# R-Rated

## Medium voltage fuses for motor circuit protection

### Description:

- Indoor/enclosure, R-Rated medium voltage, current-limiting fuses for motor circuit protection.

### Features and benefits:

- Current-limiting R-Rated fuses will safely interrupt all currents between their minimum and maximum interrupting ratings and will melt in a range of 15 to 35 seconds at a value of 100 times the "R" number per ANSI C37.46.
- R-Rated fuses are physically dimensioned for easy installation in existing hardware.
- Available in standard, AMPGARD™ Hookeye and hermetically sealed, and bolt-on mounting styles to meet application needs.
- 2.4kV and 4.8kV AMPGARD hermetically sealed constructions are suitable for Class I, Group D, Div. 2 hazardous locations.
- Open fuse indicator on all mounting styles speeds troubleshooting.
- Classified as backup fuses for current-limiting protection of medium voltage motor controllers (short-circuit performance only).
- These fuses are in a self-contained, non-venting package for installation indoors or outdoors in an enclosure.

### Typical applications:

- Medium voltage motors and controllers

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Powering Business Worldwide

## 2.4kV R-Rated fuses

### Catalog symbols:

| Code-(amps)R | Construction |
|---|---|
| 2CLS-25 | Standard (25A only) |
| 2ACLS-25 | AMPGARD hookeye (25A only) |
| JCK-_R | Standard (2R-24R) |
| JCK-A-_R | AMPGARD hookeye* (2R-24R) |
| 2HCLS-_R | Hermetically sealed AMPGARD hookeye* (25A/2R-24R) |
| 2BCLS-_R | Bolt-on (25A/2R-24R) |

* For use in 400 amp AMPGARD motor starters.

### Ratings:

- Volts
  - 2.4kV (nominal)
  - 2.54kV (max design)
- Amps 25-450A
- Interrupting ratings
  - 50kA Sym
  - 80kA Asym

### Agency information:

- UL® Recognized: Guide #MSSS2, File #E96676

### Recommended fuse holders for standard constructions:

| Amp range | Description | Cat. No. |
|---|---|---|
| **Fuseclips** | | |
| 25-230A | 3" enclosed fuseclip* | A3354730 |
| 25-450A | 3" open fuseclip | 1A0065 |
| | 3" spring loaded open fuseclip | 9078A67G04 |
| **Fuse holders** | | |
| 25-230A Single barrel | Non-disconnect holder, porcelain | 2CLE-PNM-D |
| | Non-disconnect holder, glass polyester | 2CLE-GNM-D |
| | Disconnect holder, porcelain | 2CLE-PDM-D |
| | Disconnect holder, glass polyester | 2CLE-GDM-E |
| 390-450A Double barrel | Non-disconnect holder, porcelain | 2CLE-PNM-E |
| | Non-disconnect holder, glass polyester | 2CLE-GNM-E |
| | Disconnect holder, porcelain | 2CLE-PDM-E |
| | Disconnect holder, glass polyester | 2CLE-GDM-E |

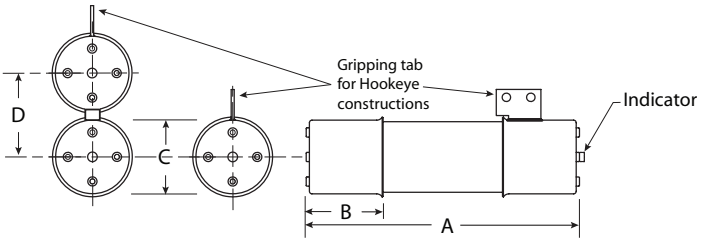
* Single barrel only, not sold in pairs.

### Dimensions - in [mm]

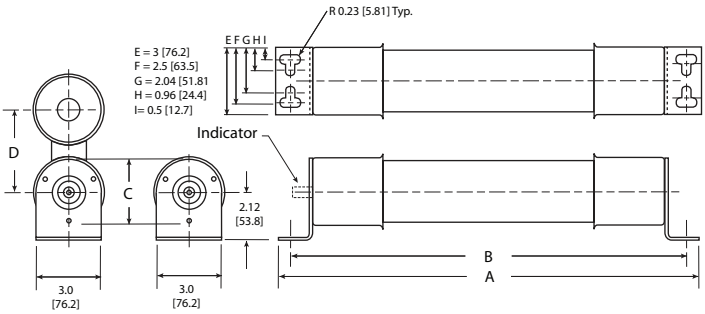
| Construction | Amp range | Dimension A | B | C | D |
|---|---|---|---|---|---|
| Standard - short | 25-230A | 10.8 (274) | 3 (76) | 3 (76) | — |
| | 390-450A | 10.8 (274) | 3 (76) | 3 (76) | 3.3 (84) |
| AMPGARD Hookeye* | 70-230A | 10.8 (274) | 3 (76) | 3 (76. | — |
| | 390-450A | 10.8 (274) | 3 (76) | 3 (76) | 3.3 (84) |
| Bolt-on | 25-230A | 19.2 (488) | 17.9 (455) | 3 (76) | — |
| | 390-450A | 19.2 (488) | 17.9 (455) | 3 (76) | 3.3 (84) |

* Includes hermetically sealed versions.

Standard and AMPGARD hookeye




Bolt-on



## 2.4kV R-Rated fuse catalog numbers

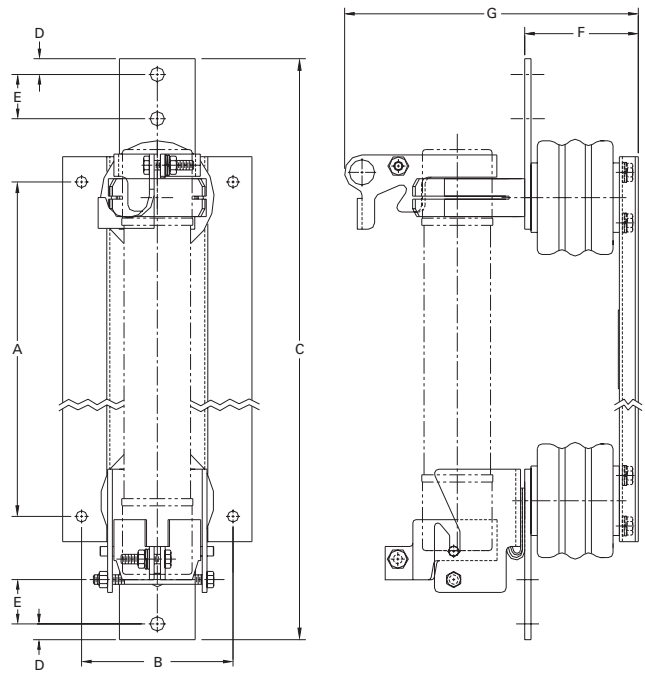
| Amp rating | "R" Designation | Mounting style (minimum interrupting rating in amps) | | | | Number of barrels |
|---|---|---|---|---|---|---|
| | | | AMPGARD Hookeye | | | |
| | | Standard | Regular | Hermetically sealed | Bolt-on | |
| 25 | — | 2CLS-25* (90) | 2ACLS-25* (90) | 2HCLS-25* (90) | 2BCLS-25* (90) | 1 |
| 70 | 2R | JCK-2R (165) | JCK-A-2R (165) | 2HCLS-2R (170) | 2BCLS-2R (170) | 1 |
| 100 | 3R | JCK-3R (220) | JCK-A-3R (220) | 2HCLS-3R (245) | 2BCLS-3R (245) | 1 |
| 130 | 4R | JCK-4R (320) | JCK-A-4R (320) | 2HCLS-4R (340) | 2BCLS-4R (340) | 1 |
| 150 | 5R | JCK-5R (410) | JCK-A-5R (410) | 2HCLS-5R (430) | 2BCLS-5R (430) | 1 |
| 170 | 6R | JCK-6R (480) | JCK-A-6R (480) | 2HCLS-6R (500) | 2BCLS-6R (500) | 1 |
| 200 | 9R | JCK-9R (720) | JCK-A-9R (720) | 2HCLS-200* (1000) | 2BCLS-9R (1000) | 1 |
| 230 | 12R | JCK-12R (970) | JCK-A-12R (970) | 2HCLS-230* (1250) | 2BCLS-12R (1250) | 1 |
| 390 | 18R | JCK-18R (1430) | JCK-A-18R (1430) | 2HCLS-390* (1700) | 2BCLS-18R (1700) | 2 |
| 450 | 24R | JCK-24R (1880) | JCK-A-24R (1880) | 2HCLS-24R (2100) | 2BCLS-24R (2100) | 2 |

* Does not comply with ANSI C37.46 for "R" rating.

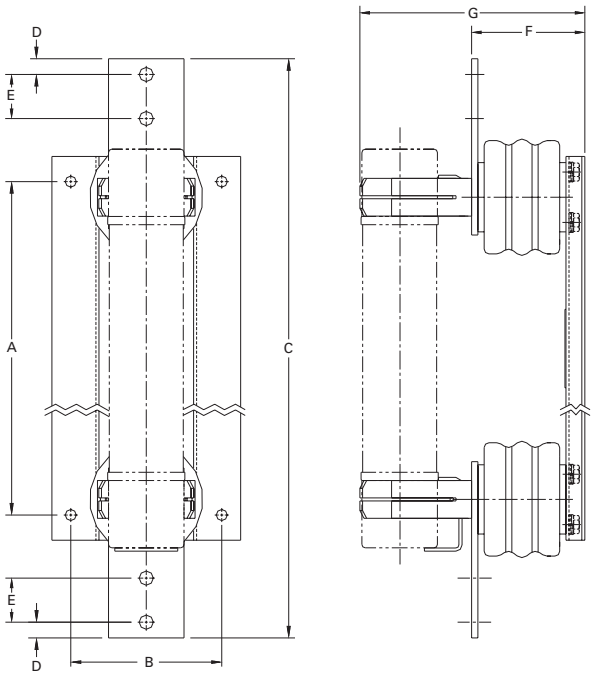
## JCK and 2HCLS Type mountings -in (mm)

| Catalog number | Hole centers A | B | Overall length C | Hole Inset D | Hole centers E | Contact height F | Overall height G | BIL rating (kV) |
|---|---|---|---|---|---|---|---|---|
| **Disconnect single barrel†** | | | | | | | | |
| 2CLE-GDM-D | 8.24 (209.3) | 6 (152.4) | 18 (457.2) | 0.62 (15.7) | 1.75 (44.4) | 4.5 (114.3) | 11.72 (297.7) | 60 |
| 2CLE-PDM-D | 8.24 (209.3) | 6 (152.4) | 18 (457.2) | 0.62 (15.7) | 1.75 (44.4) | 4.5 (114.3) | 11.72 (297.7) | 60 |
| **Disconnect double barrel†** | | | | | | | | |
| 2CLE-GDM-E | 8.24 (209.3) | 6 (152.4) | 18 (457.2) | 0.62 (15.7) | 1.75 (44.4) | 4.5 (114.3) | 15.28 (388.1) | 60 |
| 2CLE-PDM-E | 8.24 (209.3) | 6 (152.4) | 18 (457.2) | 0.62 (15.7) | 1.75 (44.4) | 4.5 (114.3) | 15.28 (388.1) | 60 |
| **Non-disconnect single barrel** | | | | | | | | |
| 2CLE-GNM-D | 8.24 (209.3) | 6 (152.4) | 18 (457.2) | 0.62 (15.7) | 1.75 (44.4) | 4.5 (114.3) | 8.79 (223.3) | 60 |
| 2CLE-PNM-D | 8.24 (209.3) | 6 (152.4) | 18 (457.2) | 0.62 (15.7) | 1.75 (44.4) | 4.5 (114.3) | 8.79 (223.3) | 60 |
| **Non-disconnect double barrel** | | | | | | | | |
| 2CLE-GNM-E | 8.24 (209.3) | 6 (152.4) | 18 (457.2) | 0.62 (15.7) | 1.75 (44.4) | 4.5 (114.3) | 12.48 (317.0) | 60 |
| 2CLE-PNM-E | 8.24 (209.3) | 6 (152.4) | 18 (457.2) | 0.62 (15.7) | 1.75 (44.4) | 4.5 (114.3) | 12.48 (317.0) | 60 |

### 2.4kV disconnect mounting†

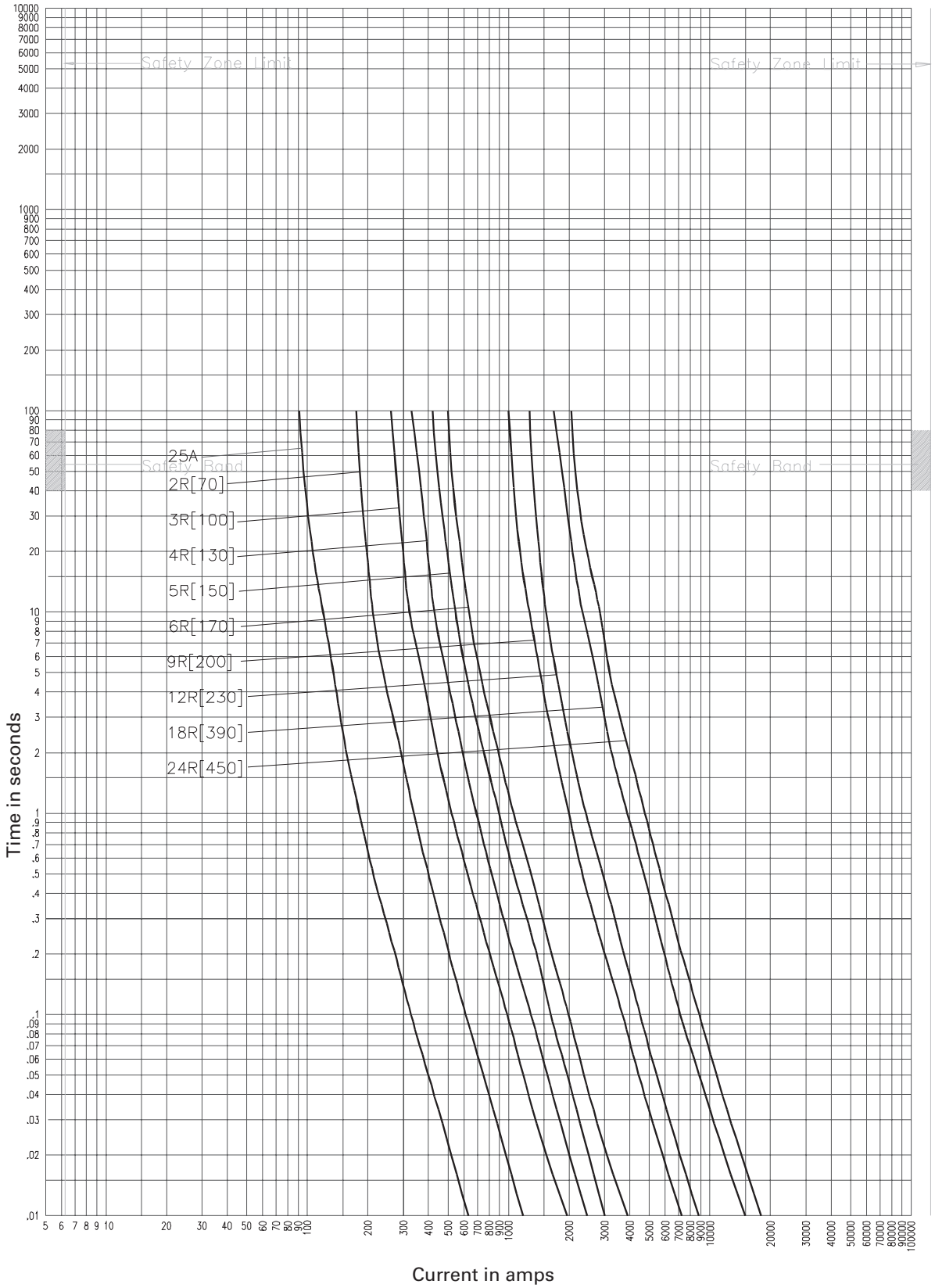



### 2.4kV non-disconnect mounting




† Disconnect mountings provide a means for fuse extraction only. Do not use a disconnect mounting for load switching or fuse removal while energized.

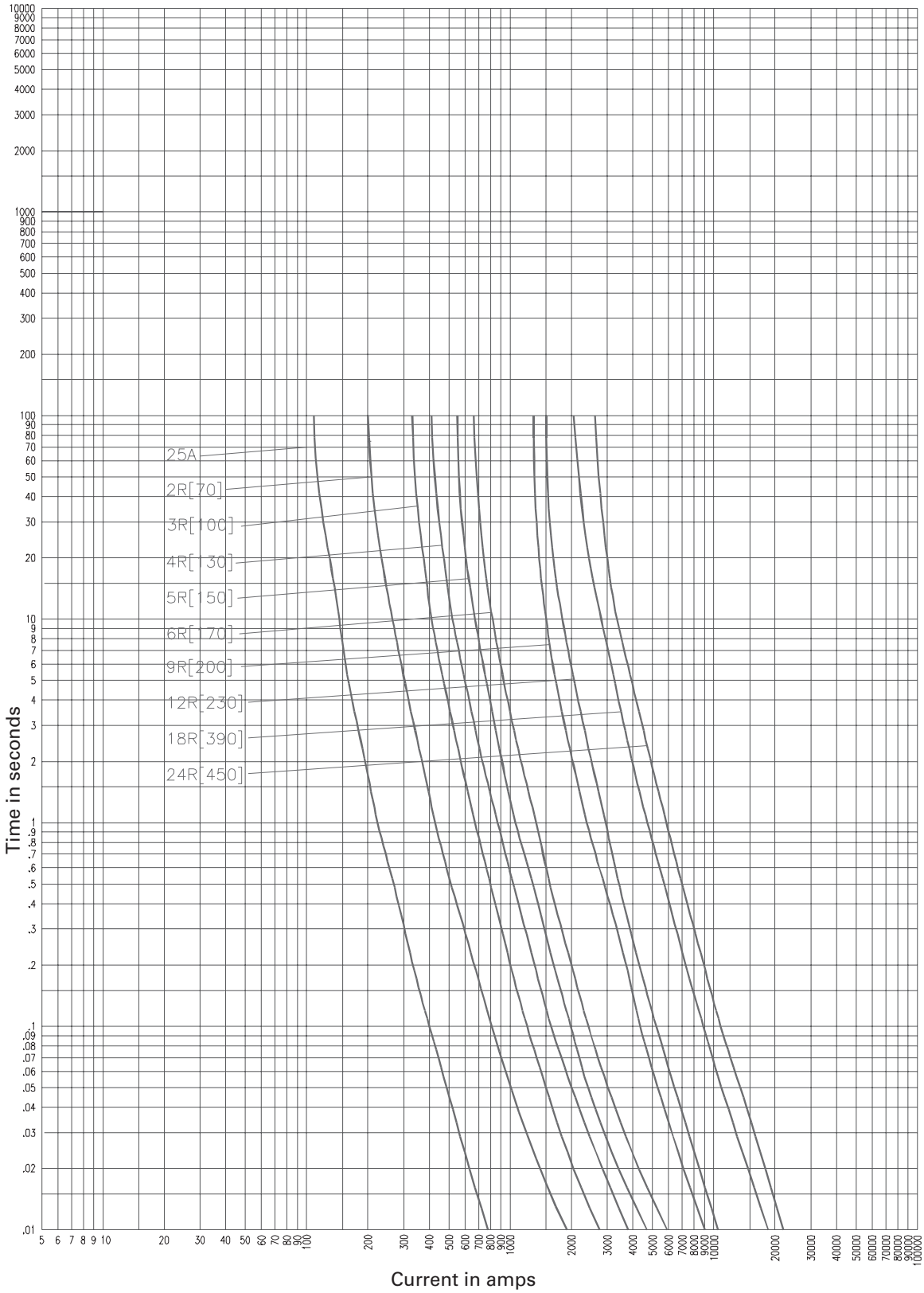
**2.4kV time-current curves — minimum melting for 2HCLS-_R and 2BCLS-_R (25A, 2R-24R @25°C)**




CURVE 66664702
January 2001
Reference # 666647,
512853, 639405

2HCLS-_R and 2BCLS-_R

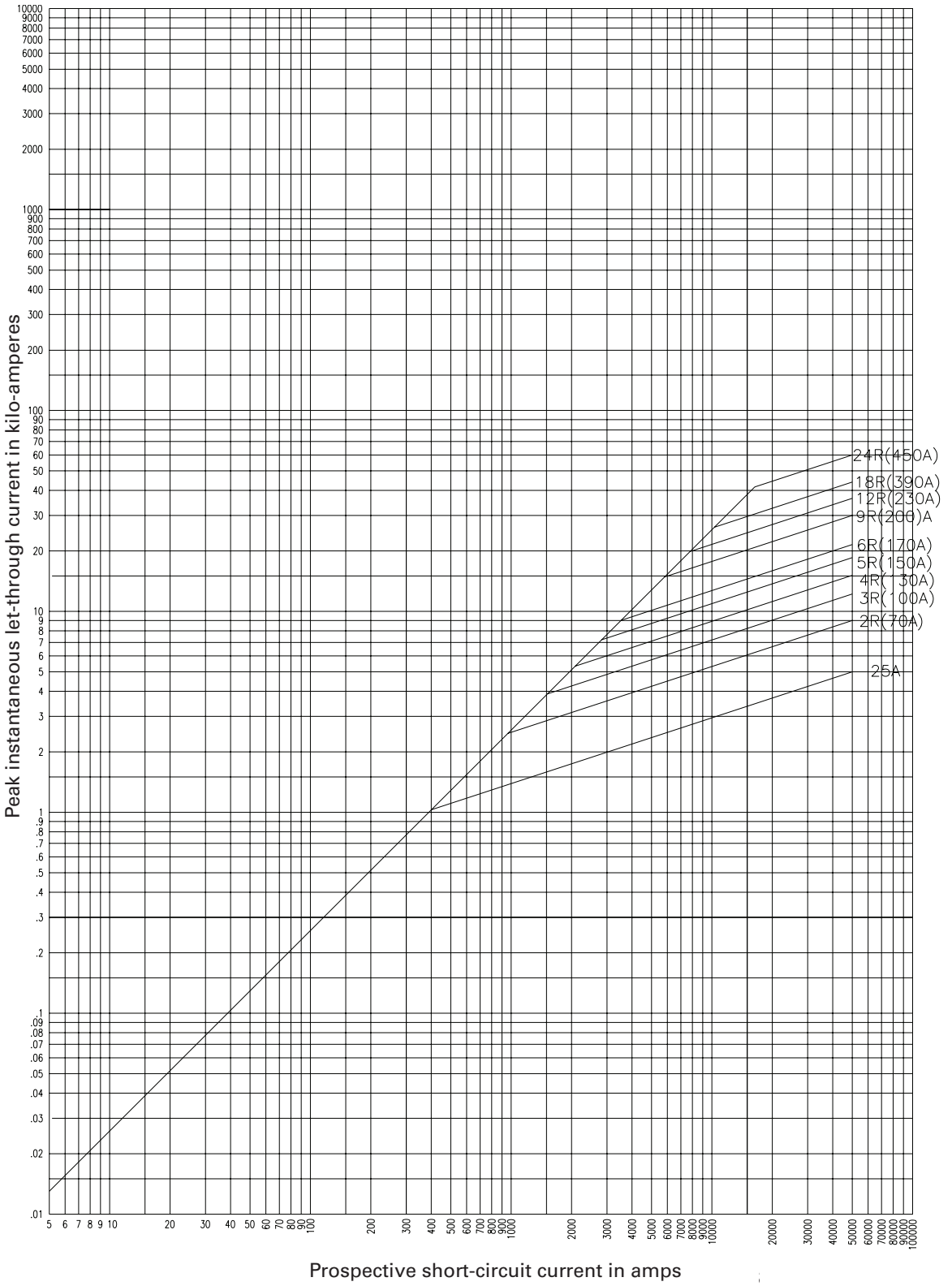
**2.4kV time-current curves — total clearing for 2HCLS-_R and 2BCLS-_R (25A, 2R-24R @25°C)**




CURVE 66664704
January 2000
Reference # 666647,
512854, 639406

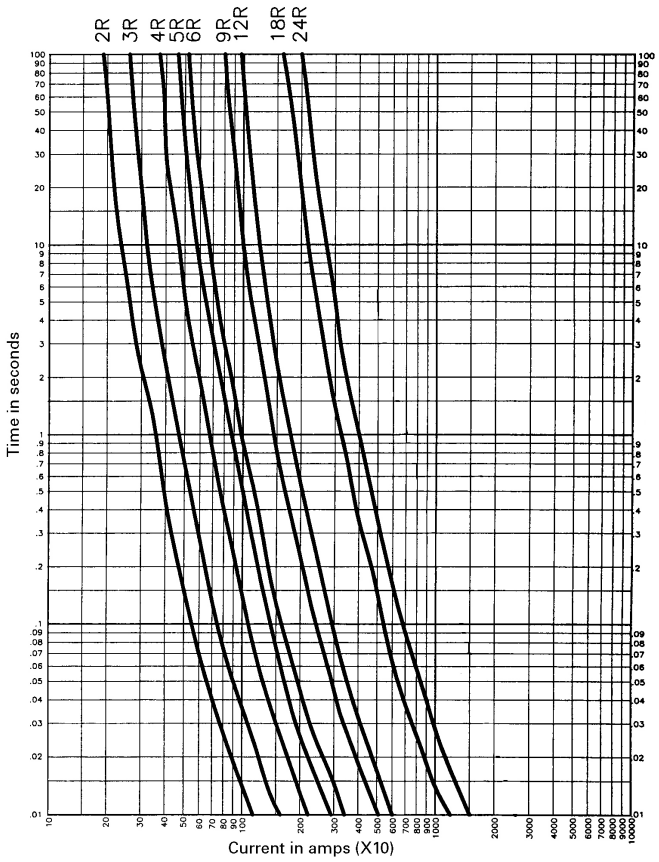
2HCLS-_R and 2BCLS-_R

**2.4kV peak let-through curves for 2HCLS-_R and 2BCLS-_R (25A, 2R-24R @25°C)**

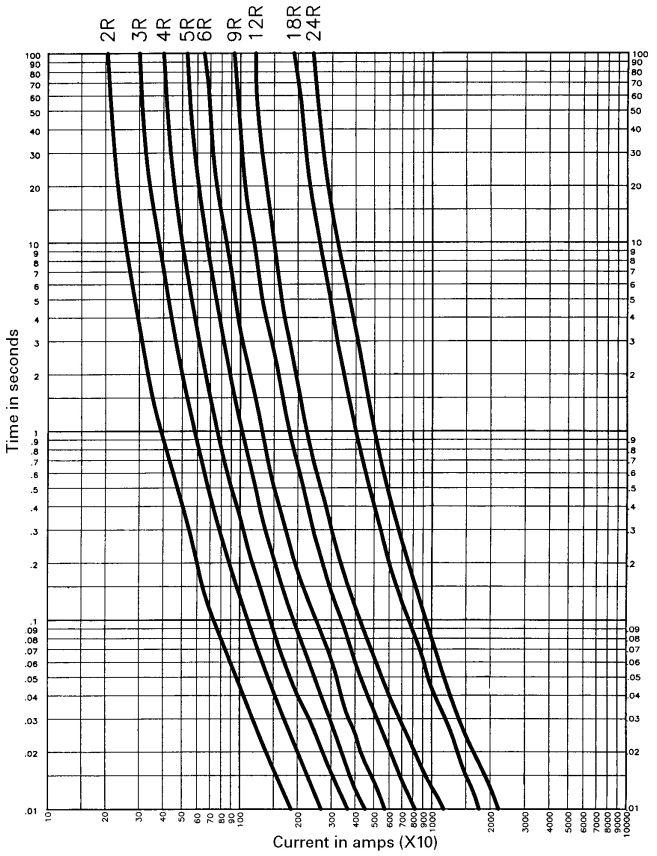



2HCLS-_R and 2BCLS-_R

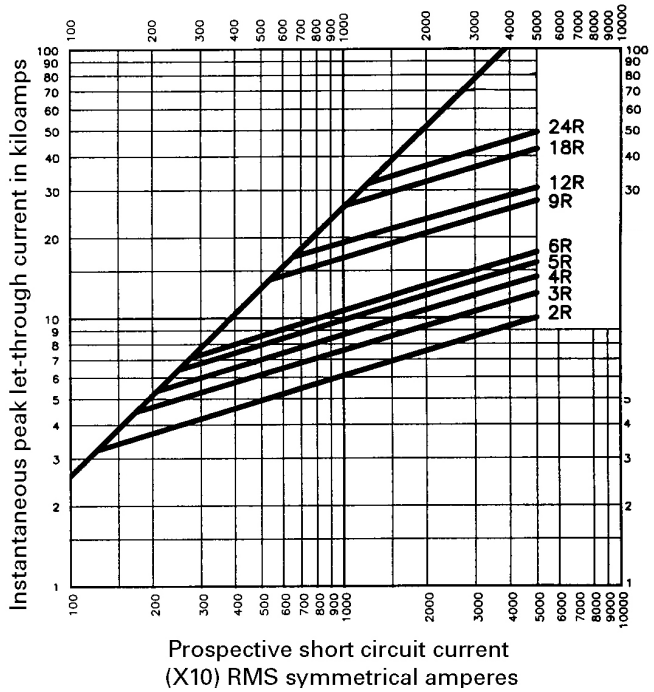
**2.4kV time-current curves — minimum melting for JCK-_R and JCK-A-_R (2R-24R @25°C)**




**2.4kV time-current curves — total clearing for JCK-_R and JCK-A-_R (2R-24R @25°C)**




**2.4kV peak let-through curves for JCK-_R and JCK-A-_R (2R-24R @25°C)**



## 4.8kV R-Rated fuses

### Catalog symbols:

| Code-(amps) | Construction |
|---|---|
| 5CLS-30 | Standard - short (30A) |
| JCL-_R | Standard - short (2R - 24R) |
| 5LCLS-_R | Standard - long (2R - 24R) |
| JCL-A-_R | AMPGARD hookeye* (2R - 24R) |
| 5ACLS-30 | AMPGARD hookeye* (30A) |
| 5HCLS-30 | Hermetically sealed AMPGARD hookeye* (30A) |
| 5HCLS-_R | Hermetically sealed AMPGARD hookeye* (2R-24R) |
| 5BCLS-30 | Bolt-on (30A) |
| 5BCLS-_R | Bolt-on (2R - 44R) |

* For use in 400 amp AMPGARD motor starters.

### Ratings:

- Volts
  - 4.8kV (nominal)
  - 5.08kV (max design)
- Amps
  - 30-450A
- Interrupting ratings
  - 50kA Sym
  - 80kA Asym

### Agency information:

- UL Recognized: Guide #MSSS2, File #E96676 (JCL-_R [2R-24R] and JCL-A-_R [2R-24R])

### Recommended fuse holders for standard constructions:

| Amp range | Description | BIL (kV) | Cat. No. |
|---|---|---|---|
| **Fuseclips** | | | |
| 30-230A | 3" enclosed fuseclip* | — | A3354730 |
| 30-450A | 3" open fuseclip | — | 1A0065 |
| | 3" spring loaded open fuseclip | — | 9078A67G04 |
| **Fuse holders for CLS / JCL / 5HCLS** | | | |
| 30-230A Single barrel | Non-disconnect holder, porcelain | 60 | 5HLE-PNM-D |
| | Non-disconnect holder, glass polyester | 60 | 5HLE-GNM-D |
| | Disconnect holder, porcelain | 60 | 5HLE-PDM-D |
| | Disconnect holder, glass polyester | 60 | 5HLE-GDM-D |
| 390-450A Double barrel | Non-disconnect holder, porcelain | 60 | 5HLE-PNM-E |
| | Non-disconnect holder, glass polyester | 60 | 5HLE-GNM-E |
| | Disconnect holder, porcelain | 60 | 5HLE-PDM-E |
| | Disconnect holder, glass polyester | 60 | 5HLE-GDM-E |
| **Fuse holders for 5LCLS†** | | | |
| 70-230A Single barrel | Non-disconnect holder, porcelain | 60 | 5CLE-PNM-D |
| | Non-disconnect holder, glass polyester | 60 | 5CLE-GNM-D |
| | Disconnect holder, porcelain | 60 | 5CLE-PDM-D |
| | Disconnect holder, glass polyester | 60 | 5CLE-GDM-D |
| | Disconnect holder, porcelain | 75 | 8CLE-PDM-D |
| | Disconnect holder, glass polyester | 75 | 8CLE-GDM-D |
| 390-450A Double Barrel | Disconnect holder, porcelain | 60 | 5CLE-PDM-E |
| | Disconnect holder, glass polyester | 60 | 5CLE-GDM-E |

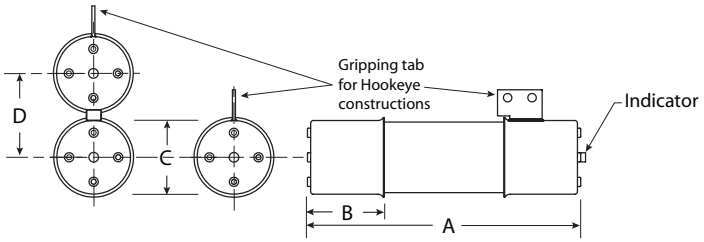
* Single barrel only, not sold in pairs.
** Not available for standard - long constructions
† Not available for 390 to 450 amp ratings.

### Dimensions - in [mm]

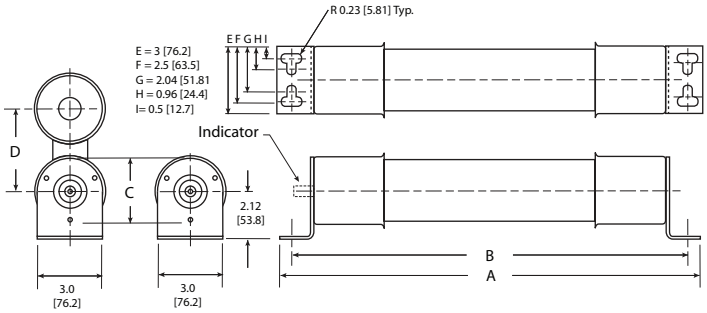
| Construction | Amp range | Dimension A | B | C | D |
|---|---|---|---|---|---|
| Standard - short | 30-230A | 15.6 (396) | 3 (76) | 3 (76) | — |
| | 390-450A | 15.6 (396) | 3 (76) | 3 (76) | 3.3 (84) |
| Standard - long | 70-230A | 17.9 (455) | 3 (76) | 3 (76) | — |
| | 390-450A | 17.9 (455) | 3 (76) | 3 (76) | 3.3 (84) |
| AMPGARD hookeye* | 30-230A | 15.9 (404) | 3 (76) | 3 (76) | — |
| | 390-450A | 15.9 (404) | 3 (76) | 3 (76) | 3.3 (84) |
| Bolt-on | 30-230A | 19.2 (488) | 17.9 (455) | 3 (76) | — |
| | 390-450A | 19.2 (488) | 17.9 (455) | 3 (76) | 3.3 (84) |

* Includes hermetically sealed versions.

Standard (short and long) and AMPGARD Hookeye




Bolt-on



## 4.8kV R-Rated fuse catalog numbers

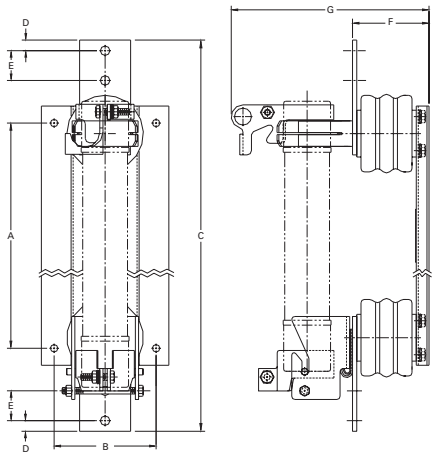
| Amp Rating | "R" Designation | Mounting style (minimum interrupting rating in amps) | | | | | Number of barrels |
|---|---|---|---|---|---|---|---|
| | | | | AMPGARD Hookeye | | | |
| | | Standard - short | Standard - long | Regular | Hermetically sealed | Bolt-on | |
| 30 | — | 5CLS-30* (95) | — | 5ACLS-30* (95) | 5HCLS-30* (95) | 5BCLS-30* (95) | 1 |
| 70 | 2R | JCL-2R (165) | 5LCLS-2R (165) | JCL-A-2R | 5HCLS-2R (180) | 5BCLS-2R (180) | 1 |
| 100 | 3R | JCL-3R (220) | 5LCLS-3R (220) | JCL-A-3R | 5HCLS-3R (270) | 5BCLS-3R (270) | 1 |
| 130 | 4R | JCL-4R (320) | 5LCLS-4R (320) | JCL-A-4R | 5HCLS-4R (350) | 5BCLS-4R (350) | 1 |
| 150 | 5R | JCL-5R (410) | 5LCLS-5R (410) | JCL-A-5R | 5HCLS-5R (450) | 5BCLS-5R (450) | 1 |
| 170 | 6R | JCL-6R (480) | 5LCLS-6R (480) | JCL-A-6R | 5HCLS-6R (540) | 5BCLS-6R (540) | 1 |
| 200 | 9R | JCL-9R (720) | 5LCLS-9R (720) | JCL-A-9R | 5HCLS-9R (700) | 5BCLS-9R (700) | 1 |
| 230 | 12R | JCL-12R (970) | 5LCLS-12R (970) | JCL-A-12R | 5HCLS-12R (1000) | 5BCLS-12R (1000) | 1 |
| 390 | 18R | JCL-18R (1430) | 5LCLS-18R (1430) | JCL-A-18R | 5HCLS-18R (1450) | 5BCLS-18R (1450) | 2 |
| 450 | 24R | JCL-24R (1880) | 5LCLS-24R (1880) | JCL-A-24R | 5HCLS-24R (2000) | 5BCLS-24R (2000) | 2 |
| 600 | 32R | — | — | — | — | 5BCLS-32R (2600) | 2 |
| 650 | 36R | — | — | — | — | 5BCLS-36R (3000) | 2 |
| 800 | 44R | — | — | — | — | 5BCLS-44R (3250) | 2 |

* Does not comply with ANSI C37.46 for "R" rating.

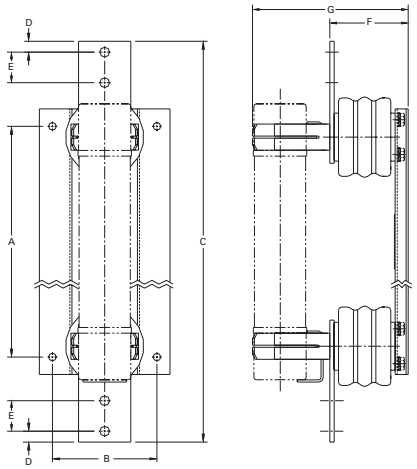
## 5CLS, JCL, JCL-A, 5ACLS, 5HCLS and 5LCLS Type mountings - in (mm)

| | Hole centers A | B | Overall length C | Hole insert D | Hole centers E | Contact height F | Overall height G | |
|---|---|---|---|---|---|---|---|---|
| **Disconnect single barrel†** | | | | | | | | |
| 5CLE-GDM-D | 15.24 (387.1) | 6 (152.4) | 25 (647.7) | 0.62 (15.7) | 1.75 (44.4) | 4.5 (114.3) | 11.72 (297.7) | 60 |
| 5CLE-PDM-D | 15.24 (387.1) | 6 (152.4) | 25 (647.7) | 0.62 (15.7) | 1.75 (44.4) | 4.5 (114.3) | 11.72 (297.7) | 60 |
| 5HLE-PDM-D | 16.25 (412.8) | 6 (152.4) | 23 (584.2) | 0.62 (15.7) | 1.75 (44.4) | 4.5 (114.3) | 11.72 (297.7) | 60 |
| 5HLE-GDM-D | 16.25 (412.8) | 6 (152.4) | 23 (584.2) | 0.62 (15.7) | 1.75 (44.4) | 4.5 (114.3) | 11.72 (297.7) | 60 |
| **Disconnect double barrel†** | | | | | | | | |
| 5CLE-GDM-E | 15.24 (387.1) | 6 (152.4) | 25 (647.7) | 0.62 (15.7) | 1.75 (44.4) | 4.5 (114.3) | 15.28 (388.1) | 60 |
| 5CLE-PDM-E | 15.24 (387.1) | 6 (152.4) | 25 (647.7) | 0.62 (15.7) | 1.75 (44.4) | 4.5 (114.3) | 15.28 (388.1) | 60 |
| 5HLE-GDM-E | 16.25 (412.8) | 6 (152.4) | 23 (584.2) | 0.62 (15.7) | 1.75 (44.4) | 4.5 (114.3) | 15.28 (388.1) | 60 |
| 5HLE-PDM-E | 16.25 (412.8) | 6 (152.4) | 23 (584.2) | 0.62 (15.7) | 1.75 (44.4) | 4.5 (114.3) | 15.28 (388.1) | 60 |
| **Non-disconnect single barrel** | | | | | | | | |
| 5CLE-GNM-D | 15.24 (387.1) | 6 (152.4) | 25 (635.0) | 0.62 (15.7) | 1.75 (44.4) | 4.5 (114.3) | 8.79 (223.3) | 60 |
| 5CLE-PNM-D | 15.24 (387.1) | 6 (152.4) | 25 (635.0) | 0.62 (15.7) | 1.75 (44.4) | 4.5 (114.3) | 8.79 (223.3) | 60 |
| 5HLE-GNM-D | 16.25 (412.7) | 6 (152.4) | 23 (584.2) | 0.62 (15.7) | 1.75 (44.4) | 4.5 (114.3) | 8.79 (223.3) | 60 |
| 5HLE-PNM-D | 16.25 (412.7) | 6 (152.4) | 23 (584.2) | 0.62 (15.7) | 1.75 (44.4) | 4.5 (114.3) | 8.79 (223.3) | 60 |
| **Non-disconnect double barrel** | | | | | | | | |
| 5HLE-PNM-E | 16.25 (412.7) | 6 (152.4) | 25 (635.0) | 0.62 (15.7) | 1.75 (44.4) | 4.5 (114.3) | 12.48 (317.0) | 60 |
| 5HLE-GNM-E | 16.25 (412.7) | 6 (152.4) | 25 (635.0) | 0.62 (15.7) | 1.75 (44.4) | 4.5 (114.3) | 12.48 (317.0) | 60 |

### 4.8kV disconnect mounting†

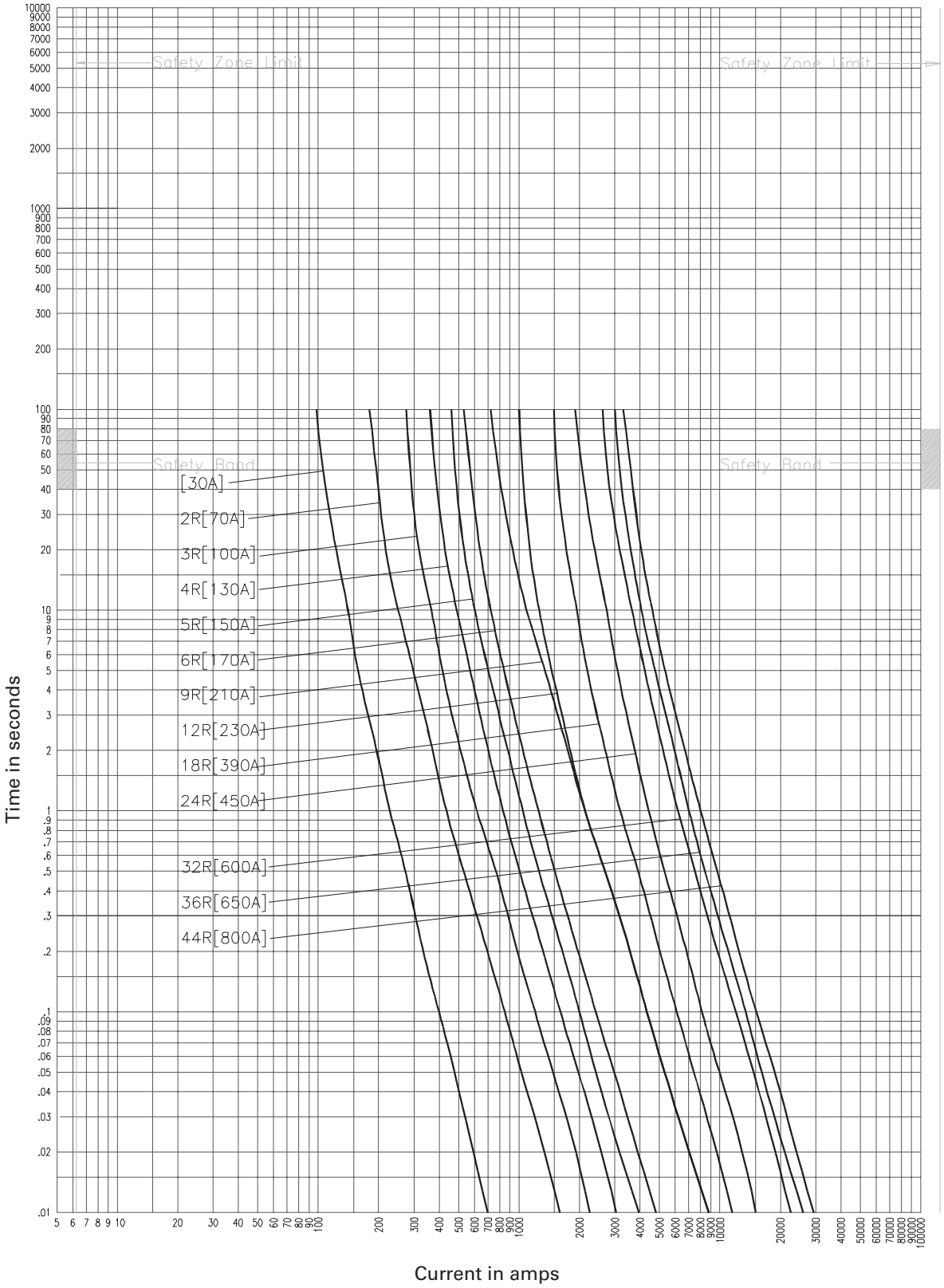



### 4.8kV non-disconnect mounting




† Disconnect mountings provide a means for fuse extraction only. Do not use a disconnect mounting for load switching or fuse removal while energized.

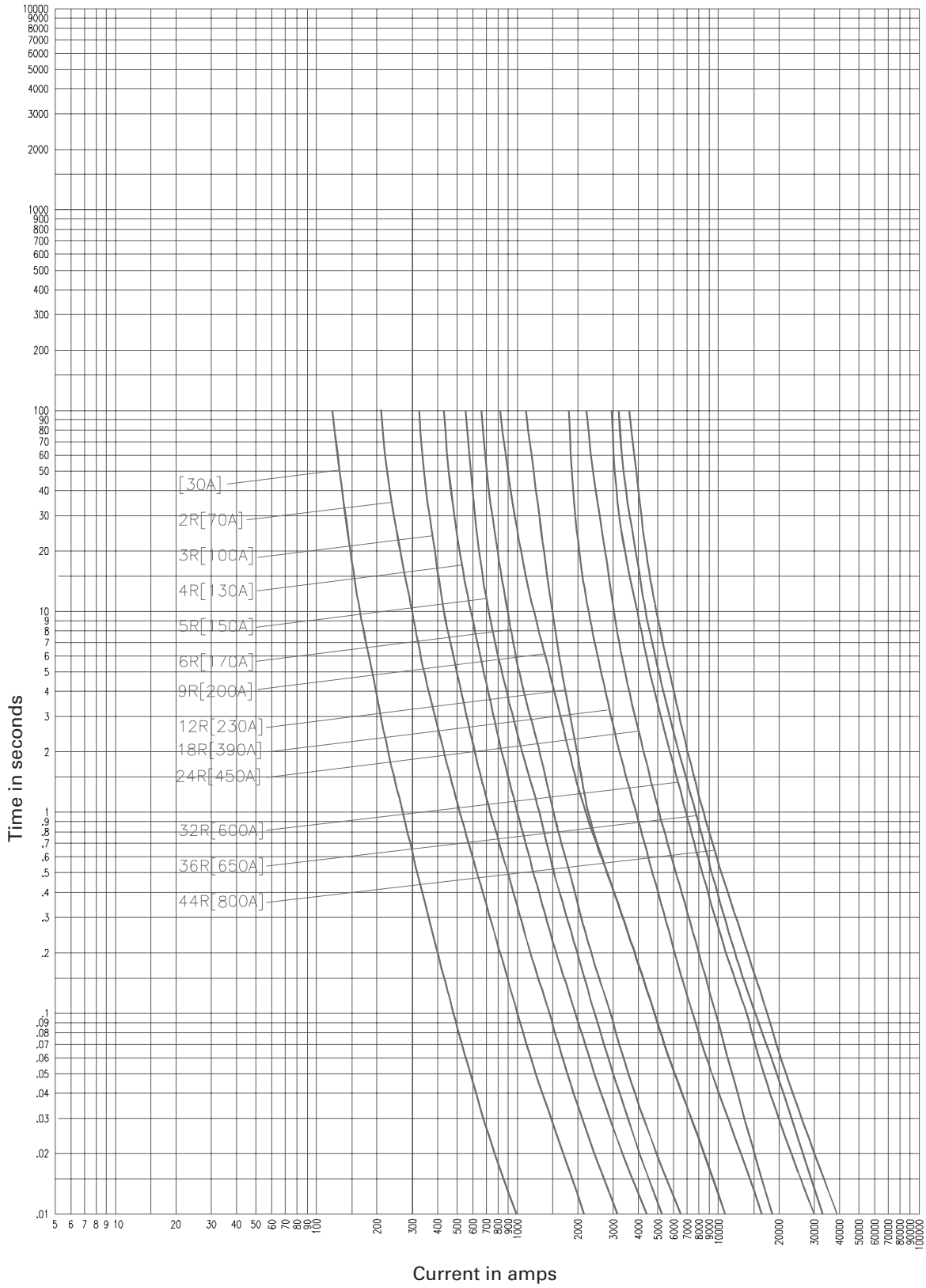
**4.8kV time-current curves — minimum melting for 5ACLS-30, 5CLS-30, 5HCLS-_R, 5BCLS-30 and 5BCLS-_R (30A, 2R-24R @ 25°C)**




CURVE 66690602
January 2001
Reference # 666907, 666703, 666910, 667000, 639472.

5ACLS-30, 5CLS-30, 5HCLS-_R, 5BCLS-30, 5BCLS-_R, 5MCLS-_R-A, 5MCLS-_R-B

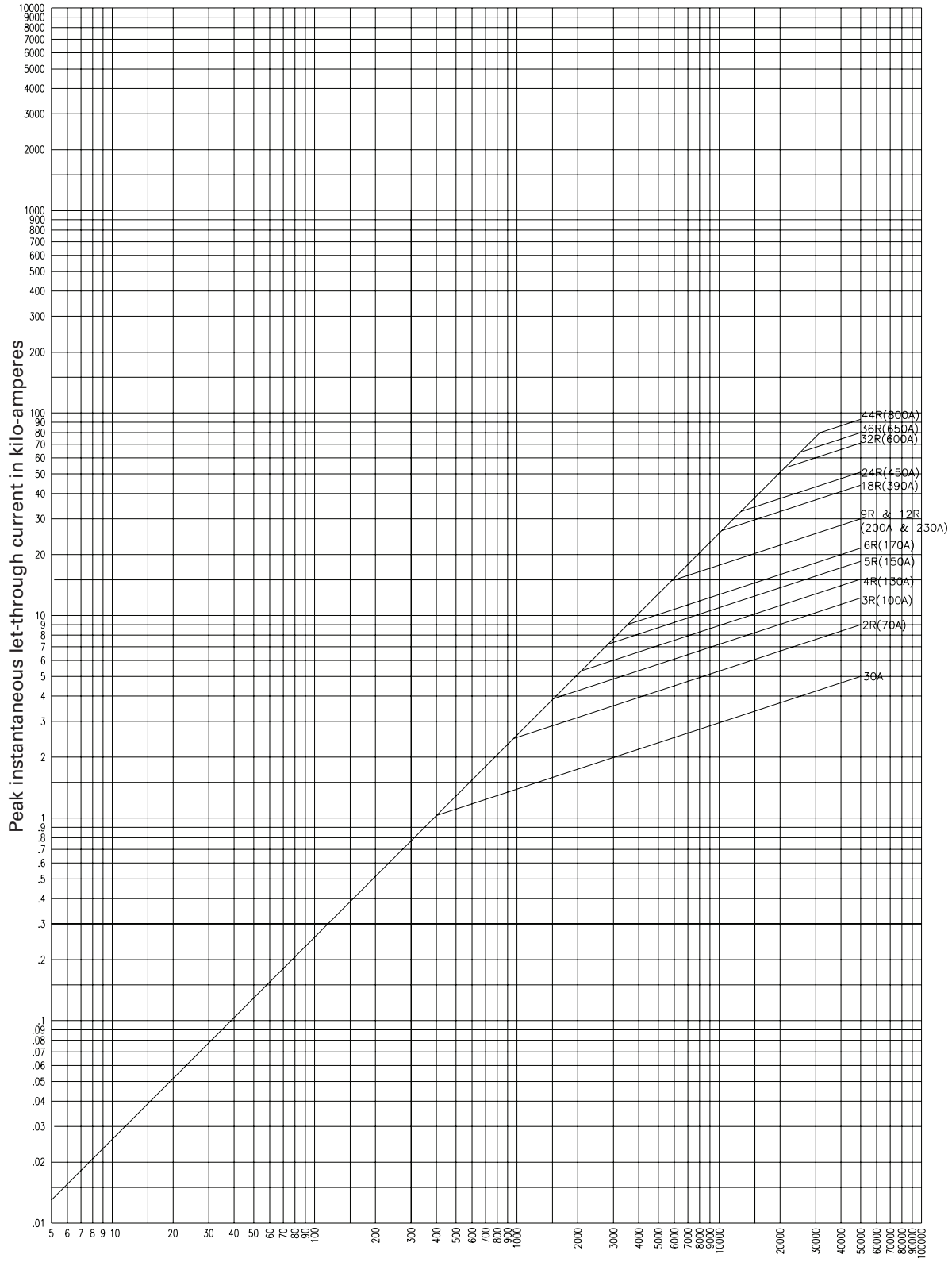
**4.8kV time-current curves — total clearing for 5ACLS-30, 5CLS-30, 5HCLS-_R, 5BCLS-30 and 5BCLS-_R (30A, 2R-24R @ 25°C)**




CURVE 66690702
January 2001
Reference # 666907
666704, 666910,
6670001, 639472.

5ACLS-30, 5CLS-30, 5HCLS-_R, 5BCLS-30, 5BCLS-_R,
5MCLS-_R-A, 5MCLS-_R-B

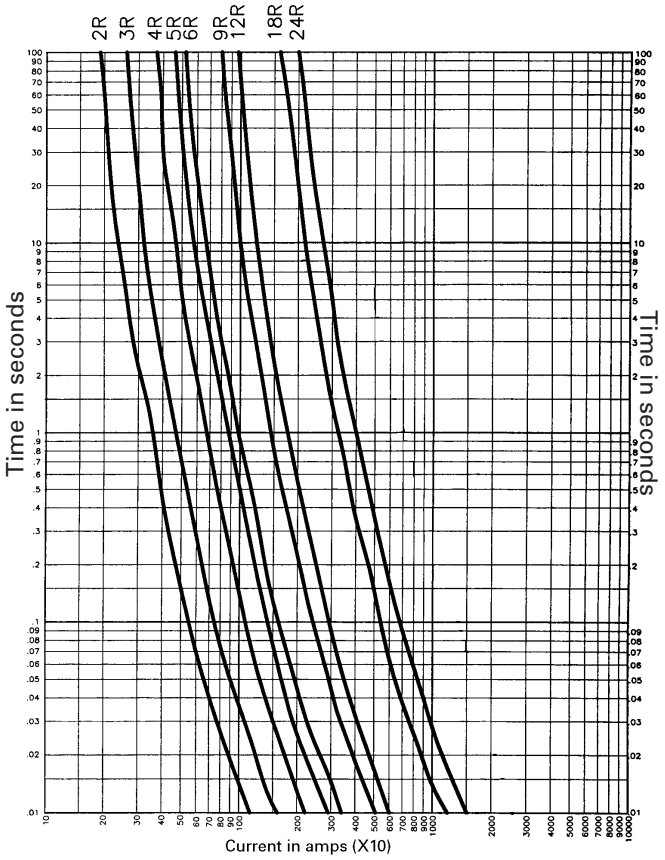
**4.8kV peak let-through curves for 5ACLS-30, 5CLS-30, 5HCLS-_R, 5BCLS-30 and 5BCLS-_R (30A, 2R-24R @ 25°C)**



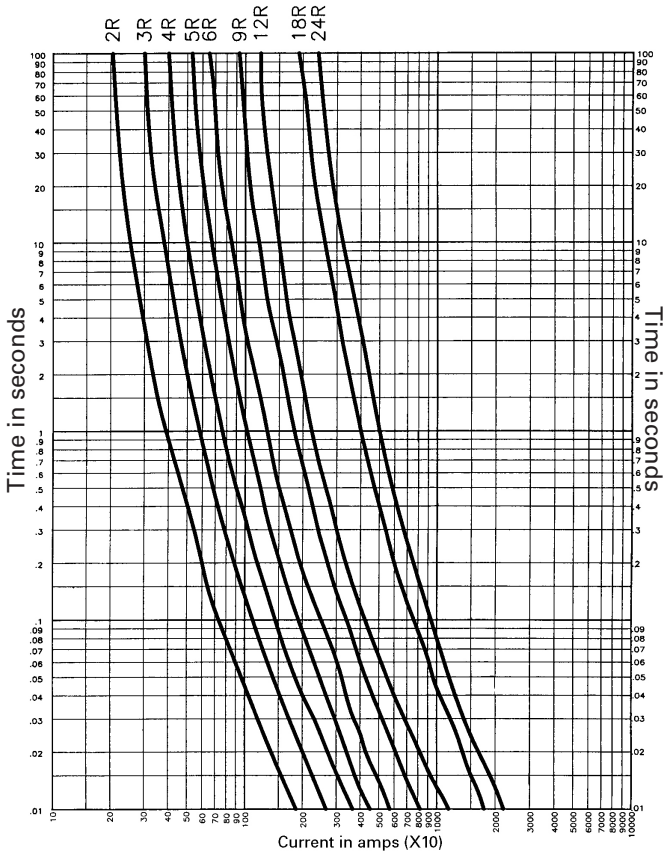

5ACLS-30, 5CLS-30, 5HCLS-_R, 5BCLS-30, 5BCLS-_R,
5MCLS-_R-A, 5MCLS-_R-B

CURVE 66700203
January 2001
Reference # 639315
667002, 667008

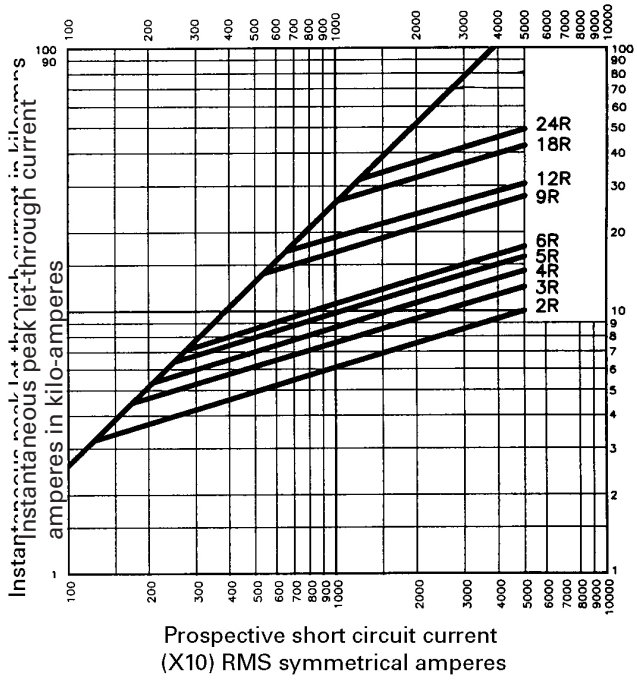
**4.8kV time-current curves — minimum melting for JCL-_R and JCL-A-_R (2R-24R @25°C)**



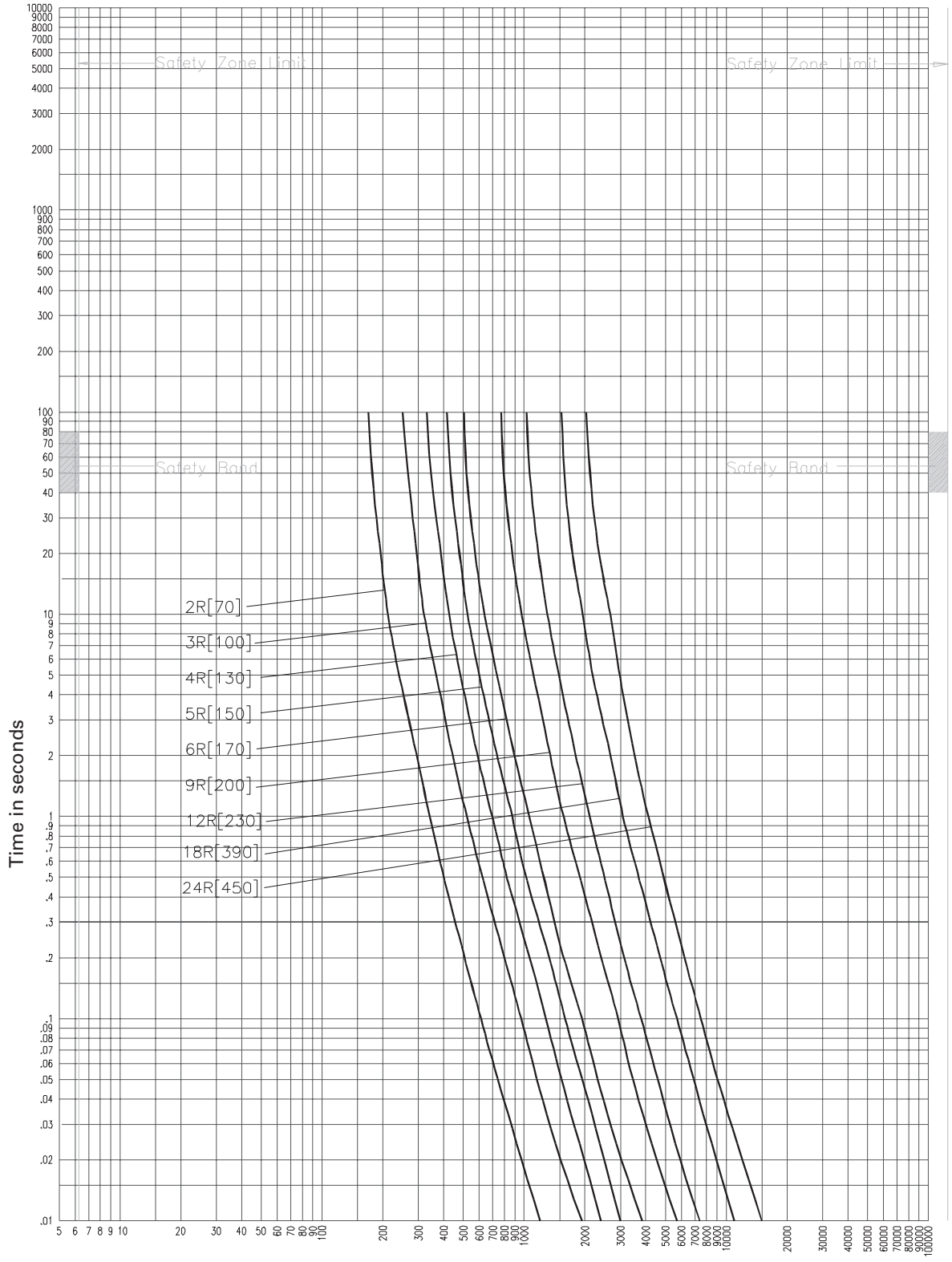

**4.8kV time-current curves — total clearing for JCL-_R and JCL-A-_R (2R-24R @25°C)**




**4.8kV peak let-through curves for JCL-_R and JCL-A-_R (2R-24R @25°C)**



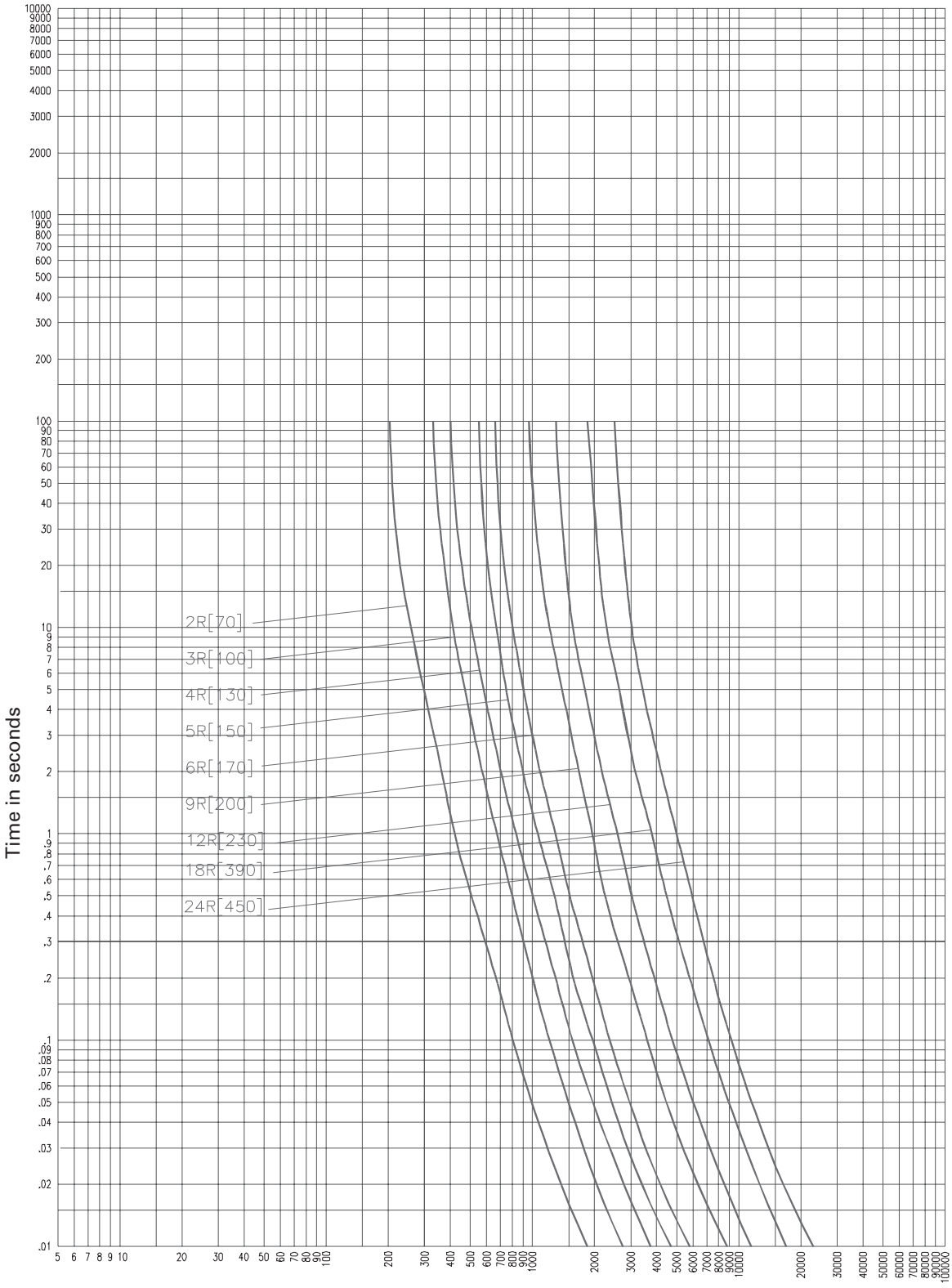
**4.8kV time-current curves — minimum melting for 5LCLS-_R (2R-24R @ 25°C)**




CURVE 51285302
January 2001
Reference # 512853,
563863.

5LCLS-_R

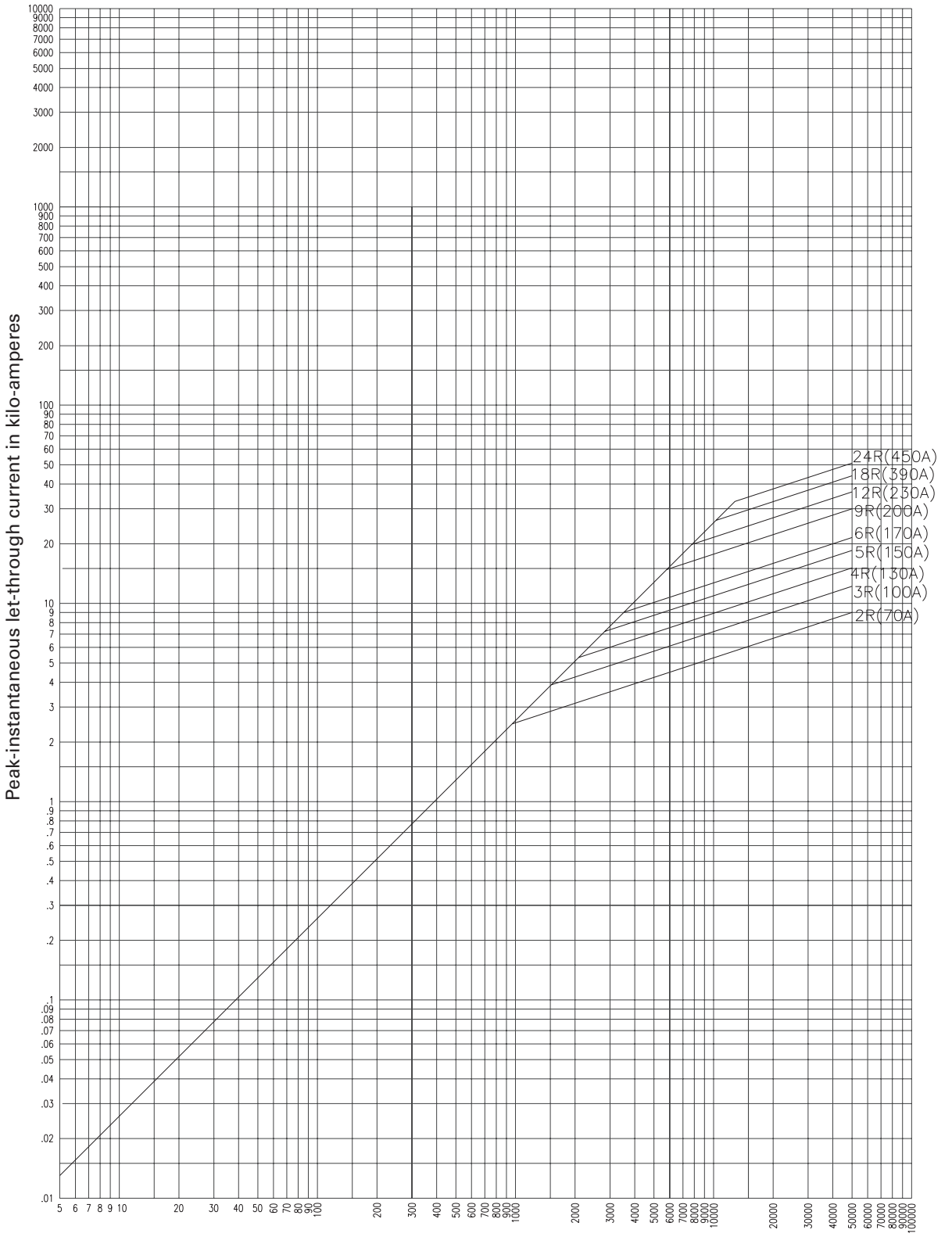
**4.8kV time-current curves — total clearing for 5LCLS-_R (2R-24R @ 25°C)**




CURVE 51285402
January 2001
Reference # 512854,
563864.

5LCLS-_R

**4.8kV peak let-through curves for 5LCLS-_R (2R-24R @ 25°C)**




5LCLS-_R

## 7.2kV R-Rated fuses

### Catalog symbols:

| Code-(amps)R | Construction |
|---|---|
| 8CLS-_R | Standard (2R - 6R) |
| 7CLS-_R | Standard (9R - 24R) |
| 8ACLS-_R | AMPGARD hookeye* (2R - 6R) |
| 7ACLS-_R | AMPGARD hookeye* (9R - 24R) |
| 7BCLS-_R | Bolt-on (2R - 44R) |

* For use in 400 amp AMPGARD motor starters.

### Ratings:

- Volts
  - 7.2kV (nominal)
  - 8.3kV (max design 70-170A standard and AMPGARD Hookeye)
  - 7.2kV (max design 200-450A standard and AMPGARD Hookeye)
  - 7.2kV (max design 70-800 bolt-on)
- Amps 25-450A
- Interrupting ratings
  - 50kA Sym
  - 80kA Asym

### Recommended fuse holders for standard constructions:

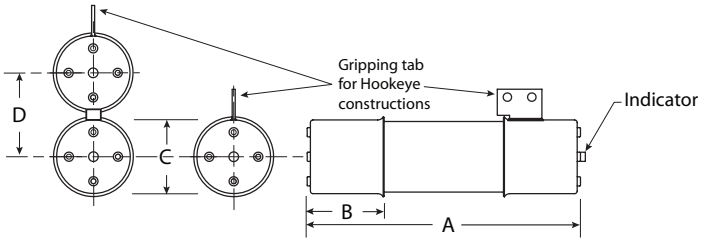
| Amp range | Description | BIL (kV) | Cat. No. |
|---|---|---|---|
| **Fuseclips** | | | |
| 70-230A | 3" Enclosed fuseclip* | — | A3354730 |
| 70-450A | 3" Open fuseclip | — | 1A0065 |
| | 3" Spring loaded open fuseclip | — | 9078A67G04 |
| **Fuse holders for 7CLS and 8CLS** | | | |
| 70-230A Single barrel | Non-disconnect holder, porcelain | 75 | 8HLE-PNM-D |
| | Non-disconnect holder, glass polyester | 75 | 8HLE-GNM-D |
| | Disconnect holder, porcelain | 75 | 8HLE-PDM-D |
| | Disconnect holder, glass polyester | 75 | 8HLE-GDM-D |
| 390-450A Double barrel | Non-disconnect holder, porcelain | 75 | 8HLE-PNM-E |
| | Non-disconnect holder, glass polyester | 75 | 8HLE-GNM-E |
| | Disconnect holder, porcelain | 75 | 8HLE-PDM-E |
| | Disconnect holder, glass polyester | 75 | 8HLE-GDM-E |

* Single barrel only, not sold in pairs.

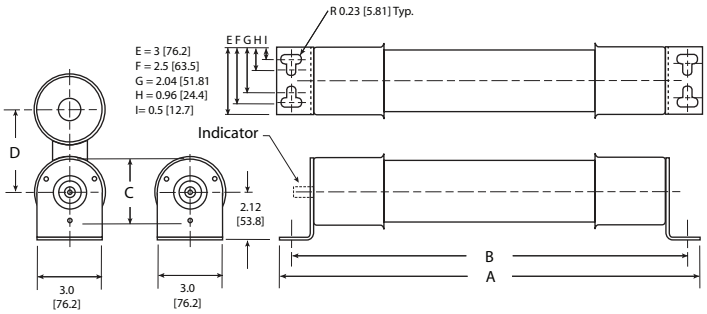
### Dimensions - in [mm]

| Construction | Amp range | Dimension A | B | C | D |
|---|---|---|---|---|---|
| Standard | 70-230A | 15.8 (401) | 3 (76) | 3 (76) | — |
| | 390-450A | 15.8 (401) | 3 (76) | 3 (76) | 3.3 (84) |
| AMPGARD hookeye | 70-230A | 15.8 (401) | 3 (76) | 3 (76) | — |
| | 390-450A | 15.8 (401) | 3 (76) | 3 (76) | 3.3 (84) |
| Bolt-on | 70-230A | 19.2 (488) | 17.9 (455) | 3 (76) | — |
| | 390-650A | 19.2 (488) | 17.9 (455) | 3 (76) | 3.3 (84) |
| | 800A | 19.2 (488) | 17.9 (455) | 4 (102) | 3.3 (84) |

Standard and AMPGARD hookeye




Bolt-on



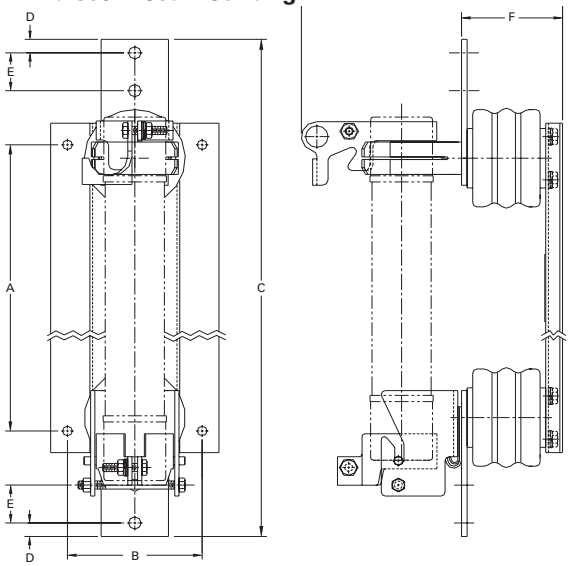
### 7.2kV R-Rated fuse catalog numbers

| Amp rating | "R" Designation | Mounting style (minimum interrupting rating in amps) | | | Number of barrels |
|---|---|---|---|---|---|
| | | Standard | AMPGARD Hookeye | Bolt-on | |
| 70 | 2R | 8CLS-2R (160) | 8ACLS-2R (160) | 7BCLS-2R (160) | 1 |
| 100 | 3R | 8CLS-3R (250) | 8ACLS-3R (250) | 7BCLS-3R (250) | 1 |
| 130 | 4R | 8CLS-4R (325) | 8ACLS-4R (325) | 7BCLS-4R (325) | 1 |
| 150 | 5R | 8CLS-5R (390) | 8ACLS-5R (390) | 7BCLS-5R (390) | 1 |
| 170 | 6R | 8CLS-6R (500) | 8ACLS-6R (500) | 7BCLS-6R (500) | 1 |
| 200 | 9R | 7CLS-9R (750) | 7ACLS-9R (750) | 7BCLS-9R (750) | 1 |
| 230 | 12R | 7CLS-12R (1000) | 7ACLS-12R (1000) | 7BCLS-12R (1000) | 1 |
| 390 | 18R | 7CLS-18R (1450) | 7ACLS-18R (1450) | 7BCLS-18R (1450) | 2 |
| 450 | 24R | 7CLS-24R (2500) | 7ACLS-24R (2500) | 7BCLS-24R (2500) | 2 |
| 650 | 36R | — | — | 7BCLS-36R (3000) | 2 |
| 800 | 44R | — | — | 7BCLS-44R (3250) | 2 |

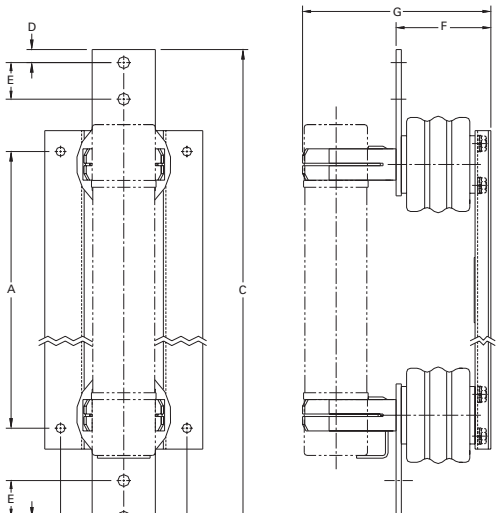
### 8CLS, 8ACLS, 7CLS, 7ACLS Type mountings - in (mm)

| Catalog number | Hole centers | Overall length | Hole inset | Hole centers | Contact height | Overall height | BIL rating (kV) |
|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | F | G | |
| **Disconnect single barrel†** | | | | | | | | |
| 8HLE-GDM-D | 16.25 (412.8) | 6 (152.4) | 23 (584.2) | 0.62 (15.7) | 1.75 (44.4) | 7 (177.8) | 11.72 (297.7) | 75 |
| 8HLE-PDM-D | 16.25 (412.8) | 6 (152.4) | 23 (584.2) | 0.62 (15.7) | 1.75 (44.4) | 7 (177.8) | 11.72 (297.7) | 75 |
| **Disconnect double barrel†** | | | | | | | | |
| 8HLE-GDM-E | 16.25 (412.8) | 6 (152.4) | 23 (584.2) | 0.62 (15.7) | 1.75 (44.4) | 7 (177.8) | 17.78 (451.6) | 75 |
| 8HLE-PDM-E | 16.25 (412.8) | 6 (152.4) | 23 (584.2) | 0.62 (15.7) | 1.75 (44.4) | 7 (177.8) | 17.78 (451.6) | 75 |
| **Non-disconnect single barrel** | | | | | | | | |
| 8HLE-GNM-D | 16.25 (412.7) | 6 (152.4) | 23 (584.2) | 0.62 (15.7) | 1.75 (44.4) | 7 (177.8) | 11.29 (286.7) | 75 |
| 8HLE-PNM-D | 16.25 (412.7) | 6 (152.4) | 23 (584.2) | 0.62 (15.7) | 1.75 (44.4) | 7 (177.8) | 11.29 (286.7) | 75 |
| **Non-disconnect double barrel** | | | | | | | | |
| 8HLE-GNM-E | 16.25 (412.7) | 6 (152.4) | 23 (584.2) | 0.62 (15.7) | 1.75 (44.4) | 7 (177.8) | 14.98 (380.5) | 75 |
| 8HLE-PNM-E | 16.25 (412.7) | 6 (152.4) | 23 (584.2) | 0.62 (15.7) | 1.75 (44.4) | 7 (177.8) | 14.98 (380.5) | 75 |

### 7.2kV disconnect mounting†

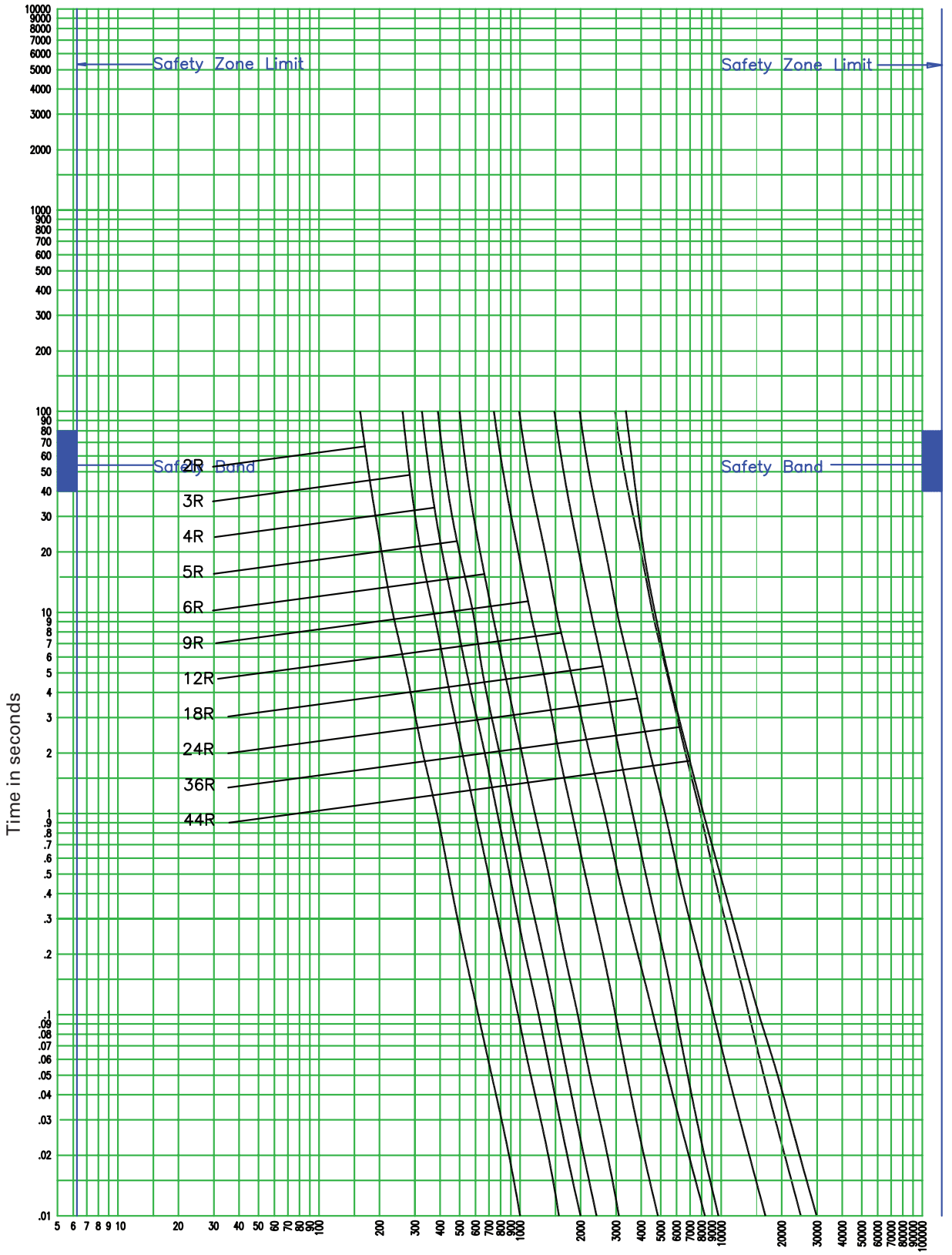



### 7.2kV non-disconnect mounting




† Disconnect mountings provide a means for fuse extraction only. Do not use a disconnect mounting for load switching or fuse removal while energized.

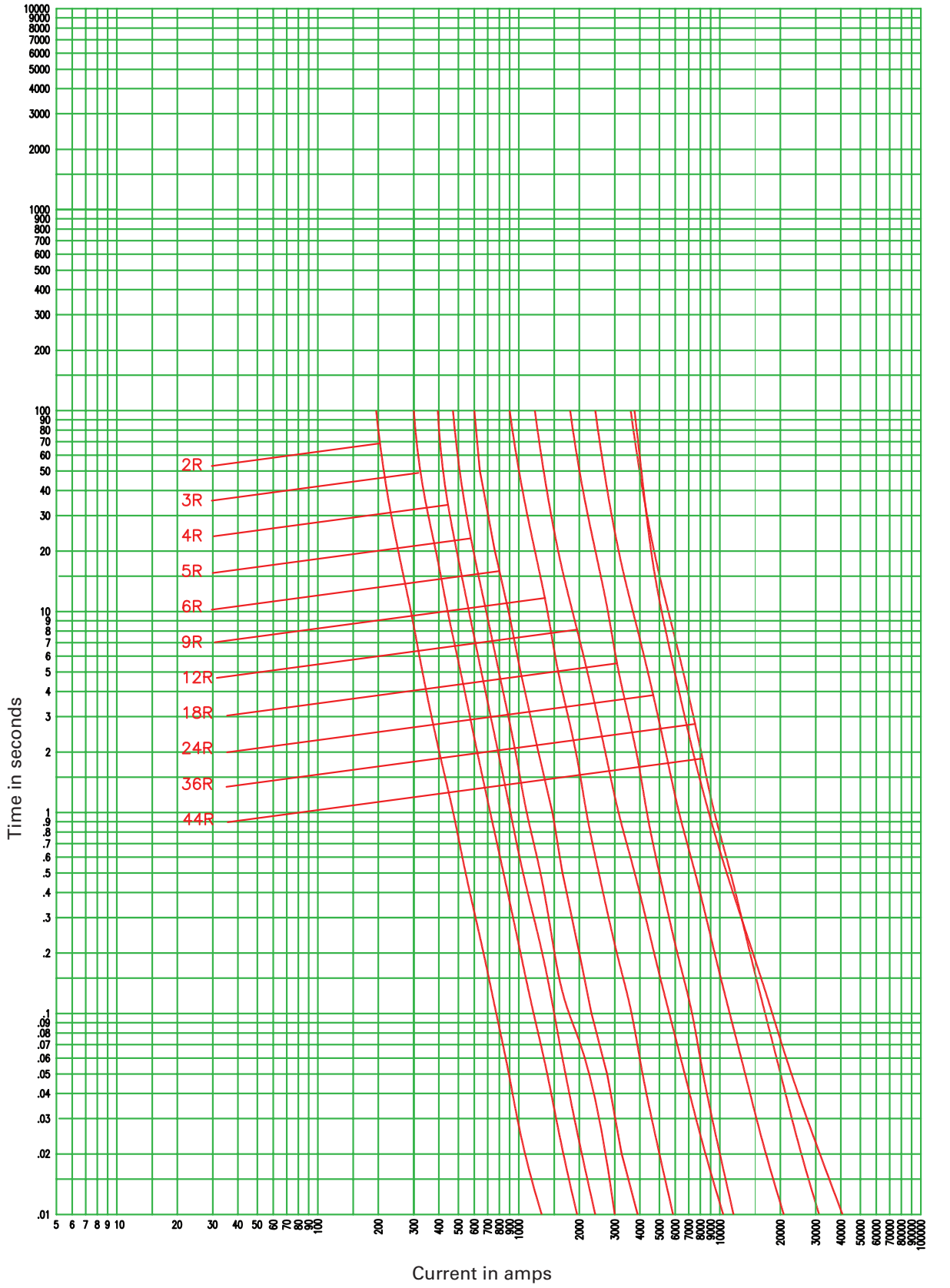
**7.2kV time-current curves — minimum melting for 8CLS-_R, 7CLS-_R, 8ACLS-_R, 7ACLS-_R and 7BCLS-_R (2R-44R @ 25C)**




CURVE TC66700602
December 2008

8CLS- R, 7CLS- R, 8ACLS- R, 7ACLS- R and 7BCLS- R

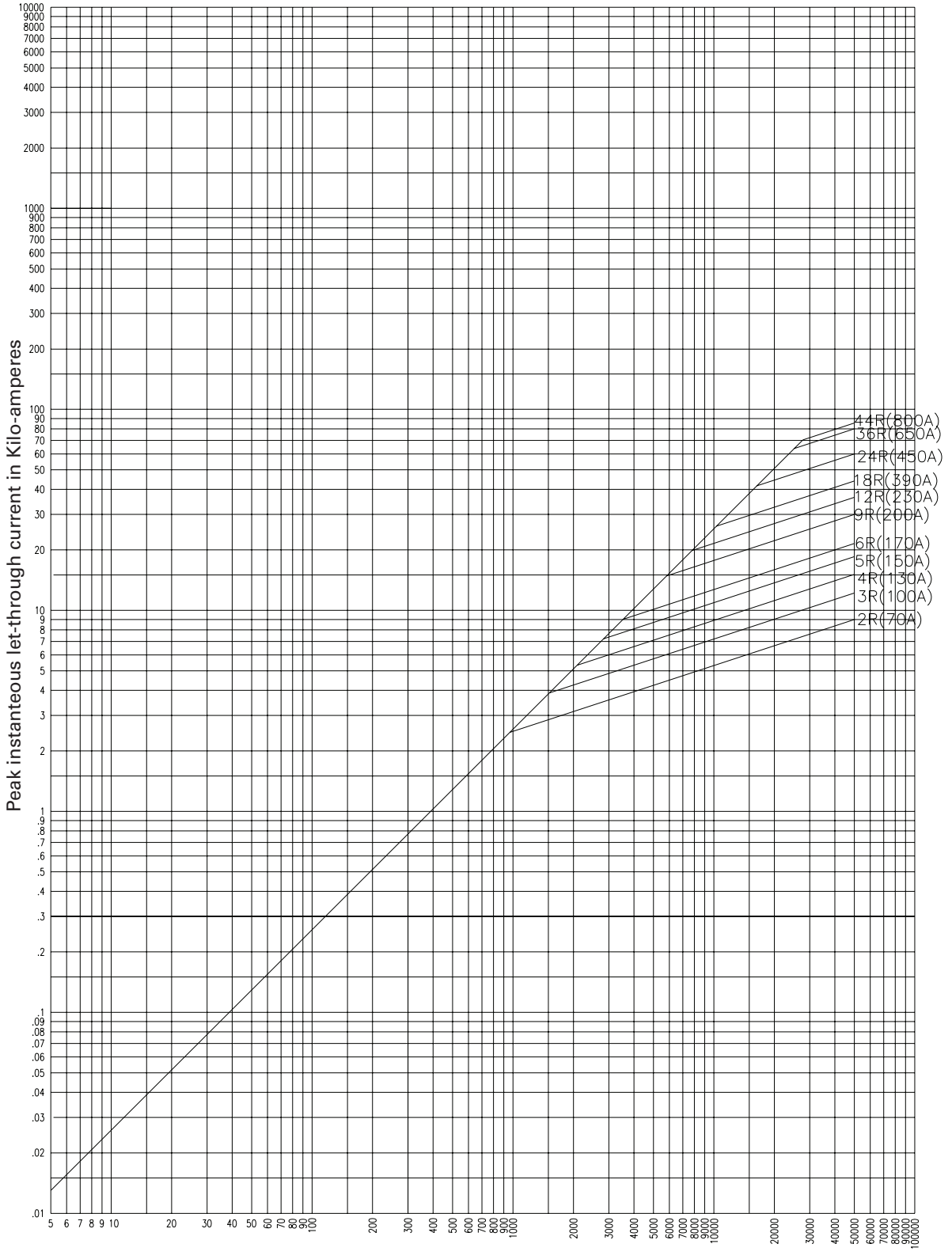
**7.2kV time-current curves — total clearing for 8CLS-_R, 7CLS-_R, 8ACLS-_R, 7ACLS-_R and 7BCLS-_R (2R-44R @ 25C)**




CURVE TC66700702
December 2008

8CLS-_R, 7CLS-_R, 8ACLS-_R, 7ACLS-_R and 7BCLS-_R

**7.2kV peak let-through curves for 8CLS-_R, 7CLS-_R, 8ACLS-_R, 7ACLS-_R and 7BCLS-_R (2R-44R @ 25C)**




CURVE 66700205
January 2001
Reference # 639315
667002, 667008

8CLS-_R, 7CLS-_R, 8ACLS-_R, 7ACLS-_R and 7BCLS-_R

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- Техническая поддержка проекта;
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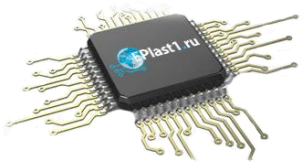


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