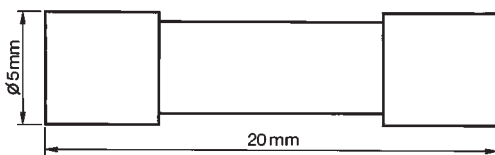

CONTENTS

- Range 1
- Dimensions 1
- Consumption 1
- Reference standards 1
- Current limiting curves 2
- Thermal stress curves 2 to 5

5 x 20 mm
 F type (fast-acting)
 High breaking capacity (H symbol) up to 6.3 A
 Ceramic body
 Nickel-plated brass end pieces

1. RANGE

| Rating | Cat. Nos. | Breaking capacity | Rated voltage |
|--------|-----------|-------------------|---------------|
| 200 mA | 102 02 | 1500 A | 250 V~ |
| 500 mA | 102 05 | | |
| 630 mA | 102 06 | | |
| 1 A | 102 10 | | |
| 1.25 A | 102 12 | | |
| 1.6 A | 102 16 | | |
| 2 A | 102 20 | | |
| 2.5 A | 102 25 | | |
| 3.15 A | 102 30 | | |
| 5 A | 102 50 | | |
| 6.3 A | 102 63 | 500 A | 250 V~ |
| 10 A | 102 96 | | |

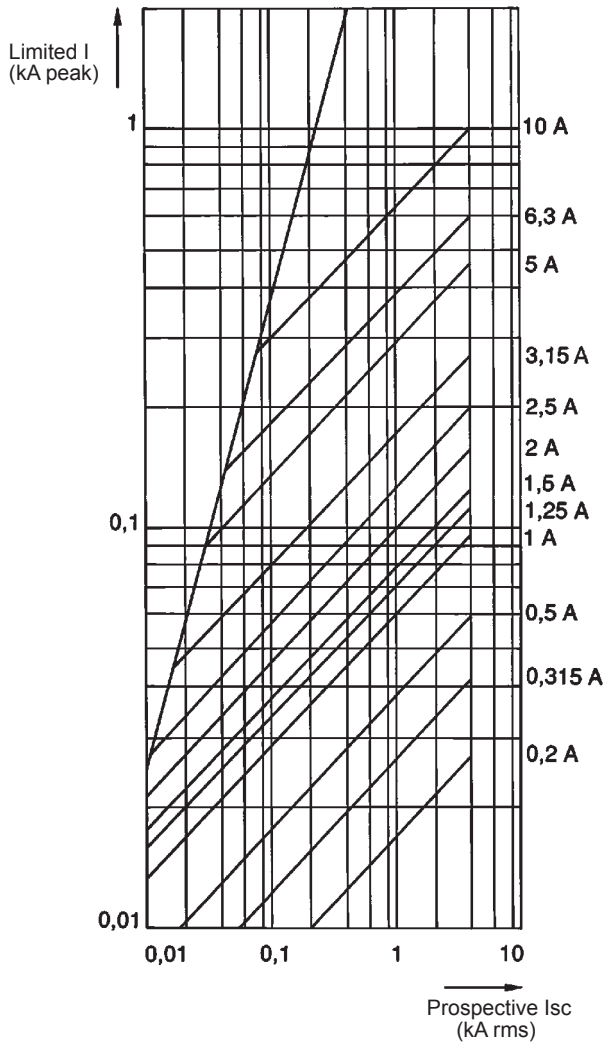
2. DIMENSIONS

3. CONSUMPTION

| | | | | | | | | | | | | |
|------|------|-----|-----|-----|------|-----|-----|-----|------|-----|-----|-----|
| I mA | 200 | 500 | 630 | 1 | 1.25 | 1.6 | 2 | 2.5 | 3.15 | 5 | 6 | 10 |
| I A | | | | 0.7 | 1.2 | 1.3 | 1.4 | 1.7 | 2.2 | 2.8 | 3.2 | 4.6 |
| P(w) | 1.35 | 0.3 | 0.6 | | | | | | | | | |

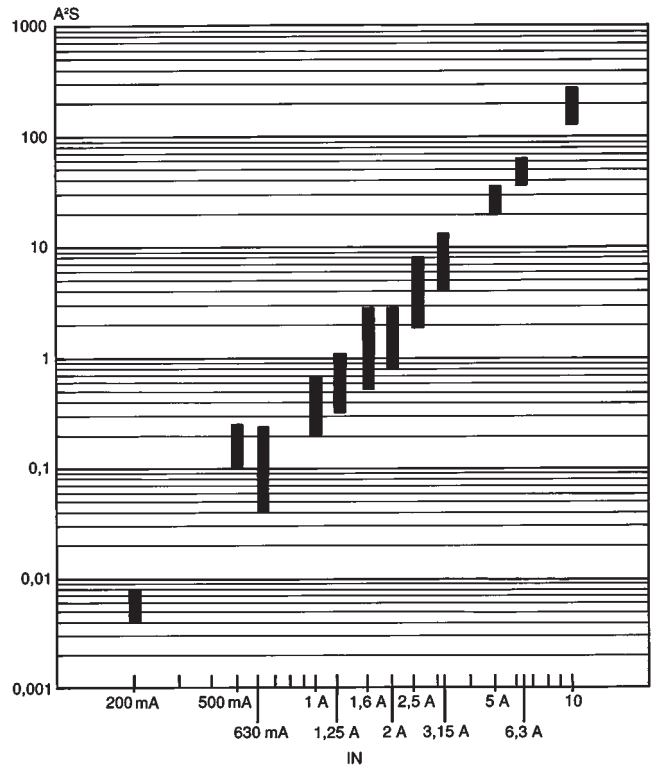
4. REFERENCE STANDARDS

- 4.1 200 mA to 6.3 A ratings:
 IEC 127-2
 NF EN 60-127-2 (NF C 60-431)
 VDE 0820-1
 DIN 41660
- 4.2 10 A rating
 DIN 41660

5. CURRENT LIMITING CURVES

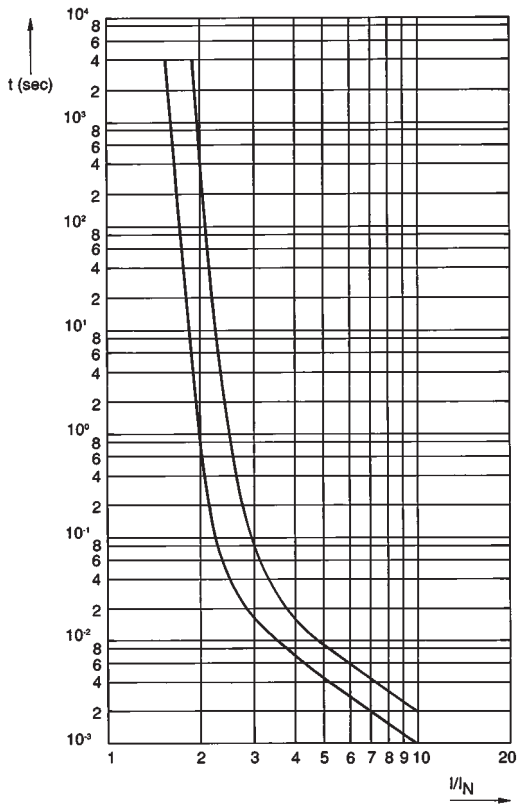


6. THERMAL STRESS CURVES

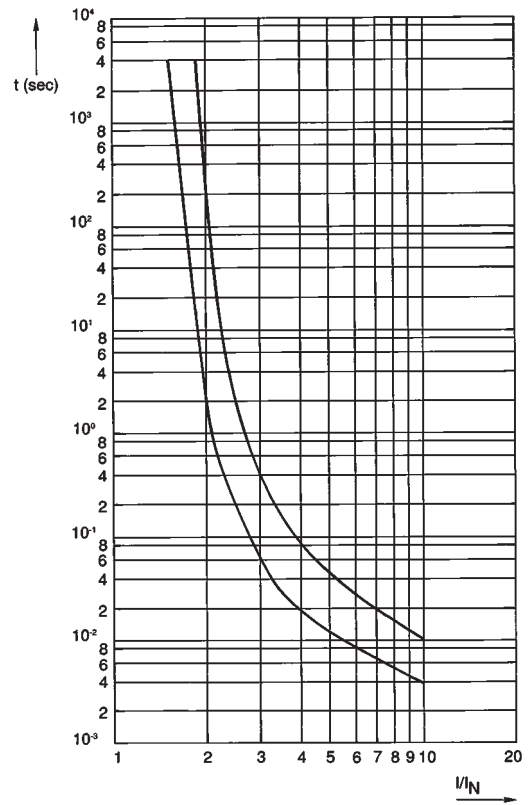


6. THERMAL STRESS CURVES

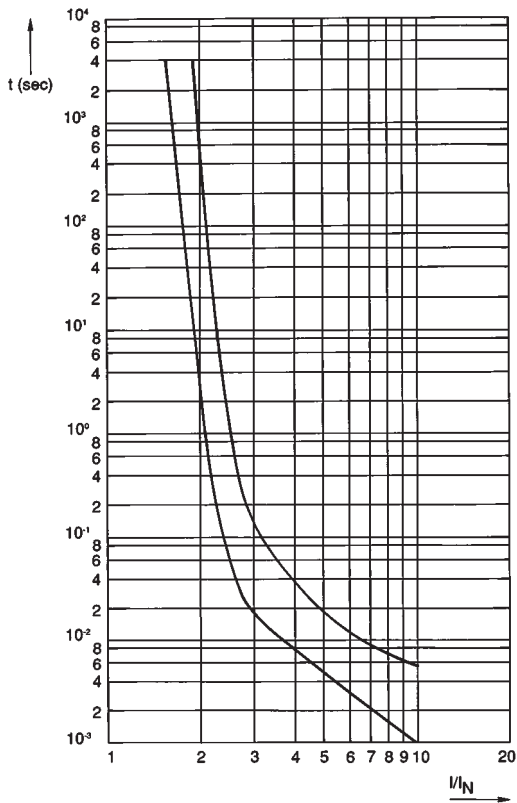
200 mA



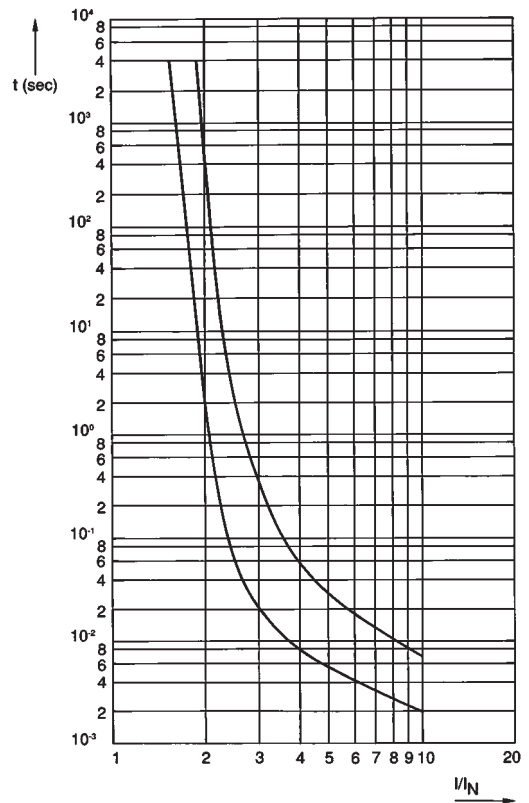
500 mA



630 mA

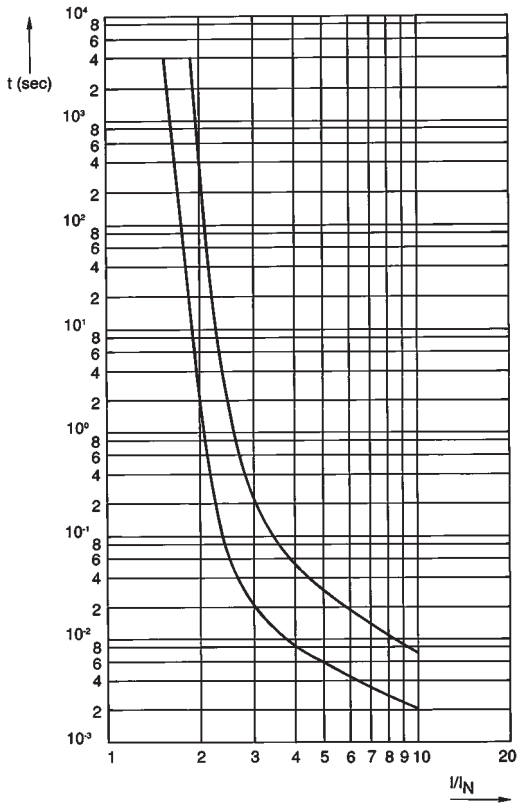


1 A

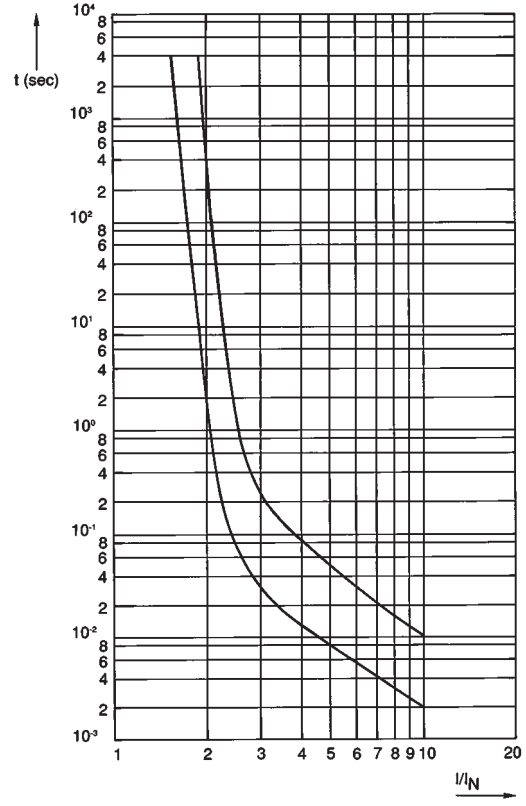


6. THERMAL STRESS CURVES

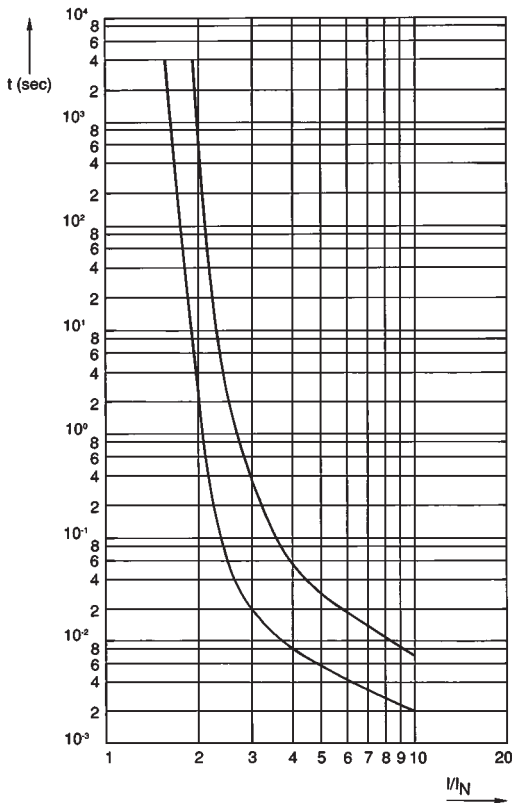
1,25 A



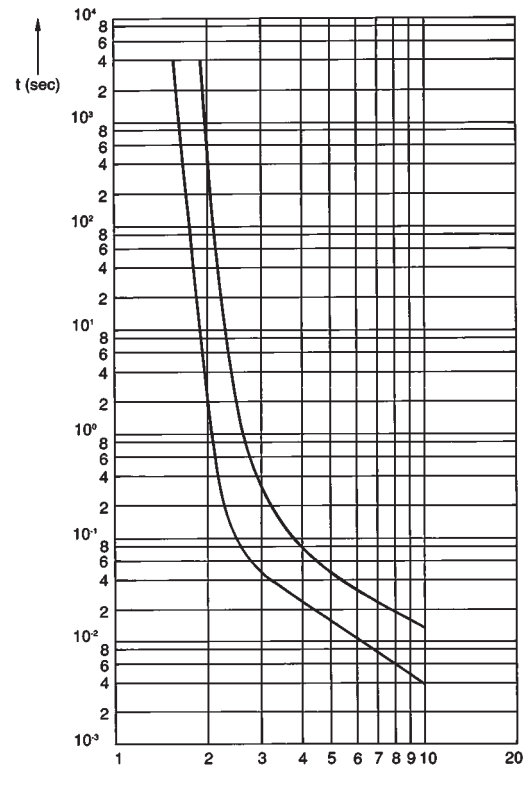
1,6 A



2 A

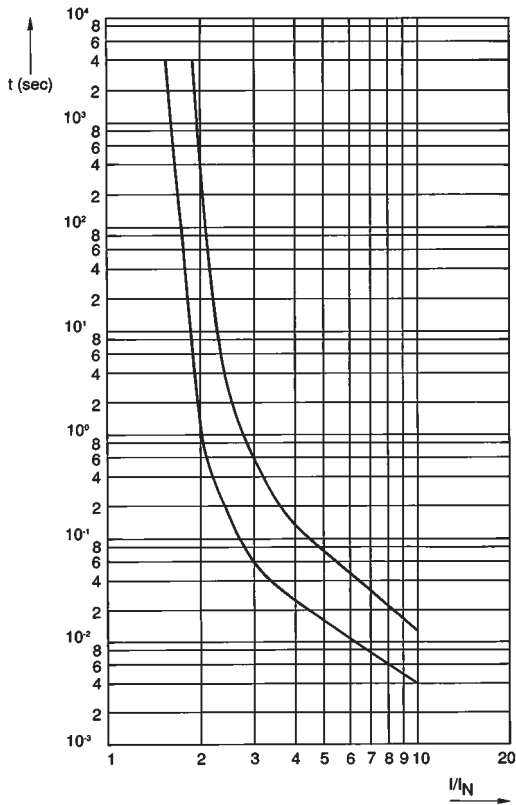


2,5 A

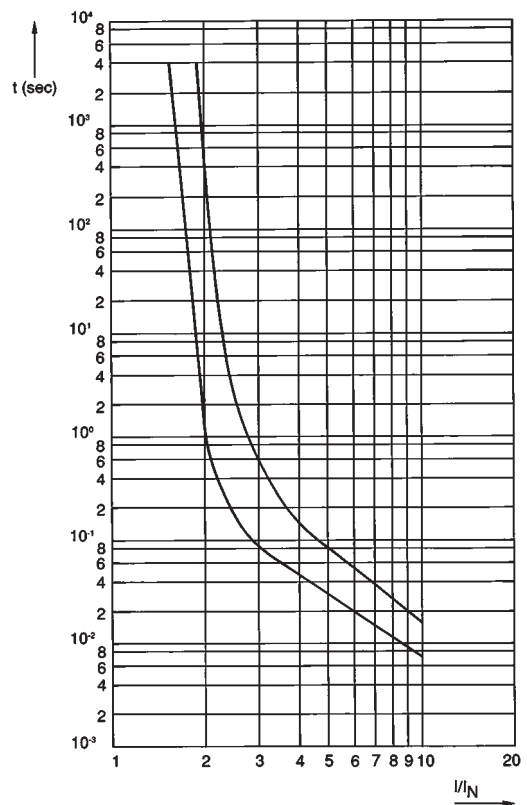


6. THERMAL STRESS CURVES

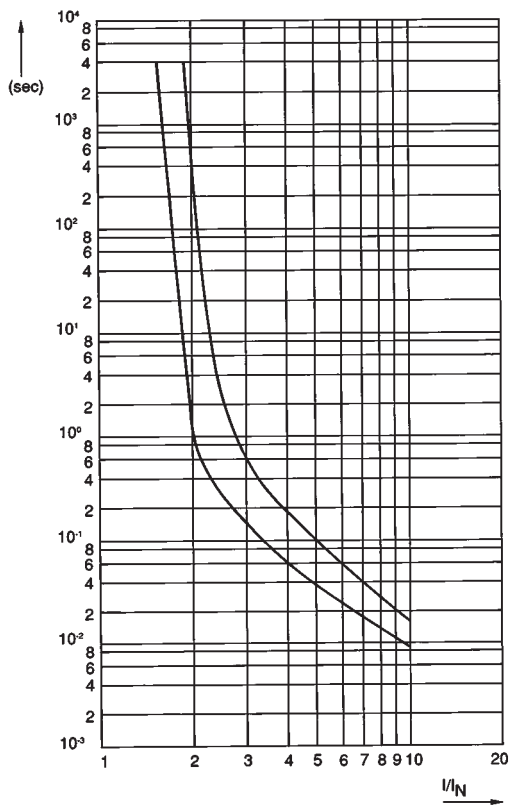
5 A



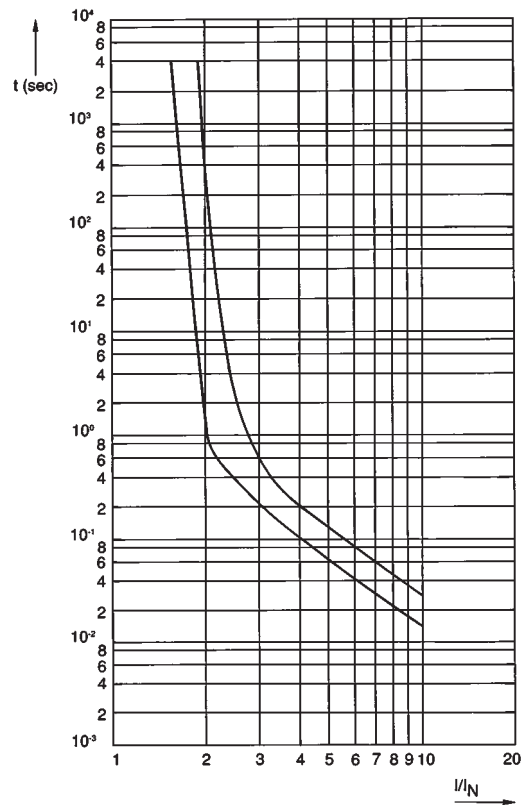
5 A

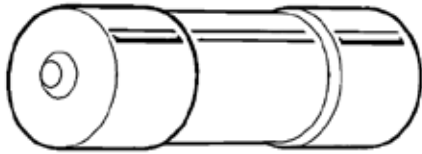


6,3 A



10 A





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| 1. Description and use..... | 1 |
| 2. Range and characteristics..... | 1 |
| 3. Neutrals..... | 2 |
| 4. Reference standards and directives..... | 2 |
| 5. Device selection..... | 3 |
| 6. Limitation curves..... | 3 |
| 7. Melting curves..... | 6 |
| 8. Thermal stress..... | 10 |

1. DESCRIPTION AND USE

Protects conductors in electrical circuits in the event of overloads or short-circuits.

Ceramic body and silver-plated copper end pieces.

2. RANGE AND CHARACTERISTICS

2.1 Rated currents

| Rating | 8 x 32 | | 10 x 38 HRC | | 14 x 51 HRC | | 22 x 58 HRC | |
|--------|-------------------|----------------|-------------------|----------------|-----------------|--------------|-------------------------|-------------------------|
| | Without indicator | With indicator | Without indicator | With indicator | Without striker | With striker | Without striker | With striker |
| 0.5 | | | 0 133 94 | | | | | |
| 1 | 0 123 01 | | 0 133 01 | | | | | |
| 2 | 0 123 02 | 0 124 02 | 0 133 02 | 0 134 02 | 0 143 02 | | | |
| 4 | 0 123 04 | 0 124 04 | 0 133 04 | 0 134 04 | 0 143 04 | 0 145 04 | | |
| 6 | 0 123 06 | 0 124 06 | 0 133 06 | 0 134 06 | 0 143 06 | 0 145 06 | | |
| 8 | 0 123 08 | 0 124 08 | 0 133 08 | 0 134 08 | | | | |
| 10 | 0 123 10 | 0 124 10 | 0 133 10 | 0 134 10 | 0 143 10 | 0 145 10 | 0 153 10 | 0 155 10 |
| 12 | 0 123 12 | 0 124 12 | 0 133 12 | 0 134 12 | | | | |
| 16 | 0 123 16 | 0 124 16 | 0 133 16 | 0 134 16 | 0 143 16 | 0 145 16 | 0 153 16 | 0 155 16 |
| 20 | | | 0 133 20 | 0 134 20 | 0 143 20 | 0 145 20 | 0 153 20 | 0 155 20 |
| 25 | | | 0 133 25 | 0 134 25 | 0 143 25 | 0 145 25 | 0 153 25 | 0 155 25 |
| 32 | | | | | 0 143 32 | 0 145 32 | 0 153 32 | 0 155 32 |
| 40 | | | | | 0 143 40 | 0 145 40 | 0 153 40 | 0 155 40 |
| 50 | | | | | 0 143 50 | 0 145 50 | 0 153 50 | 0 155 50 |
| 63 | | | | | | | 0 153 63 | 0 155 63 |
| 80 | | | | | | | 0 153 80 | 0 155 80 |
| 100 | | | | | | | 0 153 96 | 0 155 96 |
| 125 | | | | | | | 0 153 97 ⁽¹⁾ | 0 155 97 ⁽¹⁾ |

(1) Non-standard oversizing

2.2 Rated voltage and breaking capacity

| Sizes | Rated voltage (V) | Breaking capacity (A) |
|---------|------------------------------|-----------------------|
| 8 x 32 | 400 | 20 |
| 10 x 38 | 500 | 100 |
| 14 x 51 | 500 | 100 |
| 22 x 58 | 500 (except 125 A: 400 V) | 100 |

Can be used to protect DC circuits, supplied at a voltage of 48 VDC max.

2. RANGE AND CHARACTERISTICS (continued)

■ 2.3 Frequency

Operating frequency from 45 Hz to 62 Hz

■ 2.4 Power consumption table

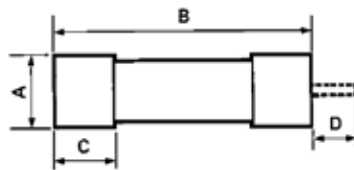
Power consumption in watts at rated current (warm state)

| Cartridge | Ratings | | | | | | | | | | | | | | | | | | |
|-----------|---------|------|------|------|------|------|------|-----|-------|------|-----|-----|-----|-----|-----|-----|-----|---------------------|--|
| | 0.5 | 1 | 2 | 4 | 6 | 8 | 10 | 12 | 16 | 2 | 25 | 32 | 40 | 50 | 63 | 80 | 100 | 125 | |
| 8 × 32 | | 0.35 | 0.45 | 0.60 | 0.83 | 1 | 1.2 | 1.3 | 1.7 | | | | | | | | | | |
| 10 × 38 | 0.07 | 0.45 | 0.5 | 0.85 | 0.95 | 1.15 | 1.3 | 1.4 | 1.9 | 2.4 | 2.7 | | | | | | | | |
| 14 × 51 | | | 0.75 | 1.1 | 1.2 | | 1.65 | | 02:35 | 2.75 | 3.1 | 3.6 | 4 | 4.8 | | | | | |
| 22 × 58 | | | | | | | 1.9 | | 2.5 | 3.4 | 3.5 | 3.7 | 4.3 | 5.3 | 6.3 | 7.4 | 8.3 | 11.3 ⁽¹⁾ | |

(1): Intermittent duty. For compliance with standard IEC 60269-2, recommended permanent load < 110 A

■ 2.5 Dimensions

| Sizes | A (mm) | B (mm) | C (mm) | D (mm) |
|--------------|--------|--------|--------|--------|
| 8 x 32 (mm) | 8.5 | 31.5 | 6.7 | - |
| 10 x 38 (mm) | 10.3 | 38 | 10.5 | - |
| 14 x 51 (mm) | 14.3 | 51 | 13.8 | 7.5 |
| 22 x 58 (mm) | 22.2 | 58 | 16.2 | 7.5 |



■ 2.6 Storage and usage conditions

Storage ambient temperature: -40°C to 70°C

Usage ambient temperature: -25°C to 40°C

Maximum operating altitude: 2000 m

Orientation:



Vertical

Tilted

Horizontal

Provided that a Legrand fuse carrier is used

3. NEUTRALS

Tubes with the same dimensions as the cartridges to ensure continuity of the neutral

| Cat. Nos. | For dimensions | In (A) max |
|-----------|----------------|------------|
| 0 123 00 | 8 × 32 | 20 A |
| 0 133 00 | 10 × 38 | 25 A |
| 0 143 00 | 14 × 51 | 50 A |
| 0 153 00 | 22 × 58 | 125 A |

Material: tinned CuZn brass

4. REFERENCE STANDARDS AND DIRECTIVES

NFC 60-200, 63-210, 63-211

EN 60269-1 and 2

IEC 60269-1 and 2

NFC 63-213 (July 1995)

RoHS

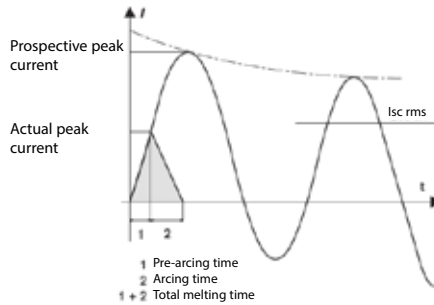
REACH

Bureau Veritas approved

5. DEVICE SELECTION

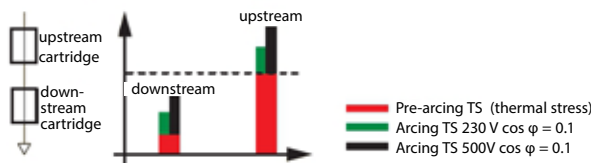
5.1 How to choose a protection system

The permissible thermal stress (or value of the breaking current integral over the total melting time) for the downstream protection device, expressed in A²s, must be less than the upstream protection device pre-arcing time.



- Overload: use the operating curves for the various protection devices. Curves must not overlap on the same circuit.

Example of good protection



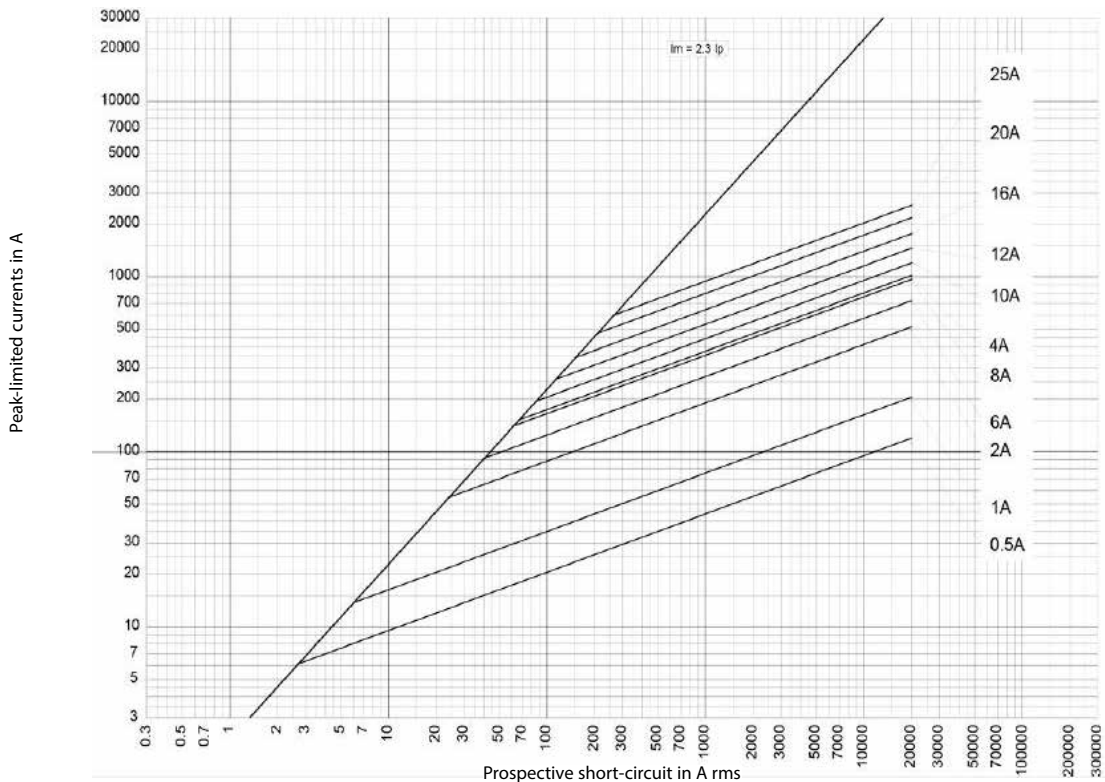
- Short-circuits: use the thermal stress selection charts. The total downstream protection device integral must be less than the upstream device pre-arcing integral.

5.2 Derating

See technical data sheet for modular fuse carriers

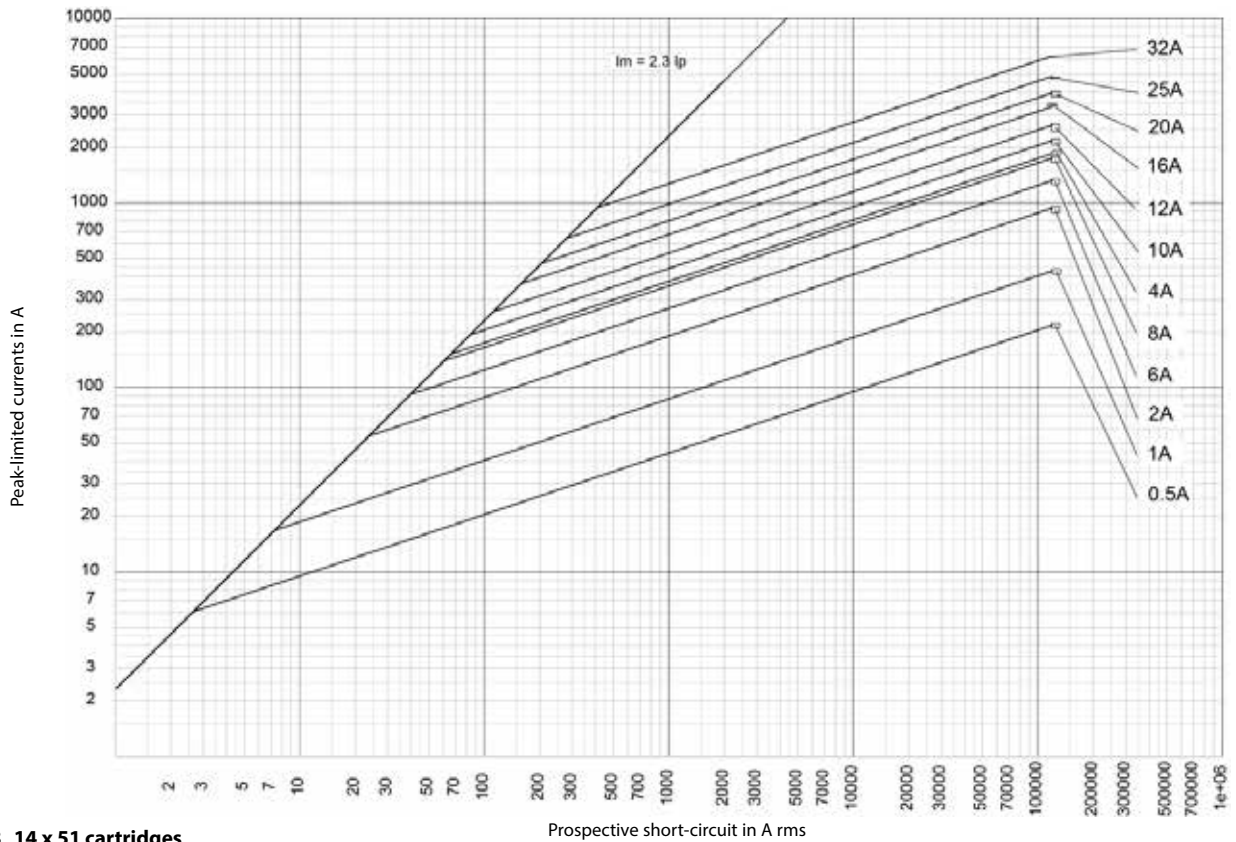
6. LIMITATION CURVES

6.1 8 x 32 cartridges

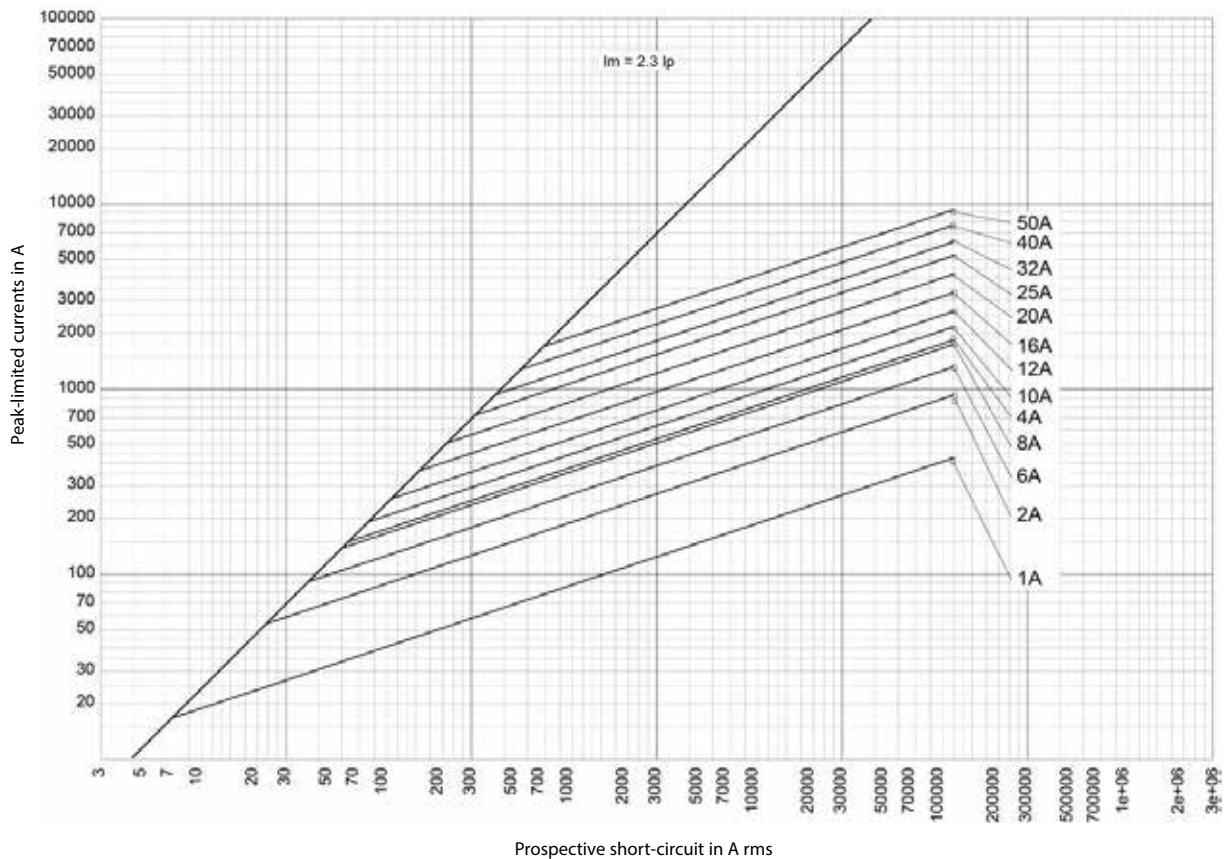


6. LIMITATION CURVES (continued)

■ **6.2 10 x 38 cartridges**

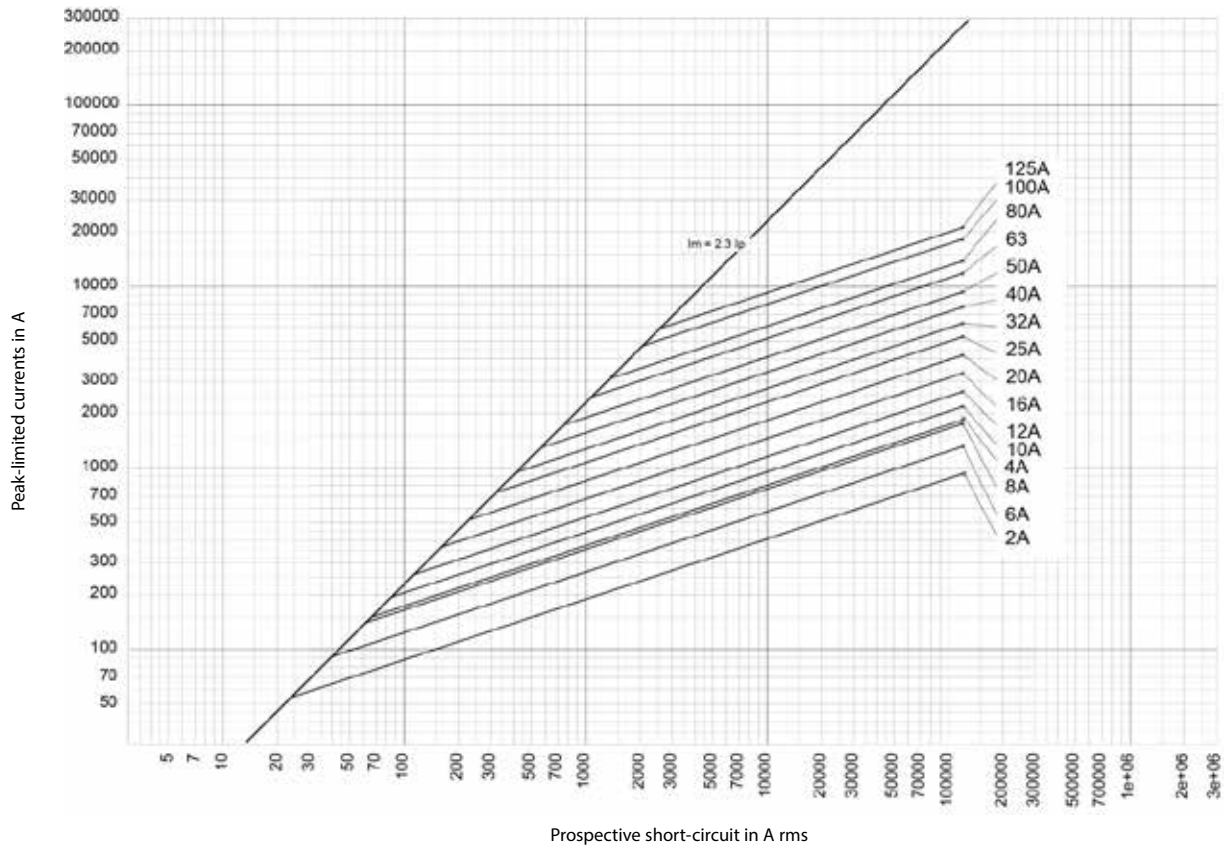


■ **6.3 14 x 51 cartridges**



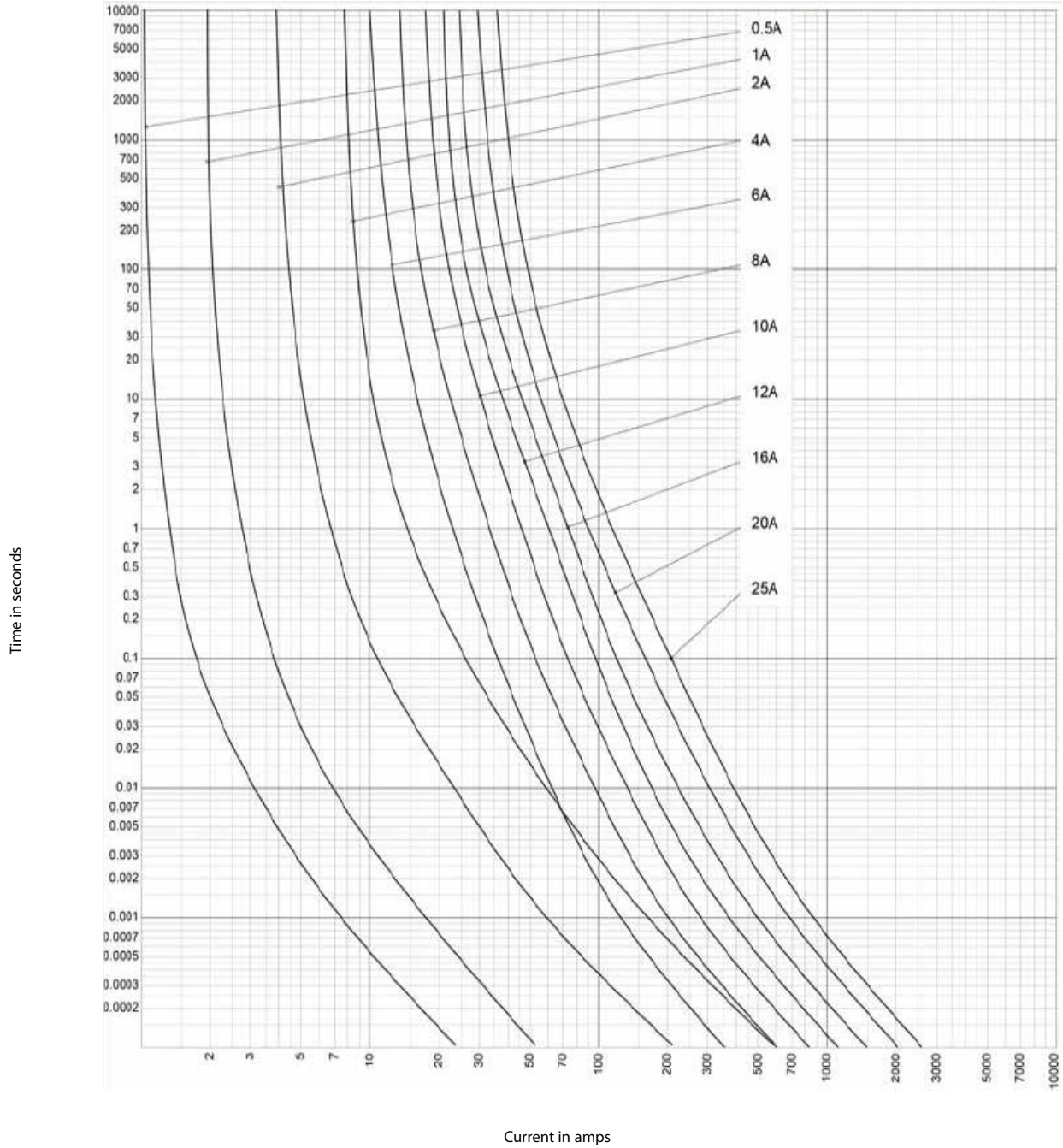
6. LIMITATION CURVES (continued)

■ 6.4 22 x 58 cartridges



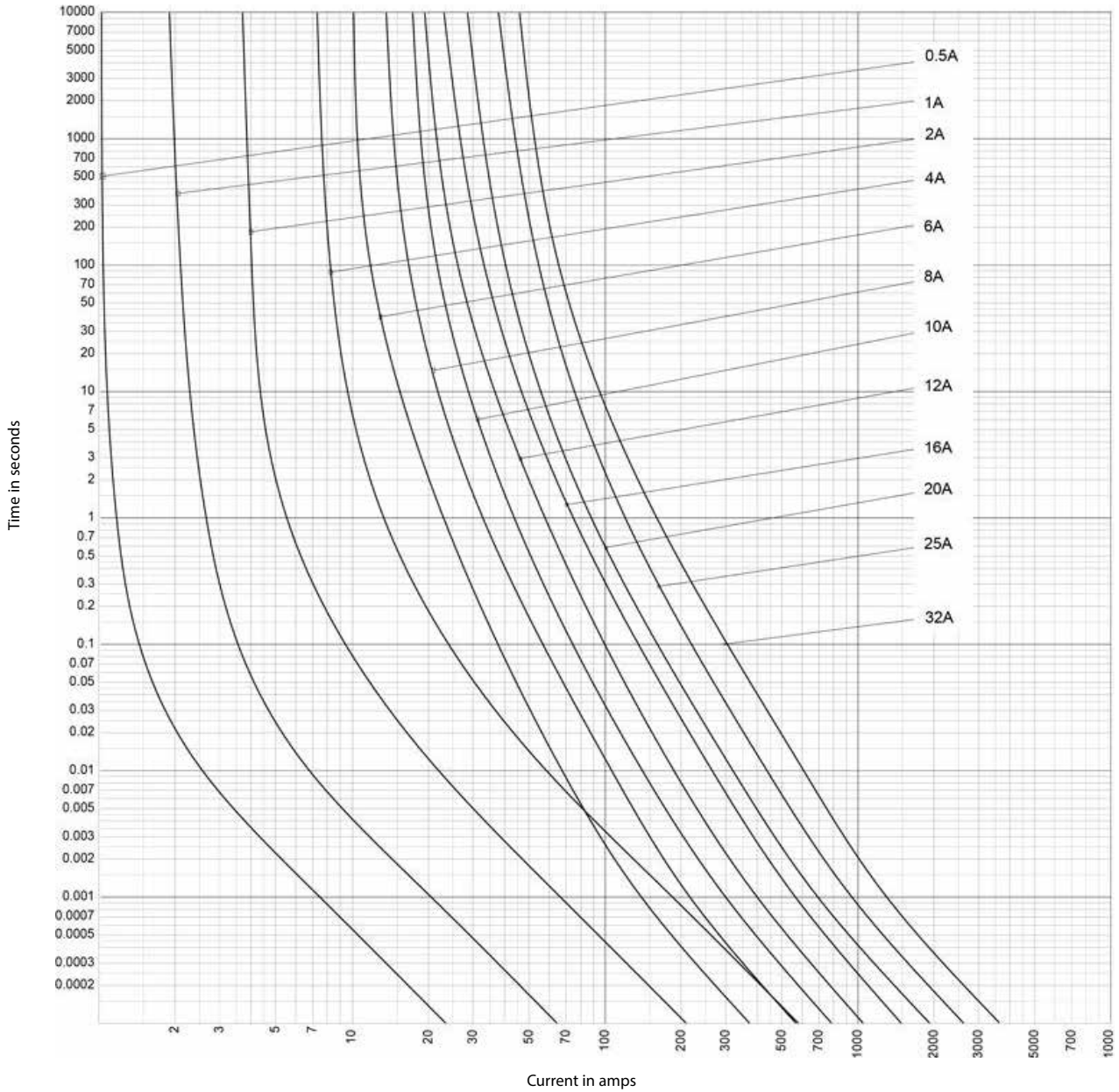
7. MELTING CURVES

■ 7.1 8 x 32 cartridges



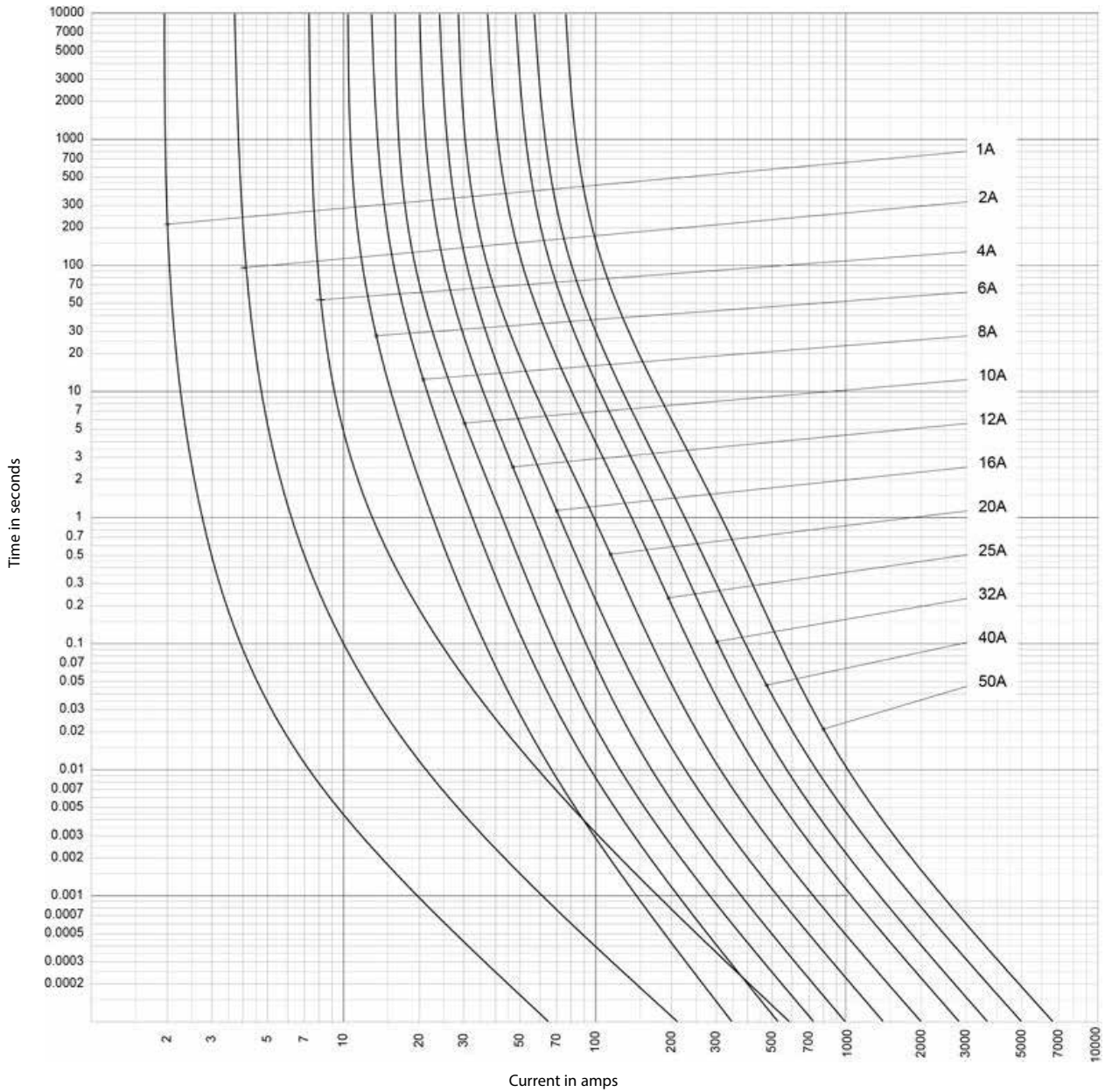
7. MELTING CURVES (continued)

■ 7.2 10 x 38 cartridges



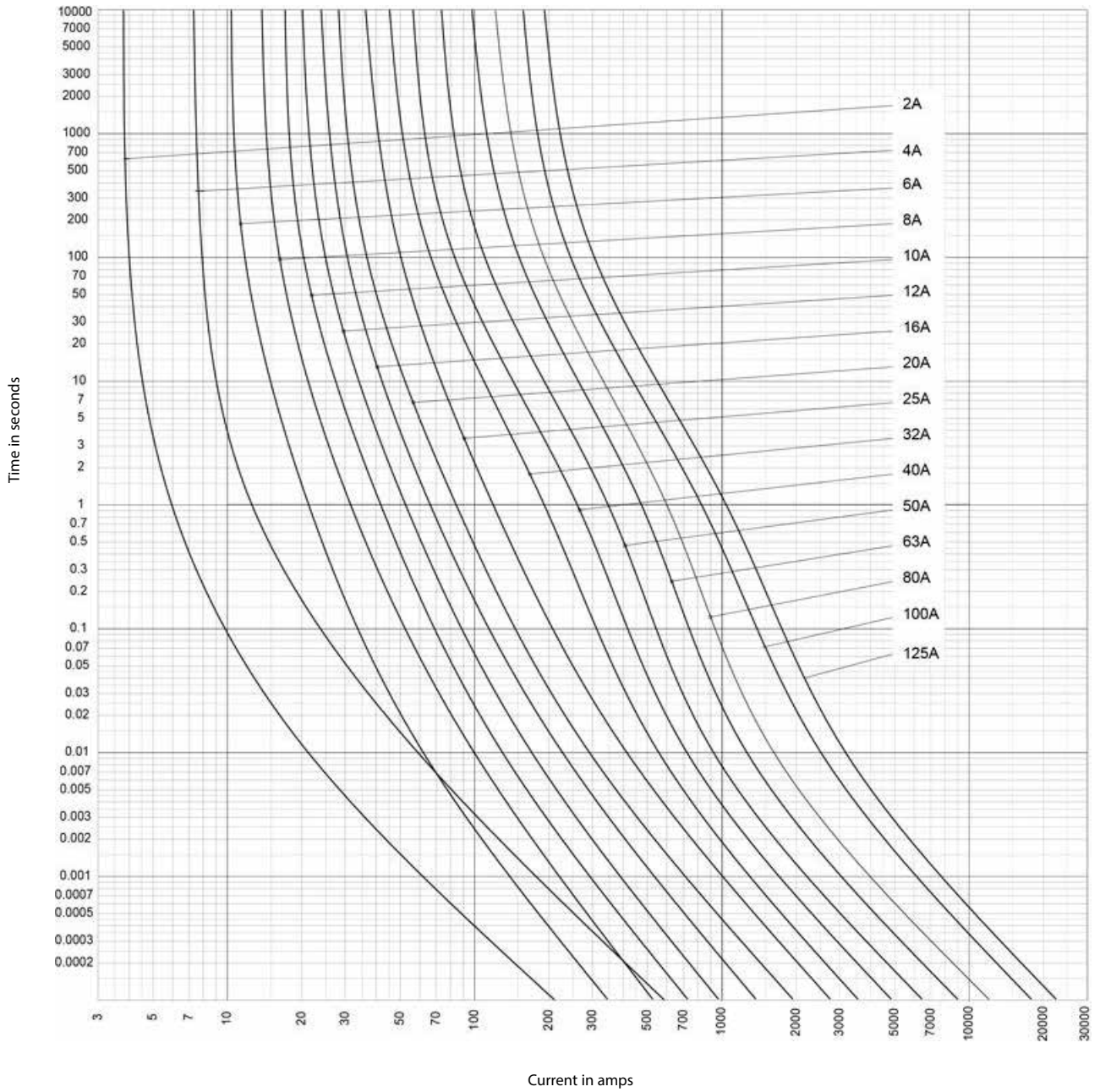
7. MELTING CURVES (continued)

■ 7.3 14 x 51 cartridges



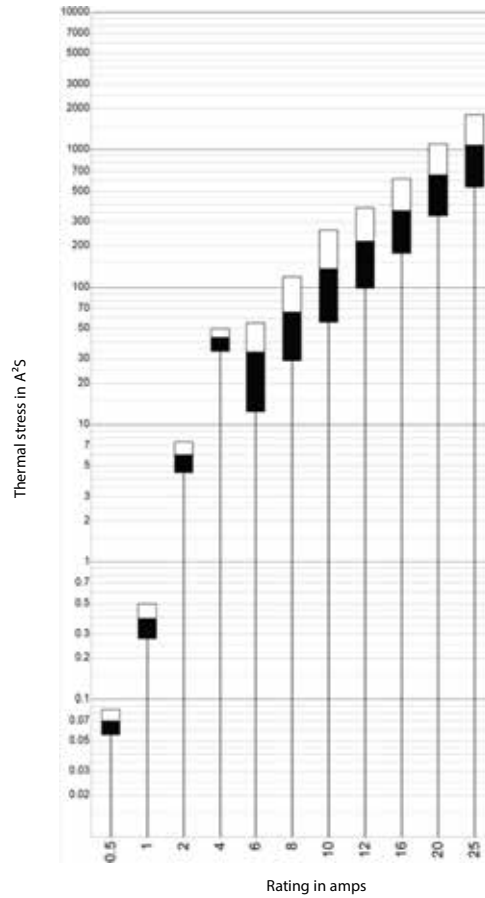
7. MELTING CURVES (continued)

■ 7.4 22 x 58 cartridges

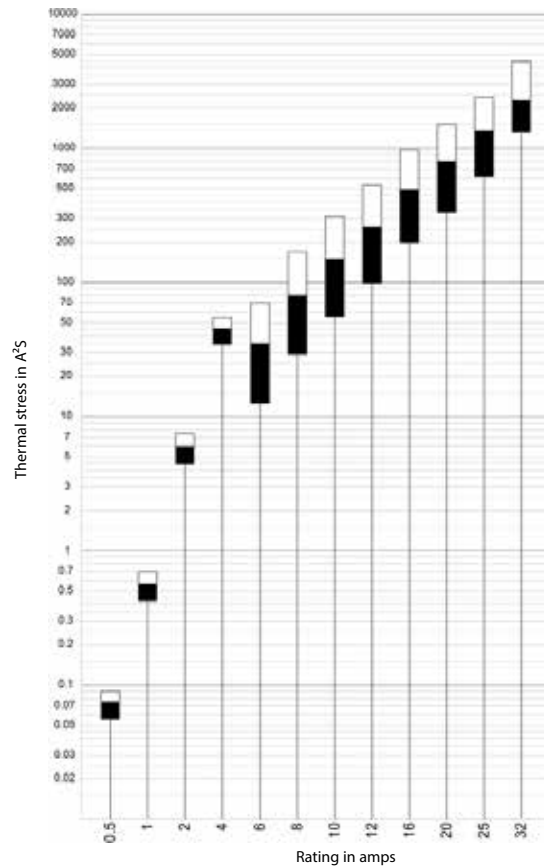


8. THERMAL STRESS

■ 8.1 8 x 32 cartridges

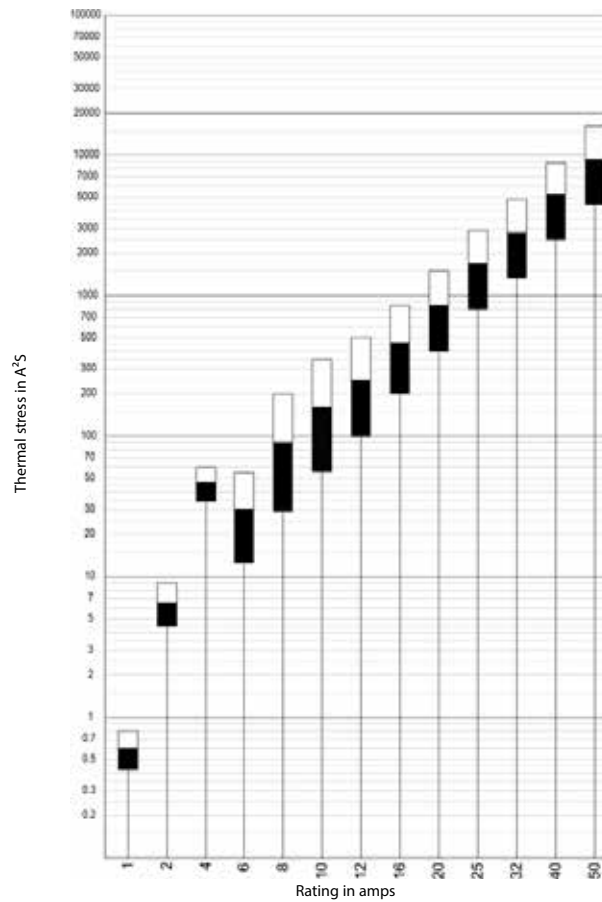


■ 8.2 10 x 38 cartridges

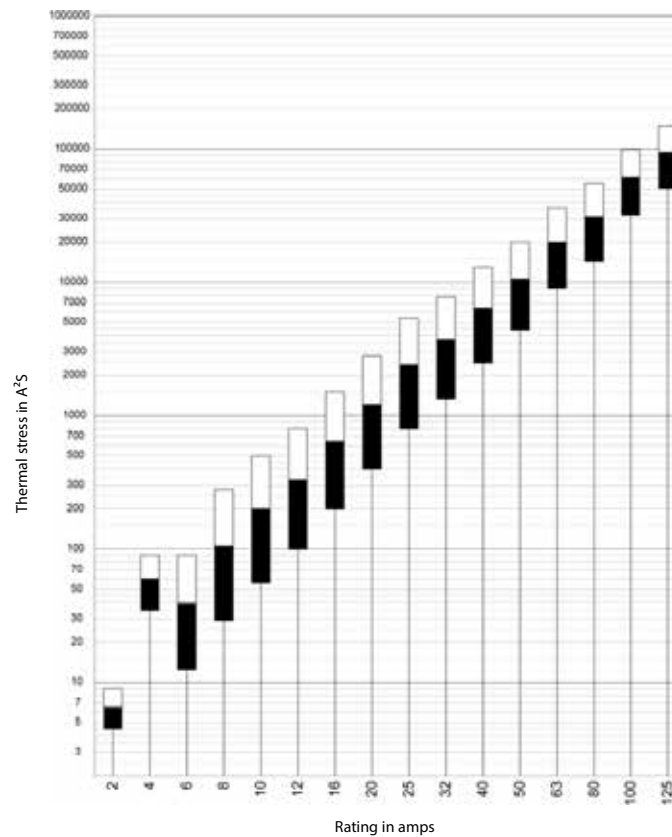


7. THERMAL STRESS (continued)

■ **8.3 14 x 51 cartridges**

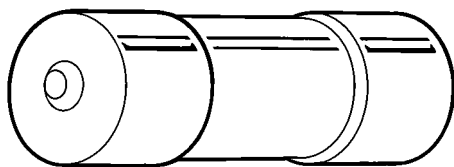


■ **8.4 22 x 58 cartridges**



HRC cylindrical cartridge fuses gG type

Catalogue number(s) : 0 133 01 to 94 - 0 134 02 to 25
0 143 02 to 50 - 0 145 04 to 50 - 0 153 04 to 97 - 0 155 10 to 97



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| | |
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| 2. Overall dimensions..... | 1 |
| 3. Consumption tables..... | 1 |
| 4. Limitation curves..... | 2 |
| 5. Fusion curves..... | 2 |
| 6. Thermal stresses..... | 3 |
| 7. Neutral links..... | 3 |
| 8. Reference standards..... | 3 |

1. RANGE

1.1 Rated currents

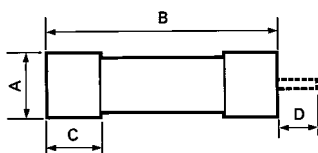
| Rating | 10 x 38 HRC | | 14 x 51 HRC | | 22 x 58 HRC | |
|--------|-------------------|----------------|------------------|---------------|------------------|---------------|
| | Without indicator | With indicator | Without stricker | With stricker | Without stricker | With stricker |
| 0.5 | 0 133 94 | | | | | |
| 1 | 0 133 01 | | | | | |
| 2 | 0 133 02 | 0 134 02 | 0 143 02 | | | |
| 4 | 0 133 04 | 0 134 04 | 0 143 04 | 0 145 04 | 0 153 04 | |
| 6 | 0 133 06 | 0 134 06 | 0 143 06 | 0 145 06 | 0 153 06 | |
| 8 | 0 133 08 | 0 134 08 | | | | |
| 10 | 0 133 10 | 0 134 10 | 0 143 10 | 0 145 10 | 0 153 10 | 0 155 10 |
| 12 | 0 133 12 | 0 134 12 | | | | |
| 16 | 0 133 16 | 0 134 16 | 0 143 16 | 0 145 16 | 0 153 16 | 0 155 16 |
| 20 | 0 133 20 | 0 134 20 | 0 143 20 | 0 145 20 | 0 153 20 | 0 155 20 |
| 25 | 0 133 25 | 0 134 25 | 0 143 25 | 0 145 25 | 0 153 25 | 0 155 25 |
| 32 | | | 0 143 32 | 0 145 32 | 0 153 32 | 0 155 32 |
| 40 | | | 0 143 40 | 0 145 40 | 0 153 40 | 0 155 40 |
| 50 | | | 0 143 50 | 0 145 50 | 0 153 50 | 0 155 50 |
| 63 | | | | | 0 153 63 | 0 155 63 |
| 80 | | | | | 0 153 80 | 0 155 80 |
| 100 | | | | | 0 153 96 | 0 155 96 |
| 125 | | | | | 0 153 97 (1) | 0 155 97 (1) |

(1) overrating described by standards

1.2 Rated voltage : 500 V~ (except 125 A at 400 V~)

2. OVERALL DIMENSIONS

3.



| Size | A | B | C | D | |
|--------------|---|------|----|----|-----|
| 10 x 38 (mm) | | 10.3 | 38 | 10 | - |
| 14 x 51 (mm) | | 14.3 | 51 | 13 | 7.5 |
| 22 x 58 (mm) | | 22.2 | 58 | 16 | 7.5 |

CONSUMPTION TABLES

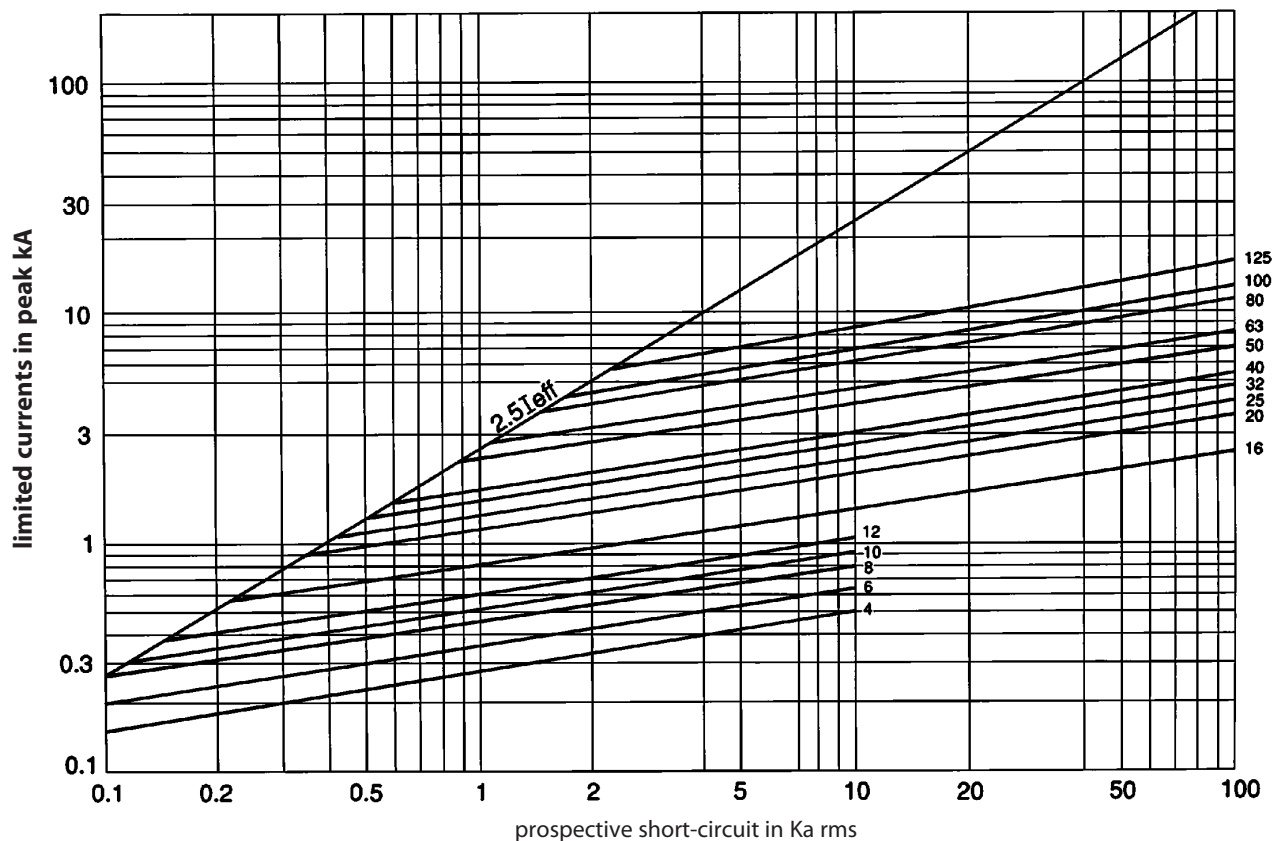
Consumption in watts when hot at rated current

| Cartridges fuses | Ratings | | | | | | | | | | | | | | | | |
|------------------|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|-----|-----|
| | 1 | 2 | 4 | 6 | 8 | 10 | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | 80 | 100 | 125 |
| 10 x 38 | 0.27 | 0.50 | 0.90 | 1.05 | 1.30 | 1.35 | 1.45 | 2.20 | 2.50 | 3.50 | | | | | | | |
| 14 x 51 | | 0.80 | 0.90 | 1.40 | | 2 | | 2.60 | 3.10 | 3.50 | 3.50 | 3,70 | 4.60 | | | | |
| 22 x 58 | | | 1.50 | 1.60 | | 1.90 | | 3 | 2.90 | 3.90 | 3.60 | 3,90 | 5.30 | 6.30 | 8 | 8 | 11 |

HRC cylindrical cartridge fuses gG type

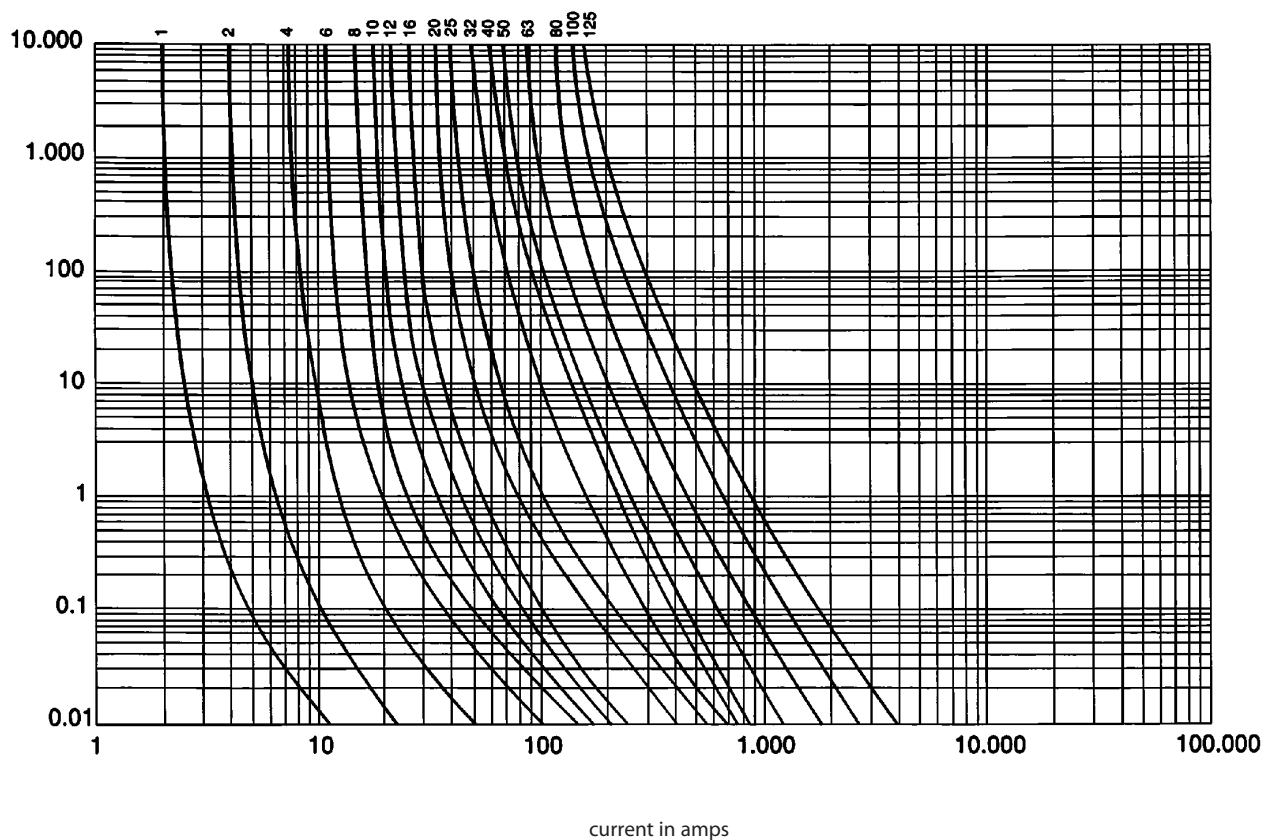
Catalogue number(s) : 0 133 01 to 94 - 0 134 02 to 25
0 143 02 to 50 - 0 145 04 to 50 - 0 153 04 to 97 - 0 155 10 to 97

4. LIMITATION CURVES



5. FUSION CURVES

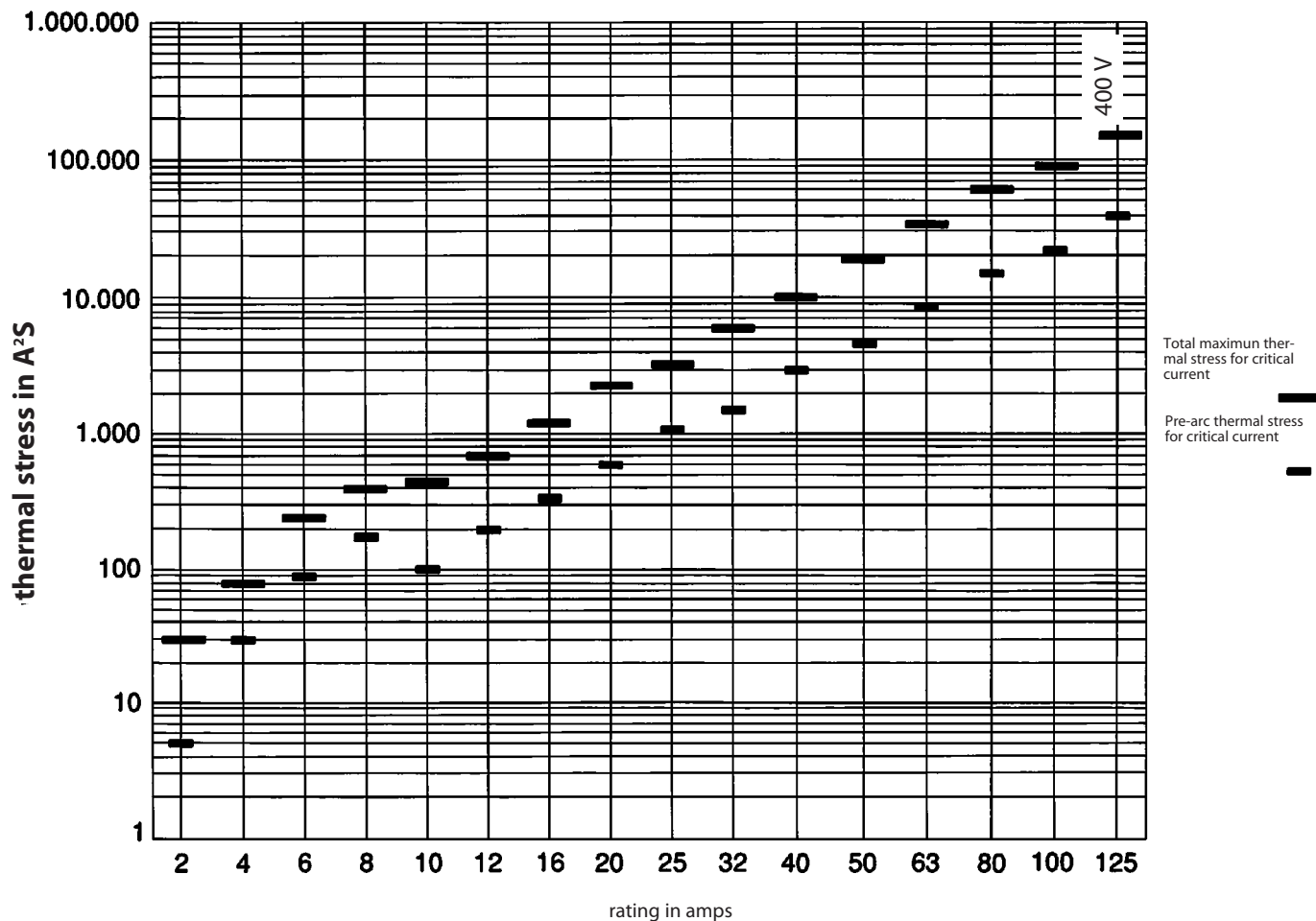
time in seconds



HRC cylindrical cartridge fuses gG type

Catalogue number(s) : 0 133 01 to 94 - 0 134 02 to 25
0 143 02 to 50 - 0 145 04 to 50 - 0 153 04 to 97 - 0 155 10 to 97

6. THERMAL STRESSES



7. NEUTRAL LINKS

Tube to ensure neutral continuity

| Cat. Nos | for dimensions | In (A) max |
|----------|----------------|------------|
| 0 123 00 | 8 x 32 | 20 A |
| 0 133 00 | 10 x 38 | 25 A |
| 0 143 00 | 14 x 51 | 50 A |
| 0 153 00 | 22 x 58 | 125 A |

Material : tin-plated Cu-Zn brass

8. REFERENCE STANDARDS

NF C 60-200, 63-210, 63-211
EN 60269-1 and 2
IEC 60269-1, 2 and 2-1
NFC 63-213 (July 1995)
Veritas approved

CAT. N° 0 123 00

**NEUTRAL LINK 8.5 X 31.5**

| | |
|---------------------------|-------|
| Pack (number of units) | 10 |
| Volume (dm ³) | 0,035 |
| Weight (g) | 39,00 |

Product characteristics**Neutral links**

- 8 x 32 (previously 8.5 x 31.5)

General characteristics**HRC cartridge fuses****Documentation****Catalogue pages & additional information**

- [Description page \(p.082\)](#)
- [Description page \(p.179\)](#)
- [Dimensions of din-rail equipment](#)
- [Blade cartridge fuses gG and aM types](#)

CAT. N° 0 133 00



NEUTRAL LINK 10 X 38

| | |
|---------------------------|-------|
| Pack (number of units) | 10 |
| Volume (dm ³) | 0,056 |
| Weight (g) | 51,00 |

Product characteristics

Neutral links

- 10 x 38

General characteristics

HRC cartridge fuses

Documentation



Catalogue pages & additional information

- [Description page \(p.082\)](#)
- [Description page \(p.179\)](#)
- [Dimensions of din-rail equipment](#)
- [Blade cartridge fuses gG and aM types](#)

CAT. N° 0 143 00

**NEUTRAL LINK 14 X 51**

| | |
|---------------------------|--------|
| Pack (number of units) | 10 |
| Volume (dm ³) | 0,161 |
| Weight (g) | 102,00 |

Product characteristics

Neutral links

- 14 x 51

General characteristics

HRC cartridge fuses

Documentation

**Catalogue pages & additional information**

- [Description page \(p.179\)](#)
- [Blade cartridge fuses gG and aM types](#)