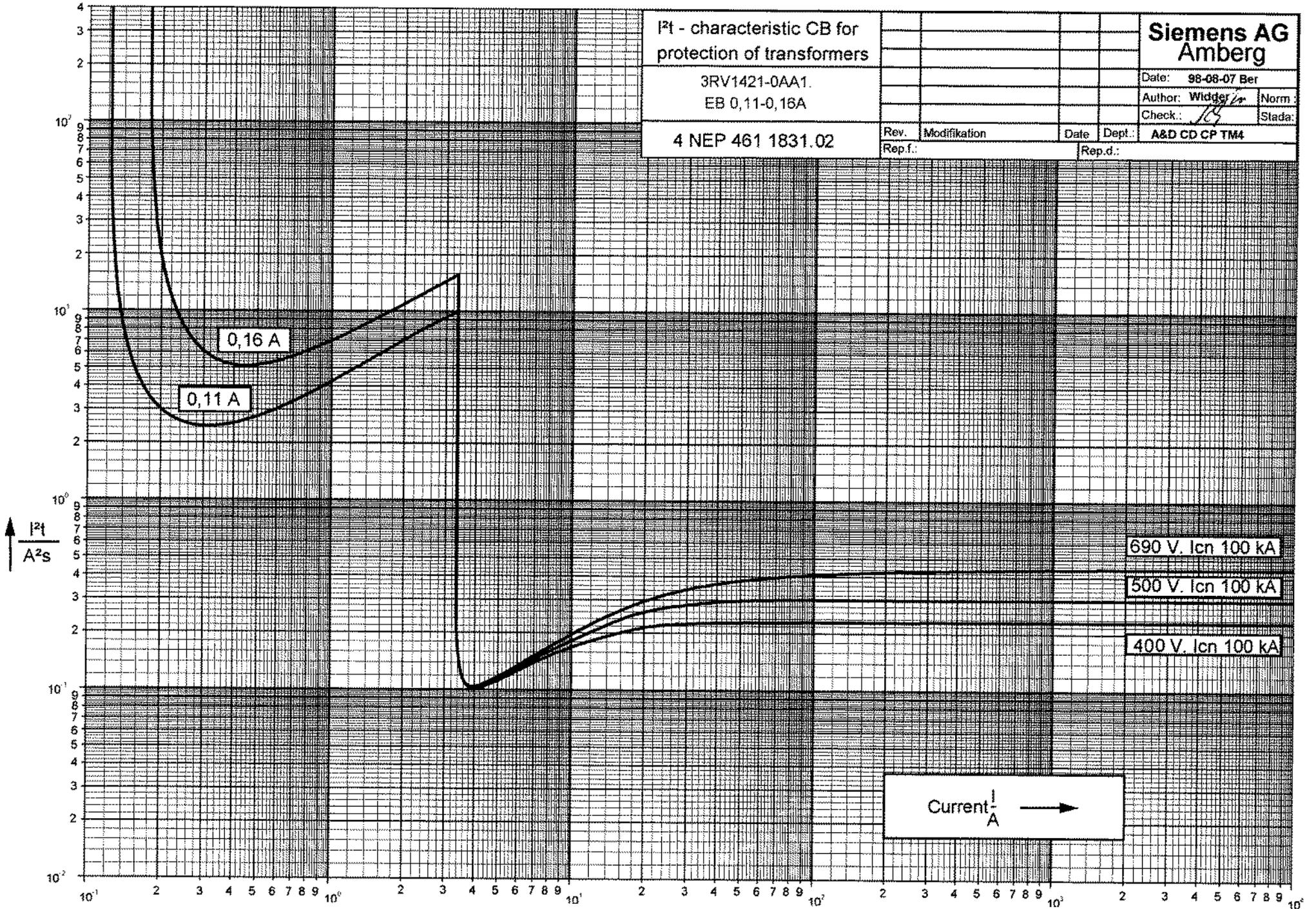
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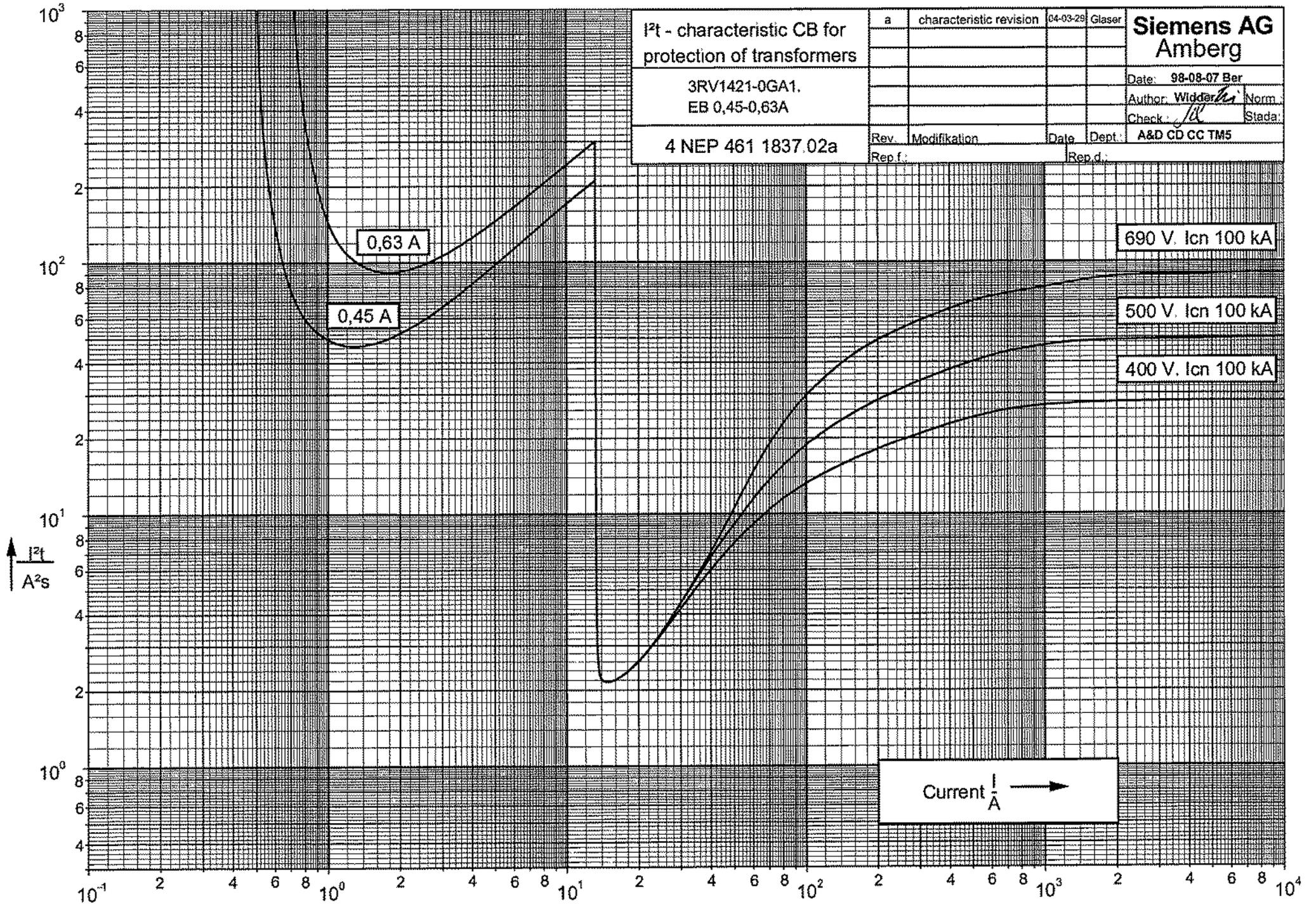


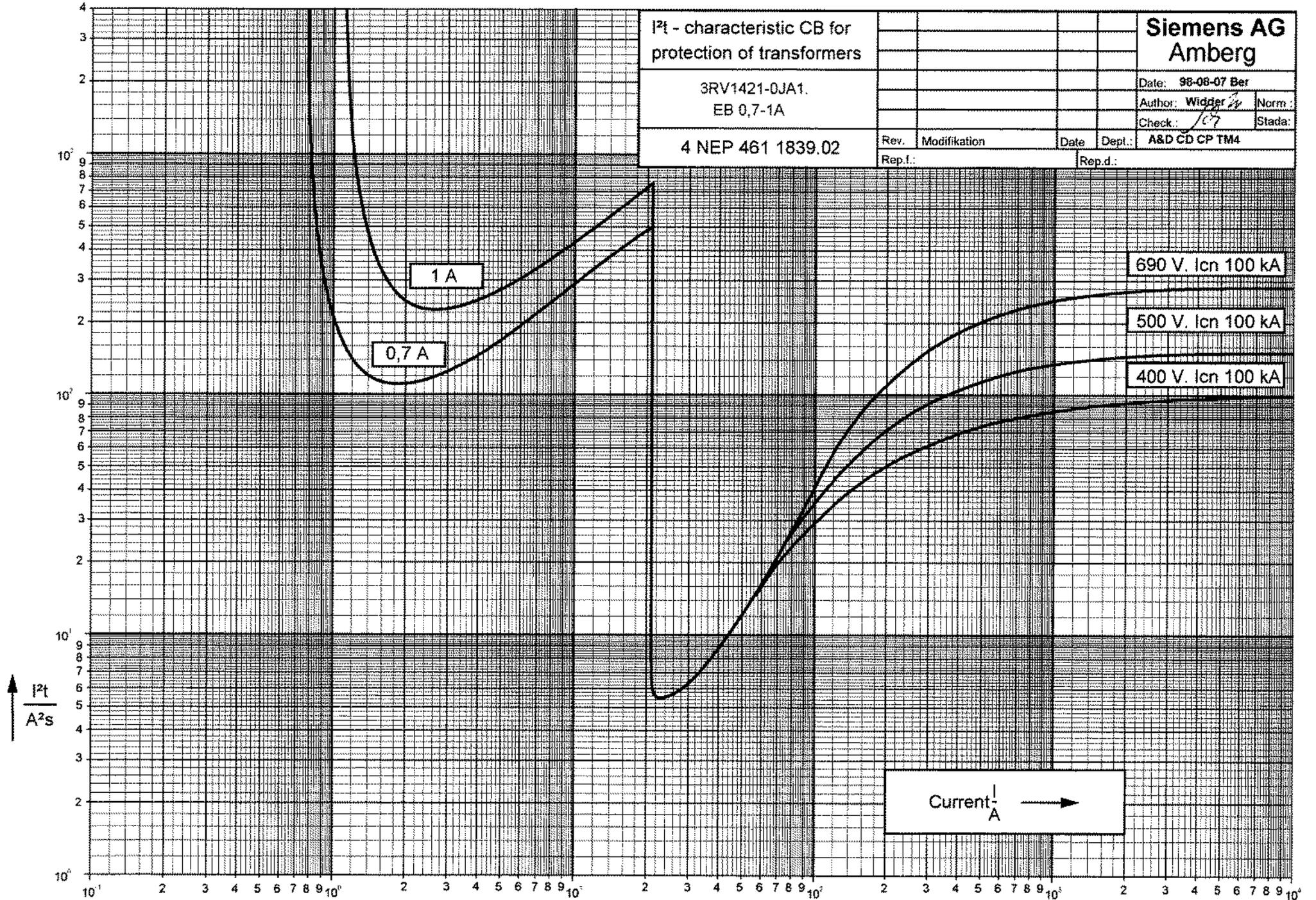
I^2t - characteristic CB for protection of transformers				Siemens AG	
3RV1421-0CA1				Date: 98-08-07 Ber	
EB 0,18-0,25A				Author: Widdar <i>W</i> Norm:	
4 NEP 461 1833.02				Check: <i>LS</i> Stada:	
Rev.	Modifikation	Date	Dept.:	A&D CD CP TM4	
Rep.f.:			Rep.d.:		

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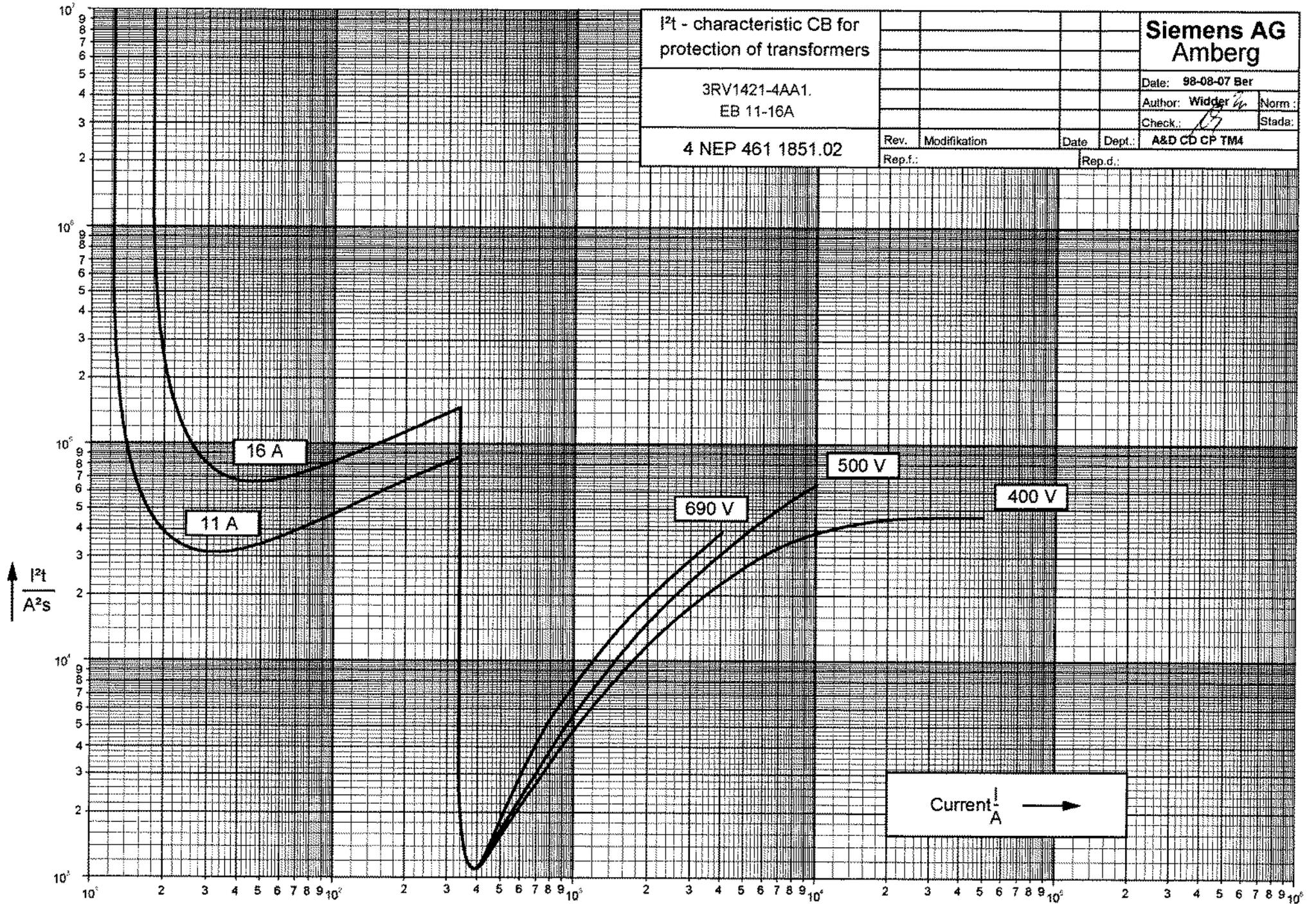






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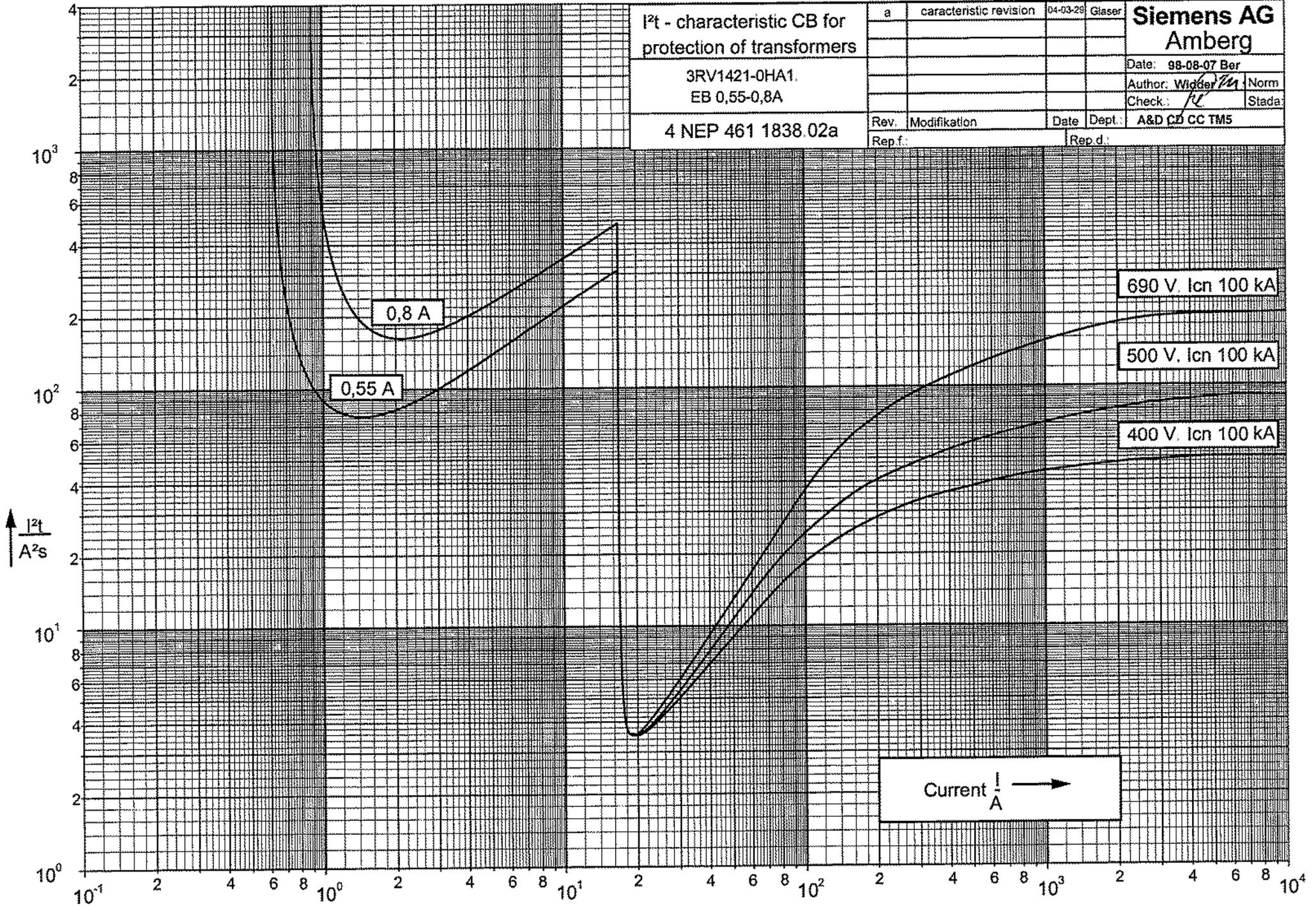


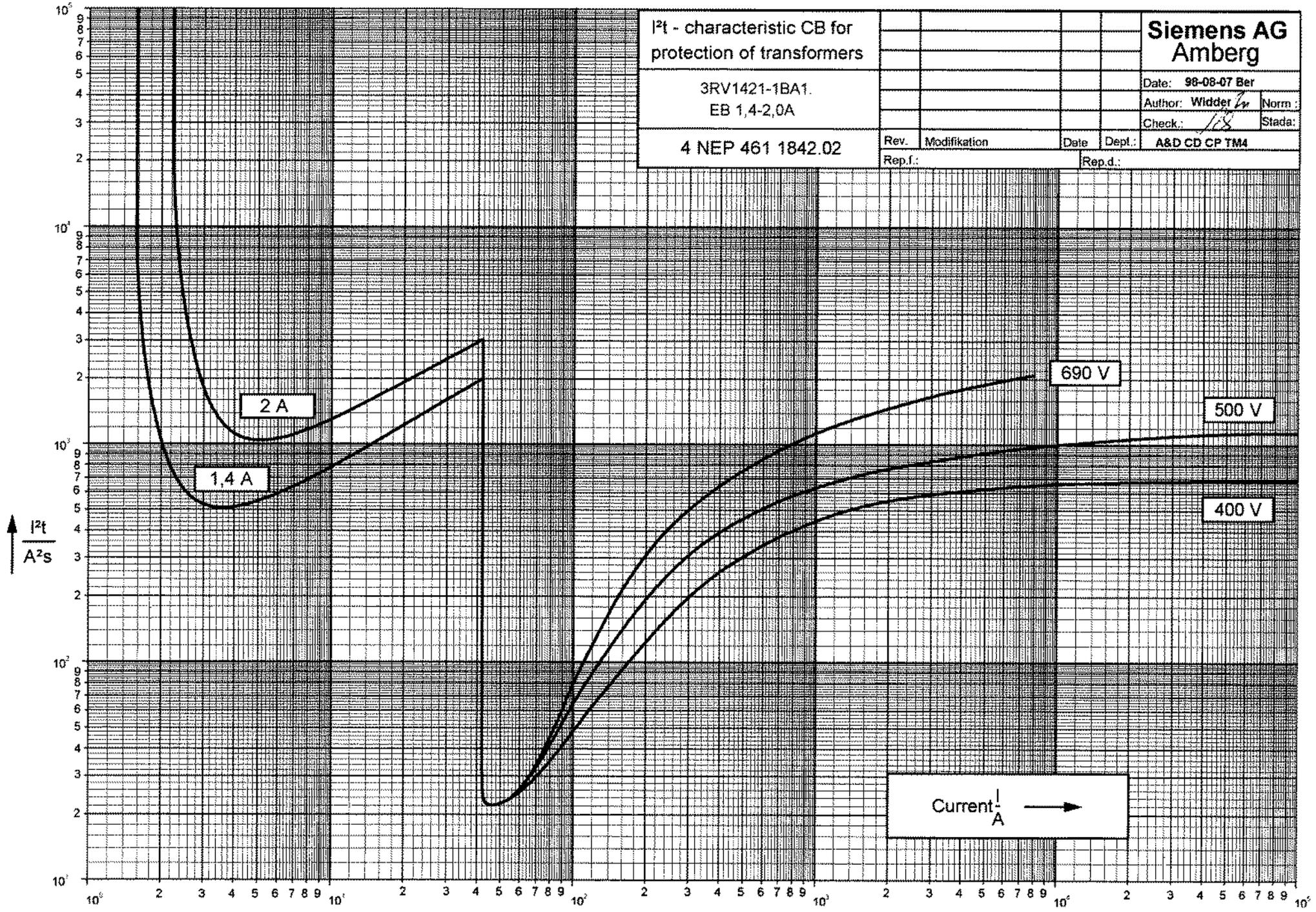
I^2t - characteristic CB for protection of transformers

3RV1421-0HA1.
EB 0,55-0,8A

4 NEP 461 1838.02a

a	characteristic revision	04-03-29	Glaser	Siemens AG Amberg
				Date: 98-08-07 Ber
				Author: <i>Wieder</i> Norm
				Check: <i>ru</i> Stada
Rev.	Modifikation	Date	Dept.	A&D CC CC TM5
Rep. f.			Rep. d.	



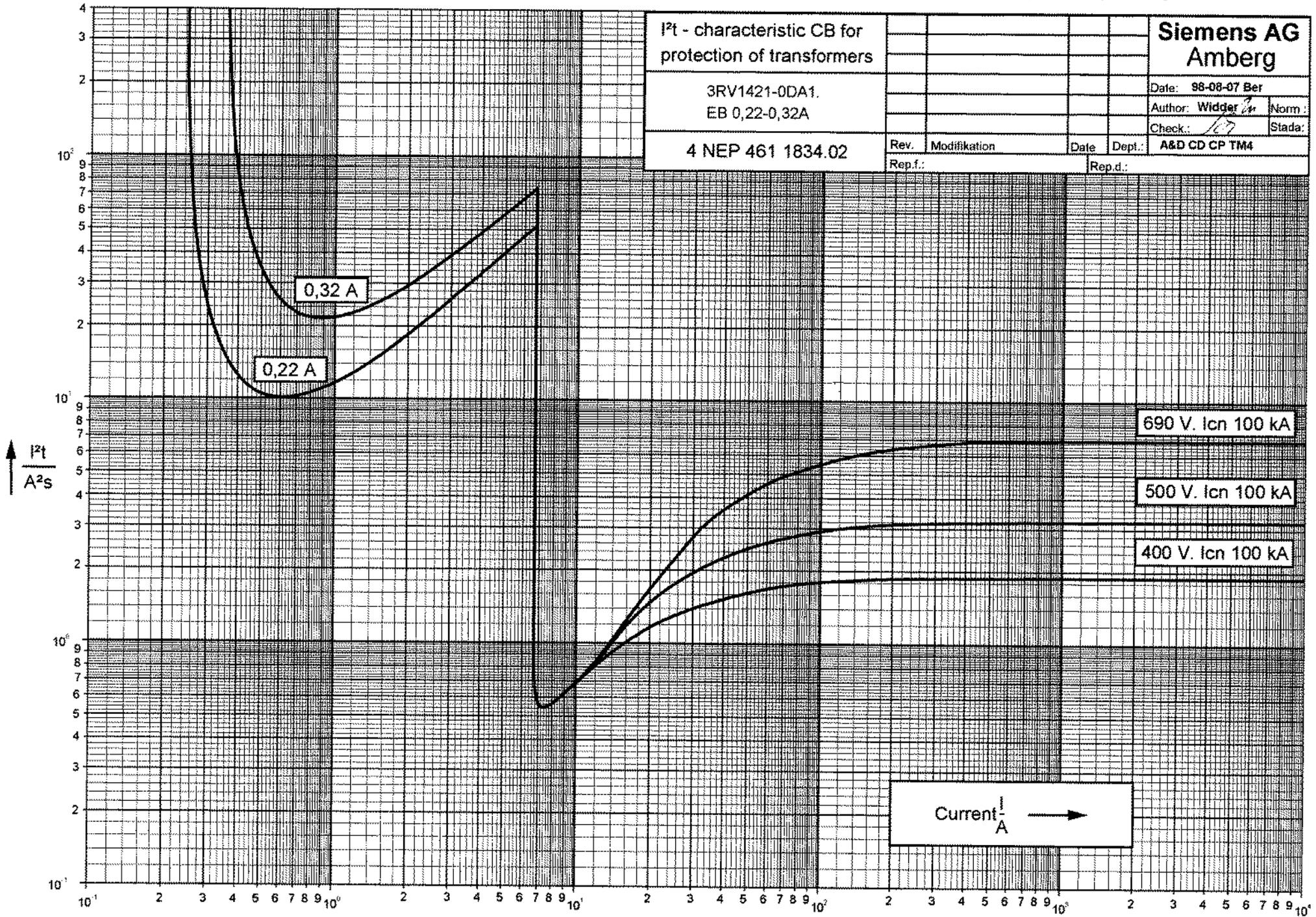


I^2t - characteristic CB for protection of transformers				Siemens AG Amberg			
3RV1421-1BA1 EB 1,4-2,0A							
4 NEP 461 1842.02				Check: /s Stada:	Dept.: A&D CD CP TMA		
Rev.	Modifikation	Date	Dept.	Rep.d.:			
Rep.f.:				Rep.d.:			

Current $\frac{I}{A}$ \rightarrow

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I^2t - characteristic CB for protection of transformers

3RV1421-0DA1.
EB 0,22-0,32A

4 NEP 461 1834.02

Rev.	Modifikation	Date	Dept.
Rep.f.	Rep.d.		

Siemens AG
Amberg

Date: 98-06-07 Ber
Author: Widger
Check: 107
Stada:
A&D CD CP TM4

690 V. Icn 100 kA

500 V. Icn 100 kA

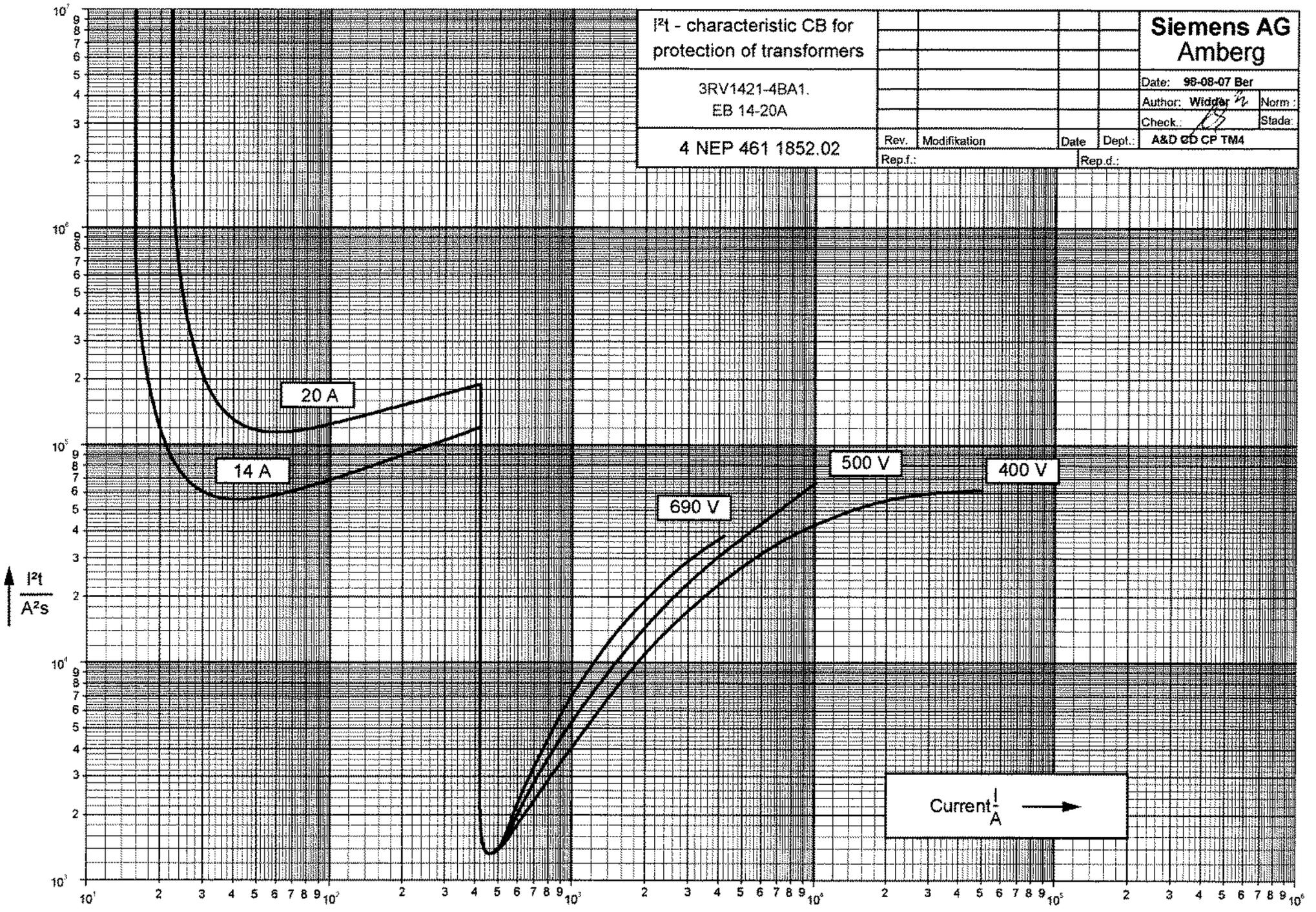
400 V. Icn 100 kA

Current $\frac{I}{A}$ →

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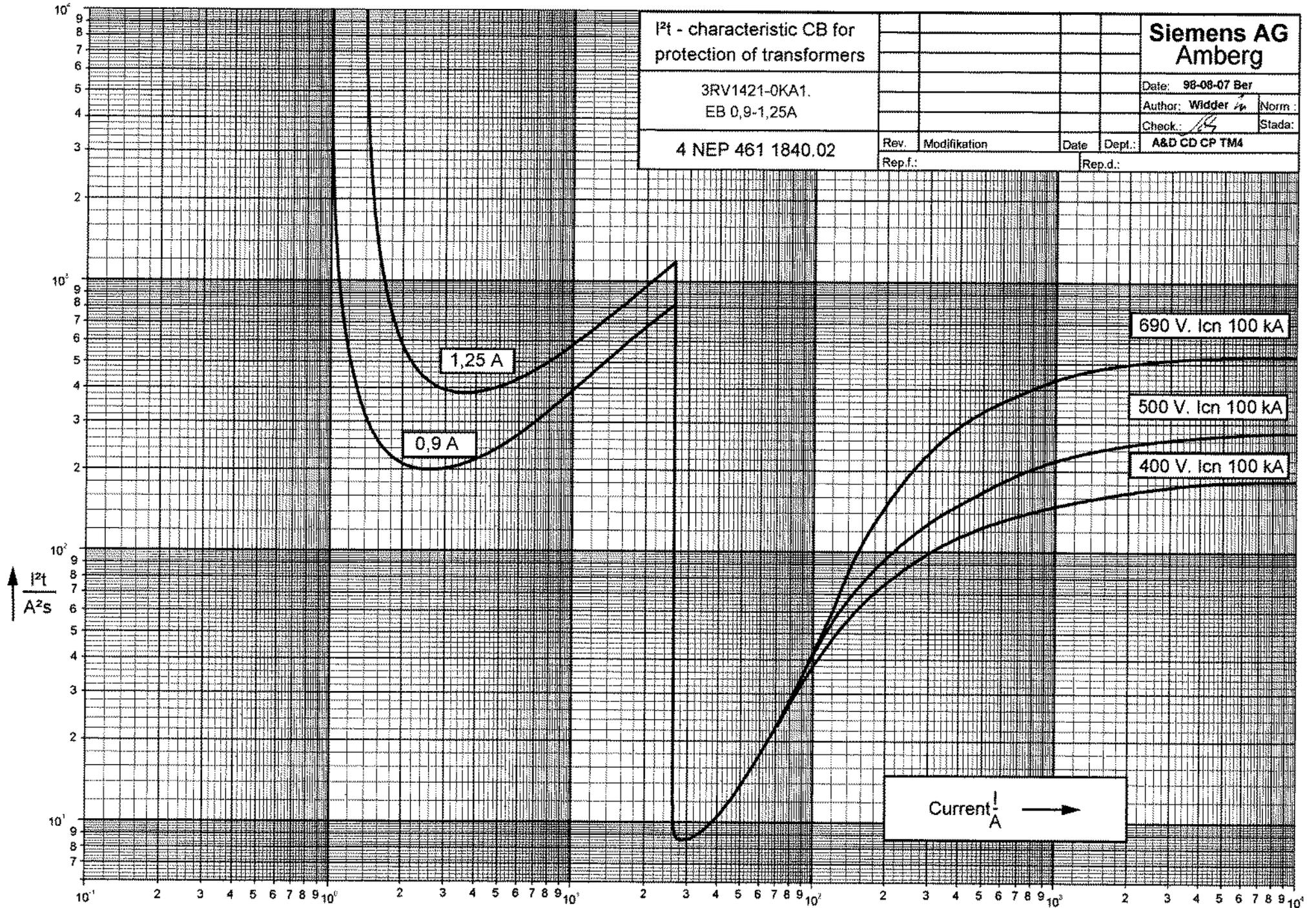
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I ² t - characteristic CB for protection of transformers		Siemens AG Amberg	
3RV1421-4BA1 EB 14-20A		Date: 98-08-07 Ber	Norm:
4 NEP 461 1852.02		Check: <i>[Signature]</i>	Stade:
Rev.	Modifikation	Date	Dept.: A&D ED CP TMA
Rep.f.:		Rep.d.:	



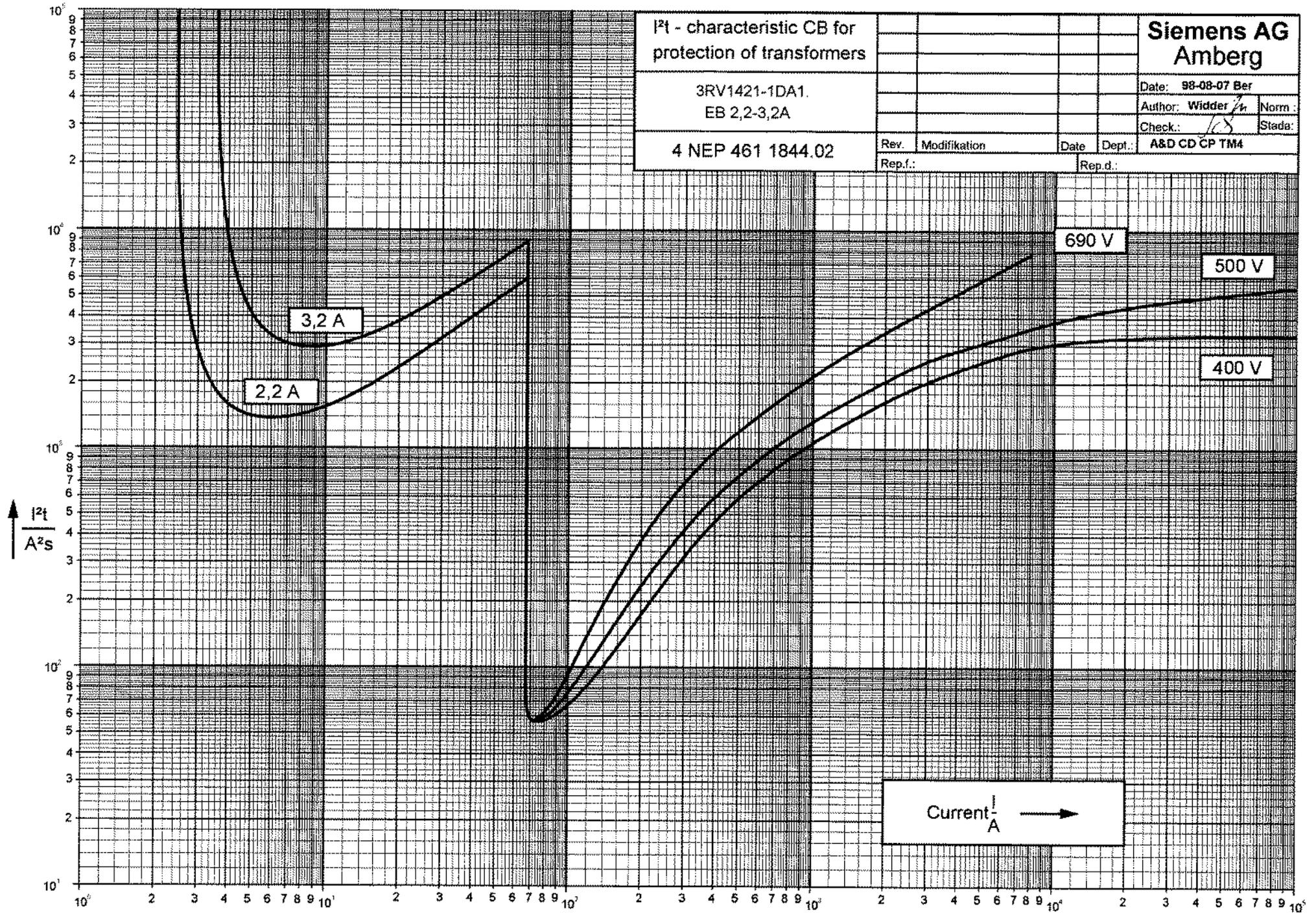
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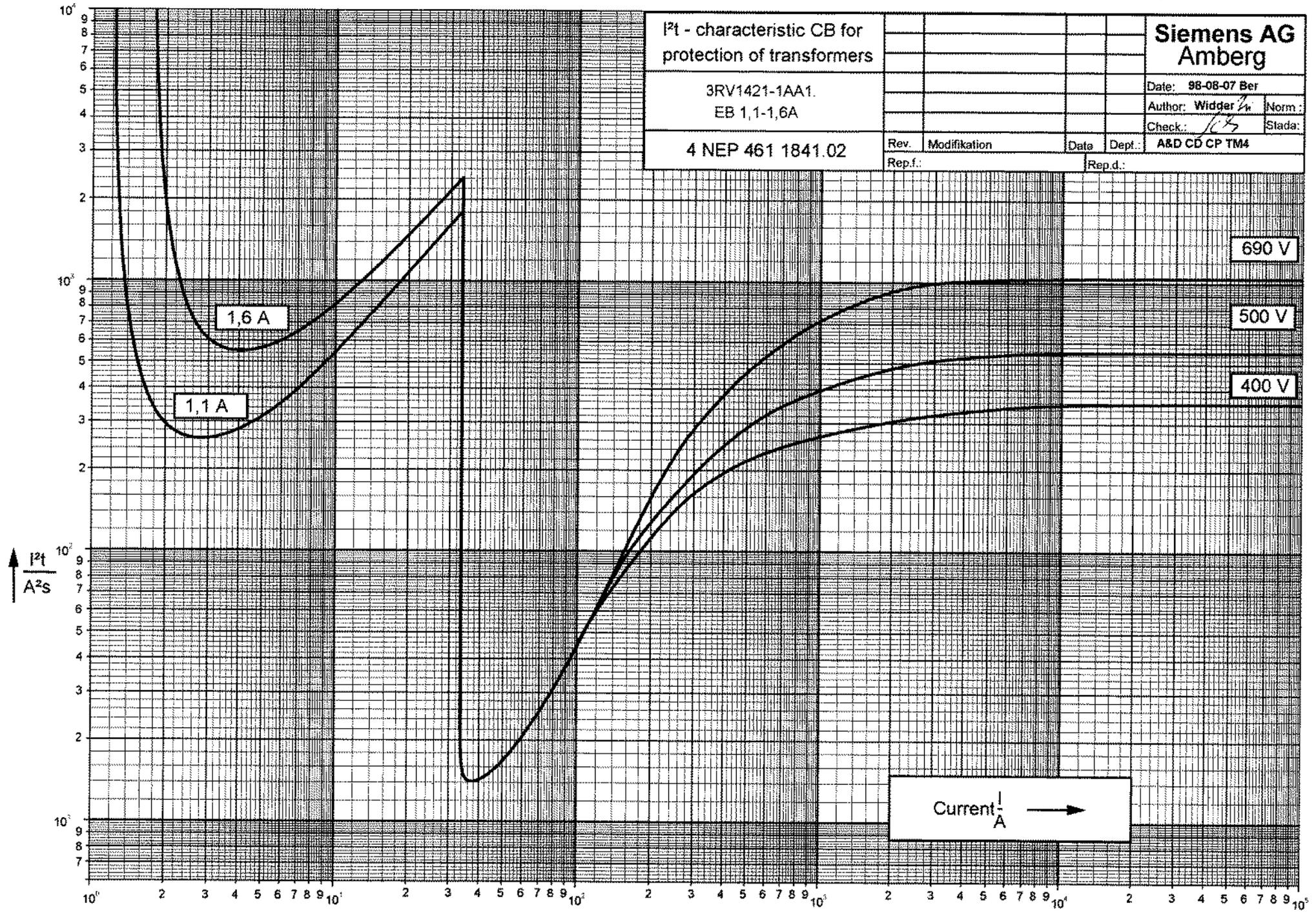
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I^2t - characteristic CB for protection of transformers

3RV1421-1HA1.
EB 5,5-8,0A

4 NEP 461 1848.02

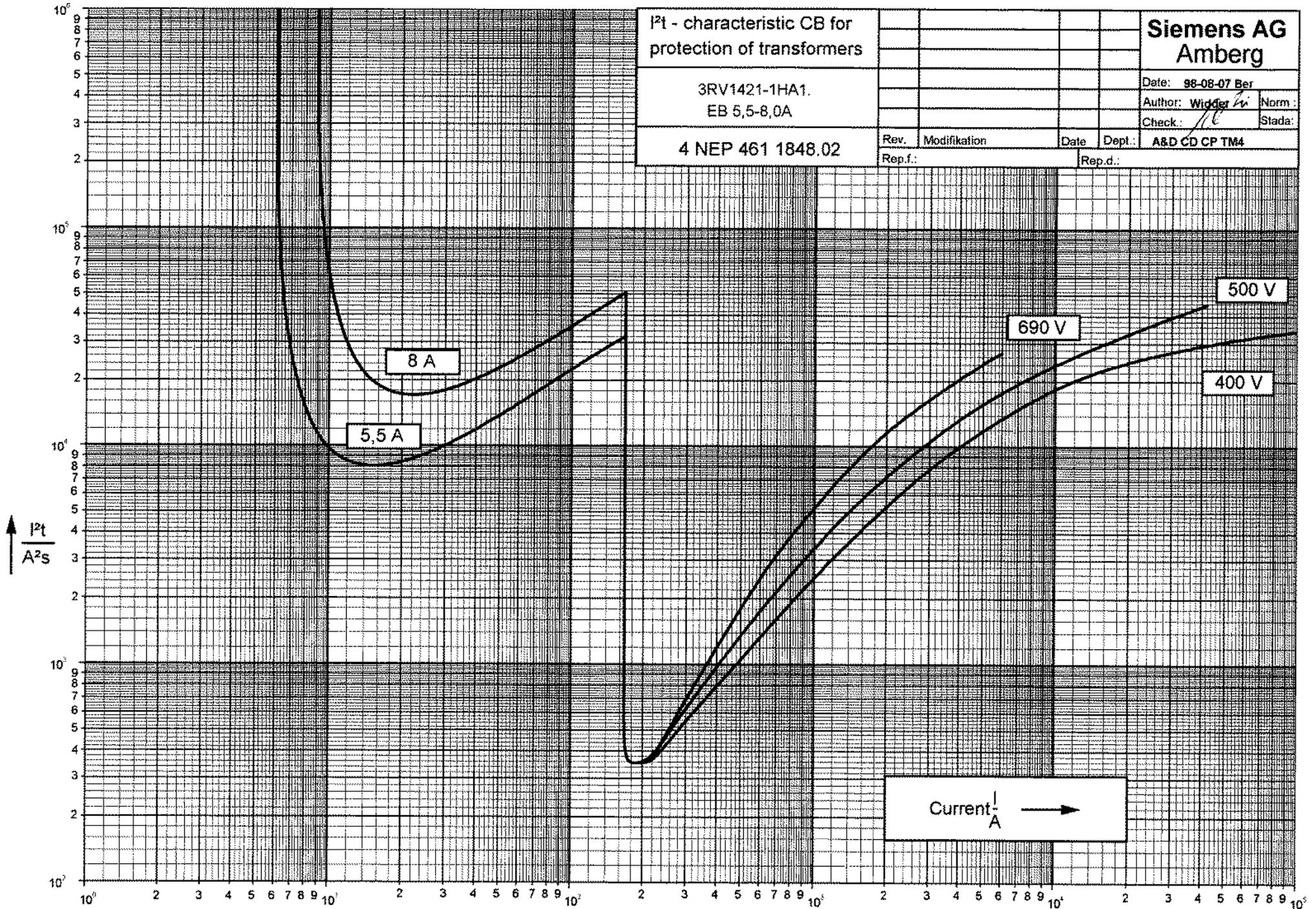
Siemens AG
Amberg

Date: 98-08-07 Ber

Author: Widger *W* Norm:

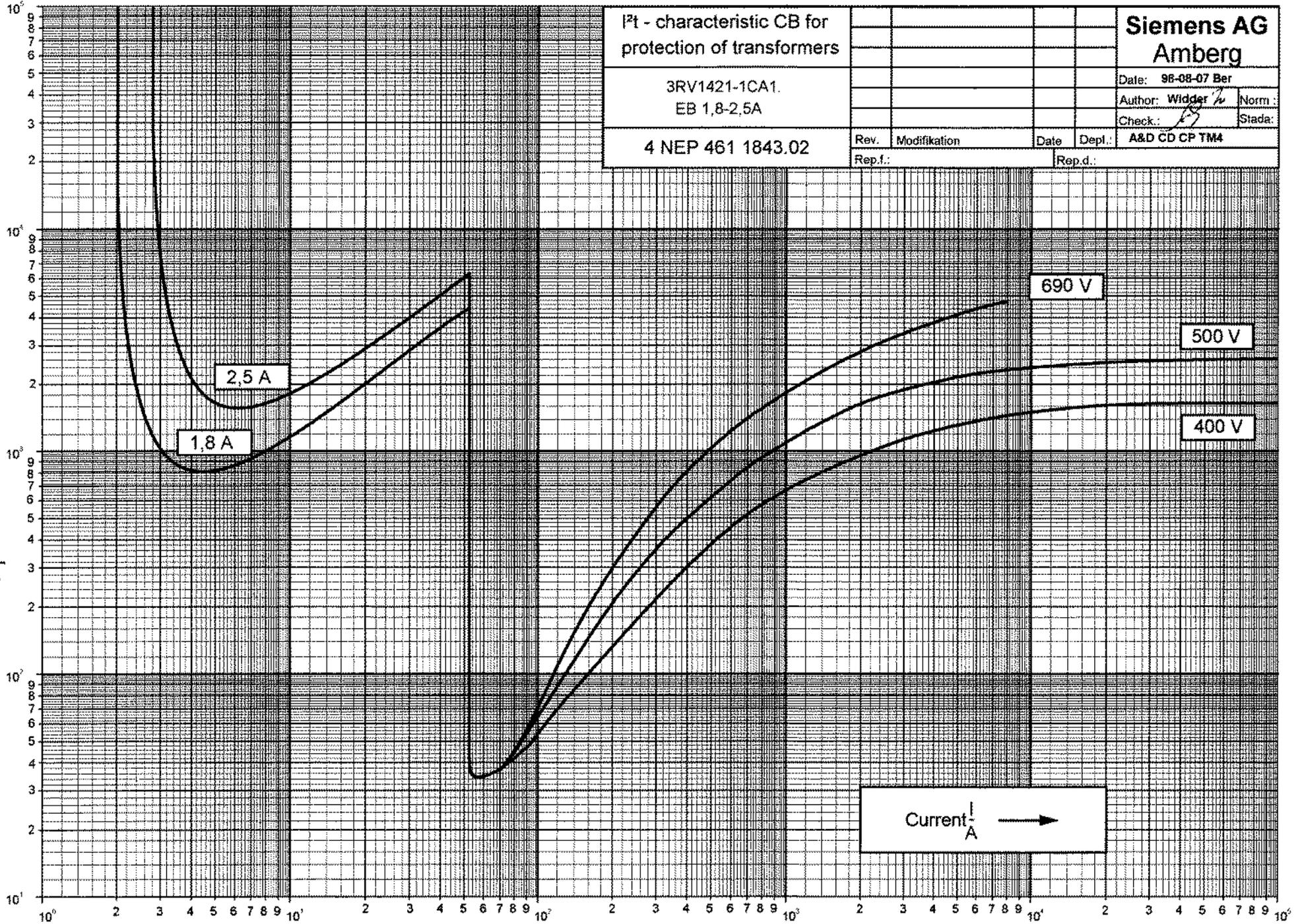
Check: *W* Stada:

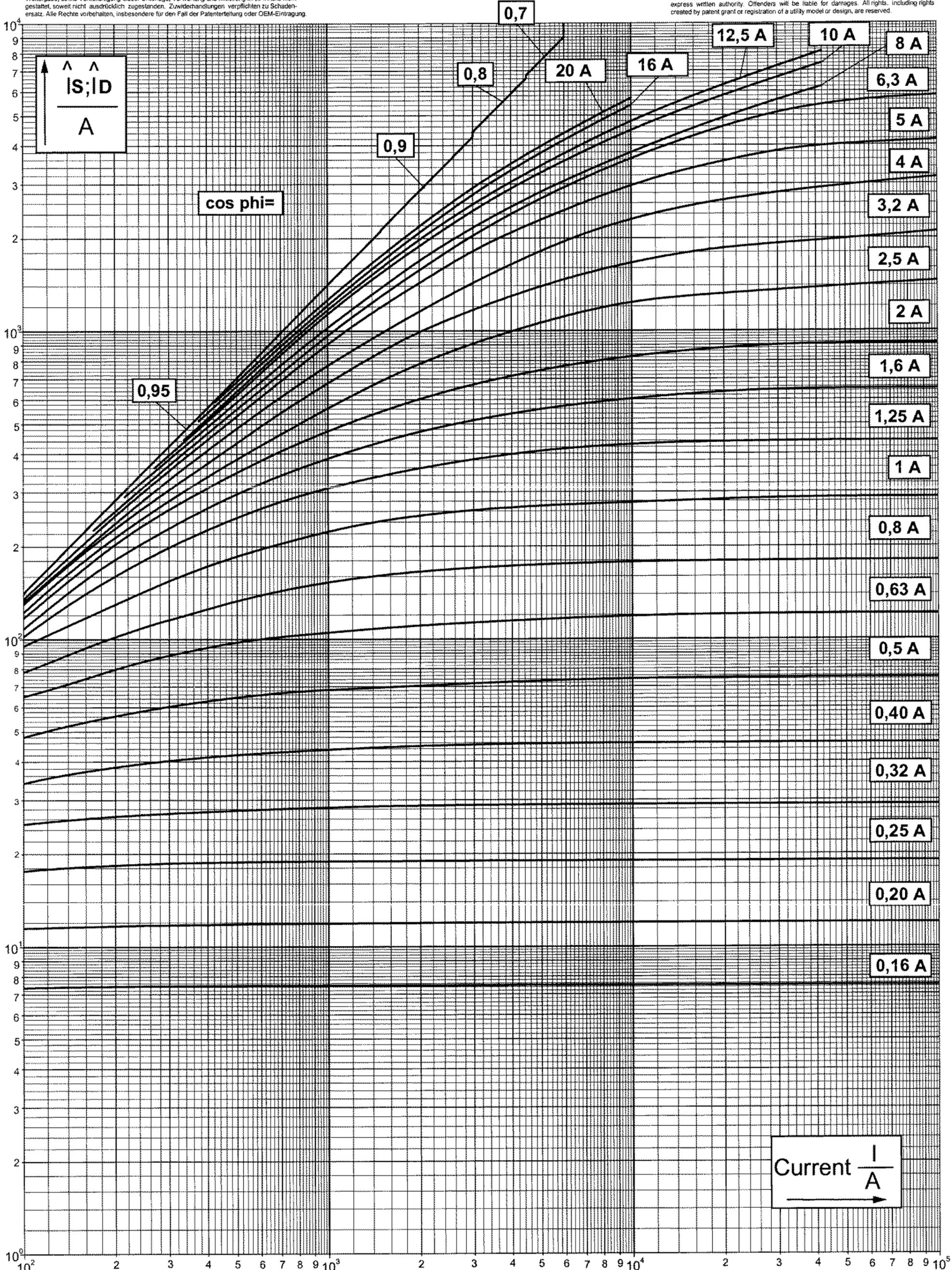
Rev.	Modifikation	Date	Dept.	A&D CD CP TM4
Rep.f.:		Rep.d.:		



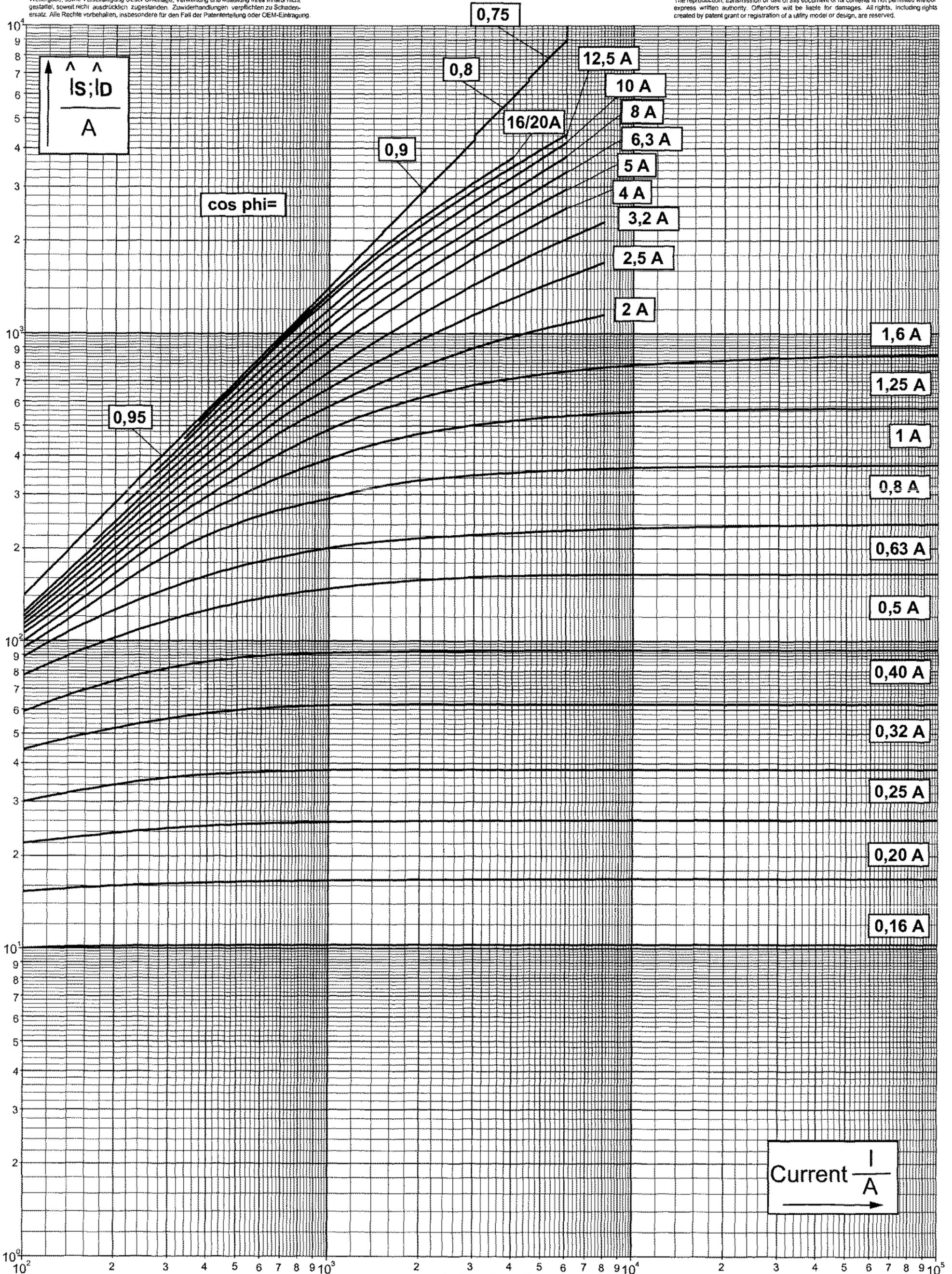
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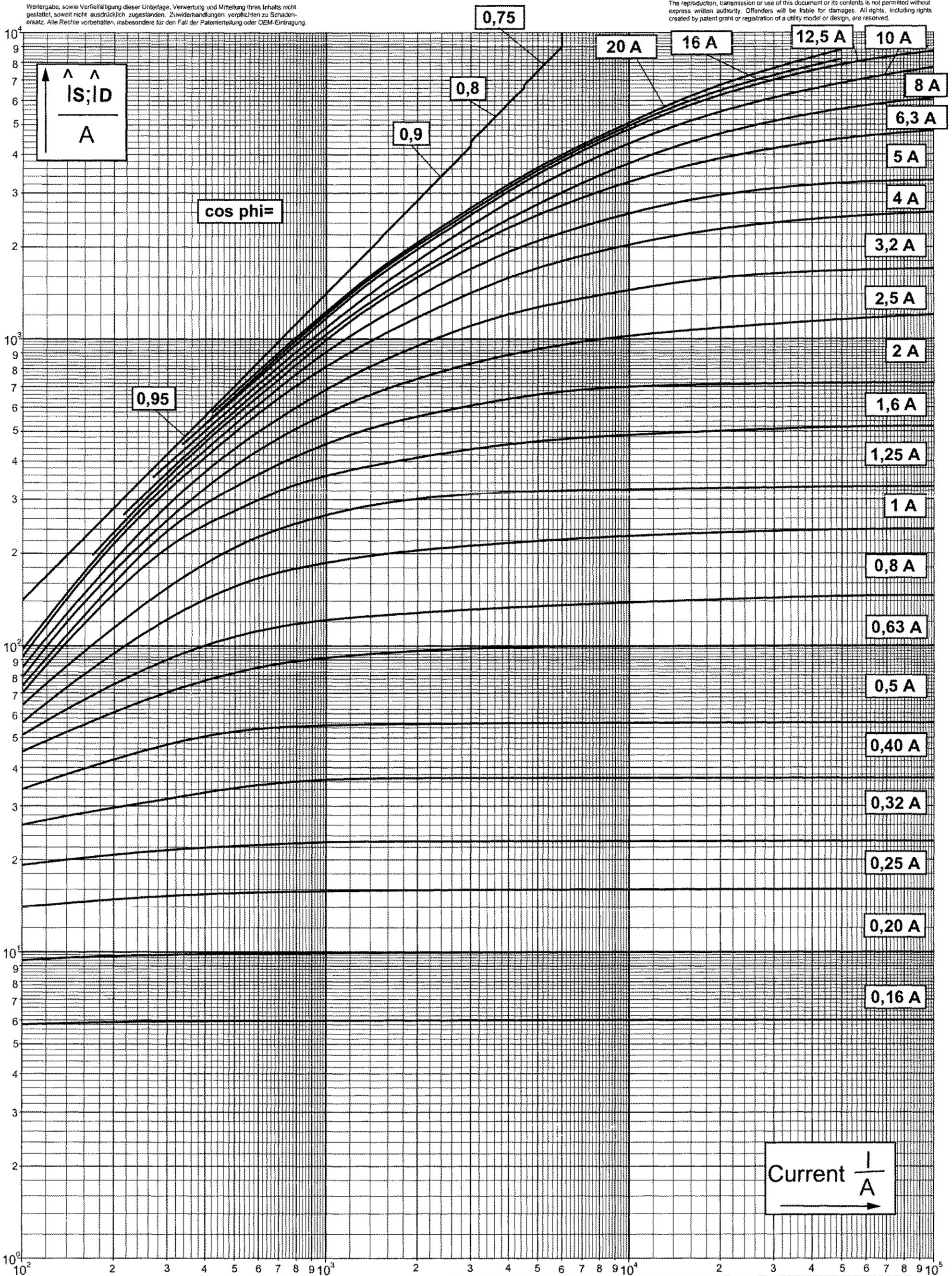




Current limiting characteristics Protection of transformers				Siemens AG Amberg	
Circuitbreaker 3RV1421 Ue=500V~;Iu/Ie=0,11...20A		Date:	01-10-26	Glaser	
3 NEP 461 1859.02		Author:	Wlöder	Norm:	
		Check:		Stada:	
Rev.	Modifikation	Date	Dept.	A&D CD CP TM4	
Rep.f.:			Rep.d.:		



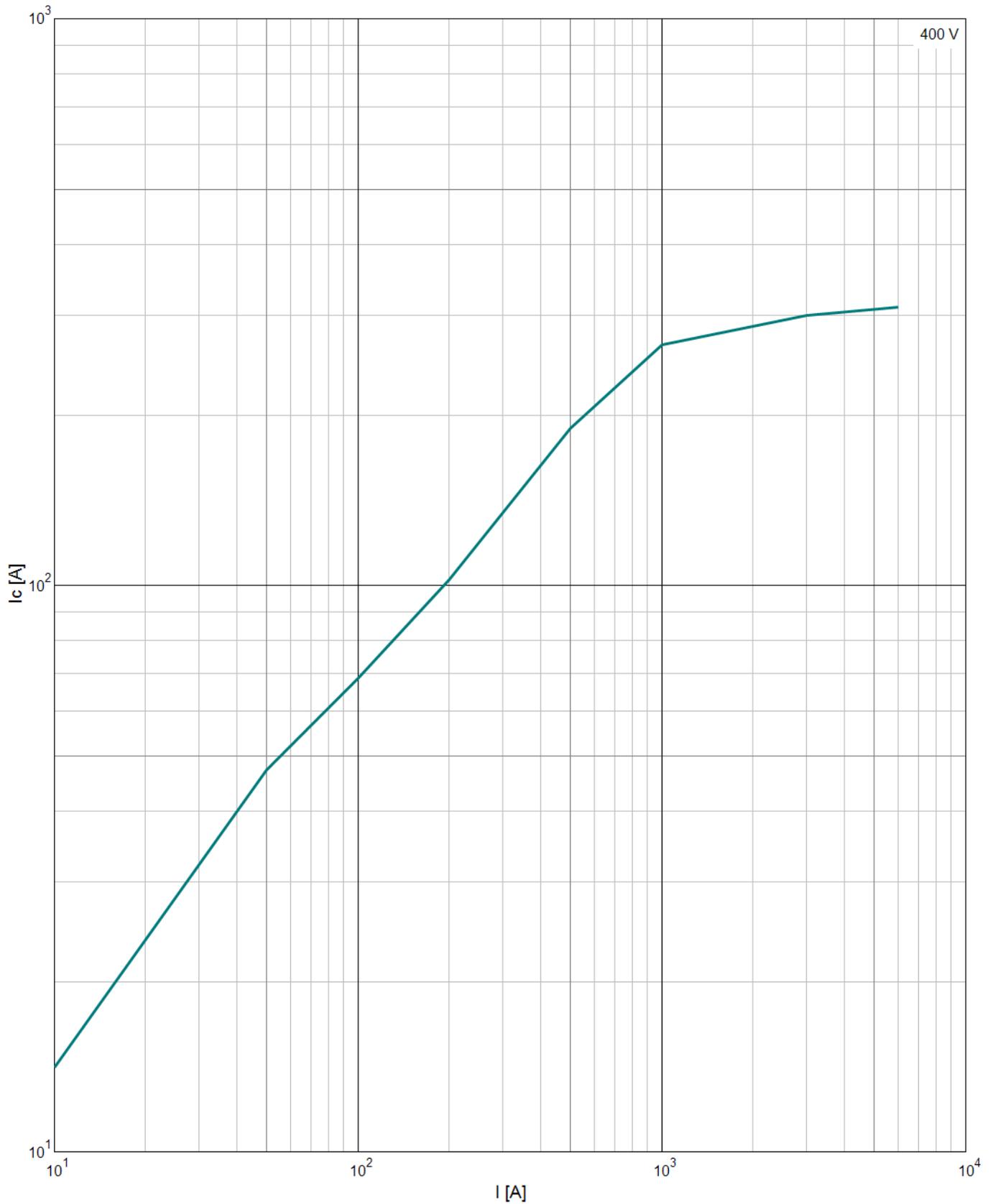
Current limiting characteristics Protection of transformers				Siemens AG Amberg	
Circuitbreaker 3RV1421 Ue=690V~; Iu/Ie=0,11...20A				Date: 01-10-26 Glaser	Norm:
3 NEP 461 1860.02				Author: Widder	Check: Stada
Rev.	Modifikation	Date	Dept.	A&D CD CP TM4	
Rep.f.		Rep.d.			



Current limiting characteristics Protection of transformers					Siemens AG Amberg
Circuitbreaker 3RV1421 U _e =400V~; I _u /I _e =0,11...20A				Date: 01-10-26 Glaser	Author: Widder
3 NEP 461 1858.02	Rev.	Modifikation	Date	Dept.	Check: Stada
	Rep. f.				Rep. d.: A&D CD CP TM4

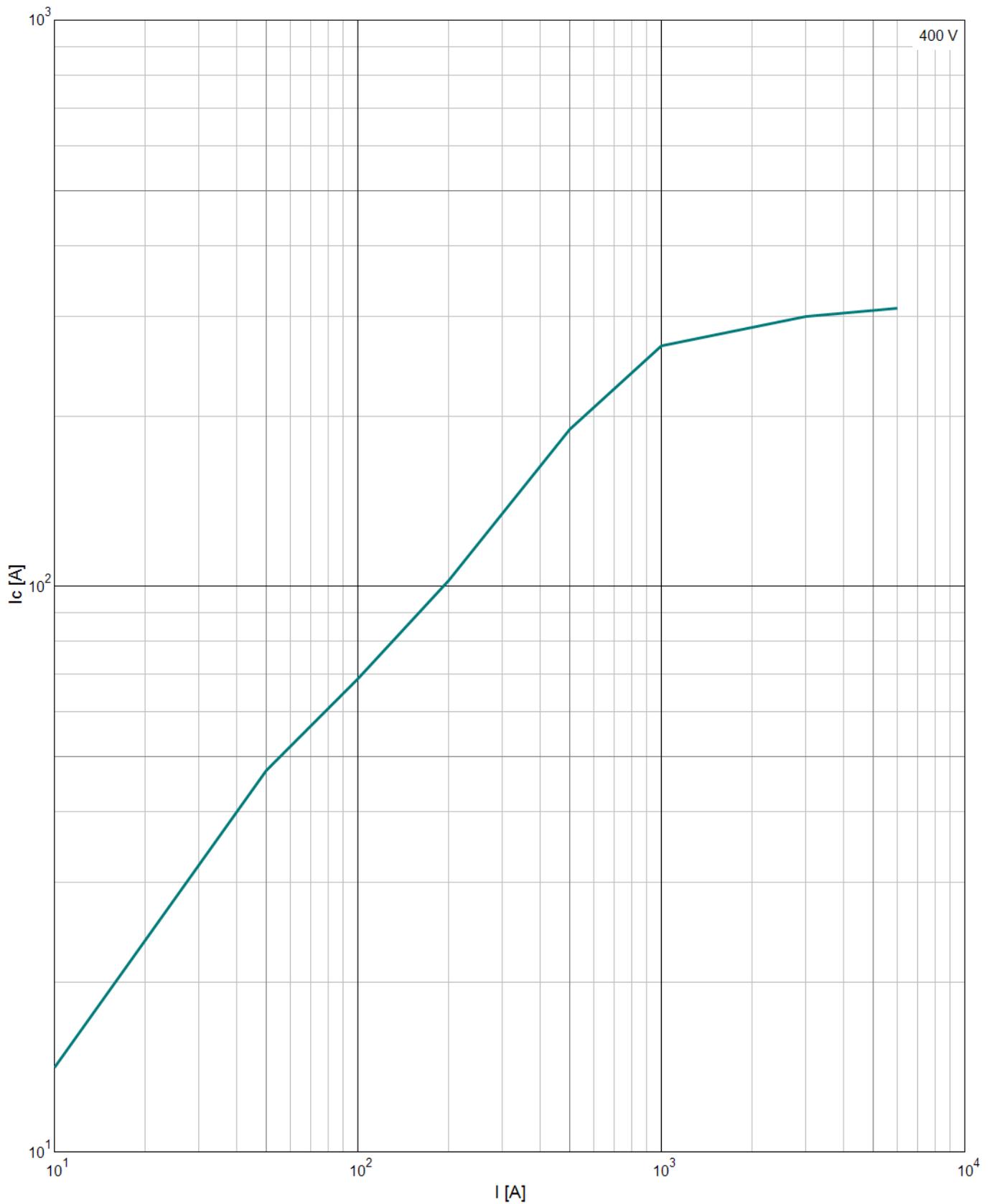
Disclaimer of liability

The content of the document has been carefully reviewed. However, the accuracy or completeness of the document can not be guaranteed. Changes are possible at any time.



Haftungsausschluss

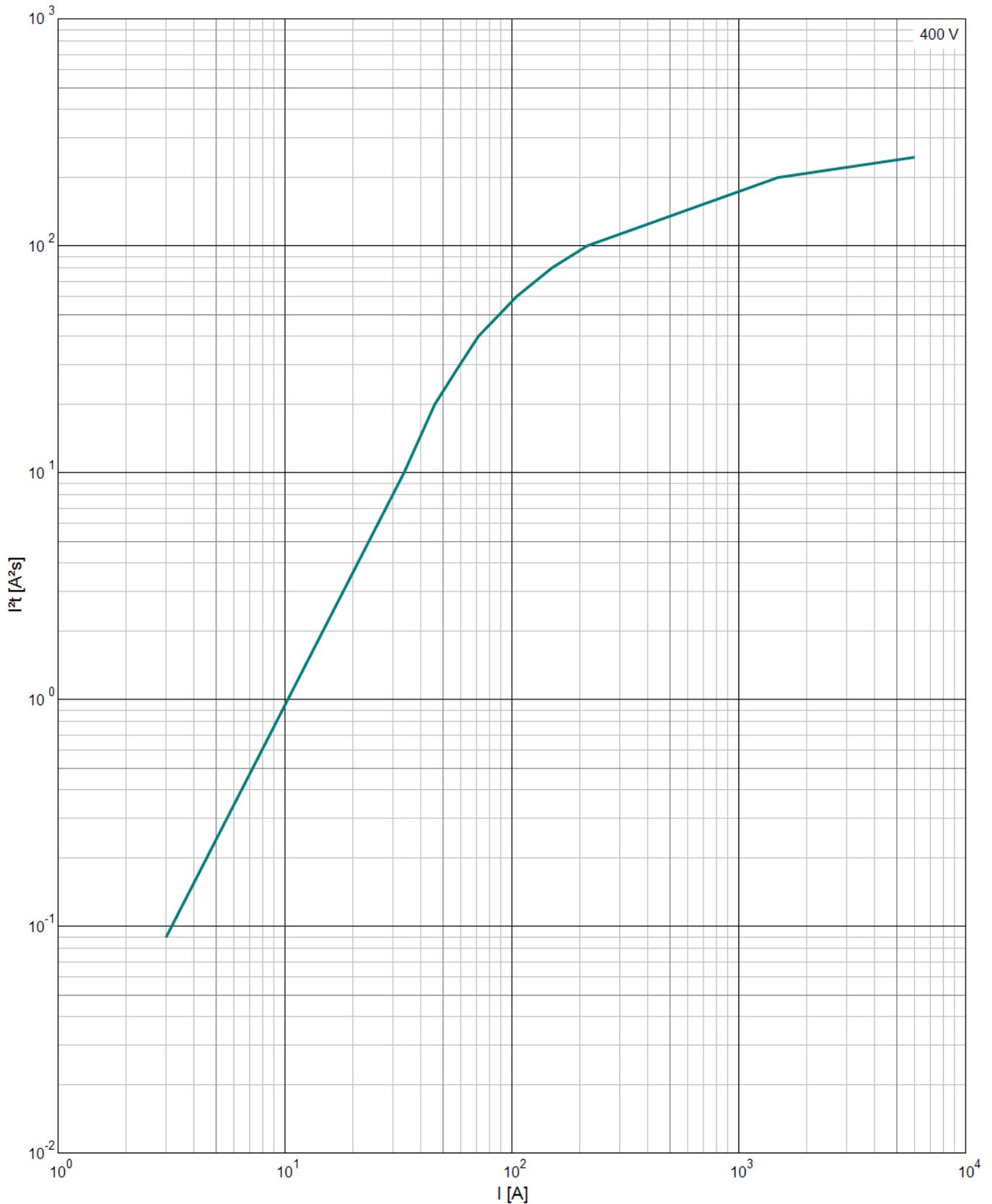
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Durchlassenergiekennlinie bei 400 V / 50 Hz

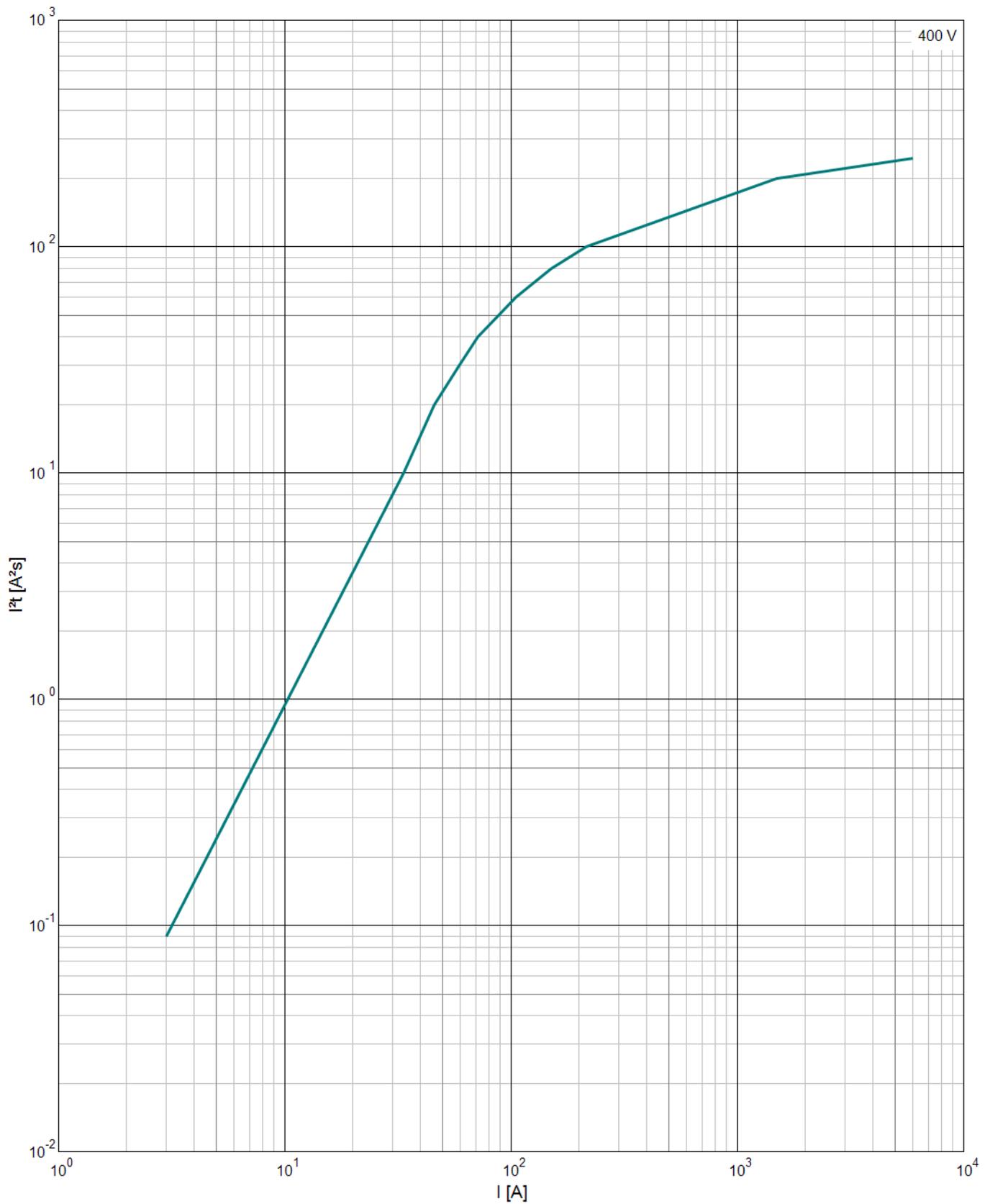
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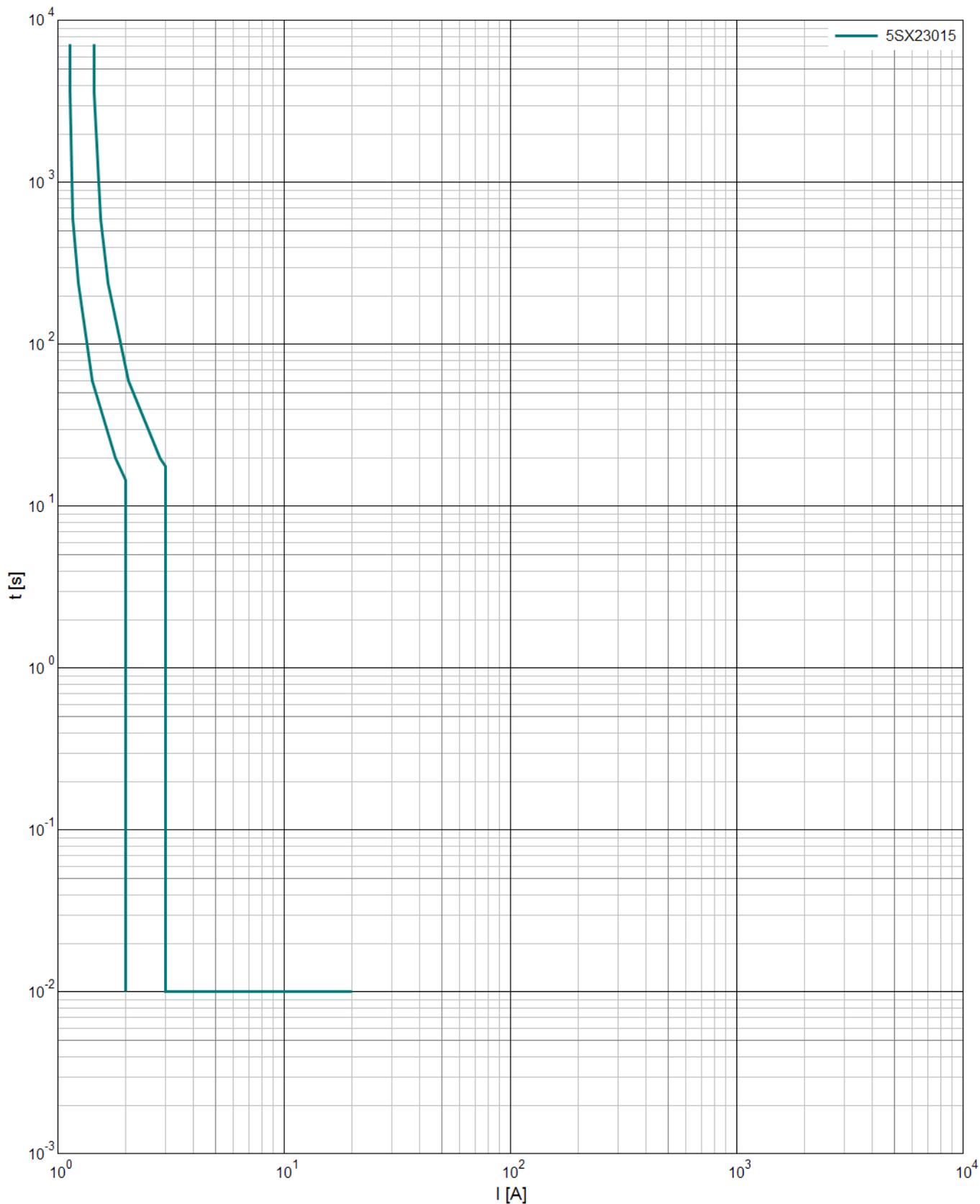
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