

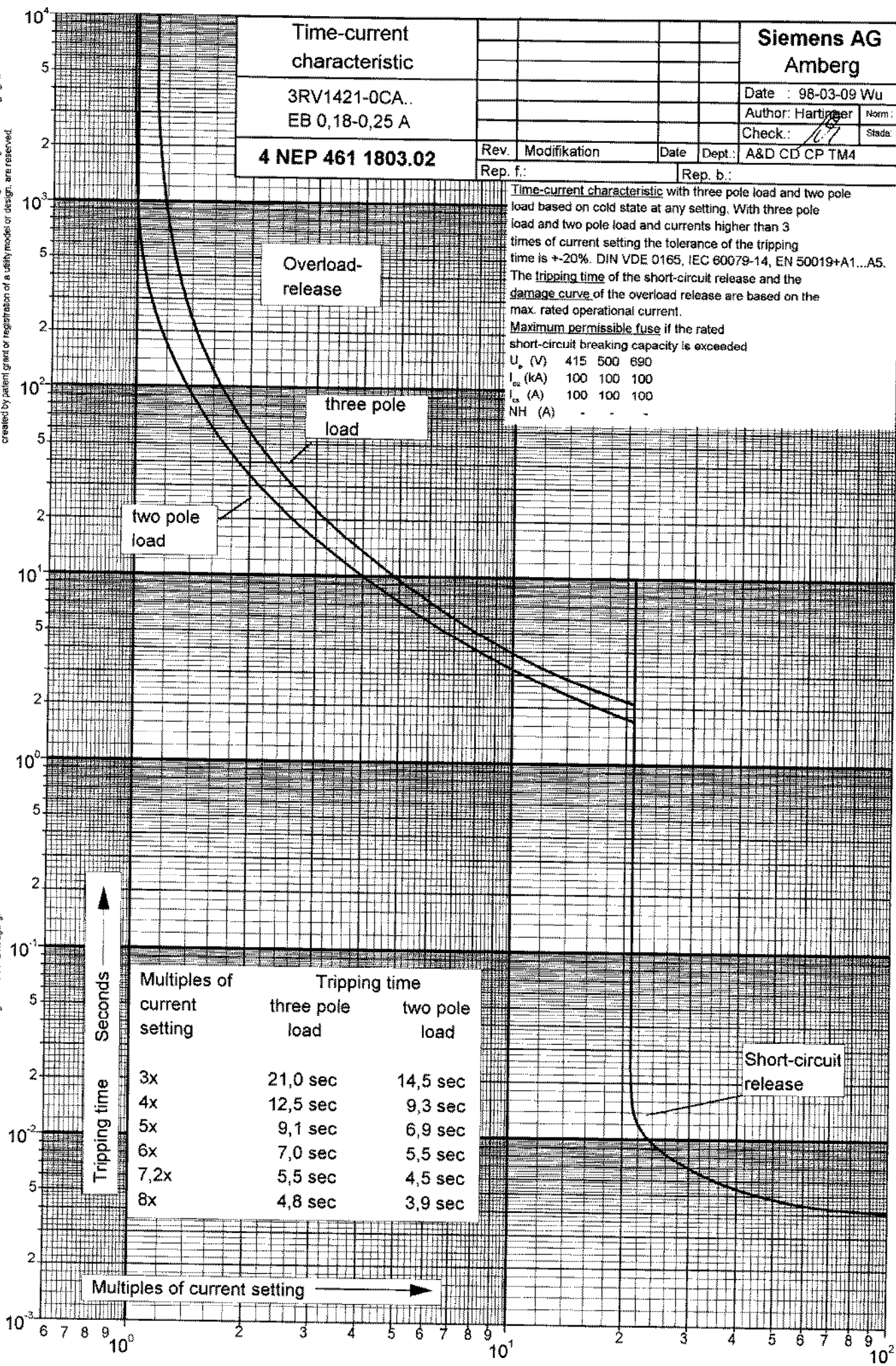
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| | | | |
|---------------------------------|--------------|----------------------|----------------------|
| Time-current characteristic | | Siemens AG Amberg | |
| 3RV1421-0CA.. EB 0,18-0,25 A | | Date : 98-03-09 Wu | Norm: |
| 4 NEP 461 1803.02 | | Author: Hartinger | Stade: |
| 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 $\pm 20\%$. 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) | - | - | - |



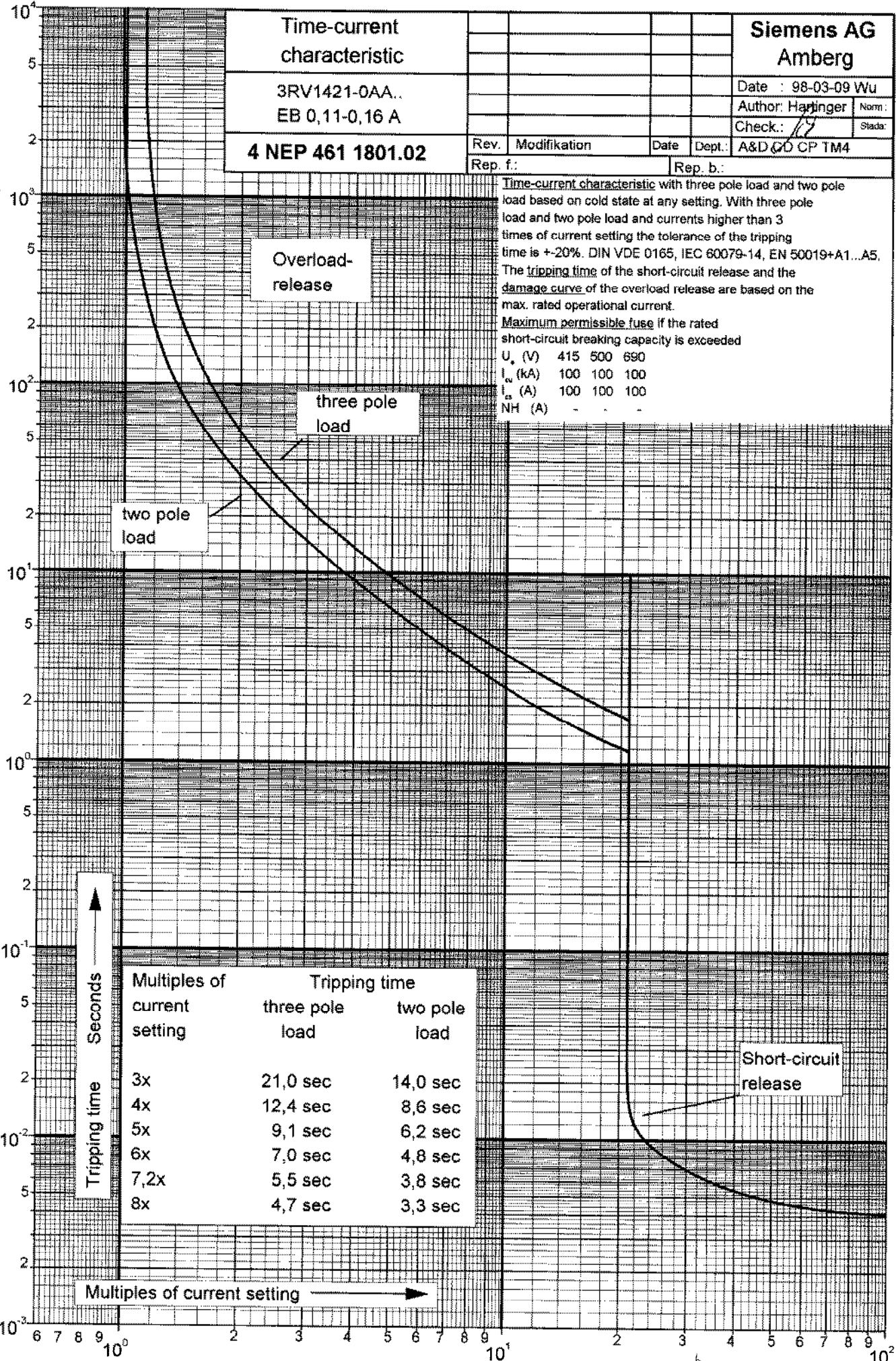
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| | | | | | | | |
|---------------------------------|--|--|--|----------------------|--|------------|--|
| Time-current characteristic | | | | Siemens AG Amberg | | | |
| 3RV1421-0AA.. EB 0,11-0,16 A | | | | Date : 98-03-09 Wu | | | |
| 4 NEP 461 1801.02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

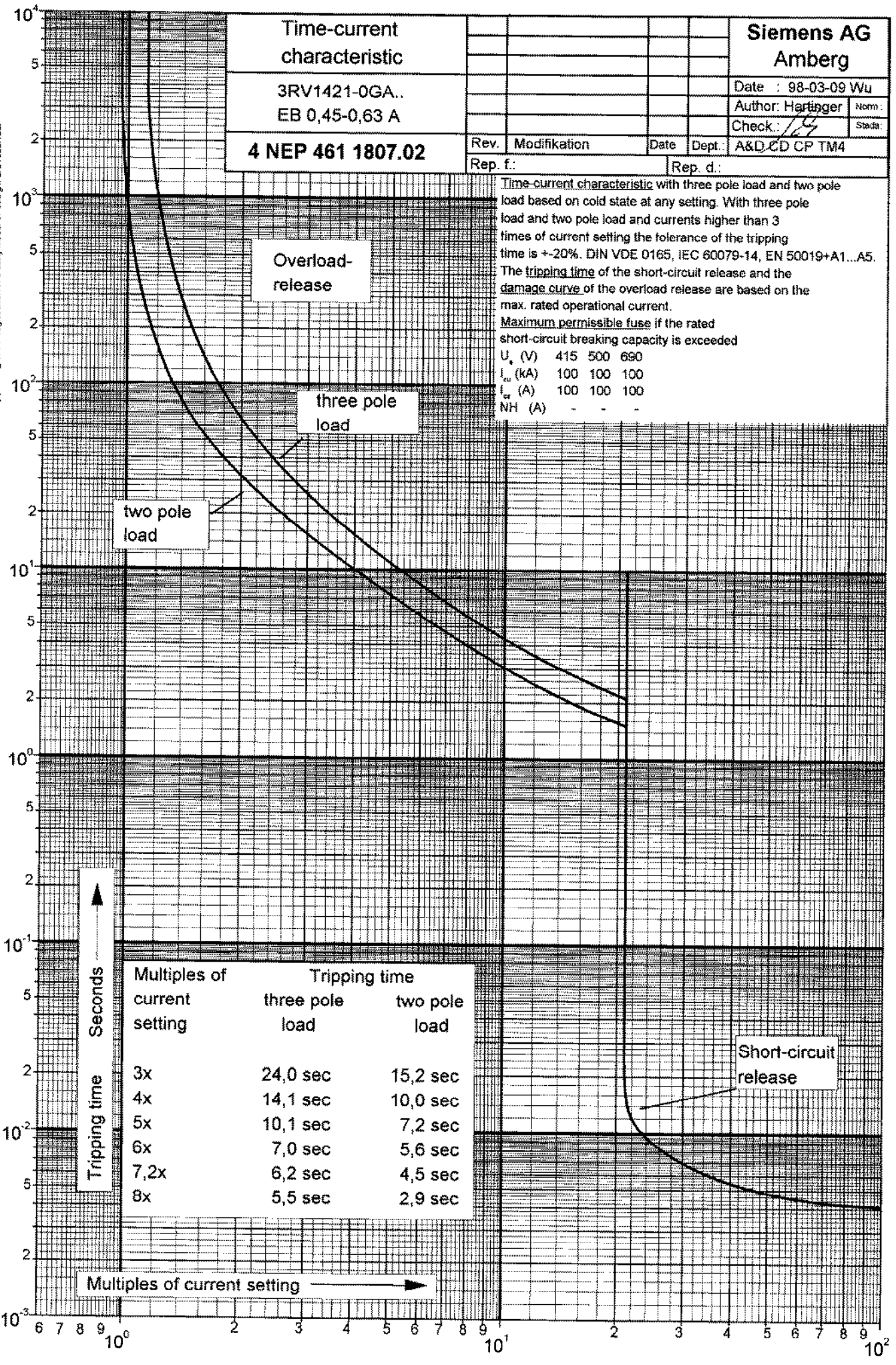
Short-circuit release

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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. 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 +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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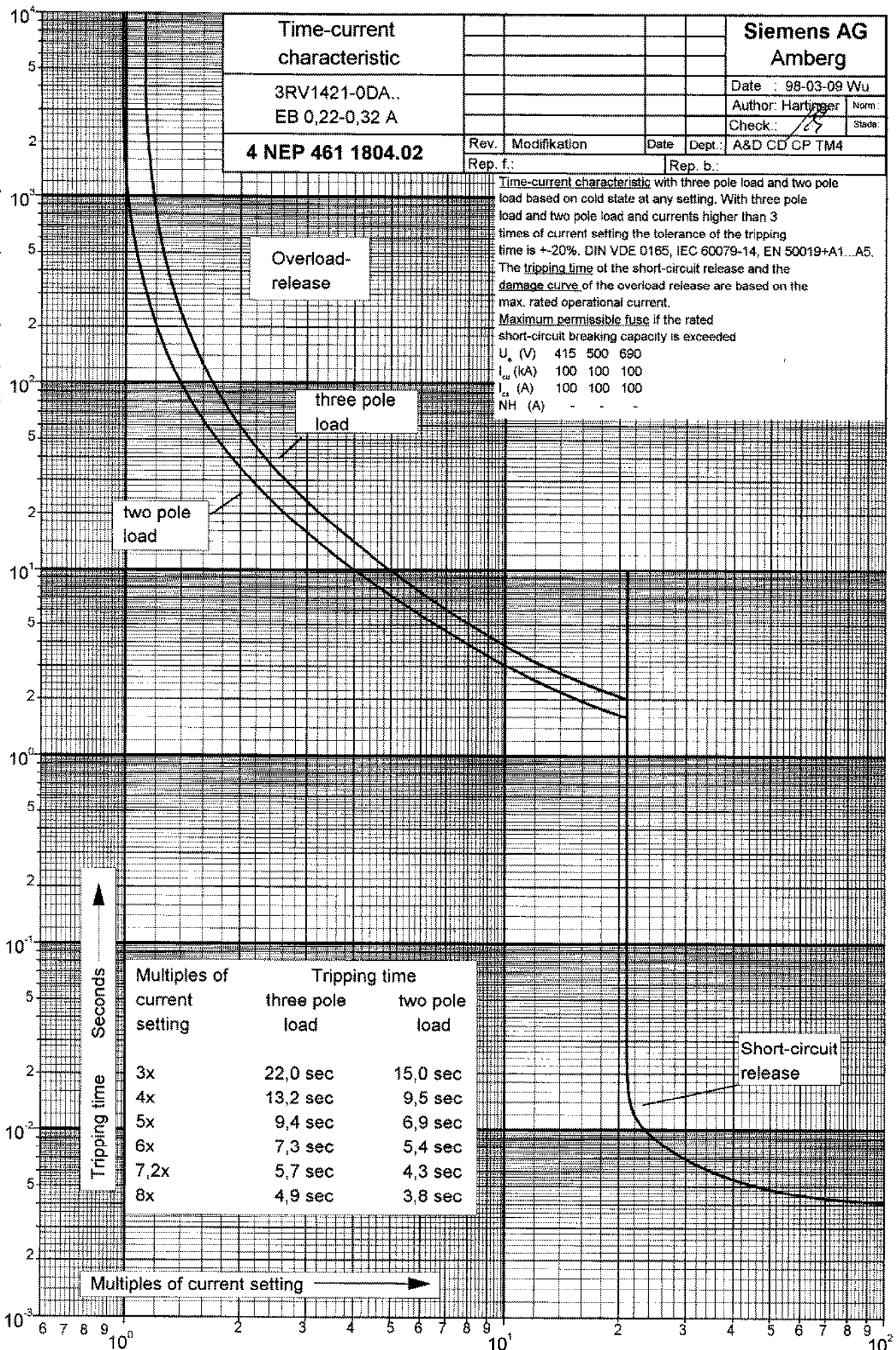
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| | | | |
|---------------------------------|--|-----------------------------------|---|
| Time-current characteristic | | Siemens AG Amberg | |
| 3RV1421-0DA.. EB 0,22-0,32 A | | Date : 98-03-09 Wu | Author: Hartinger Norm: |
| 4 NEP 461 1804.02 | | Check.: <i>[Signature]</i> 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 |

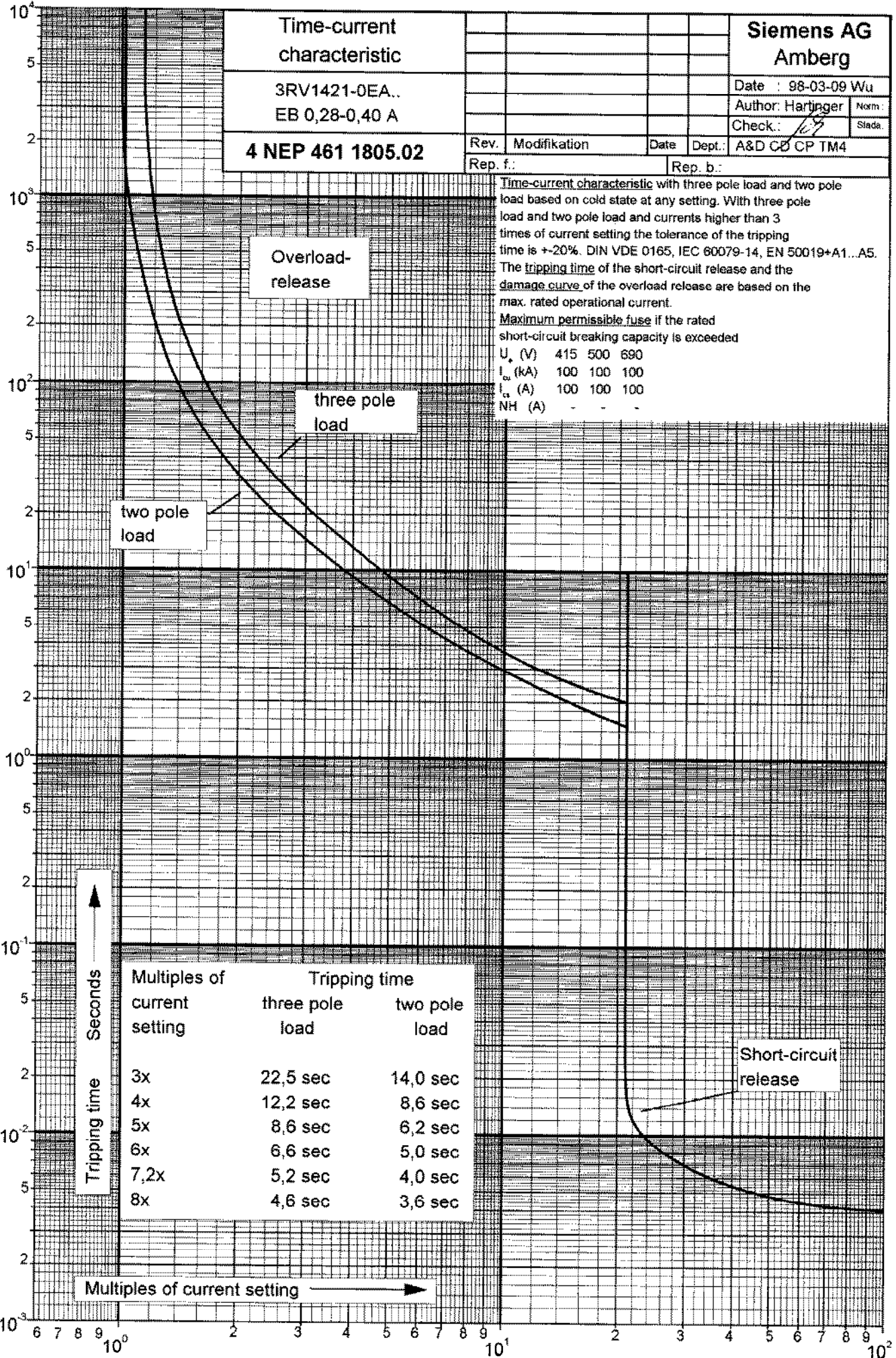
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| | | | |
|---------------------------------|--------------|---------------------------|----------------------|
| Time-current characteristic | | Siemens AG Amberg | |
| 3RV1421-0EA.. EB 0,28-0,40 A | | Date : 98-03-09 Wu | Author: Hartinger |
| 4 NEP 461 1805.02 | | Check: <i>[Signature]</i> | Stada. |
| 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 +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) | - | - | - |

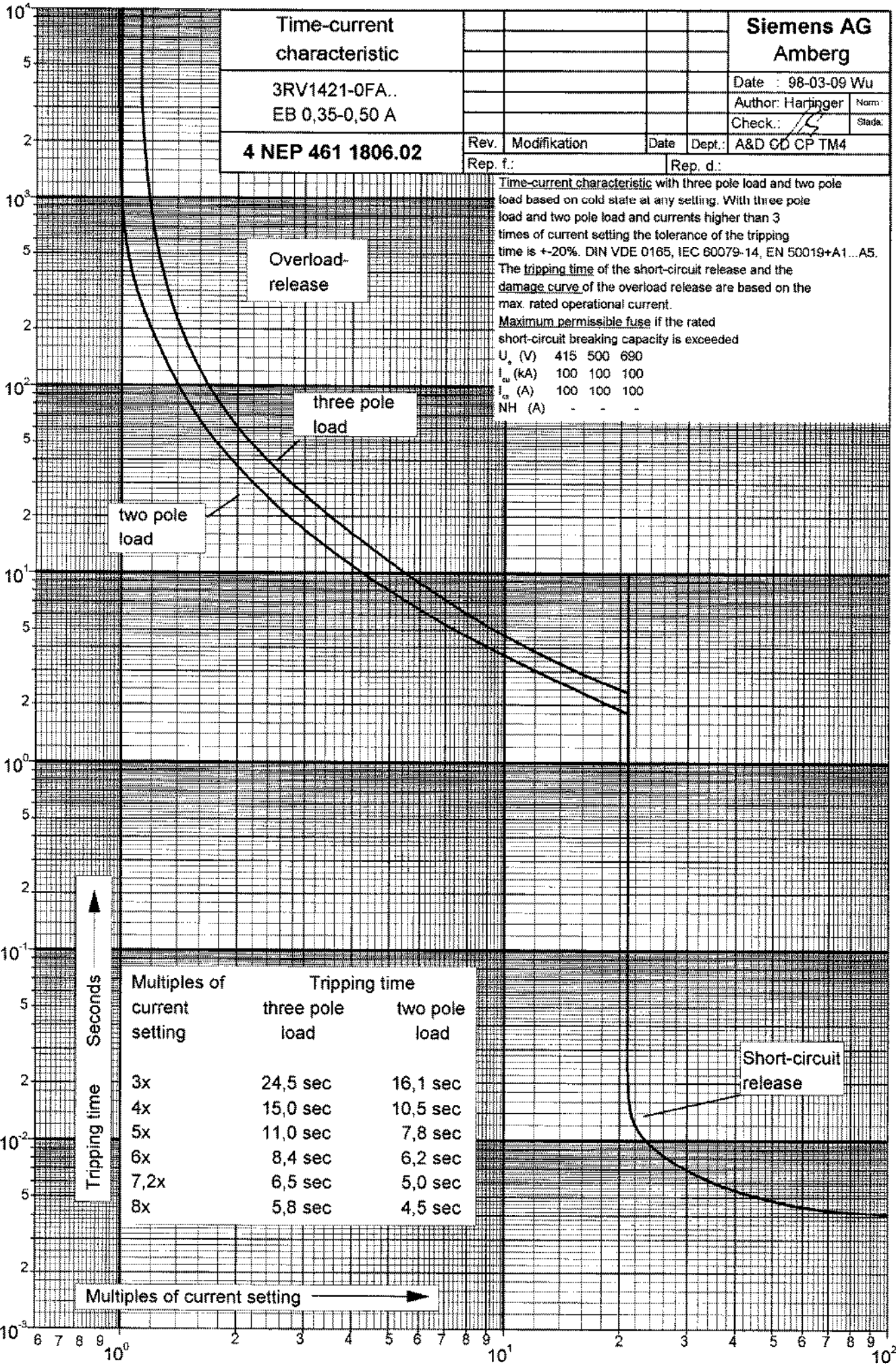


| Multiples of current setting | Tripping time | |
|------------------------------|-----------------|---------------|
| | three pole load | two pole load |
| 3x | 22,5 sec | 14,0 sec |
| 4x | 12,2 sec | 8,6 sec |
| 5x | 8,6 sec | 6,2 sec |
| 6x | 6,6 sec | 5,0 sec |
| 7,2x | 5,2 sec | 4,0 sec |
| 8x | 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 $\pm 20\%$. 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_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 |

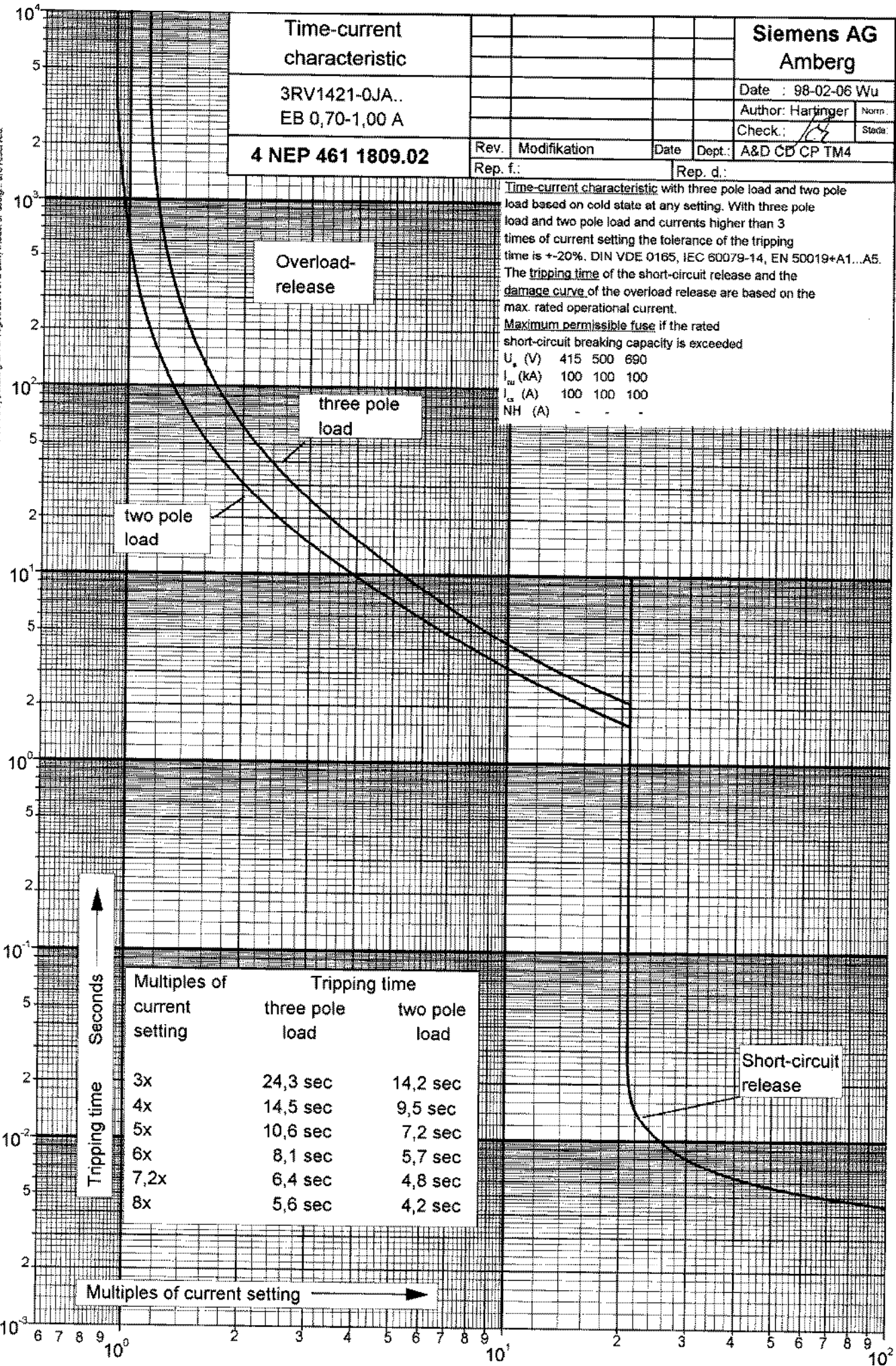
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| | | | |
|---------------------------------|--------------|---------------------------|----------------------|
| Time-current characteristic | | Siemens AG Amberg | |
| 3RV1421-0JA.. EB 0,70-1,00 A | | Date : 98-02-06 Wu | Norm: |
| 4 NEP 461 1809.02 | | 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_{ca} (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 |

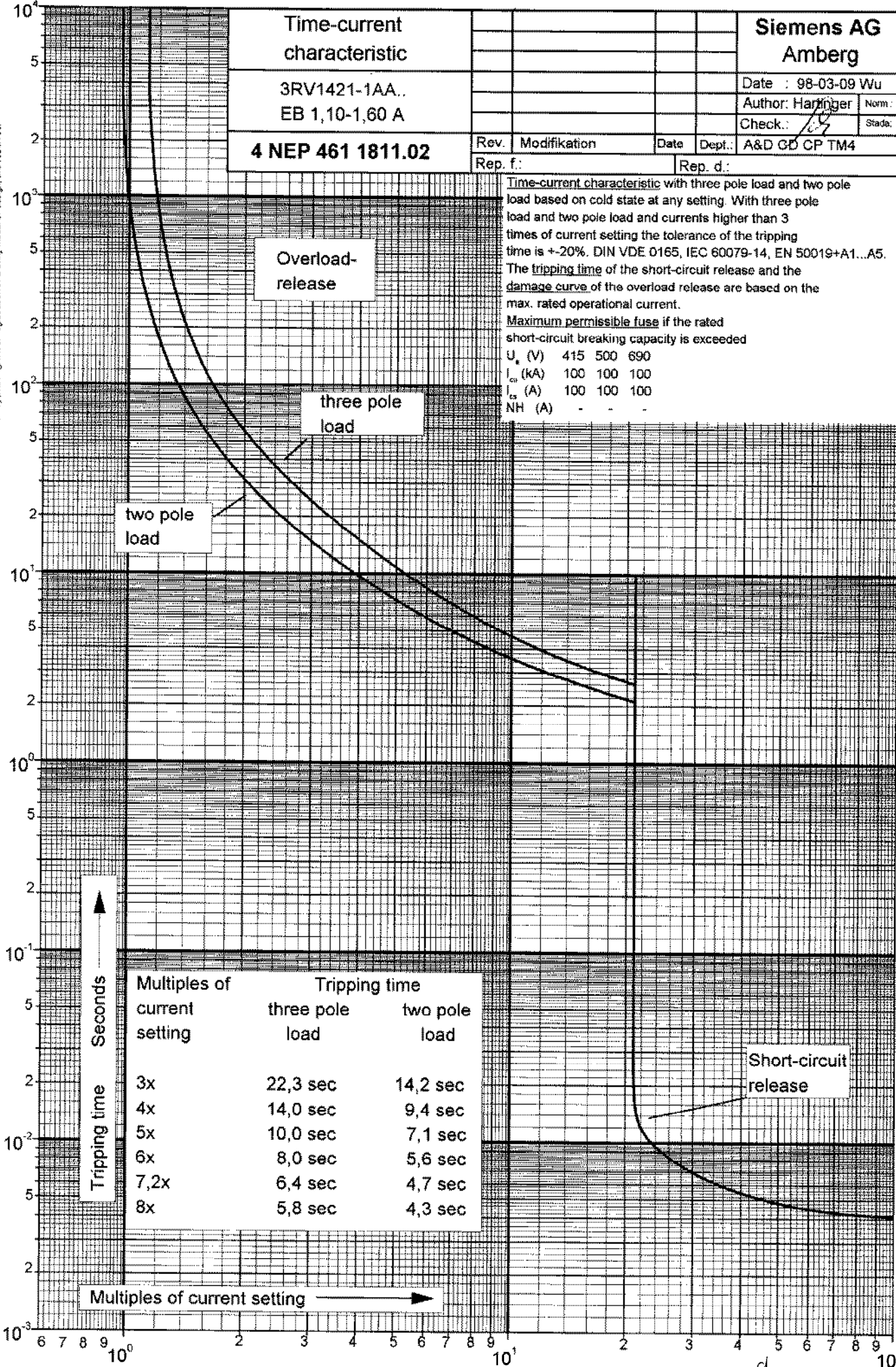
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| | | | |
|---------------------------------|--------------|----------------------|-------------------------|
| Time-current characteristic | | Siemens AG Amberg | |
| 3RV1421-1AA.. EB 1,10-1,60 A | | Date : 98-03-09 Wu | Author: Harzinger Norm: |
| 4 NEP 461 1811.02 | | Check.: [Signature] | Stada: |
| 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) | - | - | - |

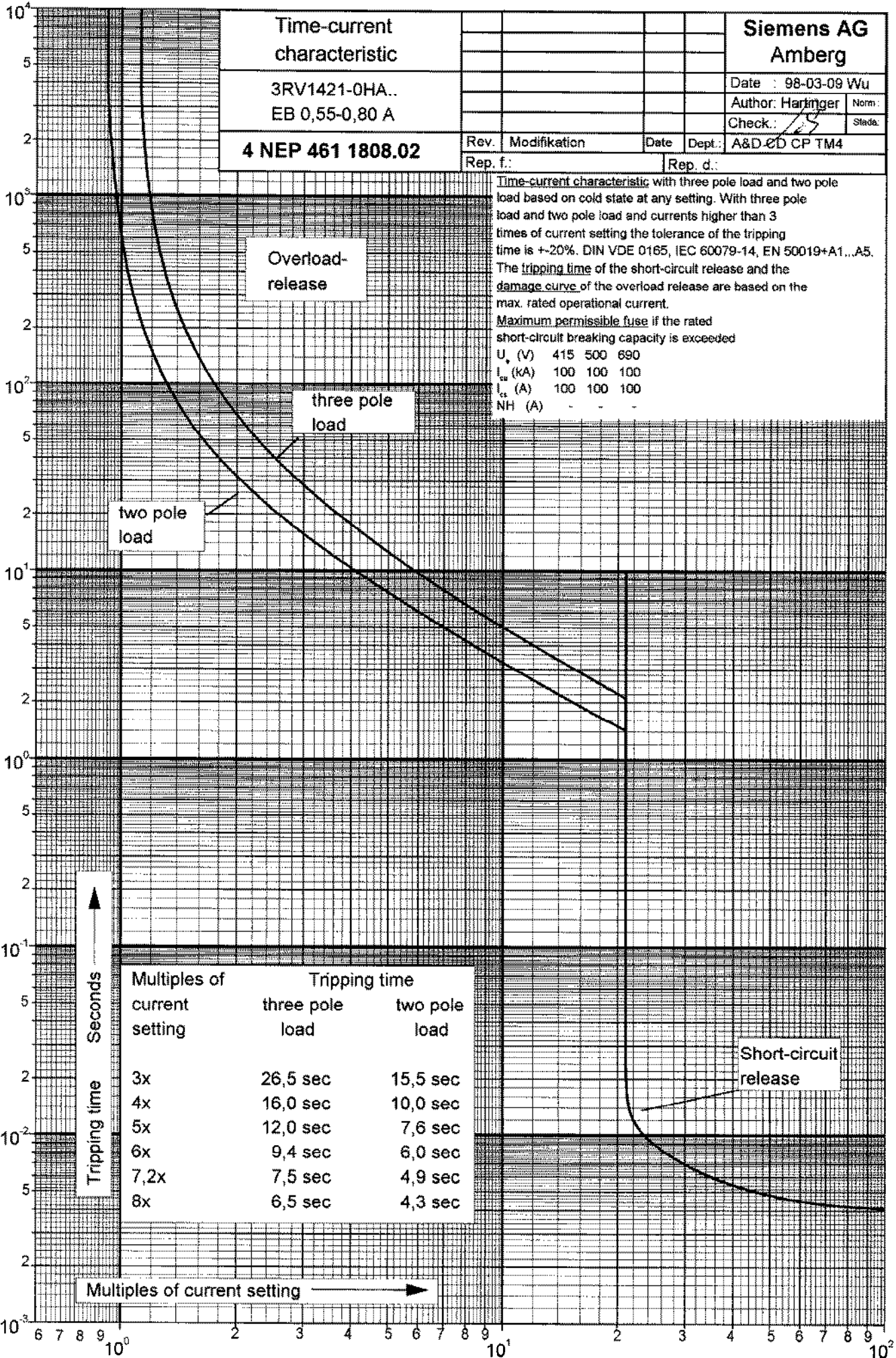


| Multiples of current setting | Tripping time | |
|------------------------------|-----------------|---------------|
| | three pole load | two pole load |
| 3x | 22,3 sec | 14,2 sec |
| 4x | 14,0 sec | 9,4 sec |
| 5x | 10,0 sec | 7,1 sec |
| 6x | 8,0 sec | 5,6 sec |
| 7,2x | 6,4 sec | 4,7 sec |
| 8x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

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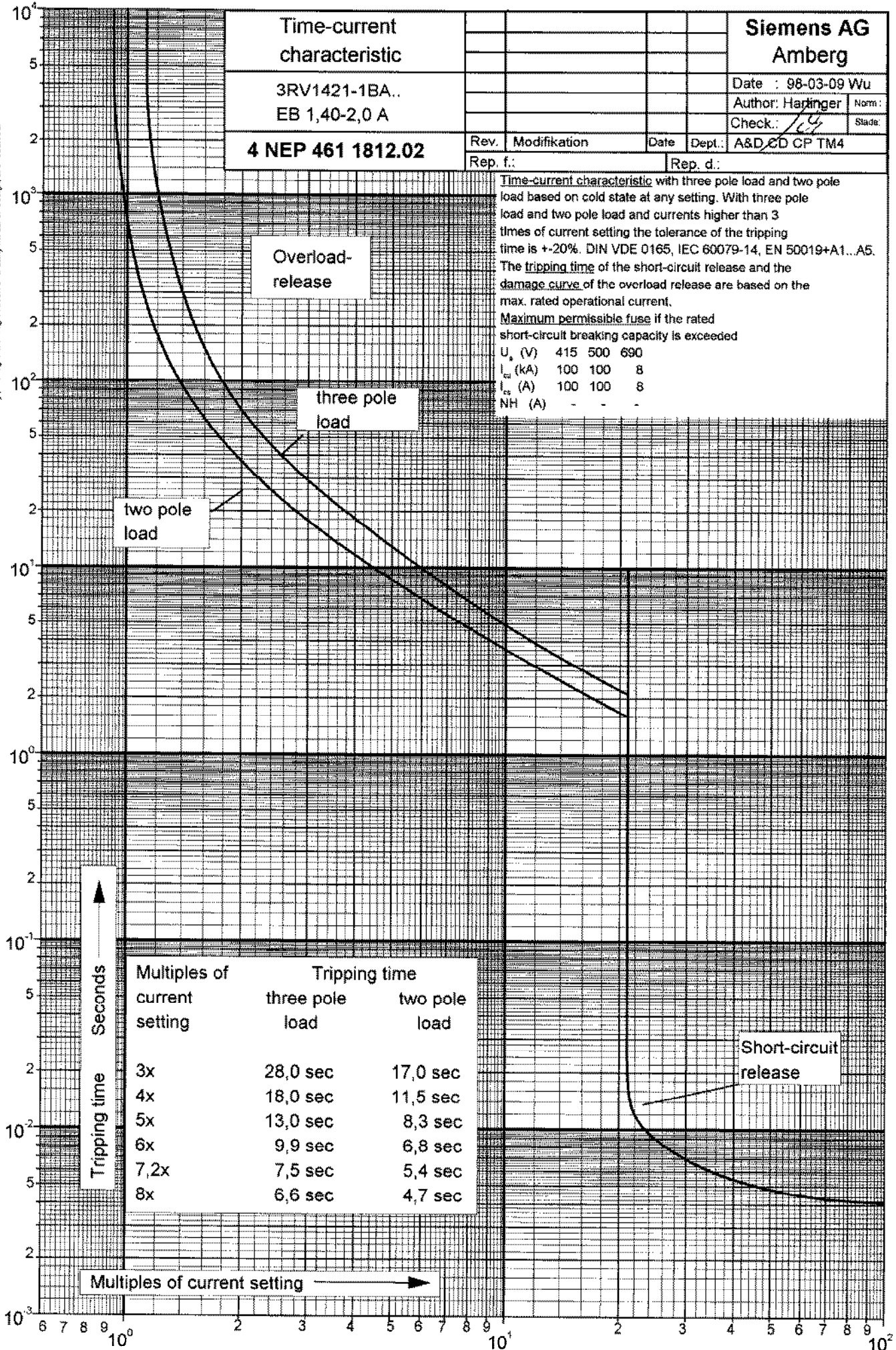


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| | | | | | | | |
|--------------------------------|--|--|--|----------------------|--------------|------|-------|
| Time-current characteristic | | | | Siemens AG Amberg | | | |
| 3RV1421-1BA.. EB 1,40-2,0 A | | | | Date : 98-03-09 Wu | | | |
| 4 NEP 461 1812.02 | | | | Rev. | Modifikation | Date | Dept. |
| | | | | Rep. f.: | Rep. d.: | | |
| | | | | A&D ED 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 _n (V) | 415 | 500 | 690 |
| I _{cs} (kA) | 100 | 100 | 8 |
| I _{cs} (A) | 100 | 100 | 8 |
| NH (A) | - | - | - |

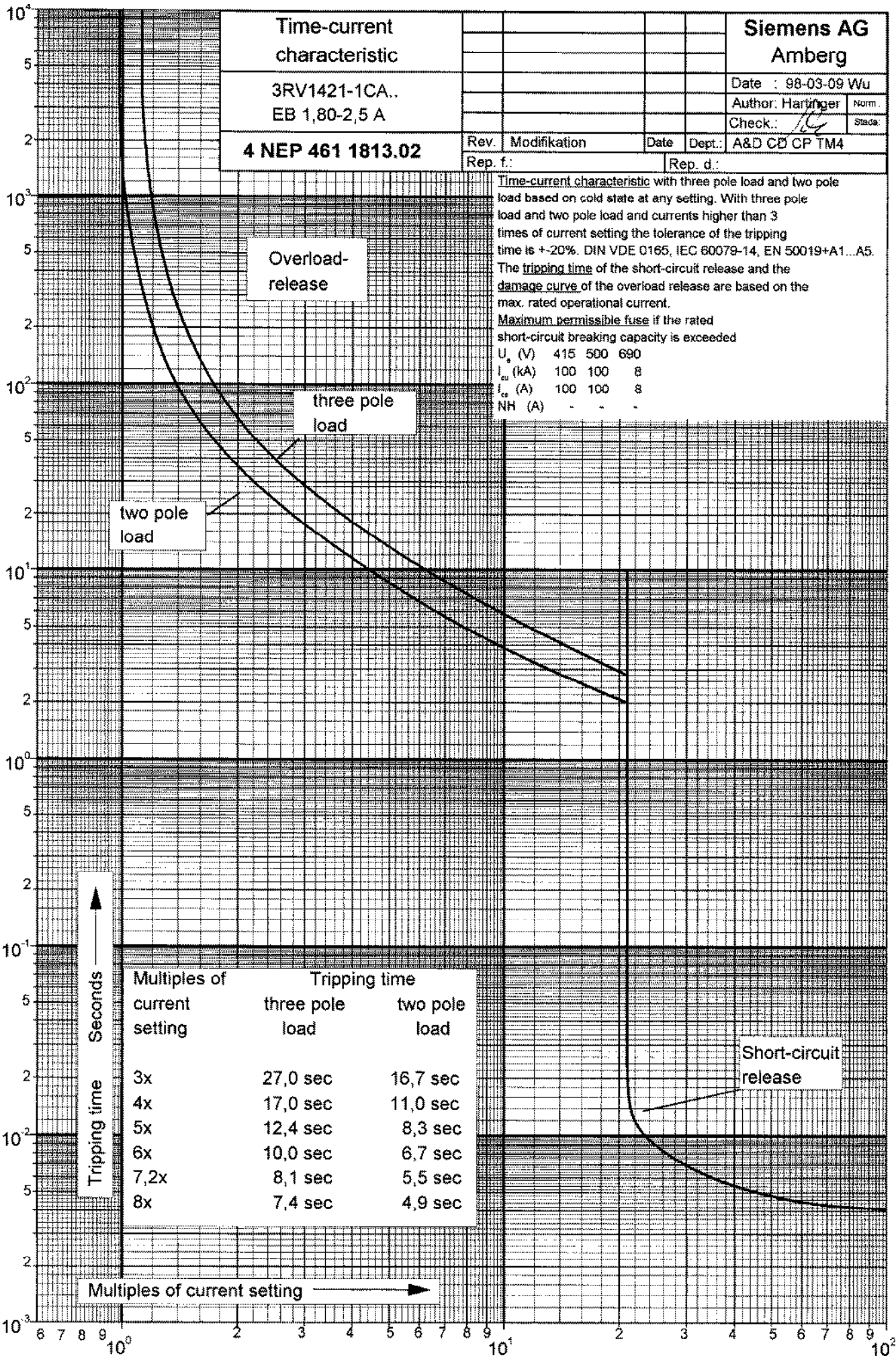


| Multiples of current setting | Tripping time | |
|------------------------------|-----------------|---------------|
| | three pole load | two pole load |
| 3x | 28,0 sec | 17,0 sec |
| 4x | 18,0 sec | 11,5 sec |
| 5x | 13,0 sec | 8,3 sec |
| 6x | 9,9 sec | 6,8 sec |
| 7,2x | 7,5 sec | 5,4 sec |
| 8x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

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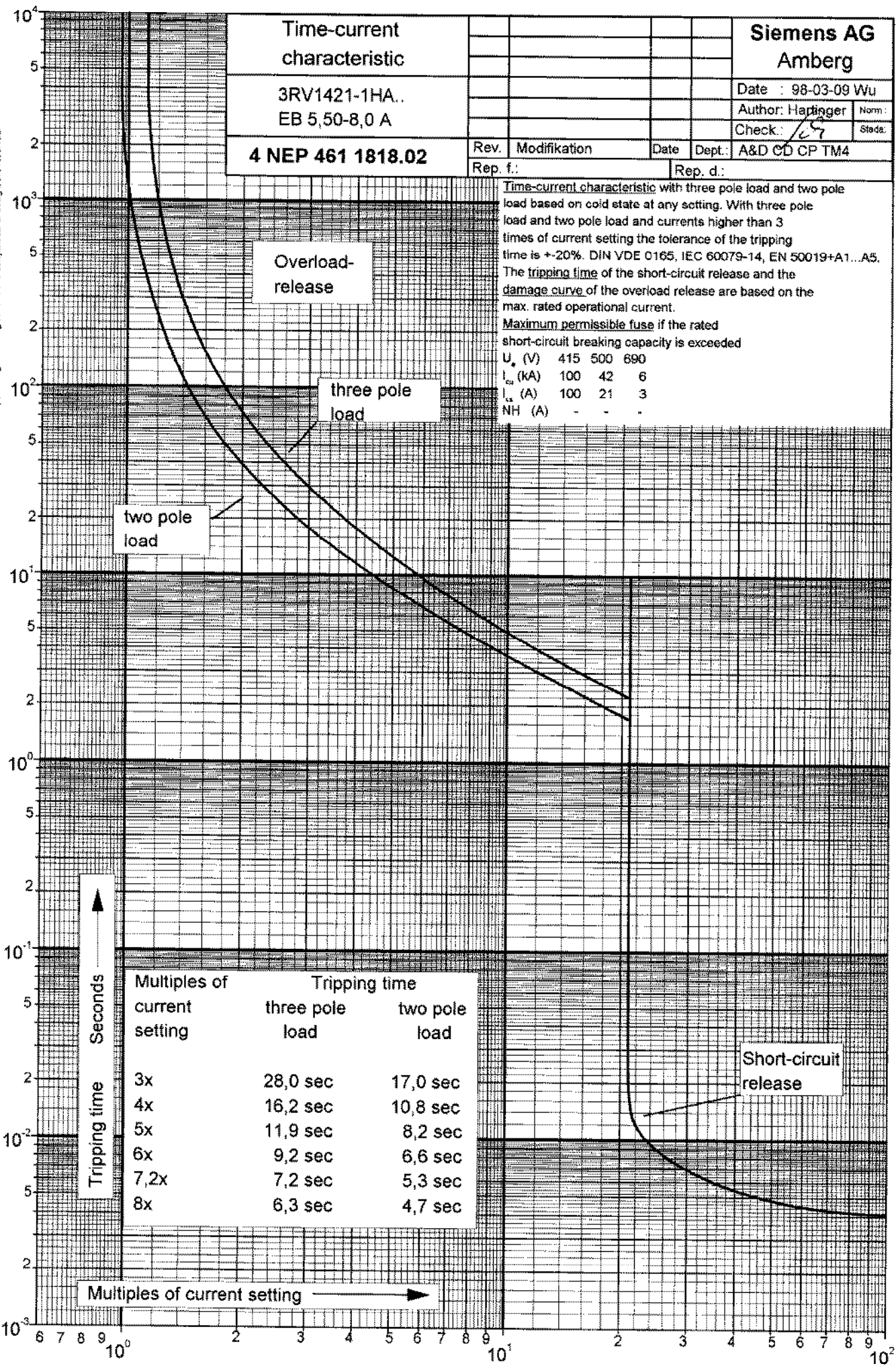
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|--------------------------------|------------------------|---------------------------|--------|
| Time-current characteristic | | Siemens AG Amberg | |
| 3RV1421-1HA.. EB 5,50-8,0 A | | Date : 98-03-09 Wu | Norm: |
| 4 NEP 461 1818.02 | | Check: <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) | - | - | - |

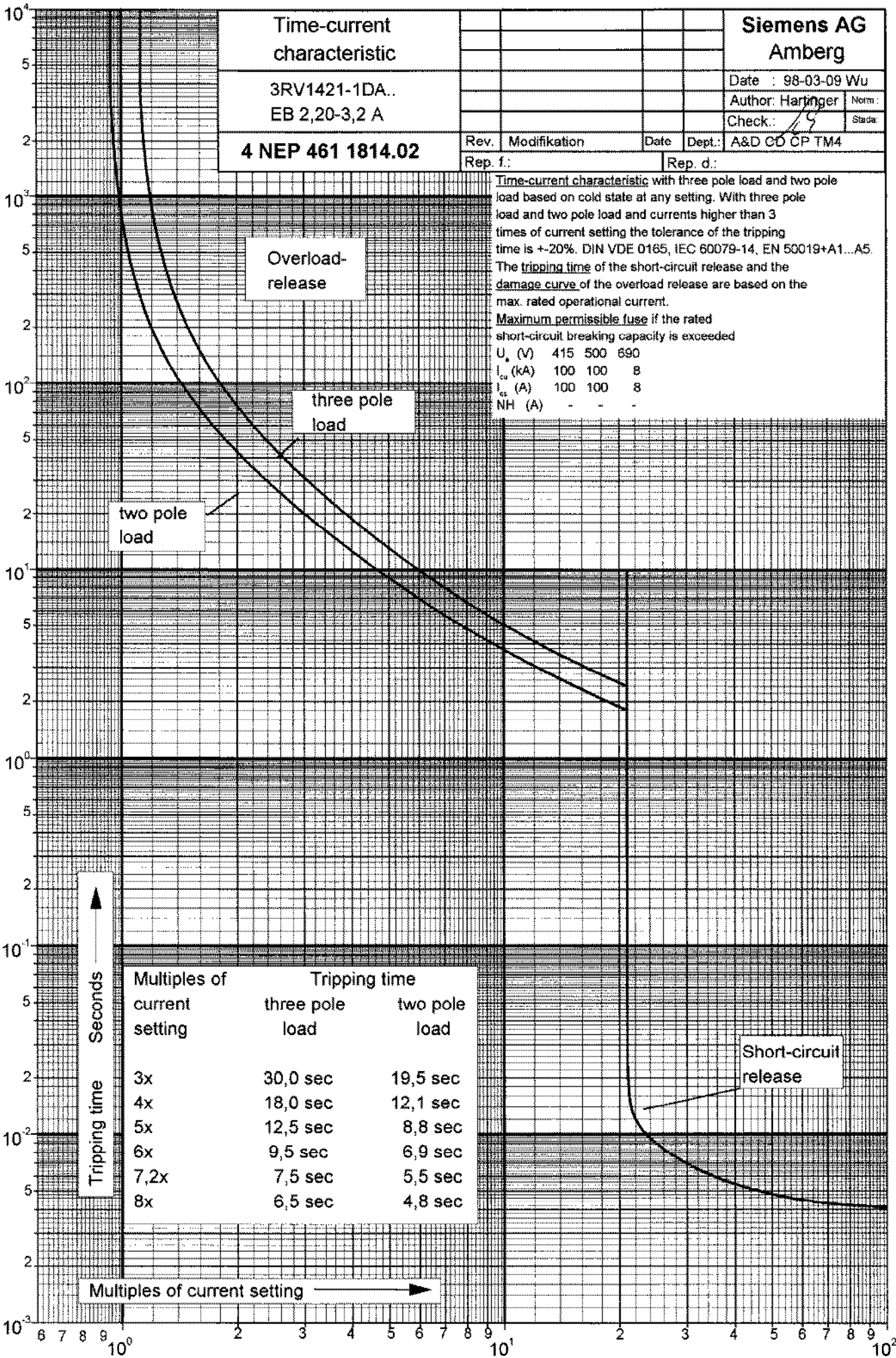


| Multiples of current setting | Tripping time | |
|------------------------------|-----------------|---------------|
| | three pole load | two pole load |
| 3x | 28,0 sec | 17,0 sec |
| 4x | 16,2 sec | 10,8 sec |
| 5x | 11,9 sec | 8,2 sec |
| 6x | 9,2 sec | 6,6 sec |
| 7,2x | 7,2 sec | 5,3 sec |
| 8x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

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| | | | | | | | |
|--------------------------------|--|--|--|--------------------|--|---------------------------|--|
| Time-current characteristic | | | | Siemens AG Amberg | | | |
| 3RV1421-1DA.. EB 2,20-3,2 A | | | | Date : 98-03-09 Wu | | | |
| 4 NEP 461 1814.02 | | | | Rev. Modifikation | | Date Dept.: A&D CO 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 | 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 | 12,5 sec | 8,8 sec |
| 6x | 9,5 sec | 6,9 sec |
| 7,2x | 7,5 sec | 5,5 sec |
| 8x | 6,5 sec | 4,8 sec |

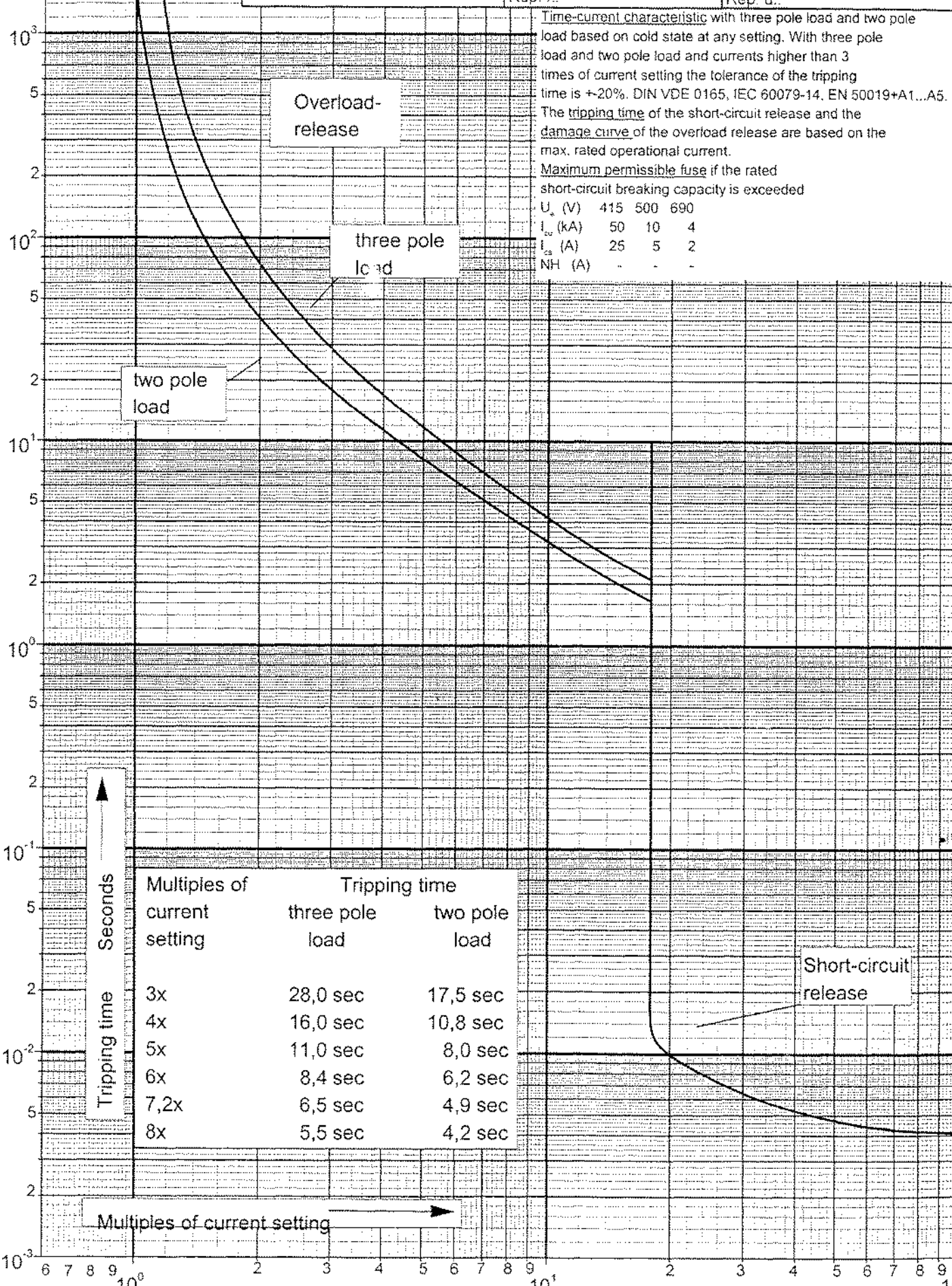
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Time-current characteristic

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

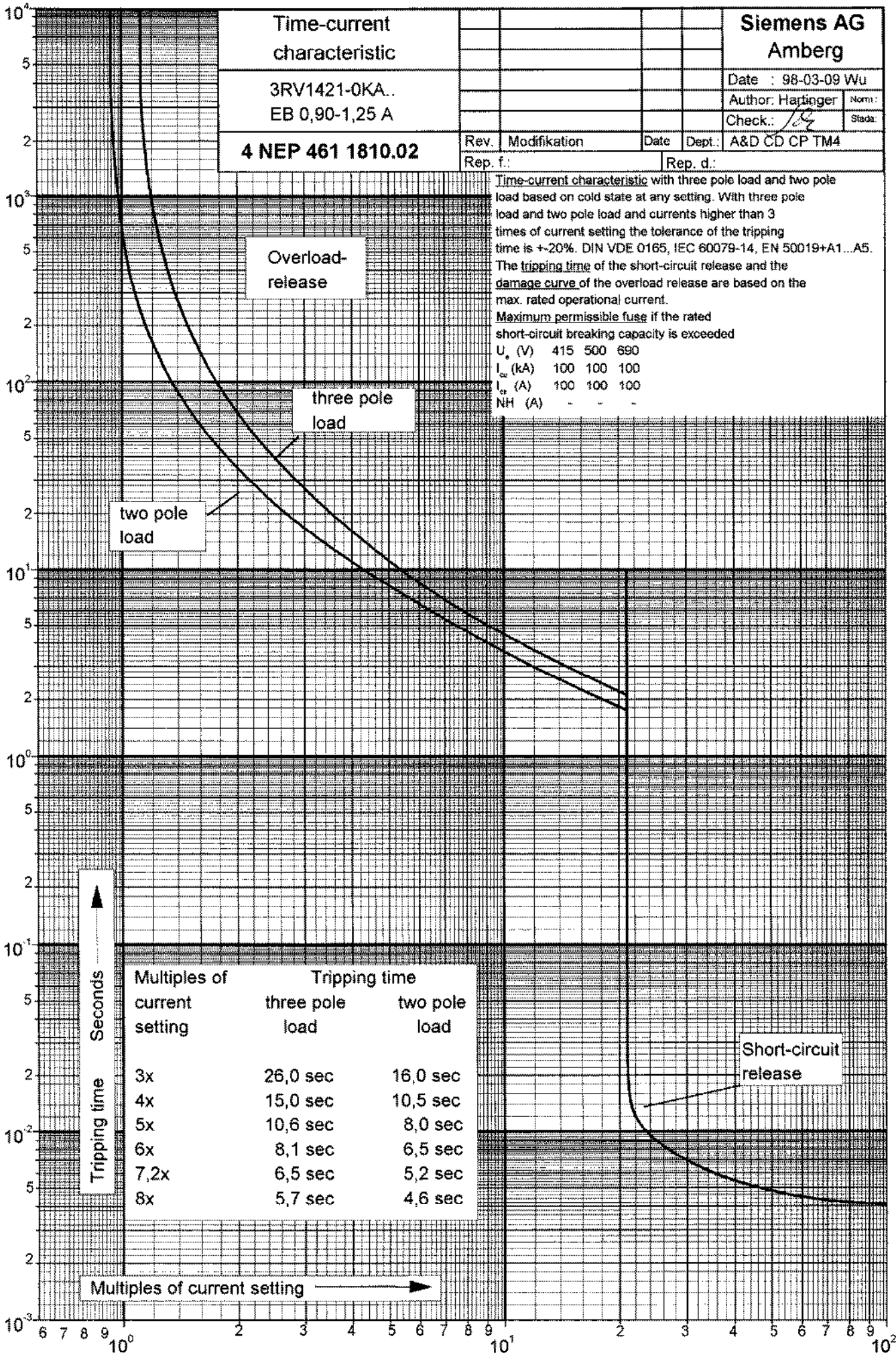
| | | | |
|---------------|-----|-----|-----|
| U_n (V) | 415 | 500 | 690 |
| I_{cu} (kA) | 50 | 10 | 4 |
| I_{ca} (A) | 25 | 5 | 2 |
| NH (A) | - | - | - |

| Multiples of current setting | Tripping time | |
|------------------------------|-----------------|---------------|
| | three pole load | two pole load |
| 3x | 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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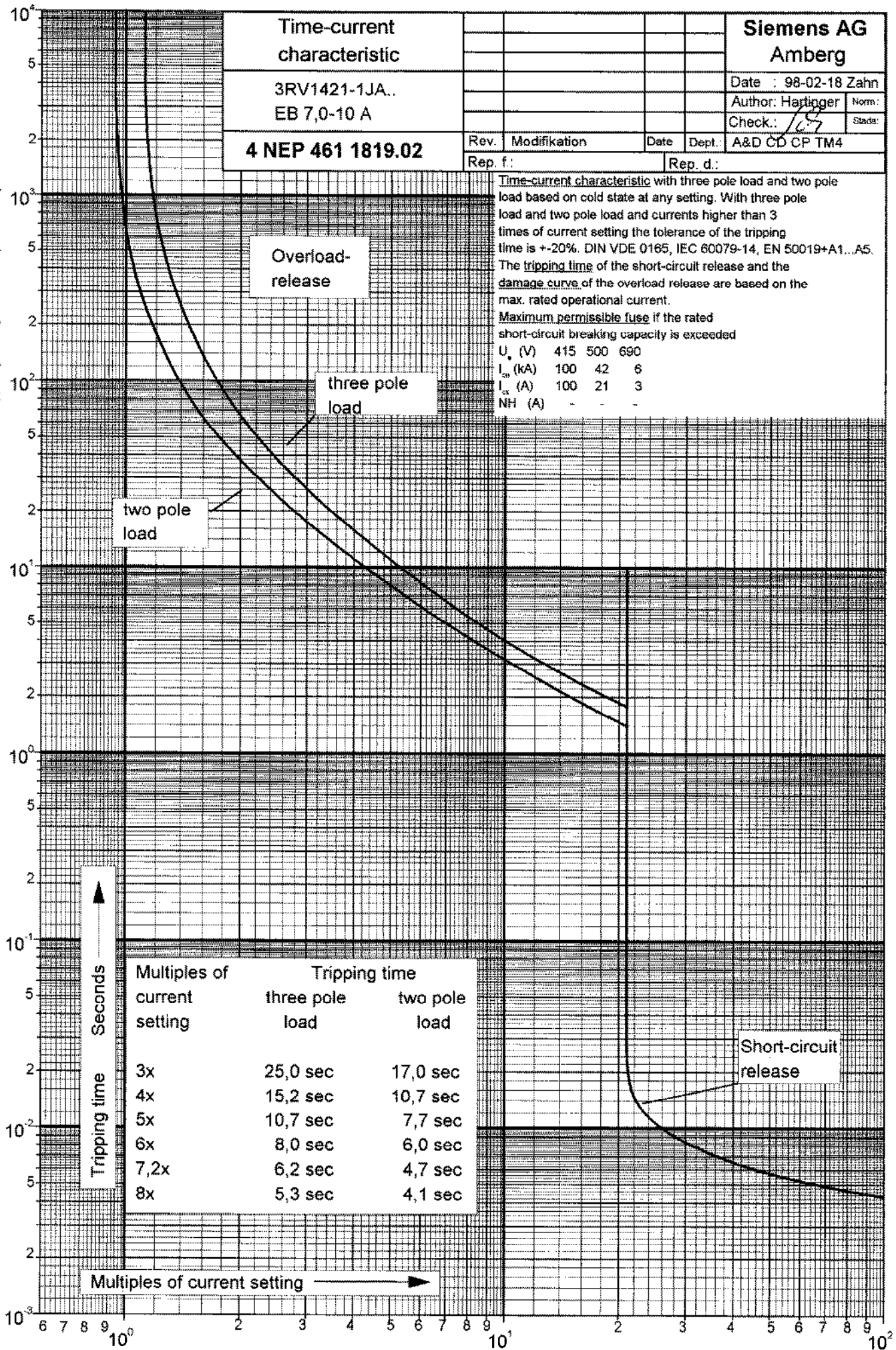
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| | | | | | |
|------------------------------|--------------|------|----------|----------------------|--------|
| Time-current characteristic | | | | Siemens AG Amberg | |
| 3RV1421-1JA.. EB 7,0-10 A | | | | Date : 98-02-18 Zahn | |
| 4 NEP 461 1819.02 | | | | Author: Hartinger | Norm: |
| Rev. | Modifikation | Date | Dept. | Check.: 109 | Stads: |
| 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 0185, 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 | 42 | 6 |
| I _{cs} (A) | 100 | 21 | 3 |
| NH (A) | - | - | - |



| Multiples of current setting | Tripping time | |
|------------------------------|-----------------|---------------|
| | three pole load | two pole load |
| 3x | 25,0 sec | 17,0 sec |
| 4x | 15,2 sec | 10,7 sec |
| 5x | 10,7 sec | 7,7 sec |
| 6x | 8,0 sec | 6,0 sec |
| 7,2x | 6,2 sec | 4,7 sec |
| 8x | 5,3 sec | 4,1 sec |

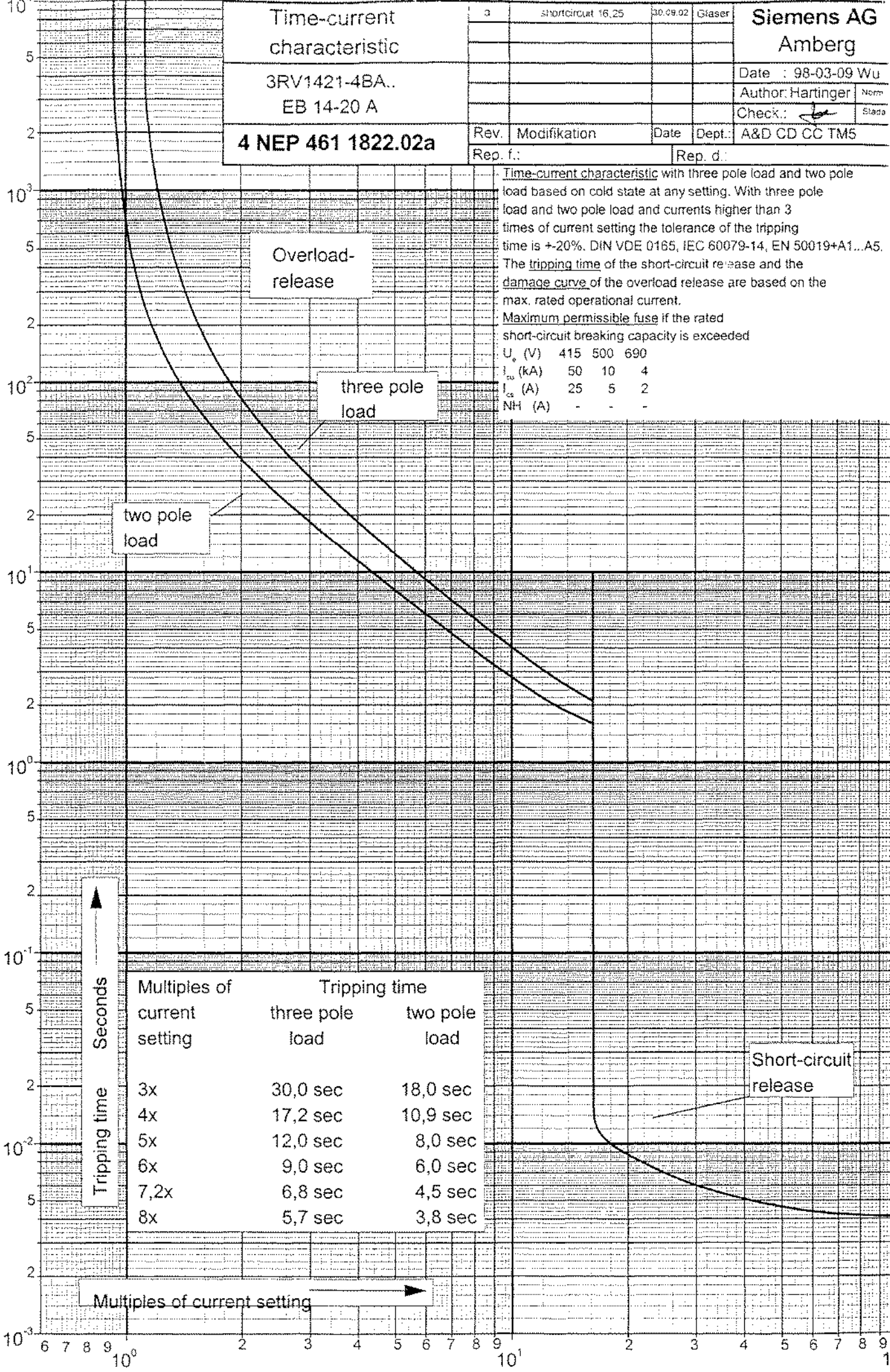
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Time-current characteristic
 3RV1421-4BA..
 EB 14-20 A
4 NEP 461 1822.02a

| | | | | | |
|----------|--------------------|----------|--------|-----------------------------|-------|
| a | shortcircuit 16,25 | 30.09.02 | Glaser | Siemens AG Amberg | |
| | | | | Date : 98-03-09 Wu | |
| | | | | Author: Hartinger | Norm |
| | | | | Check.: | Stada |
| Rev. | Modifikation | Date | Dept. | A&D CD 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 _e (V) | 415 | 500 | 690 |
| I _{cu} (kA) | 50 | 10 | 4 |
| I _{ca} (A) | 25 | 5 | 2 |
| NH (A) | - | - | - |



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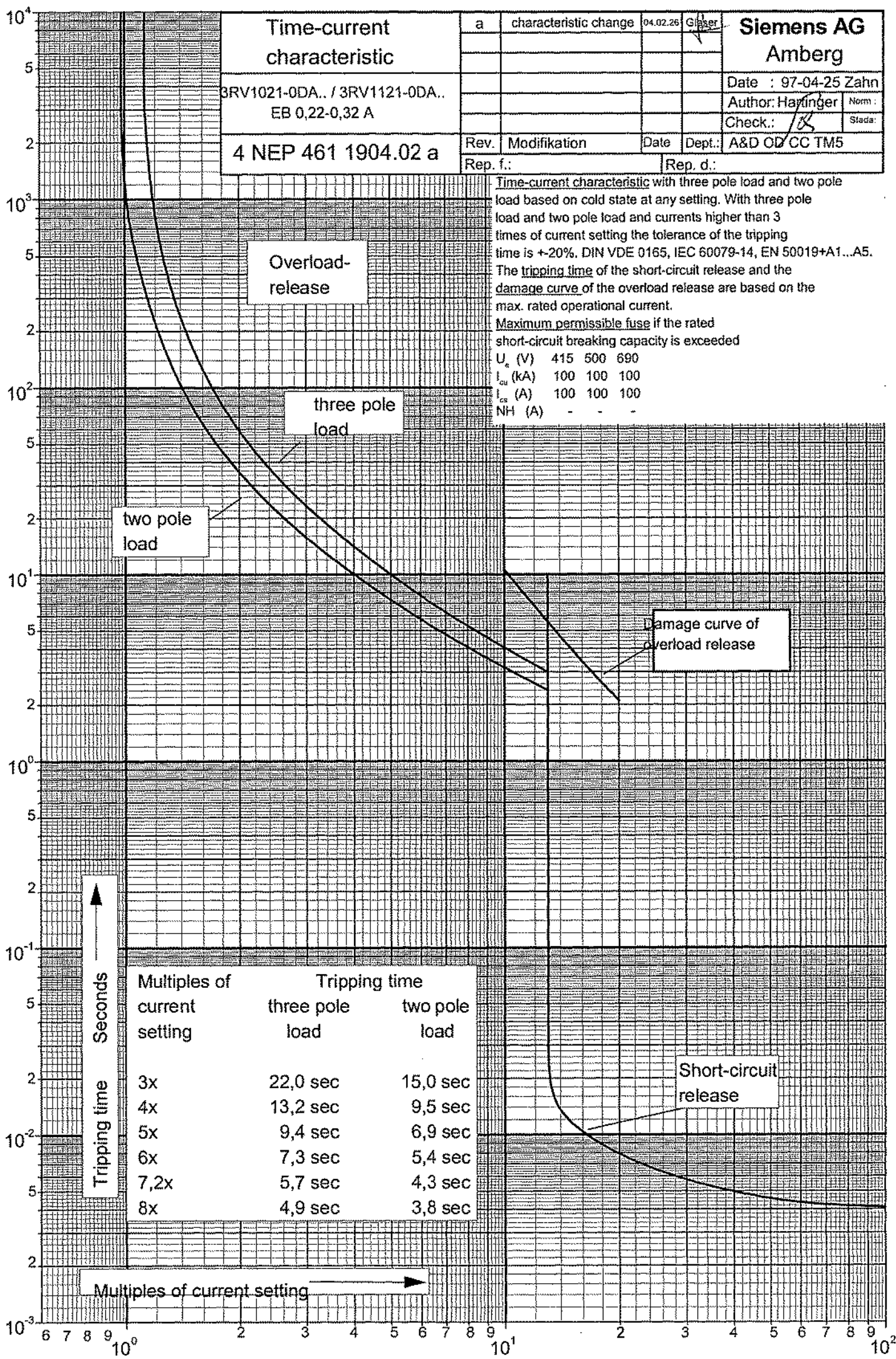
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| | | | | | | |
|---|--|----------|-----------------------|----------|---------|----------------------------|
| Time-current characteristic | | a | characteristic change | 04.02.26 | Glasser | Siemens AG Amberg |
| 3RV1021-0DA.. / 3RV1121-0DA.. EB 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 |

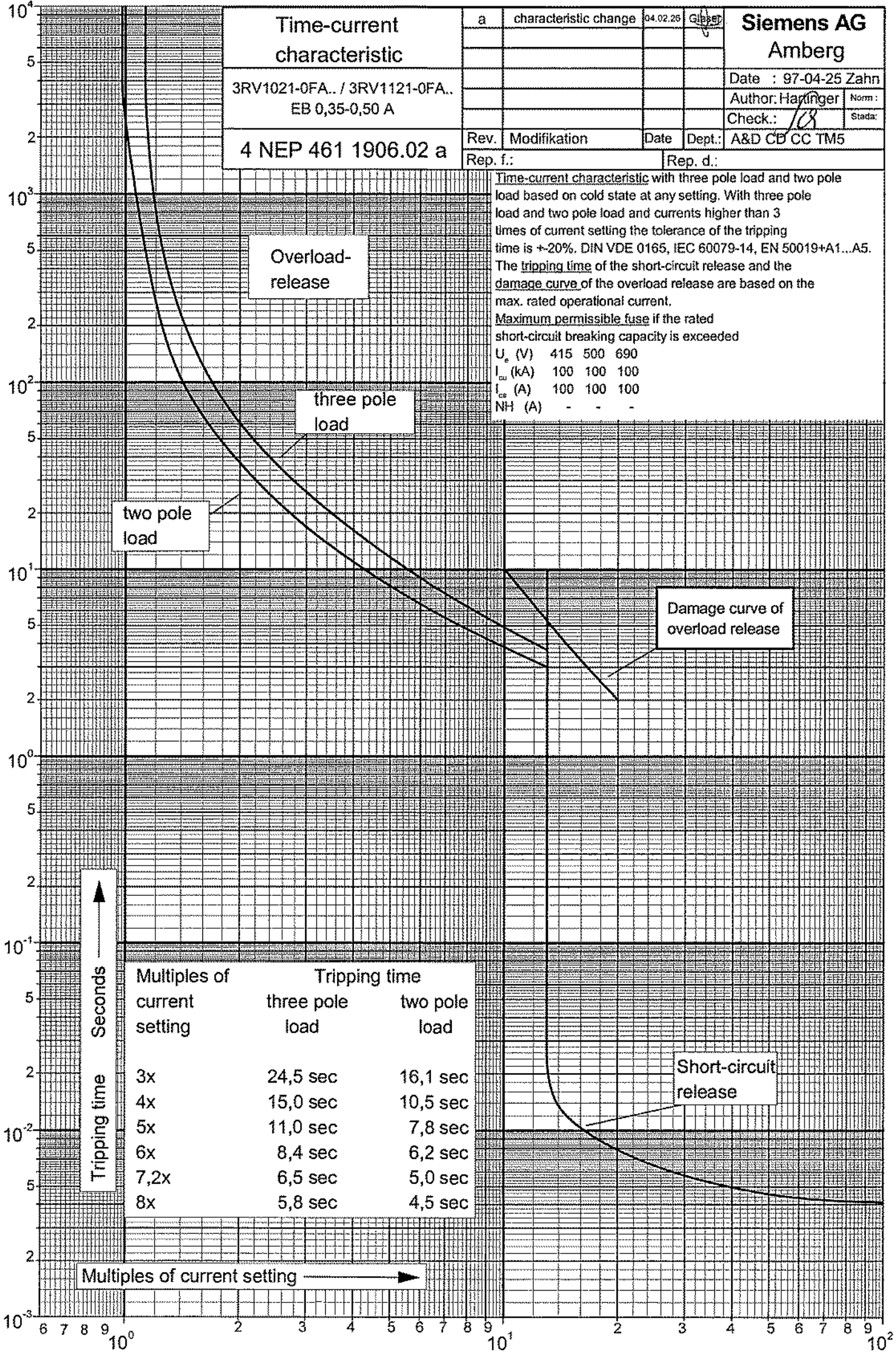
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| | | | | | | |
|---|--|----------|-----------------------|----------|--------|---|
| Time-current characteristic | | a | characteristic change | 04.02.25 | Gibbs | Siemens AG Amberg |
| 3RV1021-0FA.. / 3RV1121-0FA.. EB 0,35-0,50 A | | | | | | |
| 4 NEP 461 1906.02 a | | Rev. | Modifikation | Date | Dept.: | Author: Harfinger Norm: Check.: 18 Stada: 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 |

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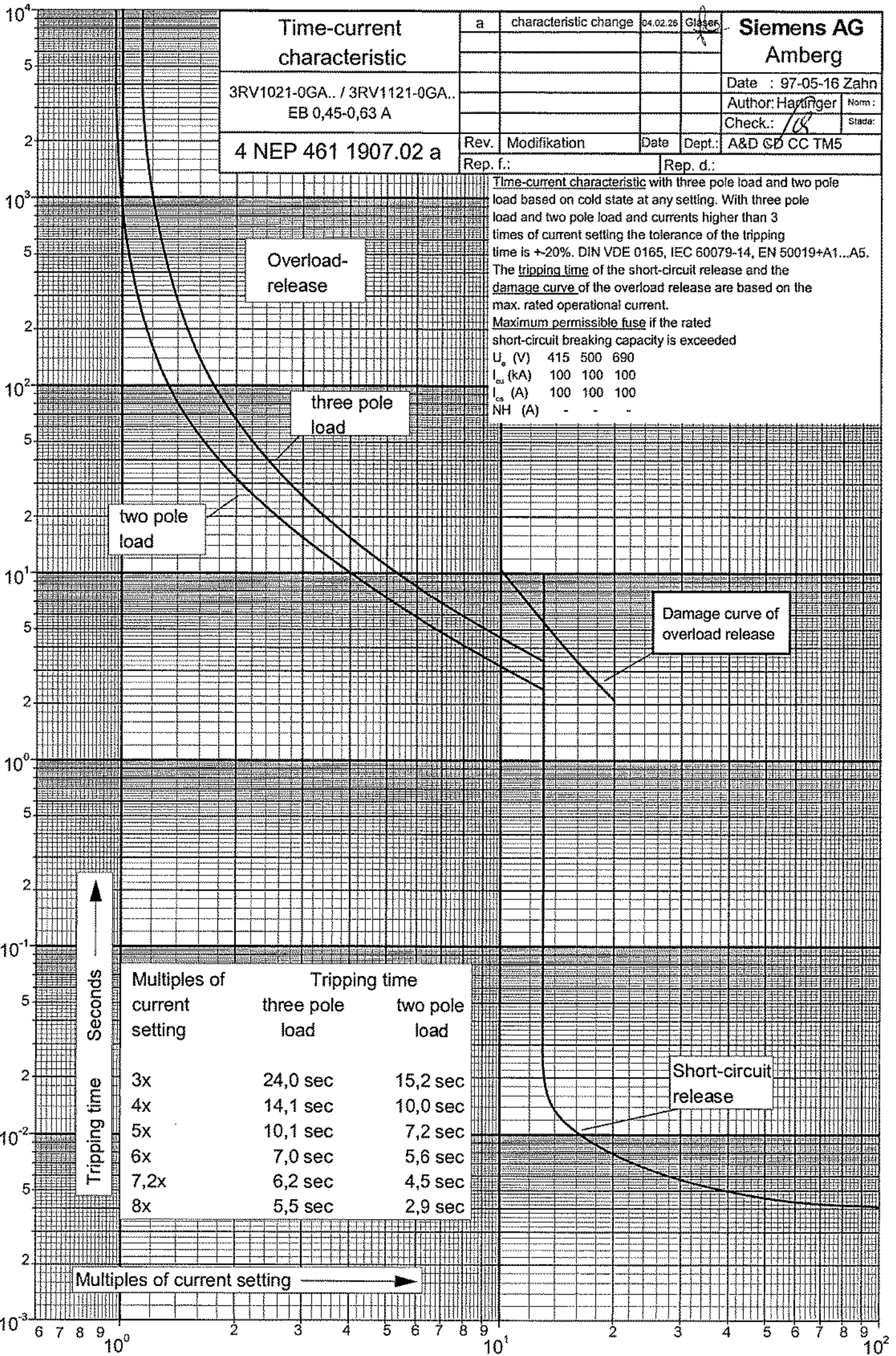
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| | | | | | |
|---|---|-----------------------|----------|--------|-------------------------|
| Time-current characteristic | a | characteristic change | 04.02.26 | Glaser | Siemens AG Amberg |
| | | | | | |
| 3RV1021-0GA.. / 3RV1121-0GA.. EB 0,45-0,63 A | | | | | Date : 97-05-16 Zahn |
| 4 NEP 461 1907.02 a | | | | | Author: Hartinger Norm: |
| 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 $\pm 20\%$. 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 |

Multiples of current setting

Tripping time

Seconds

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Time-current characteristic

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

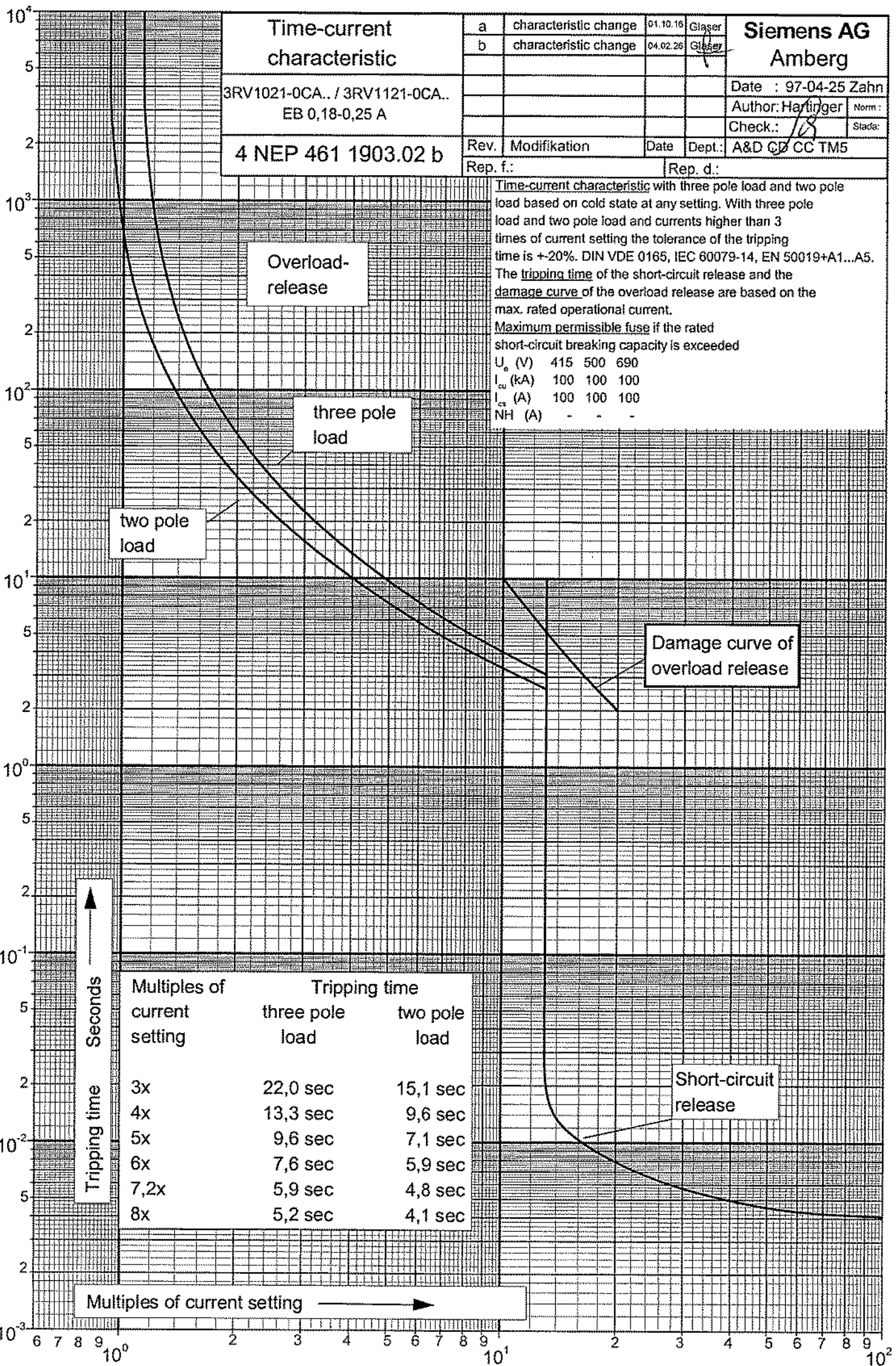
4 NEP 461 1903.02 b

| | | | | |
|-------------------|-----------------------|----------|--------|----------------------------|
| a | characteristic change | 01.10.16 | Glaser | Siemens AG Amberg |
| b | characteristic change | 04.02.26 | Glaser | |
| Rev. Modifikation | | Date | Dept.: | Date : 97-04-25 Zahn |
| Rep. f.: | | Rep. d.: | | Author: Hartinger |
| | | | | Check.: <i>[Signature]</i> |
| | | | | Slade: |
| | | | | A&D 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_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

Damage curve of overload release

Overload-release

three pole load

two pole load

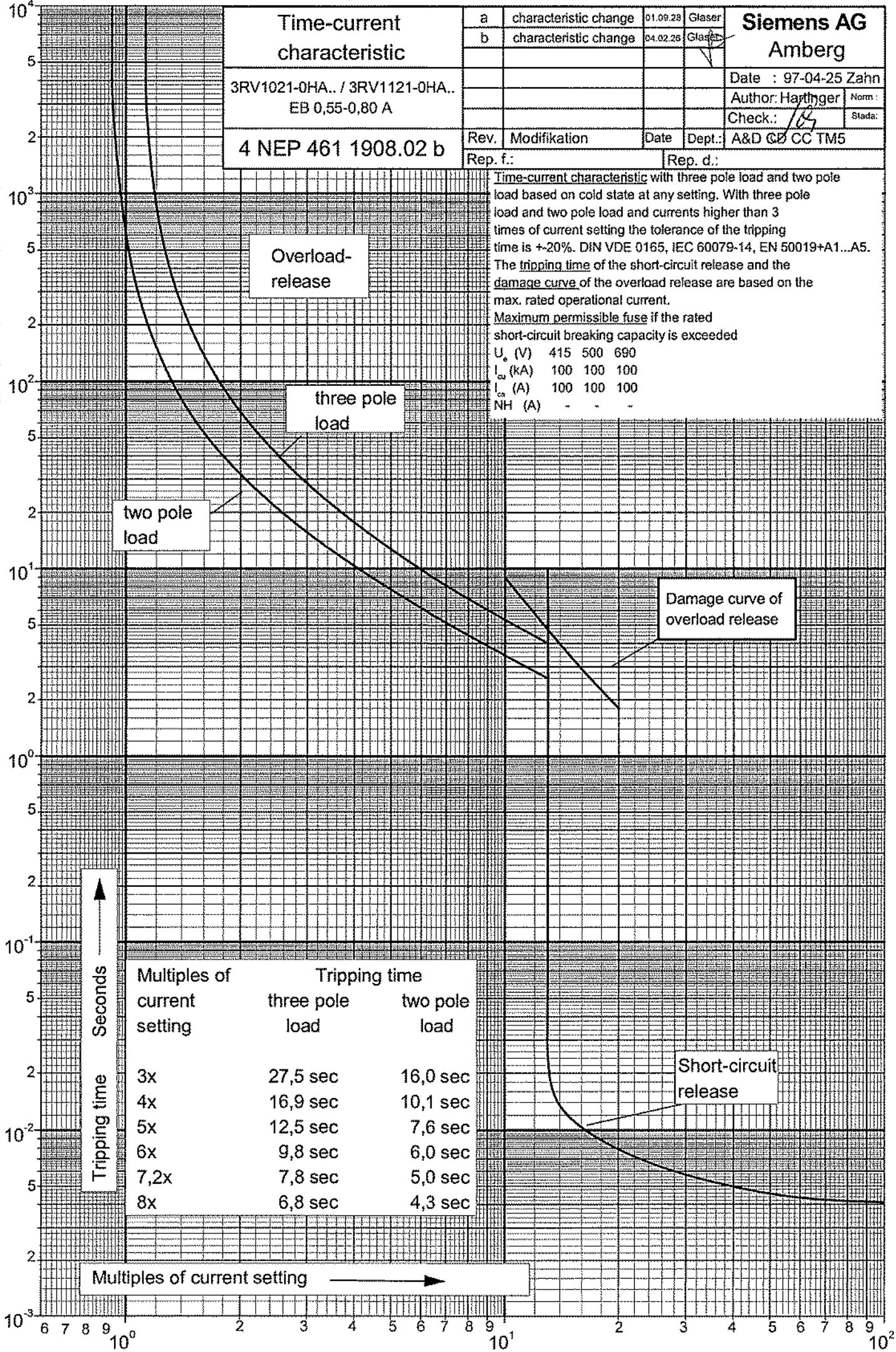
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| | | | | | |
|---|---|-----------------------|----------|--------|------------------------|
| Time-current characteristic | a | characteristic change | 01.09.29 | Glaser | Siemens AG Amberg |
| | b | characteristic change | 04.02.26 | Glaser | |
| 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 _e (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 |

Multiples of current setting →

↑
Seconds
Tripping time

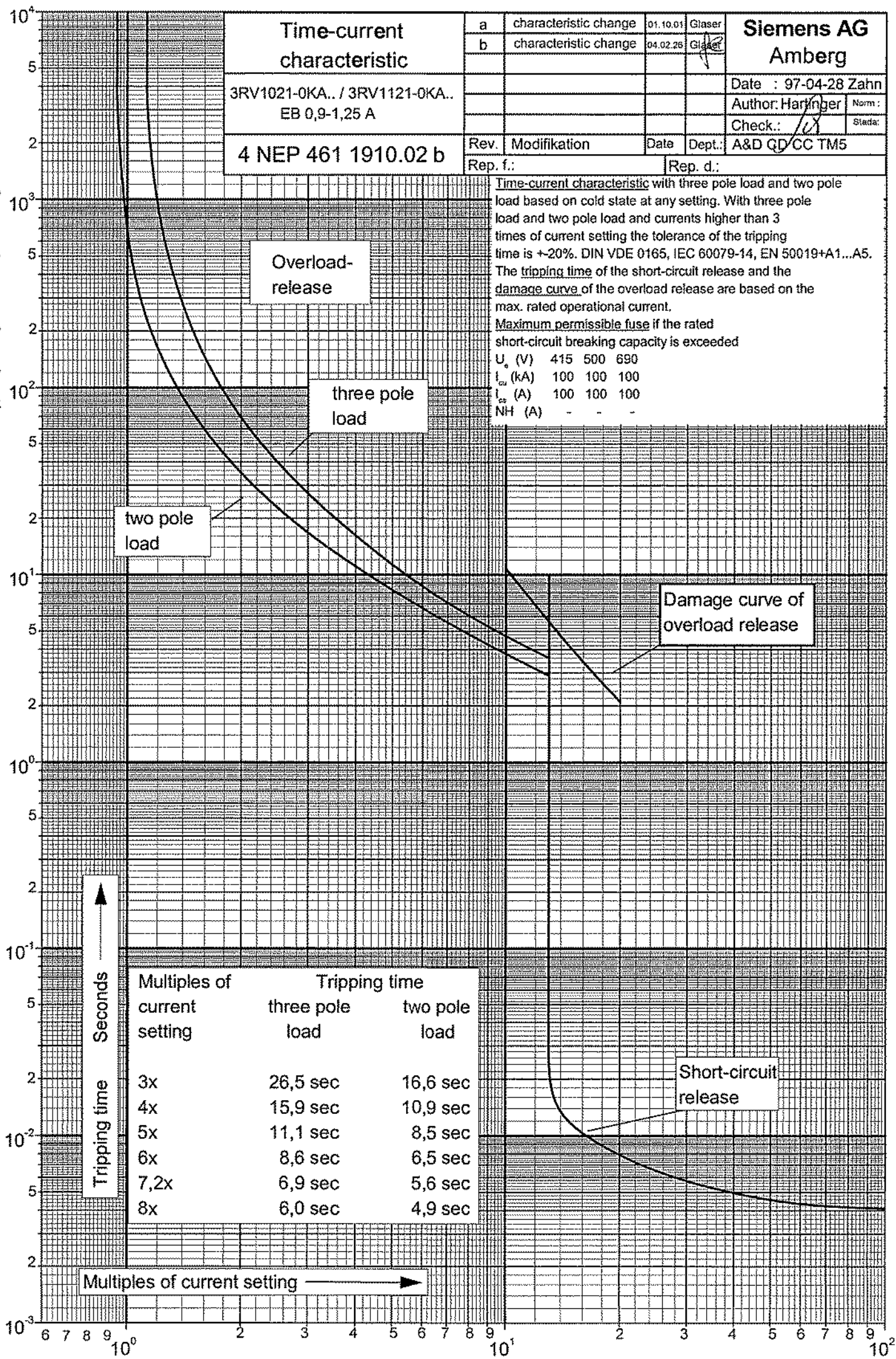
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| | | | | | | |
|--|--------------|------|-----------------------|---------------|--------|--|
| Time-current characteristic | | a | characteristic change | 01.10.01 | Glaser | Siemens AG Amberg |
| | | b | characteristic change | 04.02.26 | Glaser | |
| 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.: <i>[Signature]</i> Stadler |
| 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 |

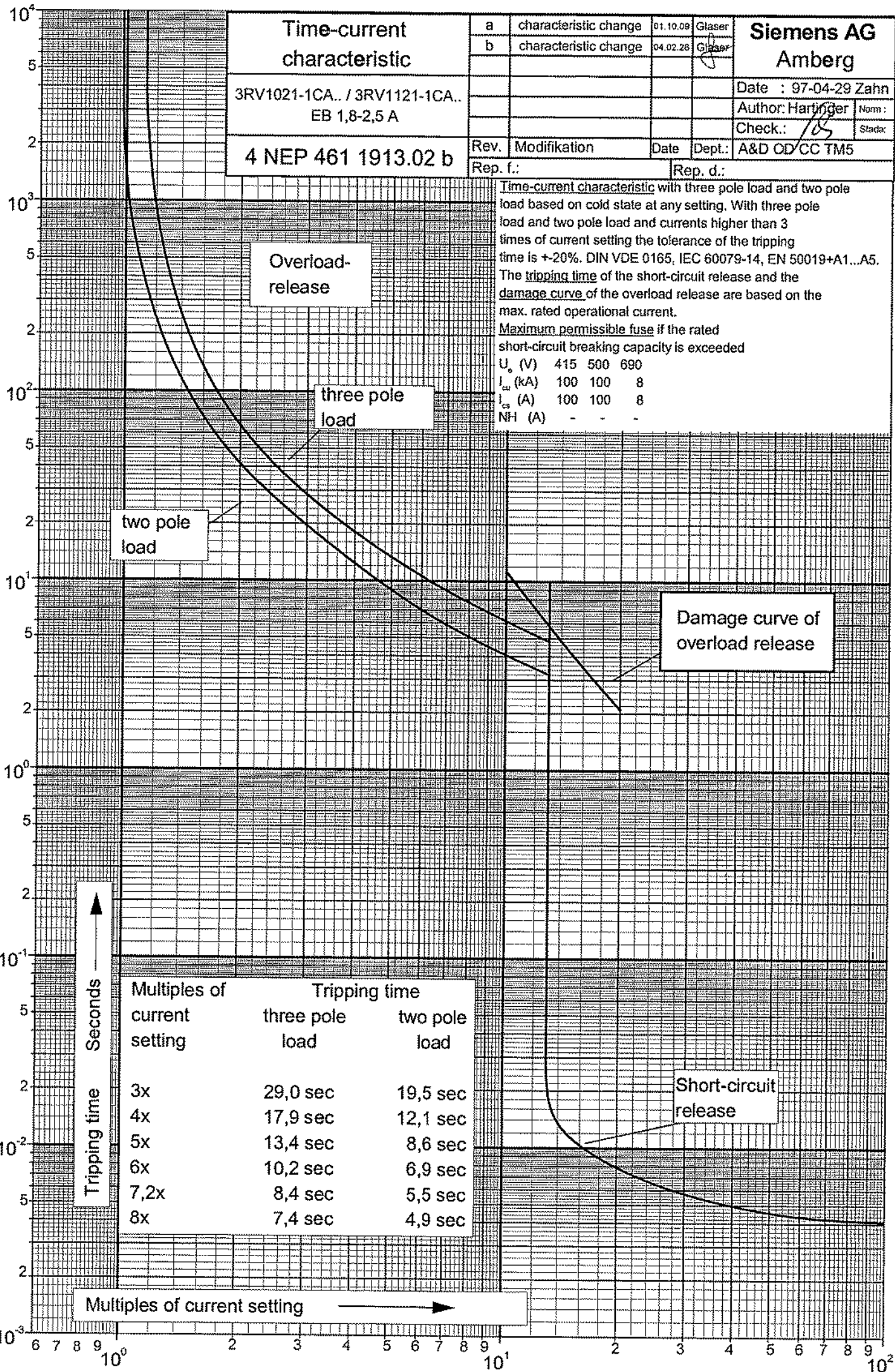
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| | | | | | | |
|---|--|----------|-----------------------|----------|--------|----------------------|
| Time-current characteristic | | a | characteristic change | 01.10.09 | Glaser | Siemens AG Amberg |
| | | b | characteristic change | 04.02.26 | 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) | - | - | - |

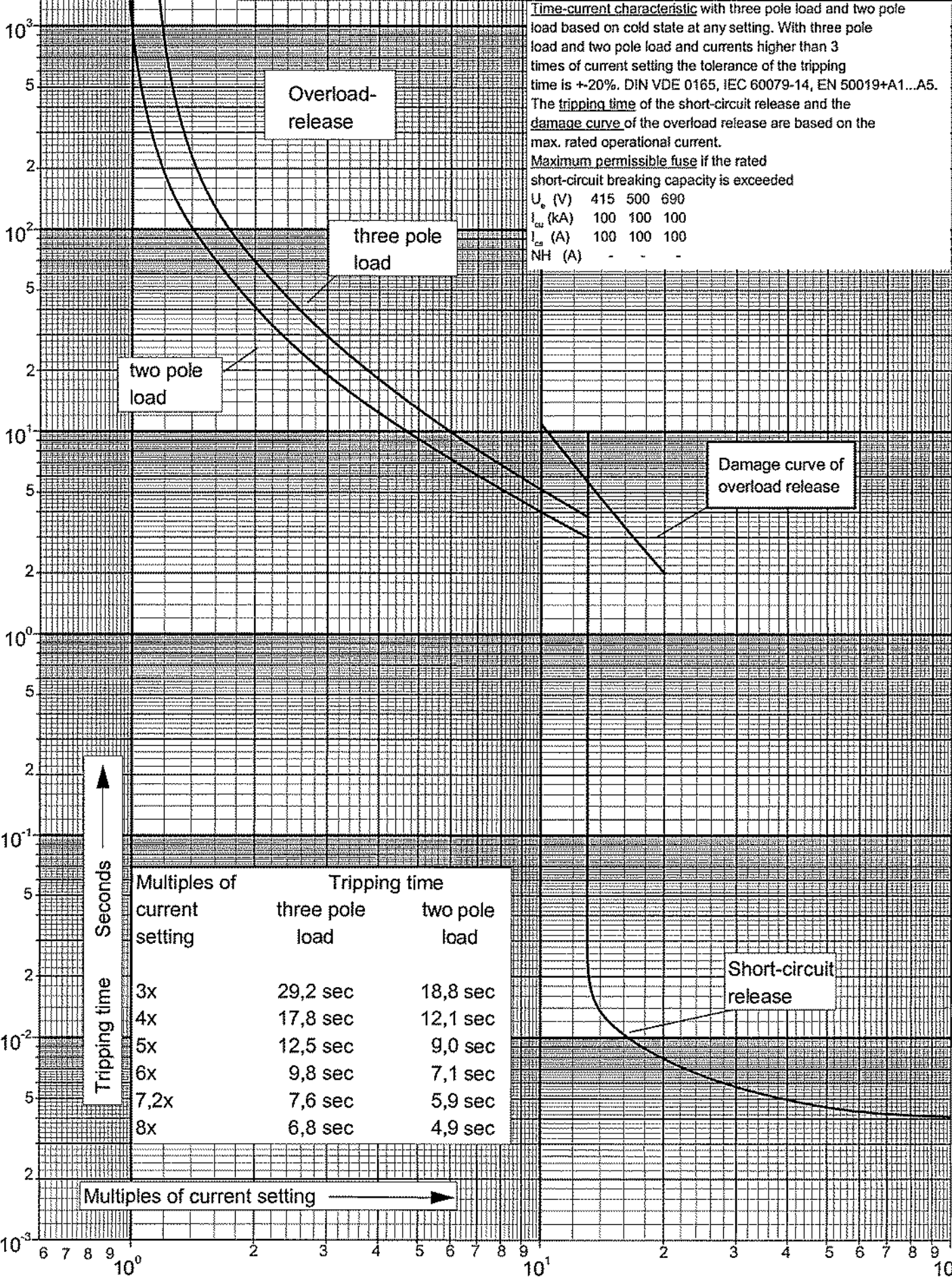


| Multiples of current setting | Tripping time | |
|------------------------------|-----------------|---------------|
| | three pole load | two pole load |
| 3x | 29,0 sec | 19,5 sec |
| 4x | 17,9 sec | 12,1 sec |
| 5x | 13,4 sec | 8,6 sec |
| 6x | 10,2 sec | 6,9 sec |
| 7,2x | 8,4 sec | 5,5 sec |
|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

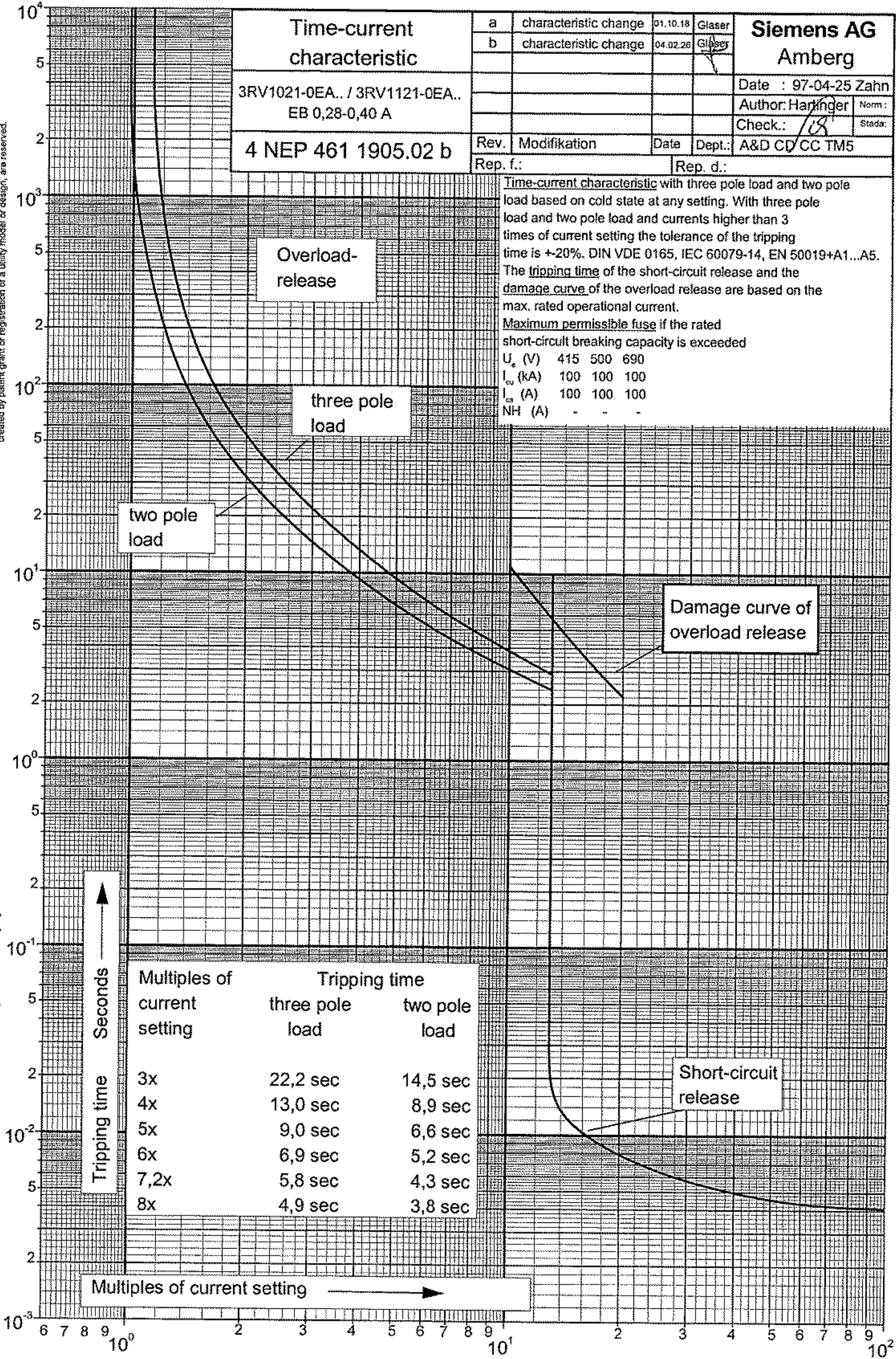
4 NEP 461 1905.02 b

| | | | | |
|----------|-----------------------|----------|--------|------------------------------------|
| 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_{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 | 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 |

Multiples of current setting →

↑ Tripping time
Seconds

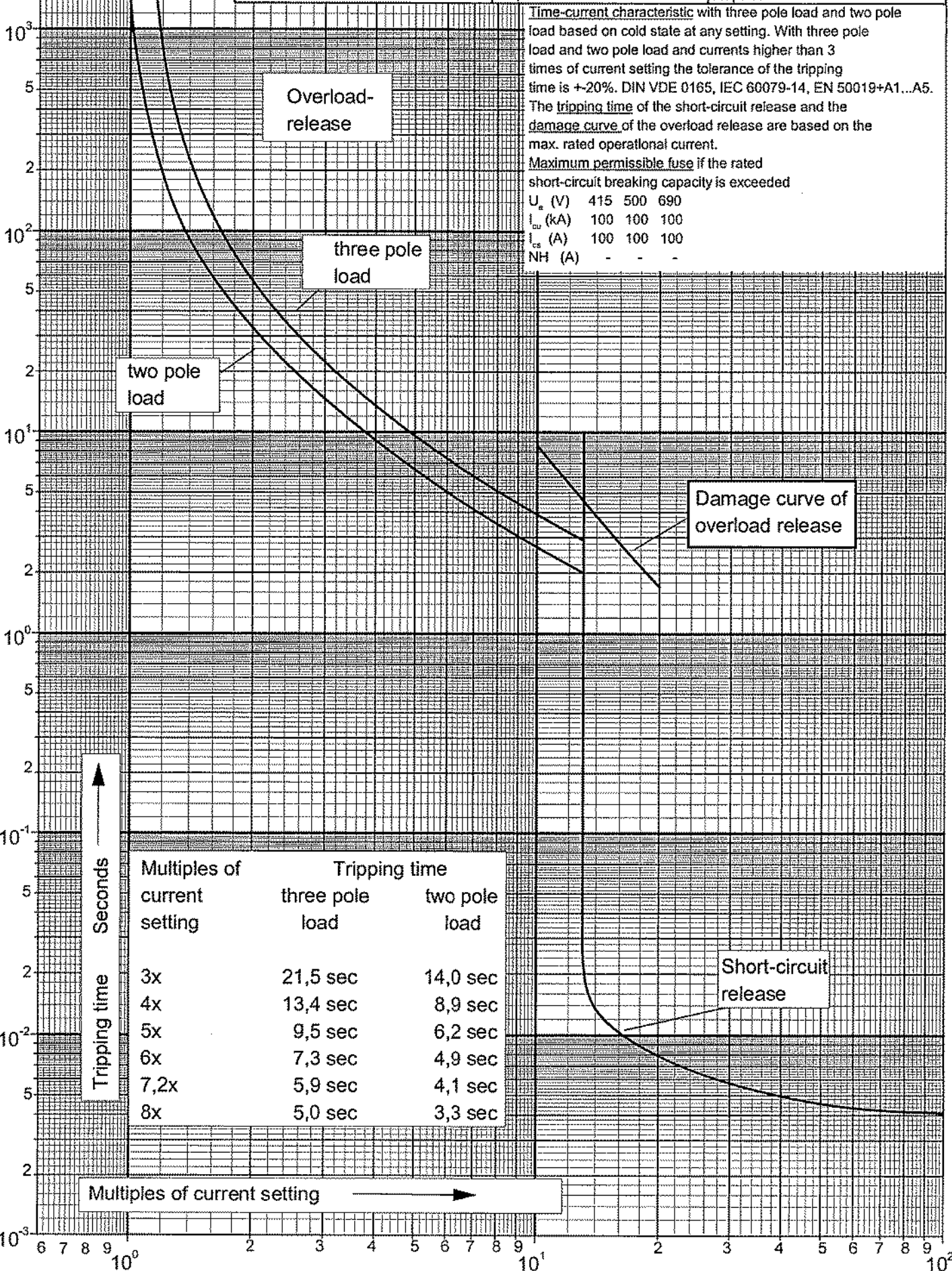
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| | | | | | |
|---|---|----------|----------|--------|--|
| Time-current characteristic | a | revision | 01.09.28 | Glaser | Siemens AG Amberg |
| | b | revision | 04.02.28 | Glaser | |
| 3RV1021-0AA... / 3RV1121-0AA... EB 0,11-0,16 A | | | | | Date : 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) | - | - | - |



| Multiples of current setting | Tripping time | |
|------------------------------|-----------------|---------------|
| | three pole load | two pole load |
| 3x | 21,5 sec | 14,0 sec |
| 4x | 13,4 sec | 8,9 sec |
| 5x | 9,5 sec | 6,2 sec |
| 6x | 7,3 sec | 4,9 sec |
| 7,2x | 5,9 sec | 4,1 sec |
| 8x | 5,0 sec | 3,3 sec |

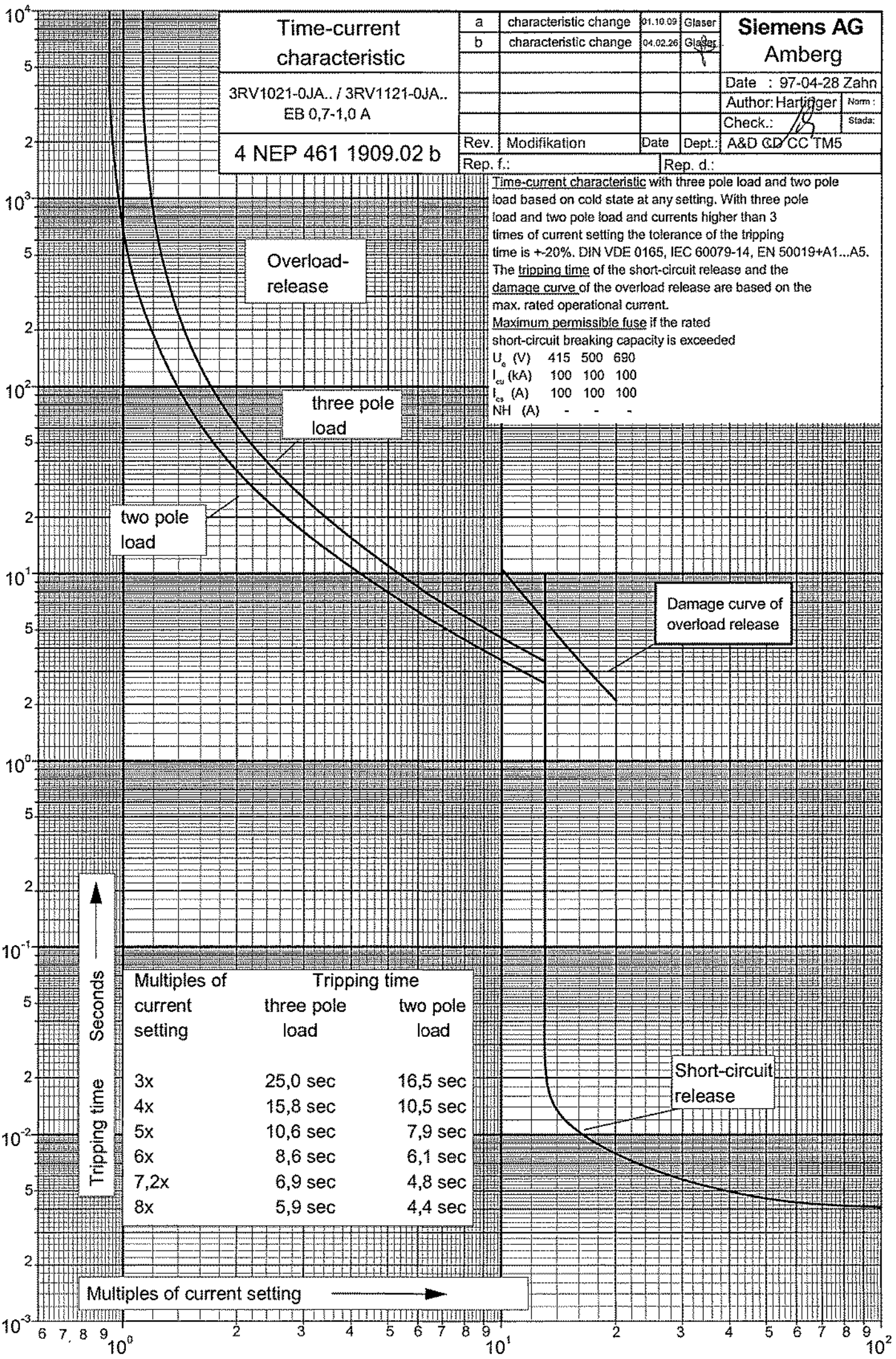
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| | | | | | |
|---|--------------|-----------------------|----------|---------------|--|
| Time-current characteristic | a | characteristic change | 10.10.09 | Glaser | Siemens AG Amberg |
| | b | characteristic change | 04.02.26 | Glaser | |
| 3RV1021-0JA.. / 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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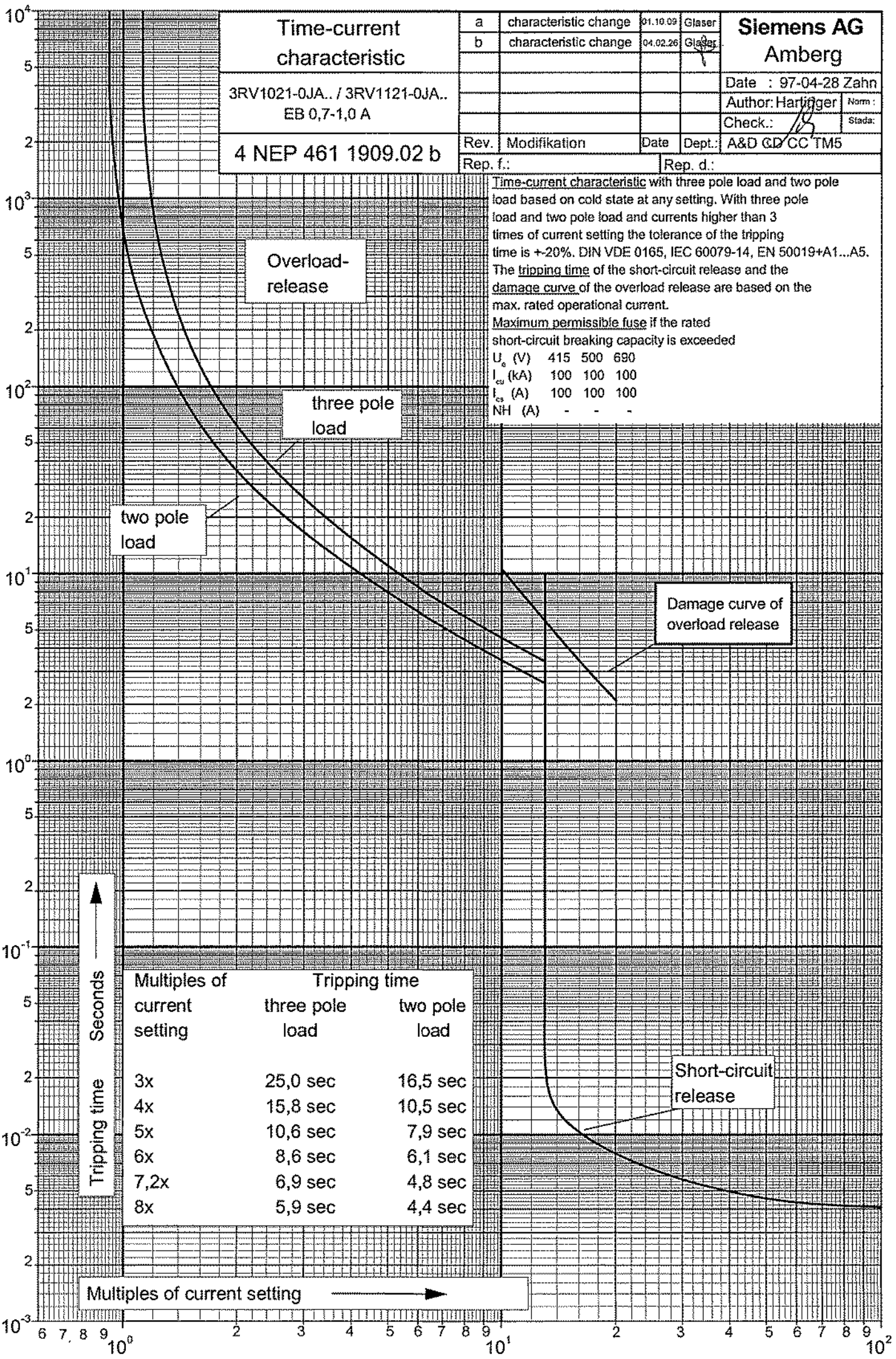
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| | | | | | |
|---|--------------|-----------------------|----------|---------------|--|
| Time-current characteristic | a | characteristic change | 10.10.09 | Glaser | Siemens AG Amberg |
| | b | characteristic change | 04.02.26 | Glaser | |
| 3RV1021-0JA.. / 3RV1121-0JA.. EB 0,7-1,0 A | | | | | Date : 97-04-28 Zahn |
| 4 NEP 461 1909.02 b | | | | | Author: Hartigler 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

3RV1021-1BA.. / 3RV1121-1BA..
EB 1,4-2,0 A

4 NEP 461 1912.02 b

| | | | |
|----------|-----------------------|----------|--------|
| a | characteristic change | 01.10.01 | Glaser |
| b | characteristic change | 04.02.28 | Glaser |
| Rev. | Modifikation | Date | Dept.: |
| Rep. f.: | | Rep. d.: | |

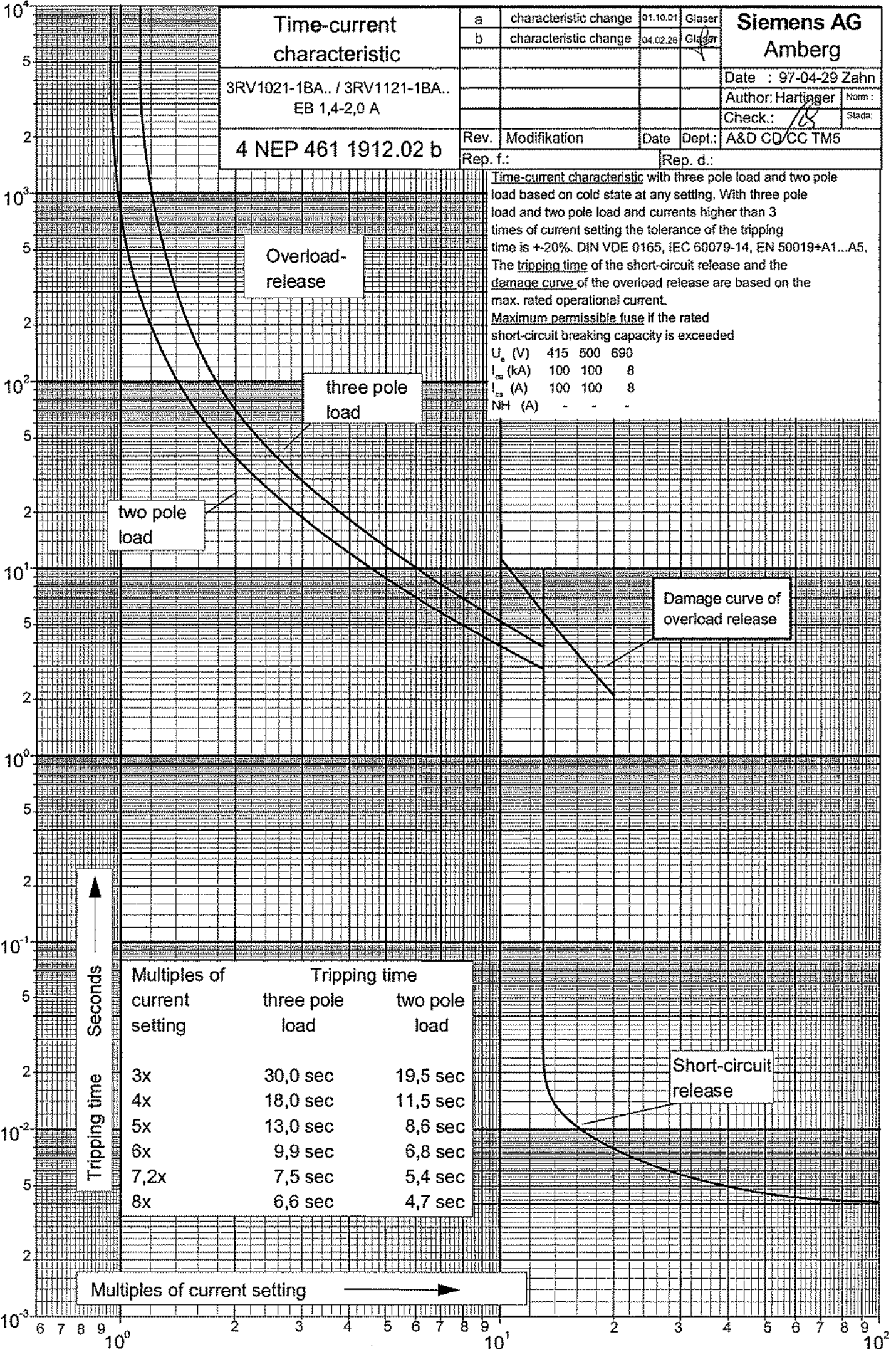
Siemens AG
Amberg

Date : 97-04-29 Zahn
Author: Hartinger Norm :
Check.: 108 Stada:
A&D CD/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 _o (V) | 415 | 500 | 690 |
| I _{sc} (kA) | 100 | 100 | 8 |
| I _{cs} (A) | 100 | 100 | 8 |
| NH (A) | - | - | - |

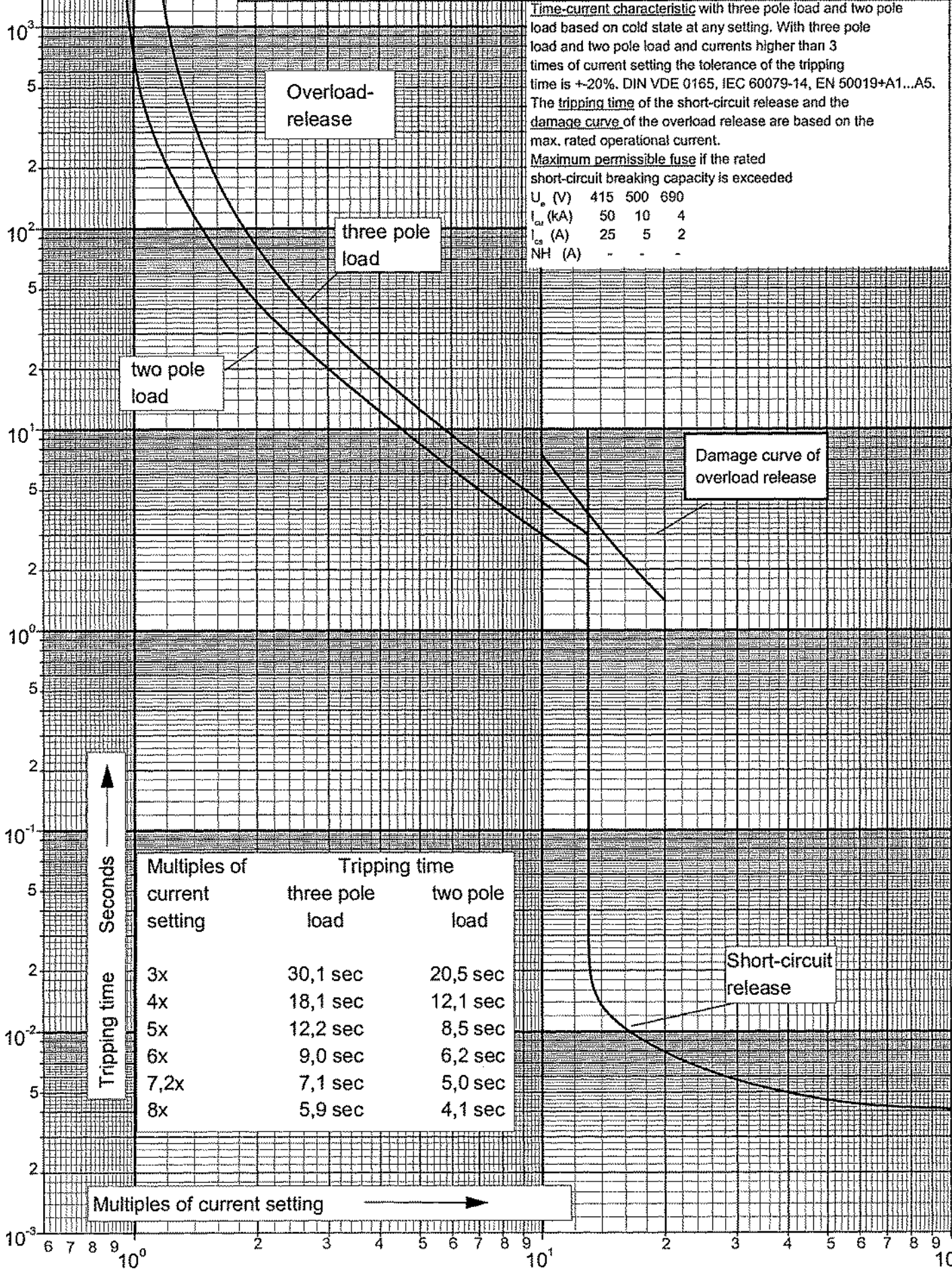


| Multiples of current setting | Tripping time | |
|------------------------------|-----------------|---------------|
| | three pole load | two pole load |
| 3x | 30,0 sec | 19,5 sec |
| 4x | 18,0 sec | 11,5 sec |
| 5x | 13,0 sec | 8,6 sec |
| 6x | 9,9 sec | 6,8 sec |
| 7,2x | 7,5 sec | 5,4 sec |
| 8x | 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 | | | Date | Dept.: | A&D CD/CC TM5 |
| Rep. f.: | | | Rep. d.: | | |



| 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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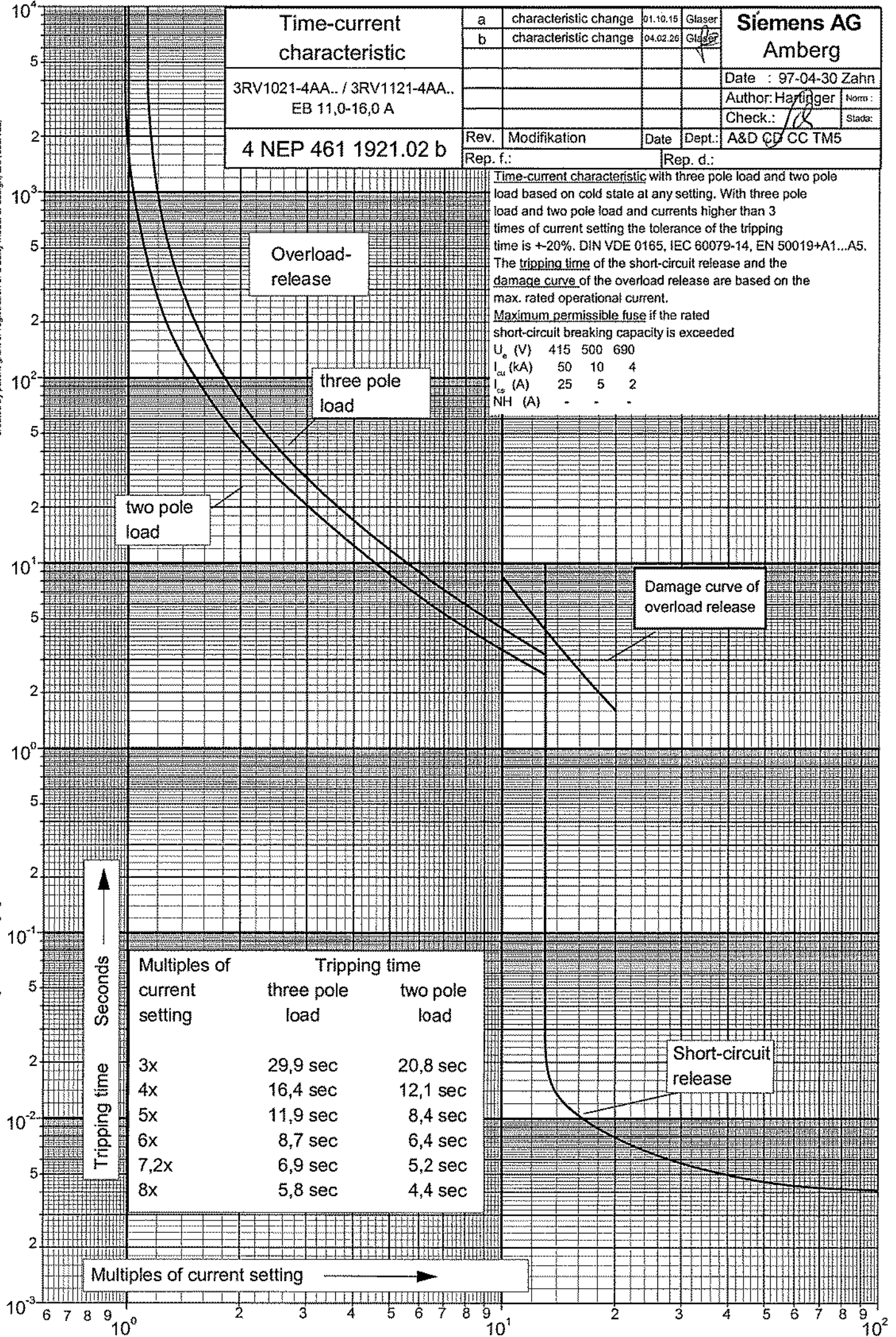
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| | | | | | | |
|---|--|---|-----------------------|----------|-------------------|--------------------------|
| Time-current characteristic | | a | characteristic change | 01.10.15 | Glaser | Siemens AG Amberg |
| | | b | characteristic change | 04.02.26 | 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 |

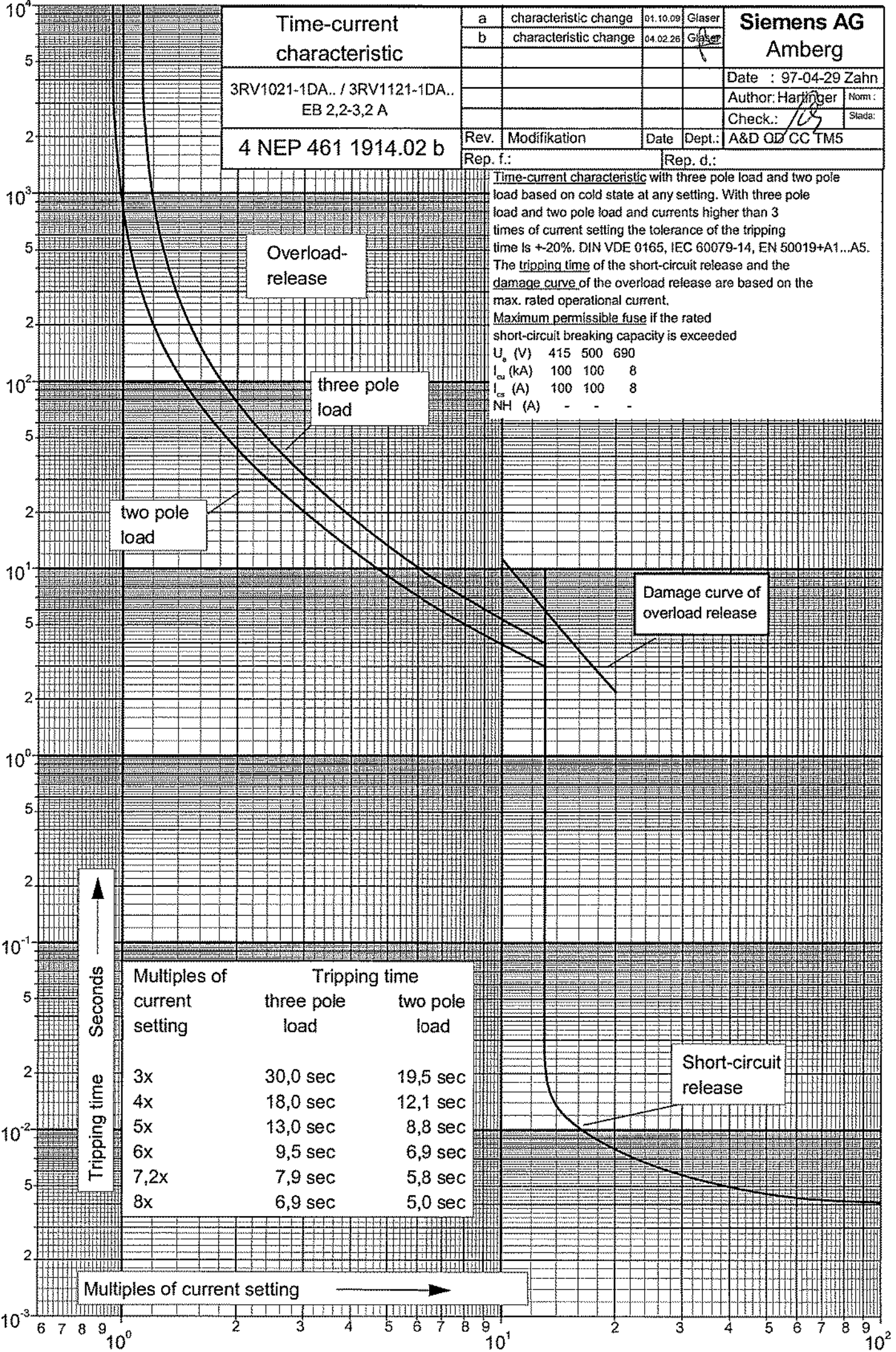
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| | | | | | |
|---|---|-----------------------|----------|--------|-------------------------|
| Time-current characteristic | a | characteristic change | 01.10.09 | Glaser | Siemens AG Amberg |
| | b | characteristic change | 04.02.26 | Glaser | |
| 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

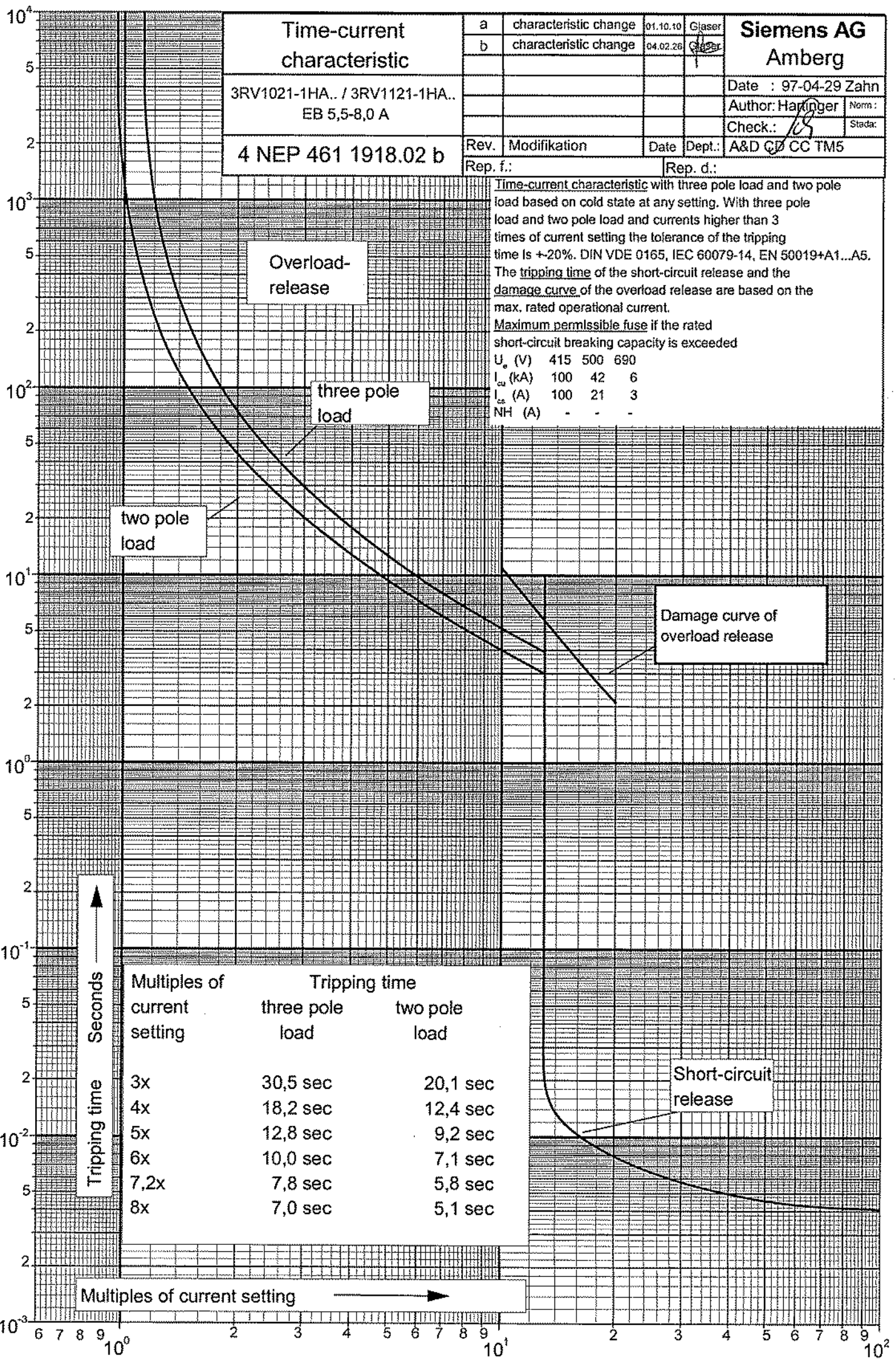
| | | | |
|----------------------|-----|-----|-----|
| U _o (V) | 415 | 500 | 690 |
| I _{cu} (kA) | 100 | 100 | 8 |
| I _{cs} (A) | 100 | 100 | 8 |
| NH (A) | - | - | - |



| 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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| | | | | | |
|---|---|-----------------------|----------|------------|------------------------|
| Time-current characteristic | a | characteristic change | 01.10.10 | Glaser | Siemens AG Amberg |
| | b | characteristic change | 04.02.26 | Glaser | |
| 3RV1021-1HA.. / 3RV1121-1HA.. EB 5,5-8,0 A | | | | | Date : 97-04-29 Zahn |
| 4 NEP 461 1918.02 b | | | | | Author: Haringer Norm: |
| Rev. Modifikation | | | Date | Dept.: A&D | 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_{cu} (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 | 30,5 sec | 20,1 sec |
| 4x | 18,2 sec | 12,4 sec |
| 5x | 12,8 sec | 9,2 sec |
| 6x | 10,0 sec | 7,1 sec |
| 7,2x | 7,8 sec | 5,8 sec |
| 8x | 7,0 sec | 5,1 sec |

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Siemens AG
Amberg

Time-current characteristic

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

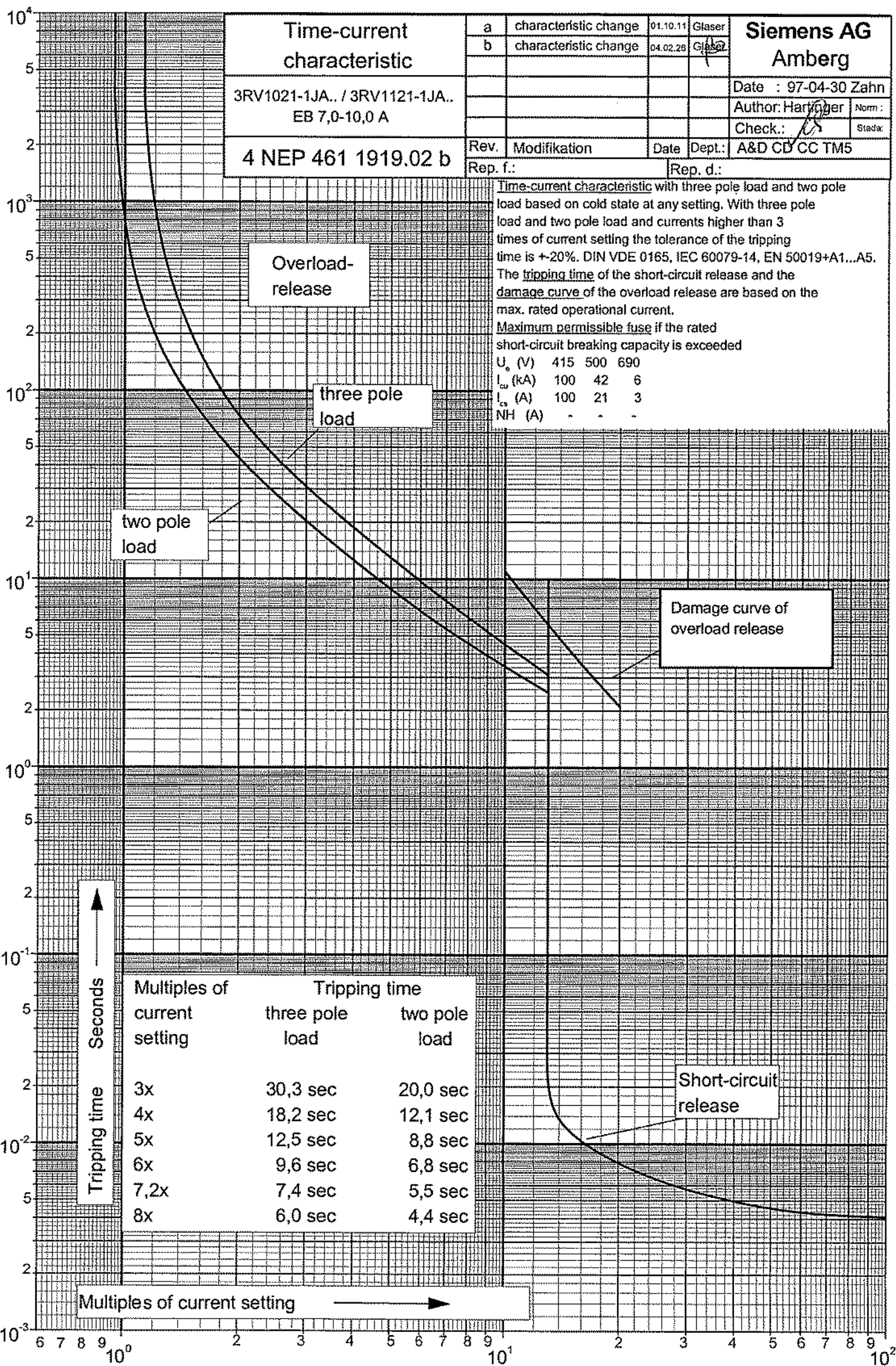
4 NEP 461 1919.02 b

| | | | |
|----------|-----------------------|----------|--------|
| 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

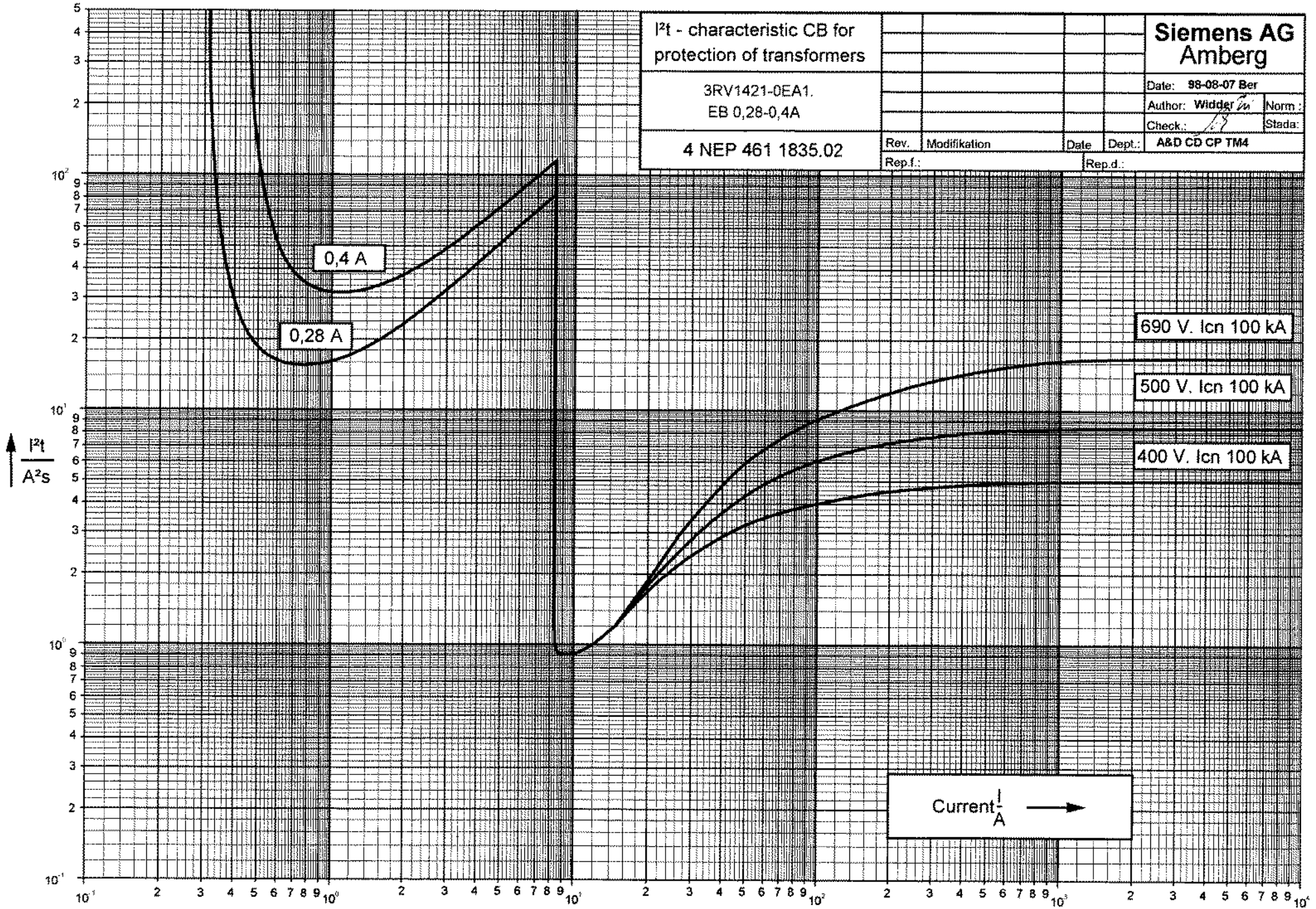
| | | | |
|----------------------|-----|-----|-----|
| U _o (V) | 415 | 500 | 690 |
| I _{sc} (kA) | 100 | 42 | 6 |
| I _{cs} (A) | 100 | 21 | 3 |
| NH (A) | - | - | - |



| 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 |

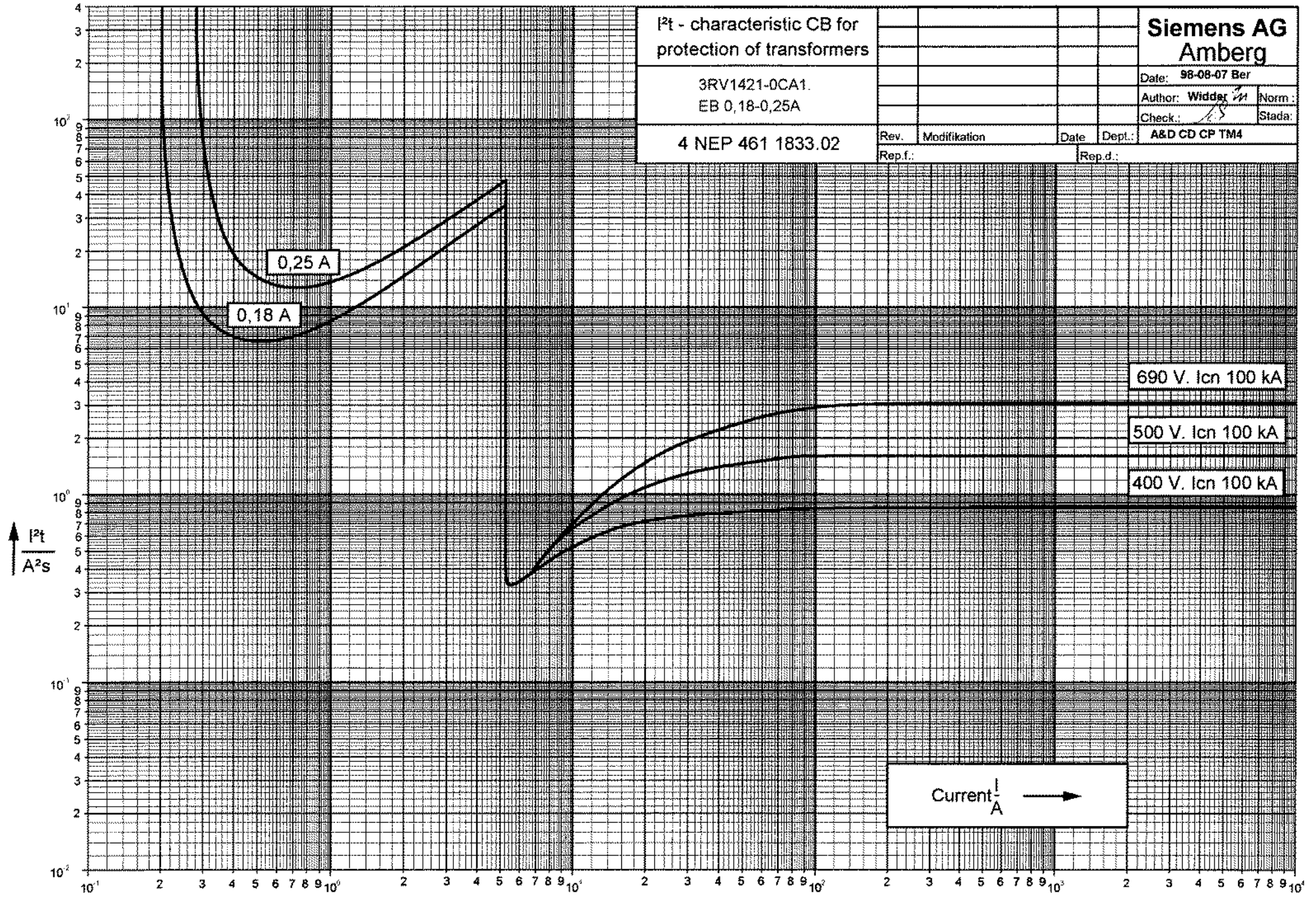
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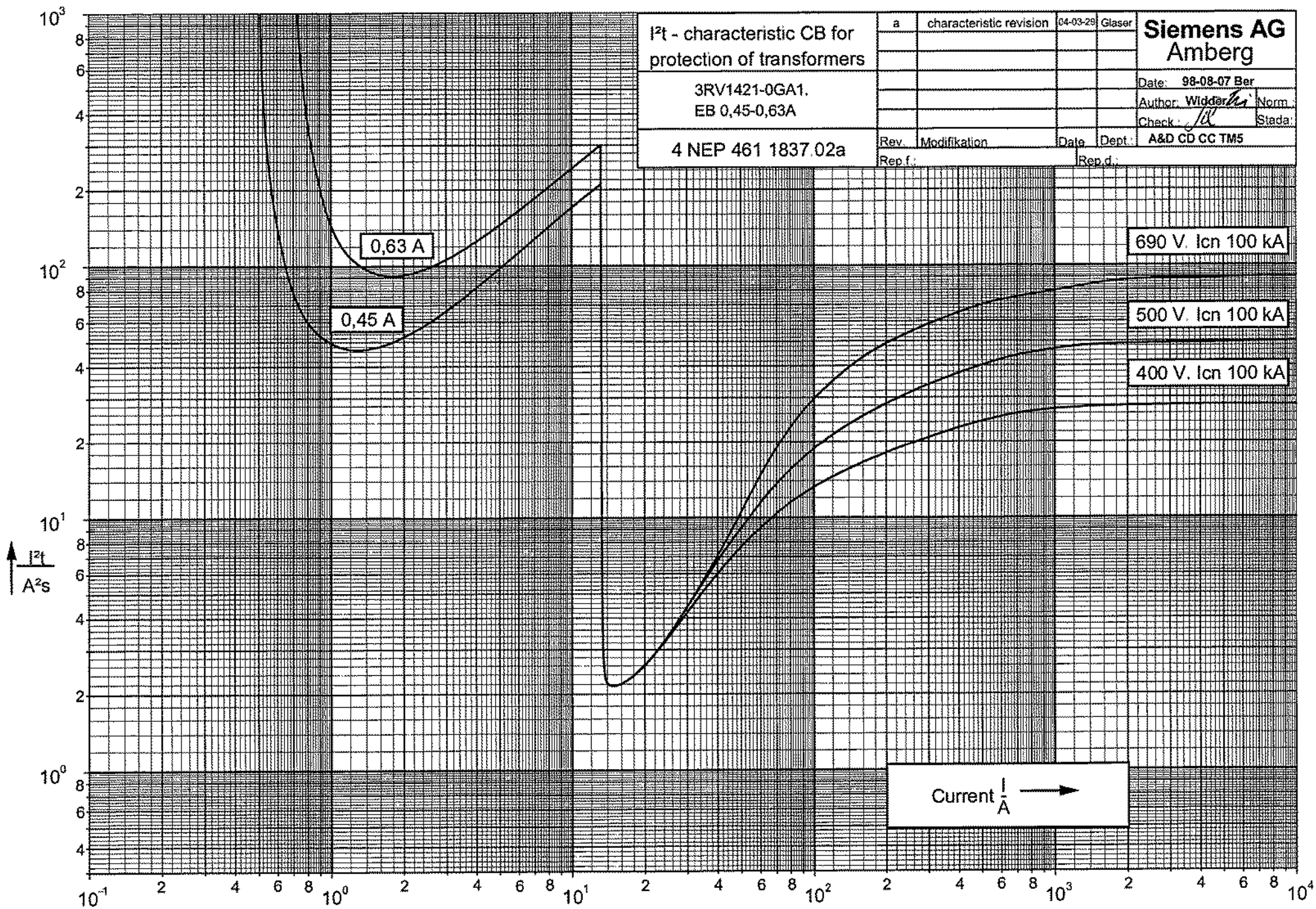
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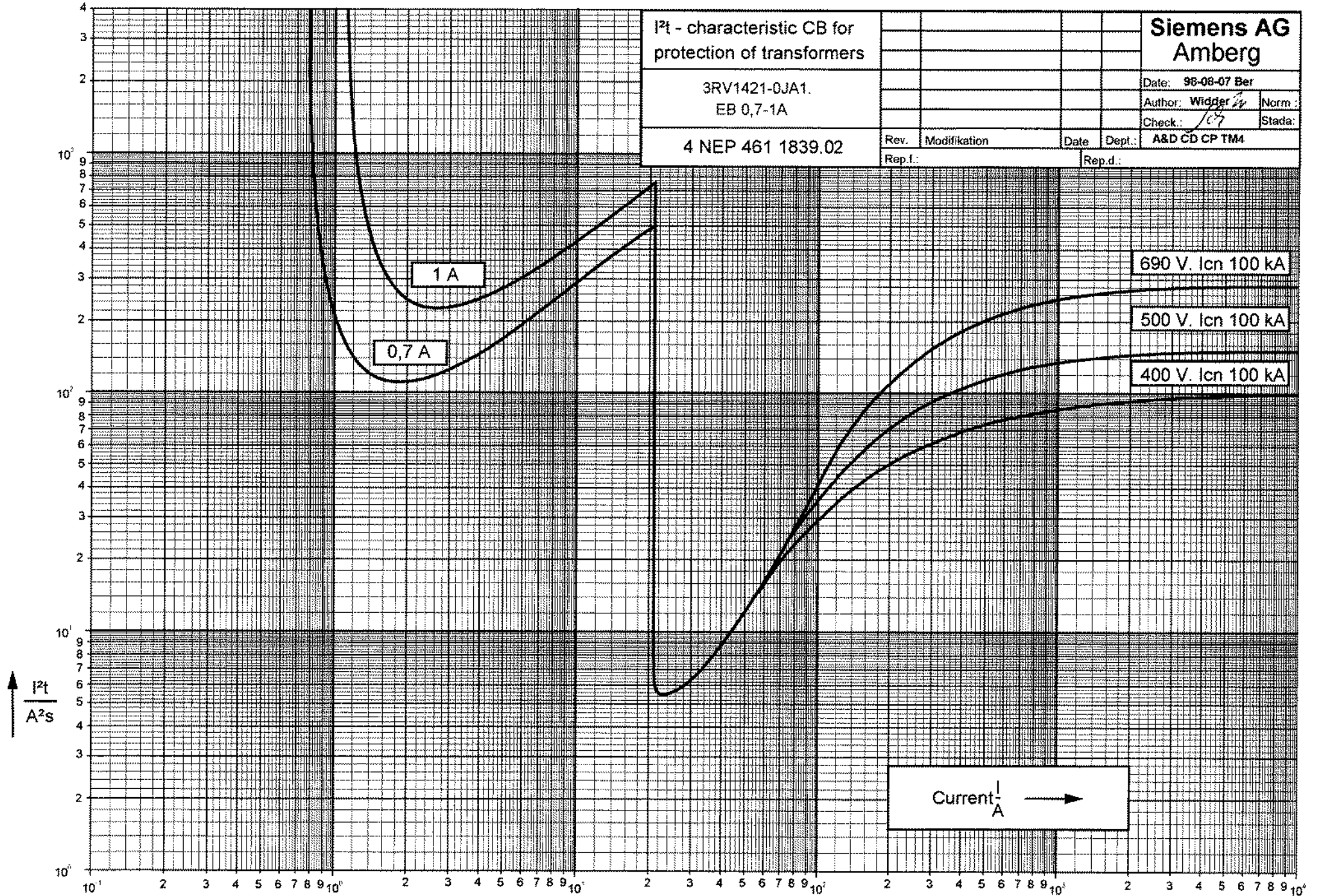


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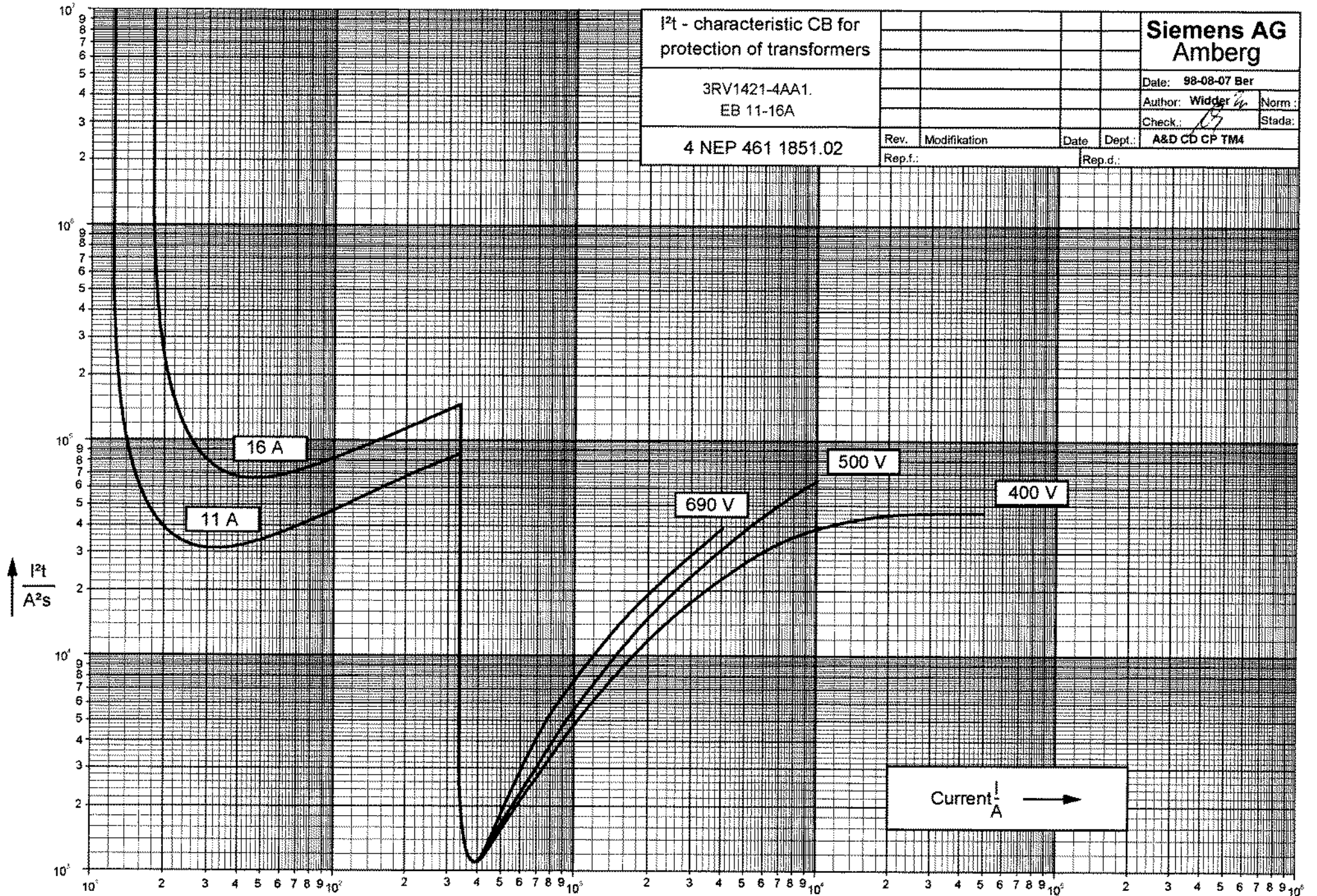






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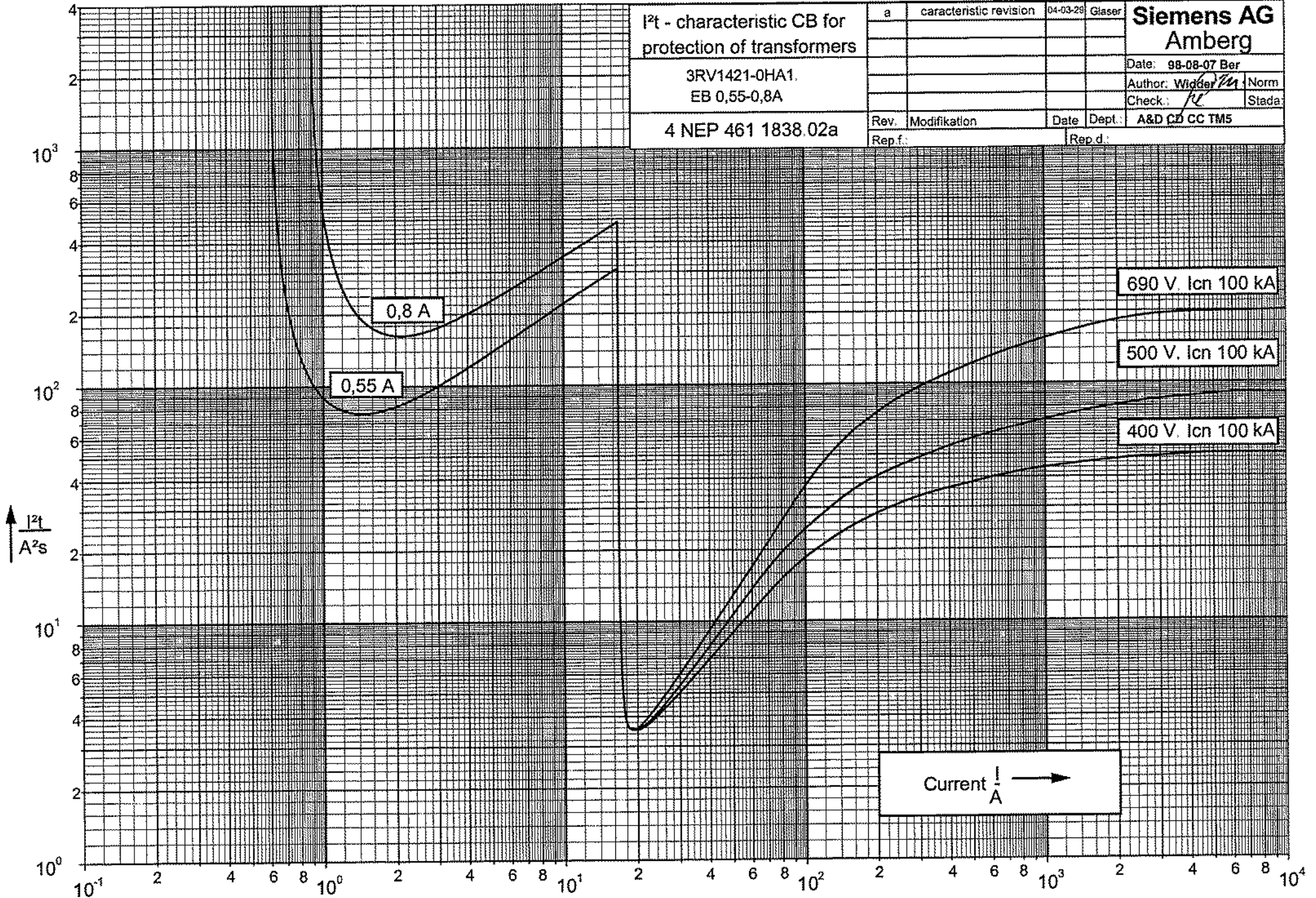


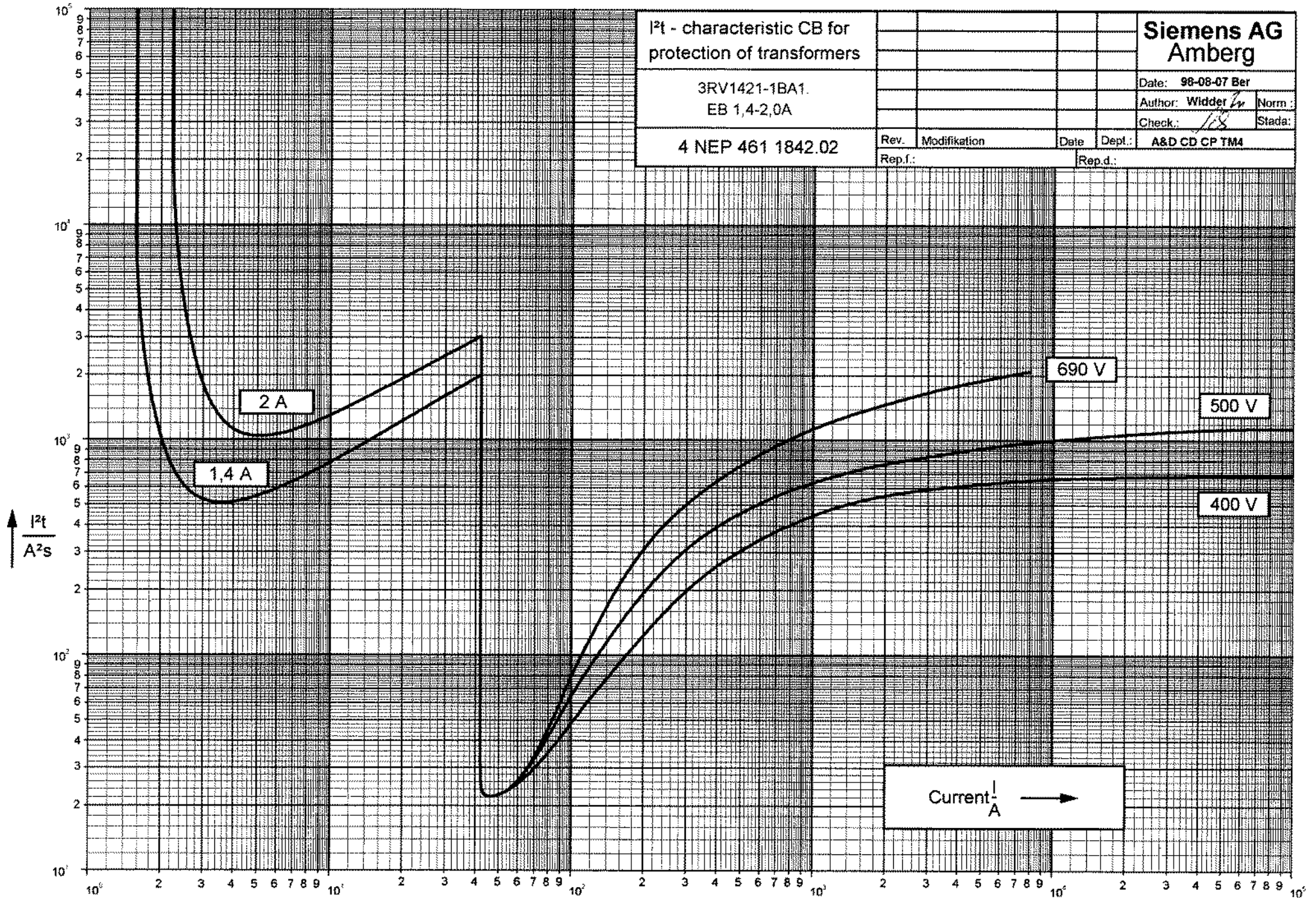
I²t - characteristic CB for protection of transformers

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

4 NEP 461 1838.02a

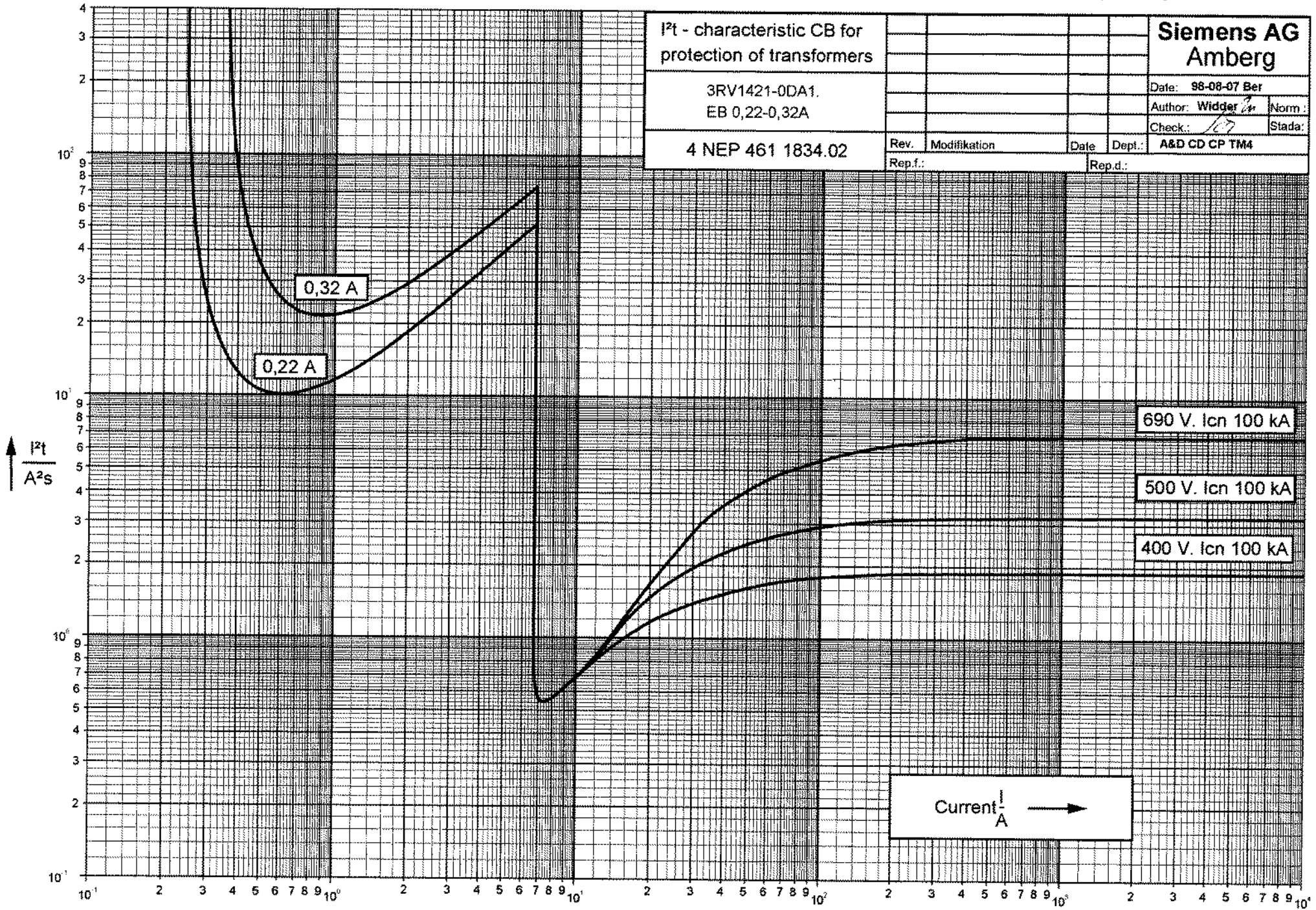
| | | | | |
|---------|-------------------------|----------|---------|------------------------------------|
| a | characteristic revision | 04-03-29 | Glaser | Siemens AG Amberg |
| | | | | |
| | | | | Date: 98-08-07 Ber |
| | | | | Author: <i>Wieder</i> Norm |
| | | | | Check: <i>ru</i> Stada |
| Rev.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





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I^2t - characteristic CB for protection of transformers

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

4 NEP 461 1834.02

Siemens AG
Amberg

Date: 98-06-07 Ber

Author: Widger

Check: 107

Dept.: A&D CD CP TM4

Rev. Modifikation

Date

Rep.d.

Rep.f.

690 V. Icn 100 kA

500 V. Icn 100 kA

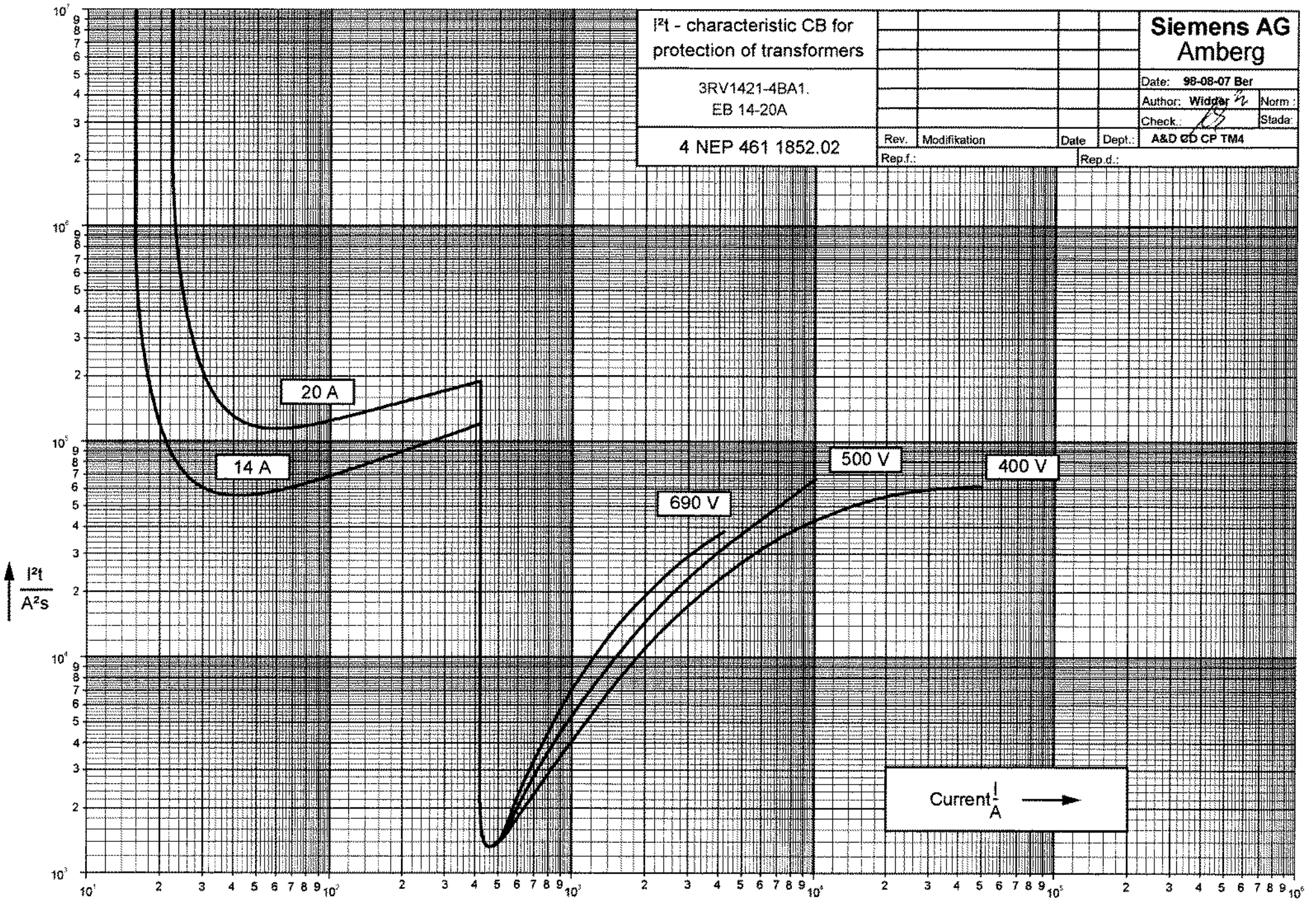
400 V. Icn 100 kA

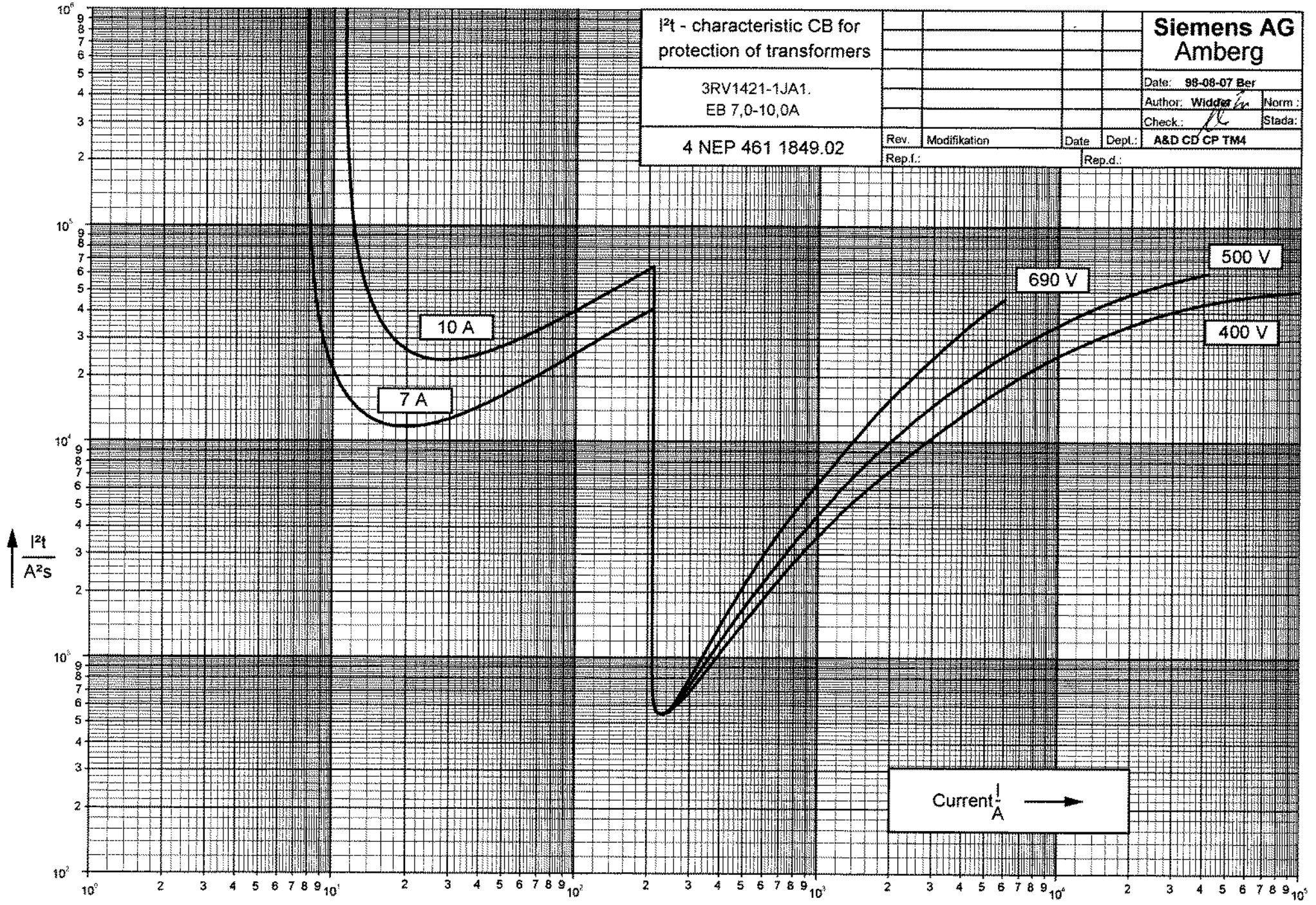
Current $\frac{I}{A}$ →

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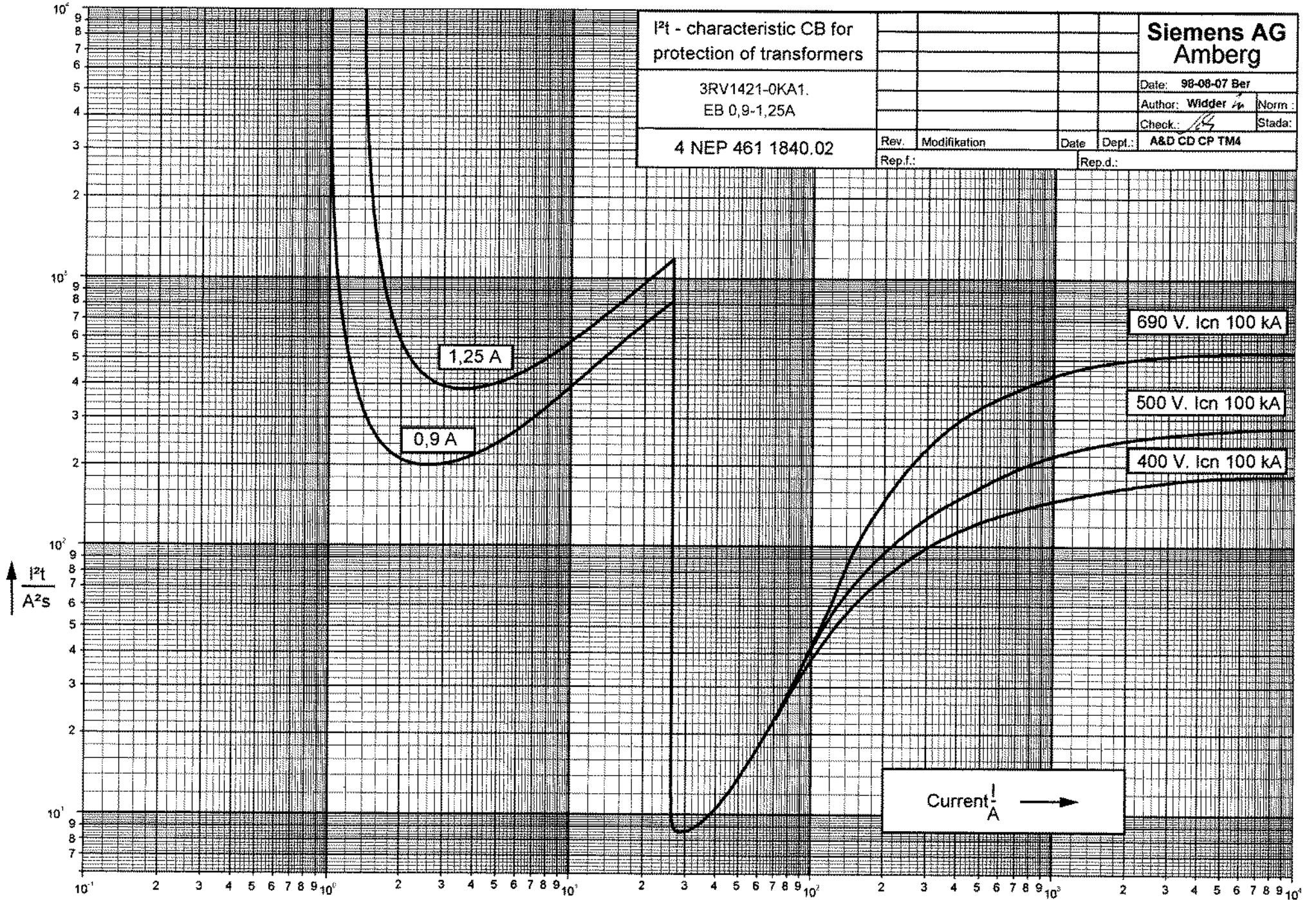
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|---|--------------|---------------------------|----------------------|
| I ² t - characteristic CB for protection of transformers | | Siemens AG Amberg | |
| 3RV1421-4BA1 EB 14-20A | | Date: 98-08-07 Ber | Norm: |
| 4 NEP 461 1852.02 | | Check: <i>[Signature]</i> | Stade: |
| Rev. | Modifikation | Date | Dept.: A&D ED CP TM4 |
| Rep.f.: | | Rep.d.: | |





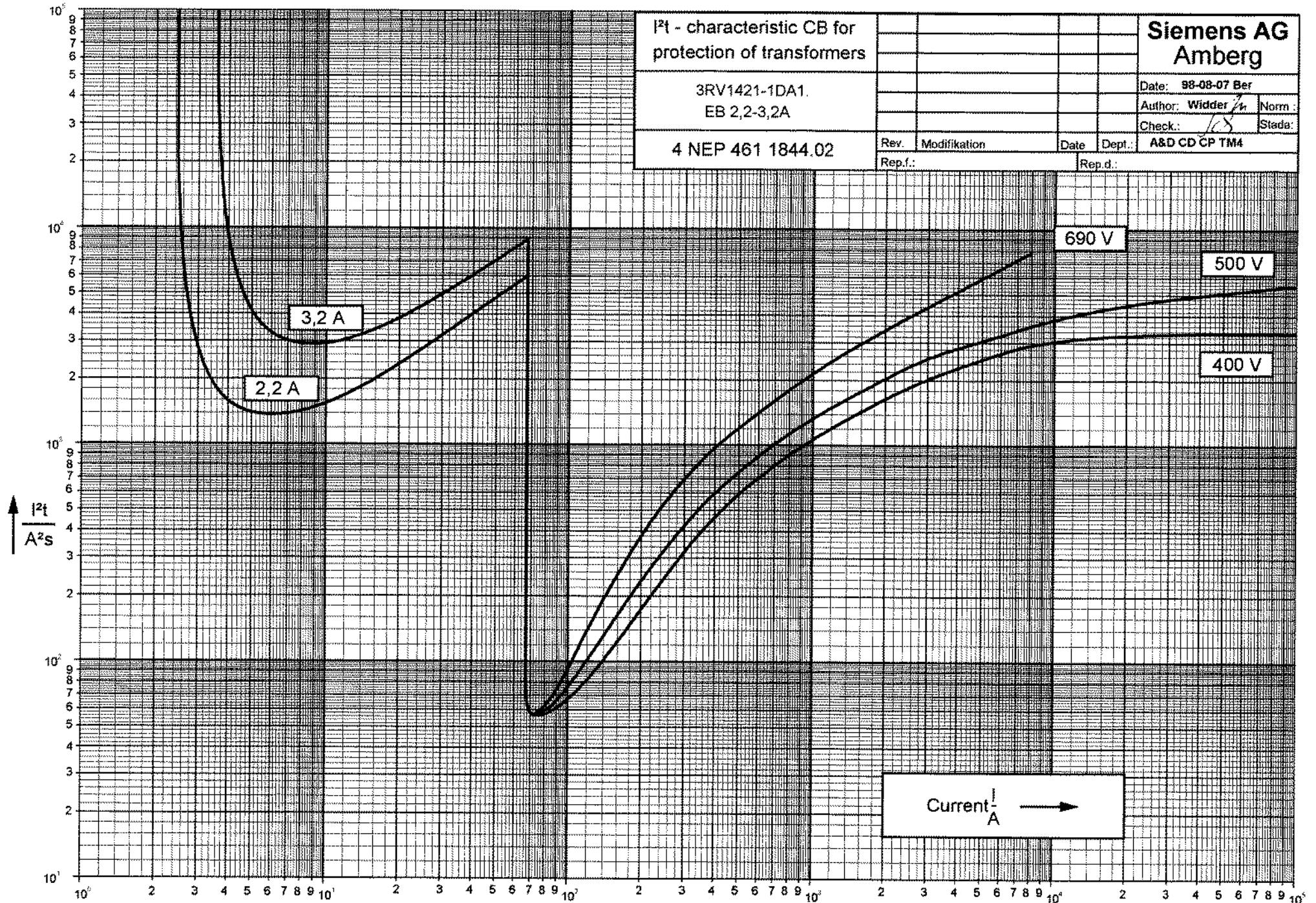
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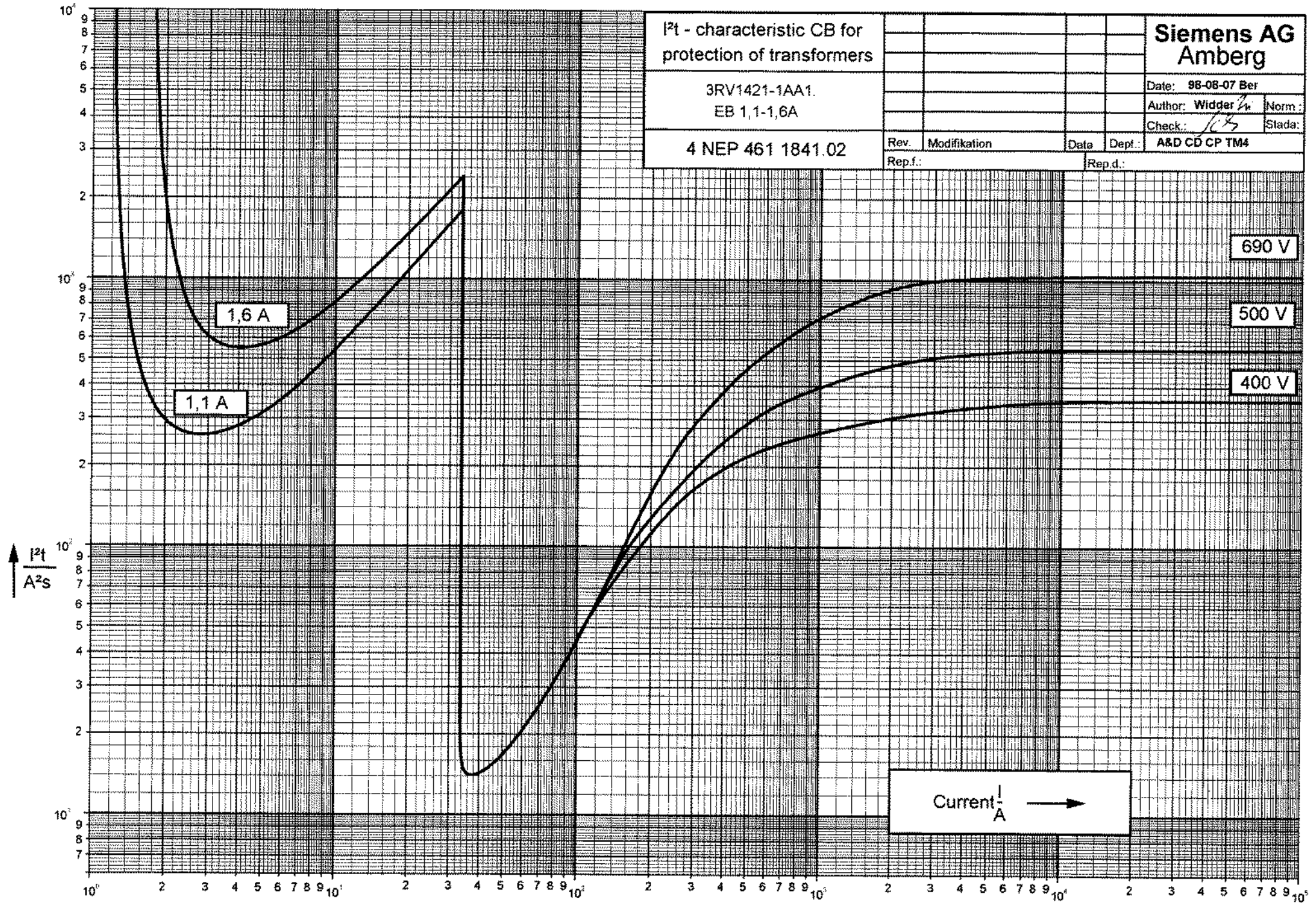
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I^2t - characteristic CB for protection of transformers

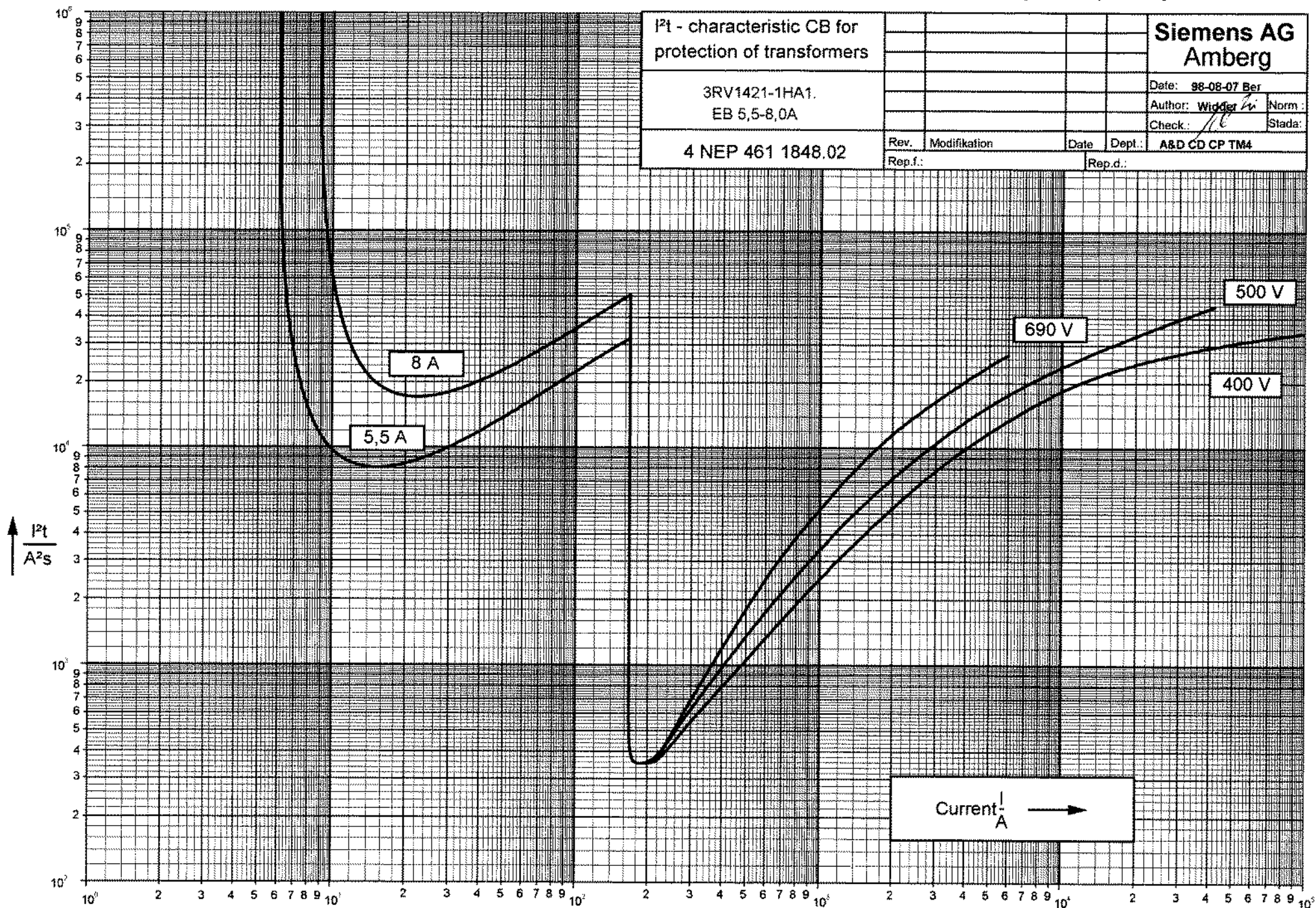
3RV1421-1HA1.
EB 5,5-8,0A

4 NEP 461 1848.02

Siemens AG
Amberg

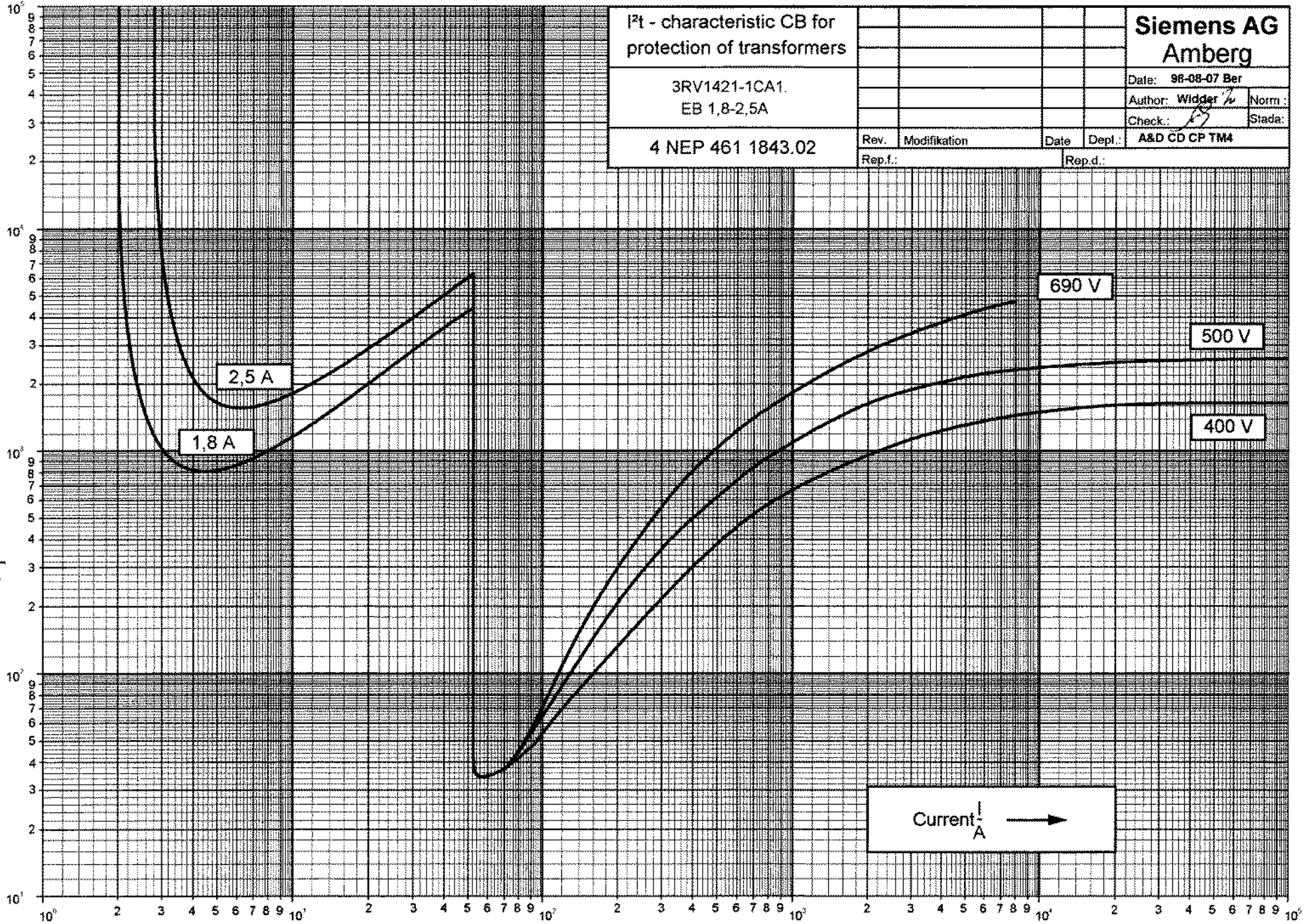
Date: 98-08-07 Ber
Author: Widger
Check: [Signature]
Norm:
Stada:

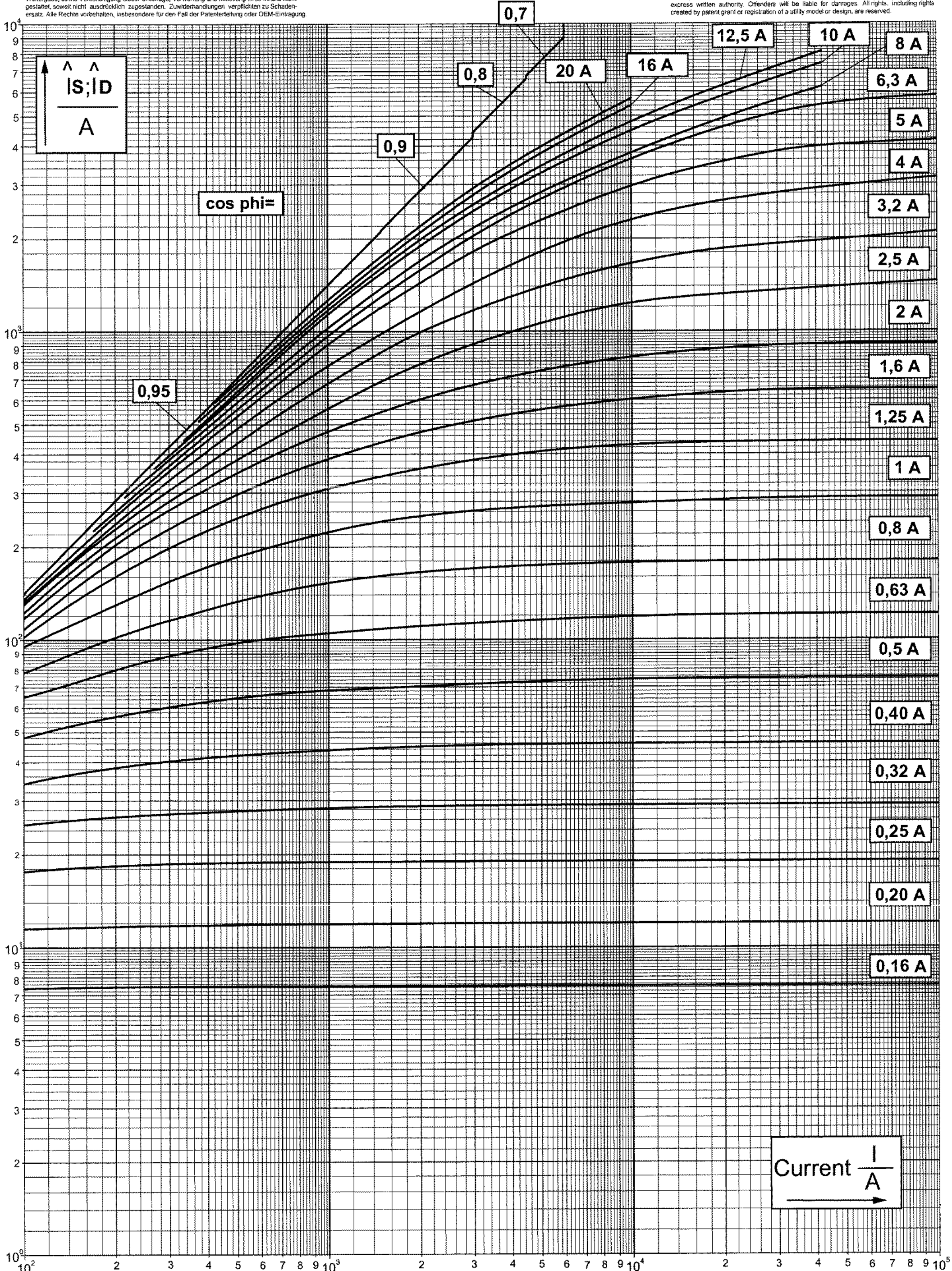
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| Rev. | Modifikation | Date | Dept.: | A&D CD CP TM4 |
| Rep.f.: | | | Rep.d.: | |



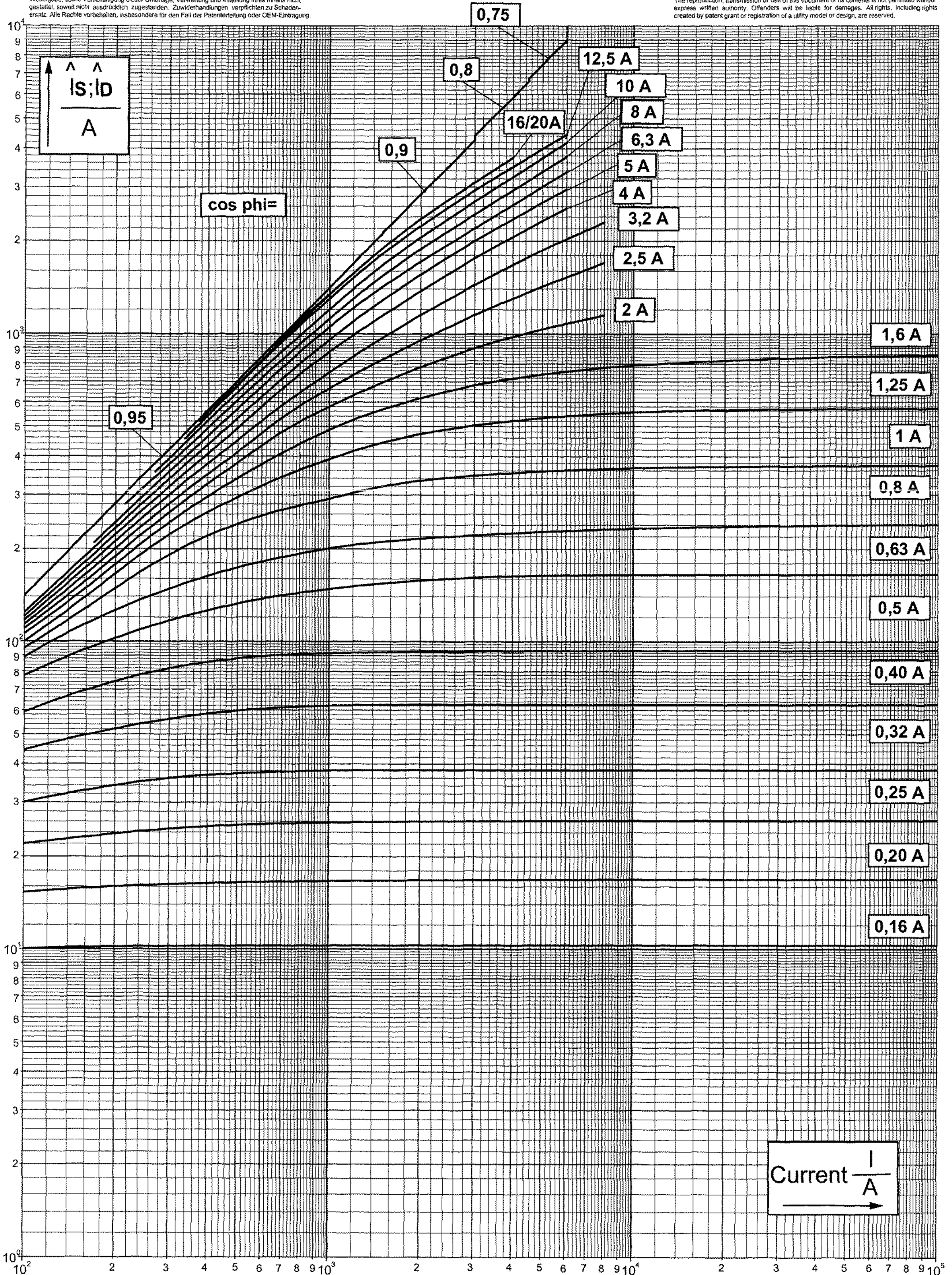
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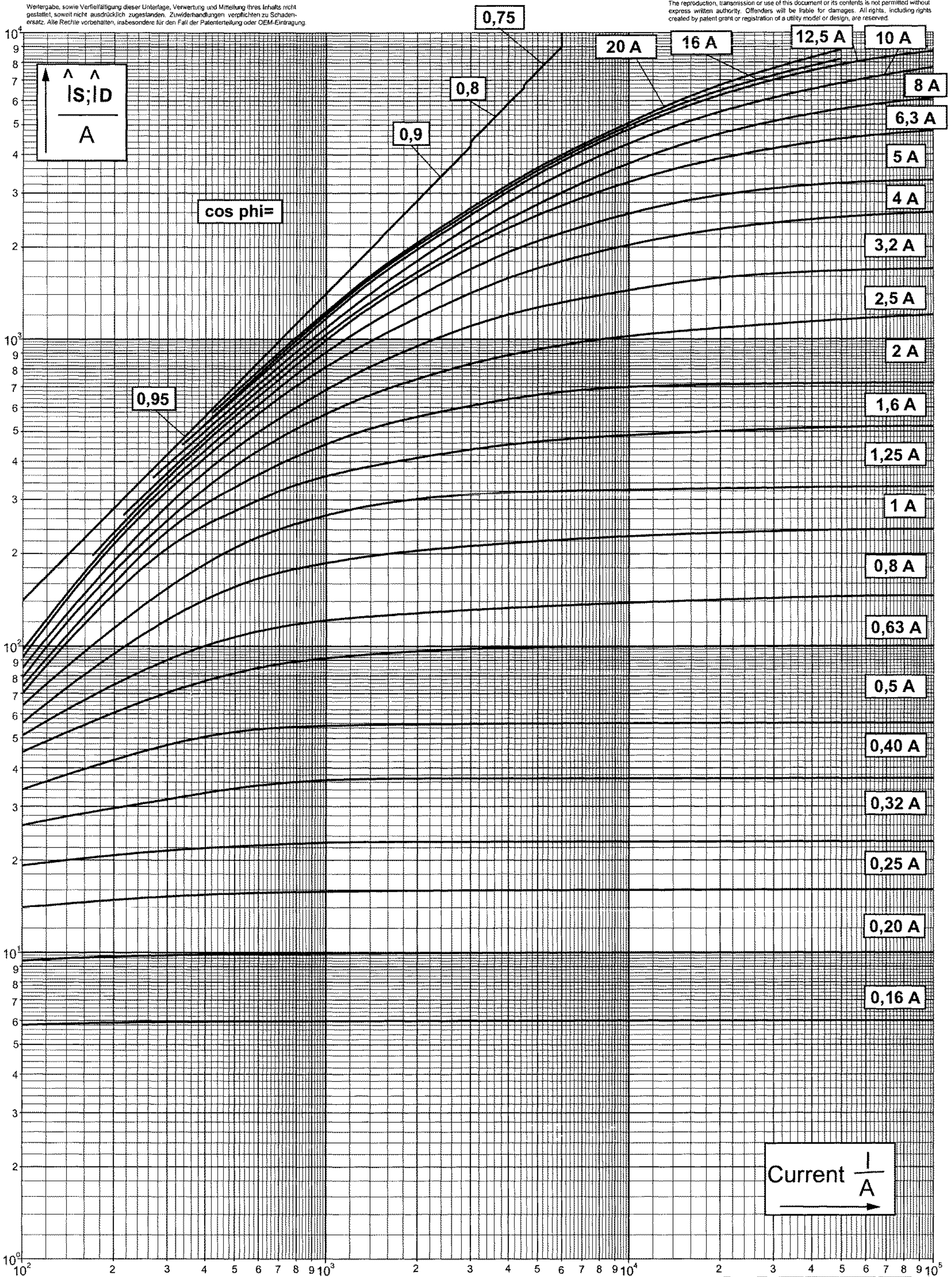




| | | | | | |
|--|--------------|---------|----------|-----------------------------|--|
| Current limiting characteristics Protection of transformers | | | | Siemens AG Amberg | |
| Circuitbreaker 3RV1421 Ue=500V~;lu/le=0,11...20A | | Date: | 01-10-26 | Glaser | |
| 3 NEP 461 1859.02 | | Author: | Wlöder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



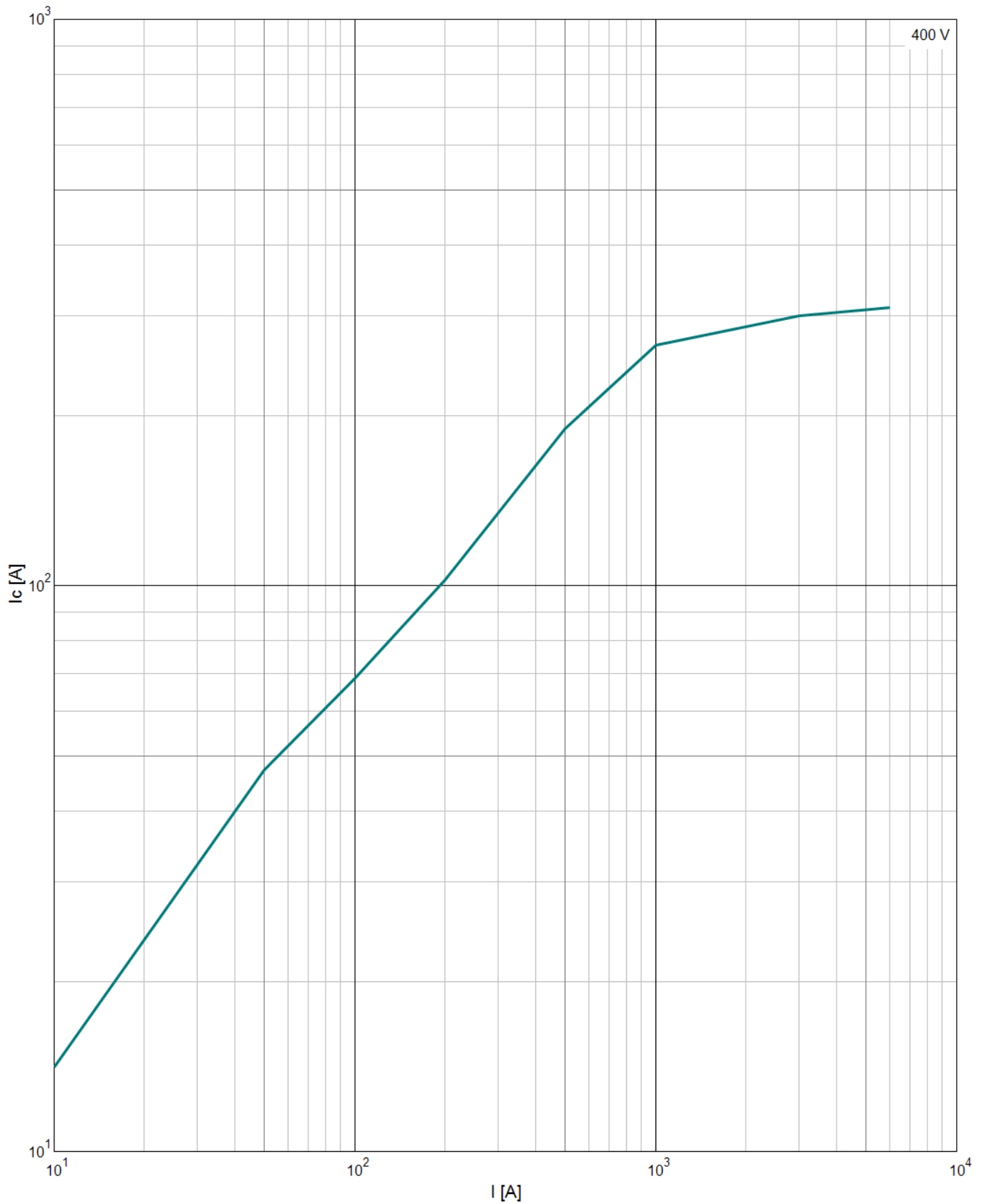
| | | | | | |
|--|--------------|--------|-------|-----------------------------|--------------|
| Current limiting characteristics Protection of transformers | | | | Siemens AG Amberg | |
| Circuitbreaker 3RV1421 Ue=690V~;Iu/Ie=0,11...20A | | | | Date: 01-10-26 Glaser | Norm: |
| 3 NEP 461 1860.02 | | | | 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 |

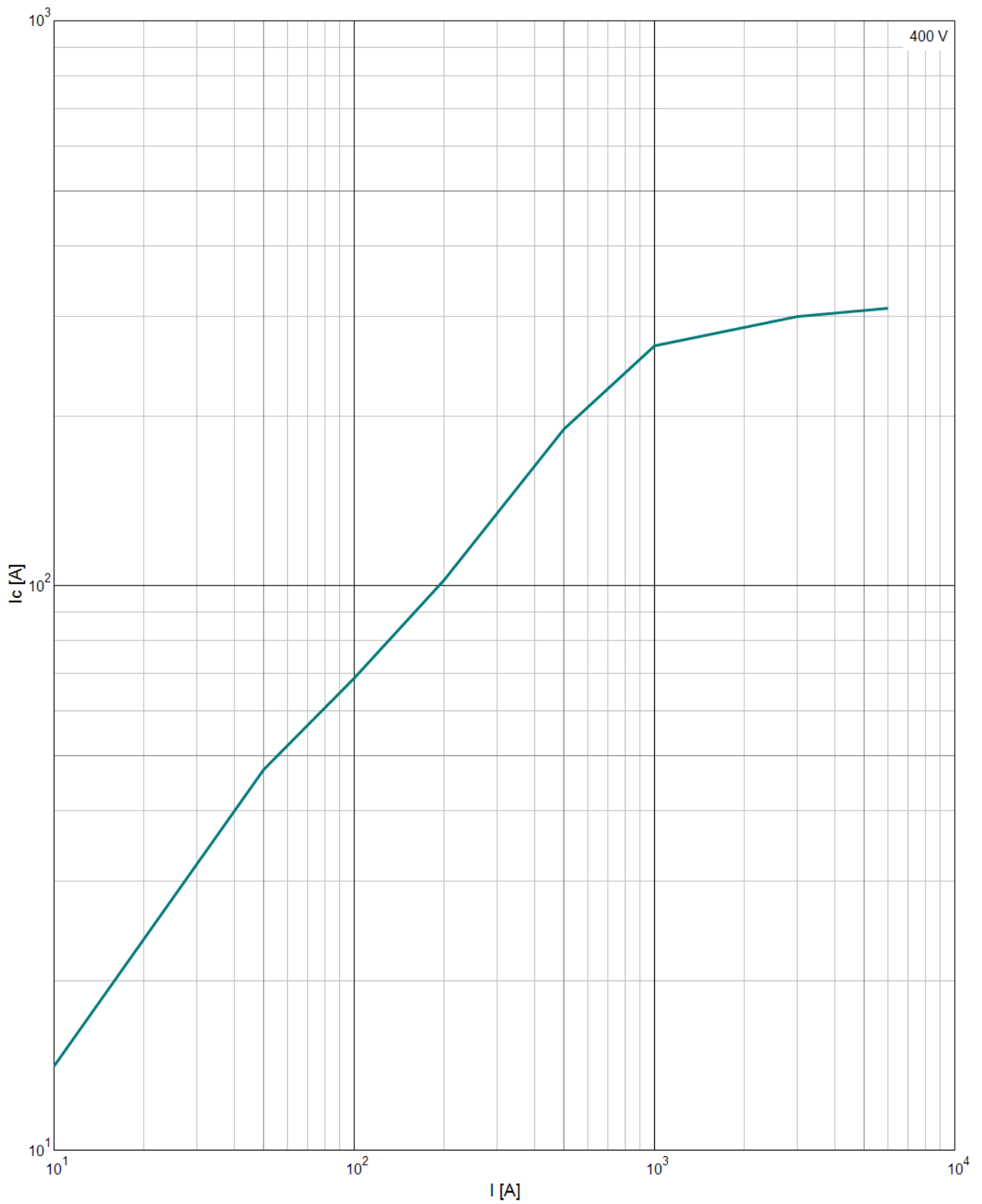
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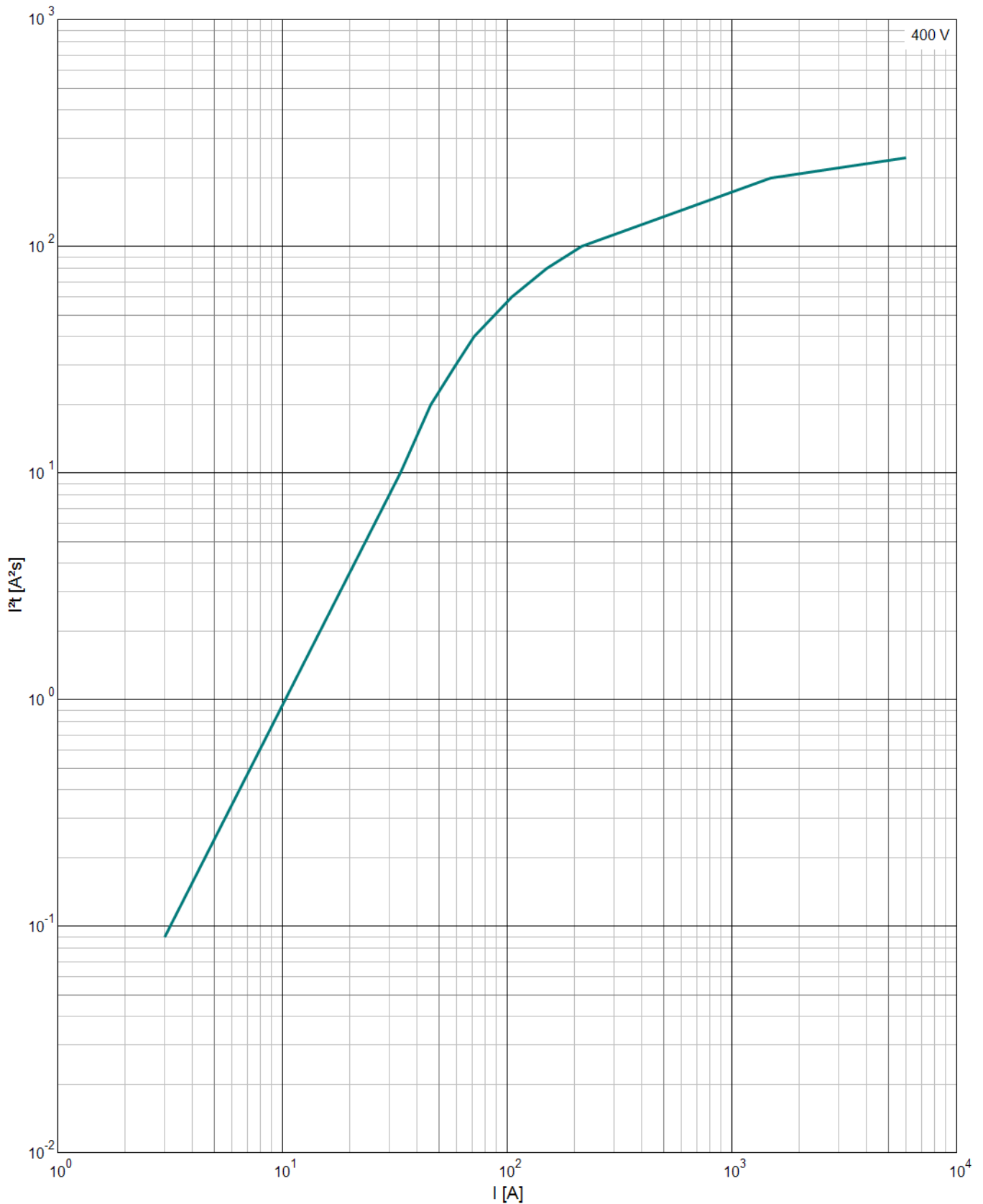
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Durchlassenergiekennlinie bei 400 V / 50 Hz

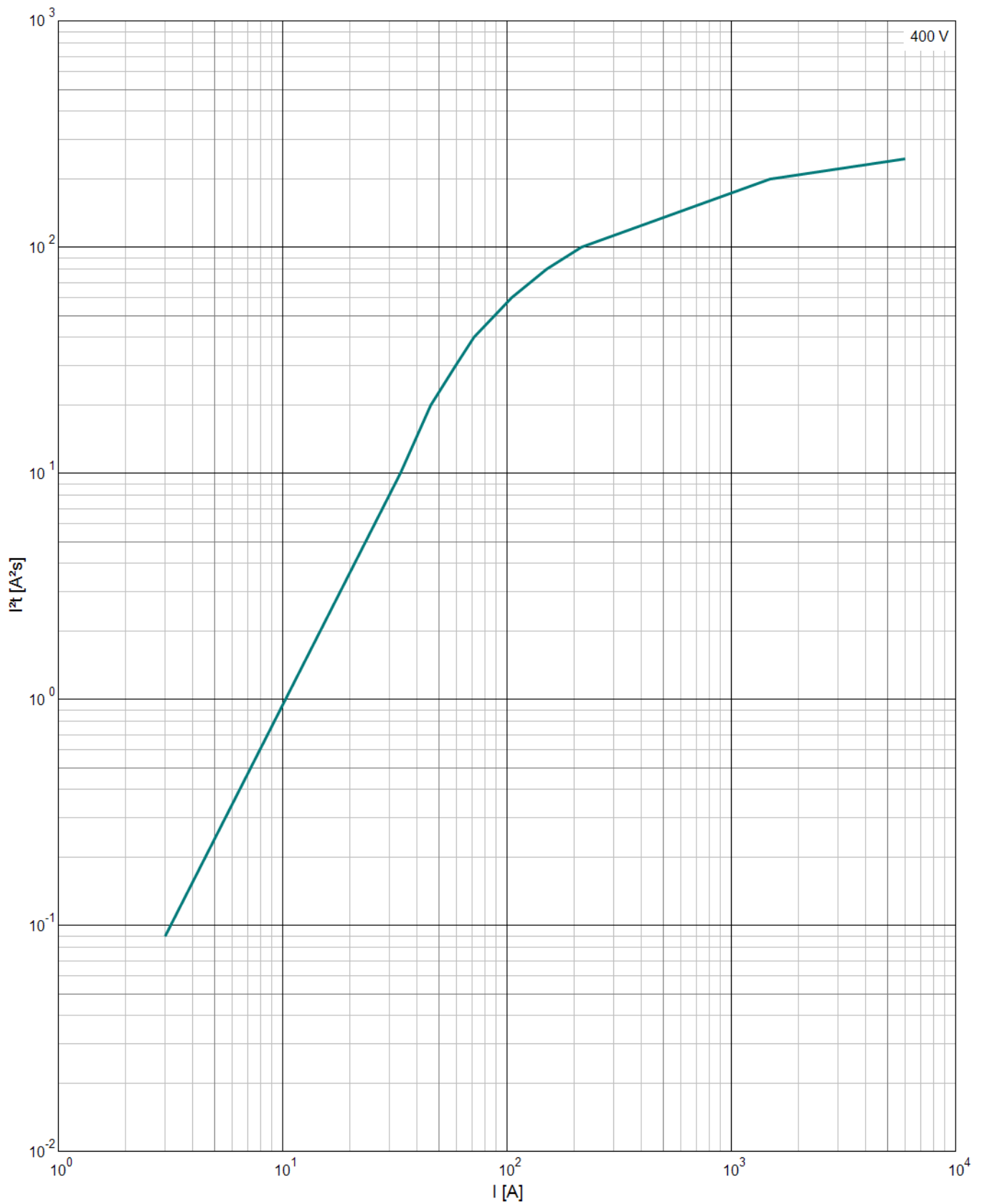
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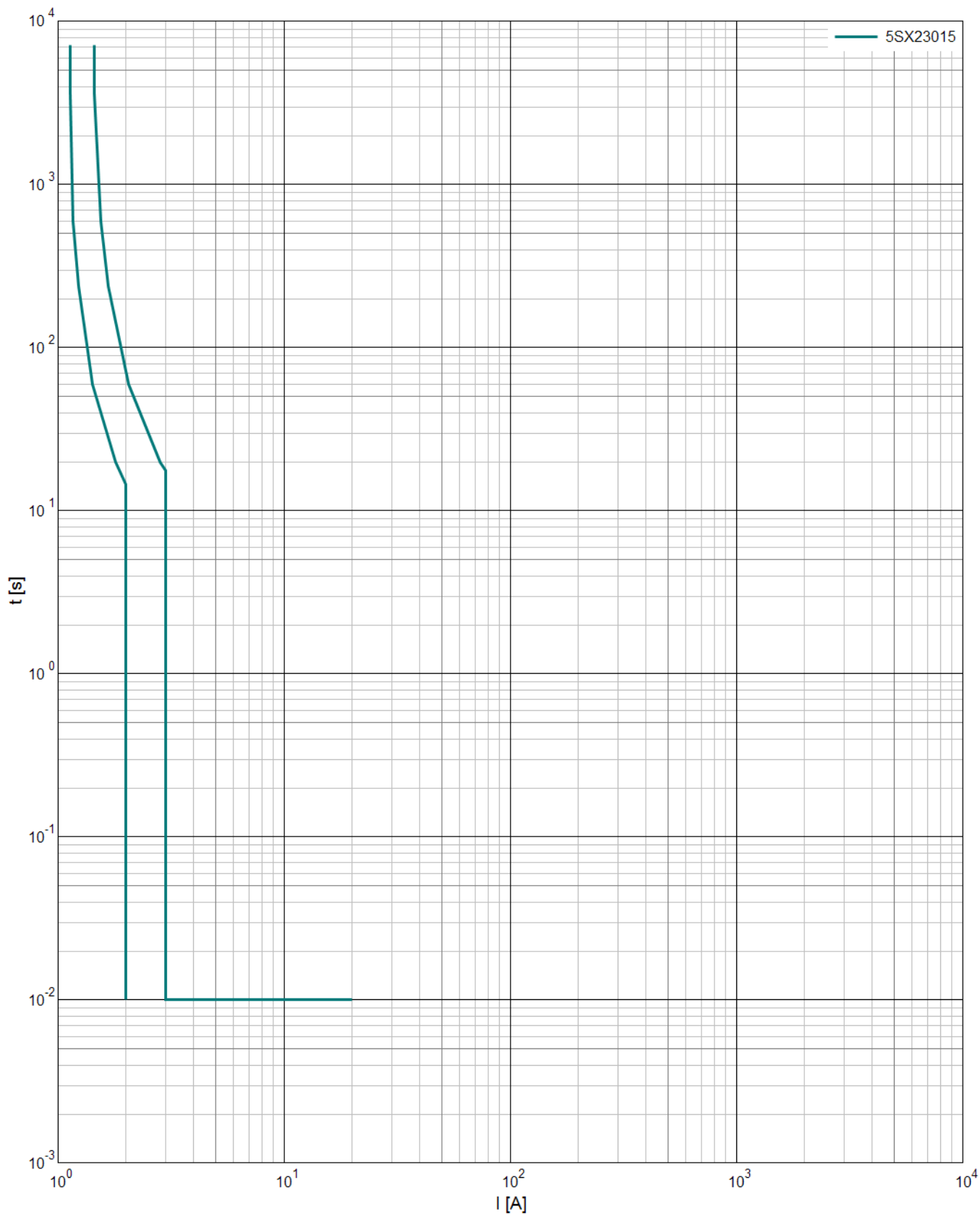
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