

# Ferrule fuse-links 10x38 gG 400 to 690VAC

## LOW VOLTAGE IEC FUSES

### IEC CYLINDRICAL FUSE-LINKS



Mersen aM and gG fuse-links cover a wide range of physical sizes and ampere ratings for 400, 500, and 690VAC for protection in electrical distribution circuits and various industrial applications. Most ratings are available in size 8x31 and size 10x38 with an optional indicator, and in size 14x51 and 22x58 with an optional striker to activate an auxiliary contact. Size 10x38 is also available with striker. All cylindrical fuse-links have ceramic bodies and silver-plated contacts. Cylindrical fuse-links “gG” are used for the protection of cables, motors and LV-networks. They limit and cut off unacceptable overcurrents and short-circuit currents up to their nominal breaking capacity. Cylindrical fuse-links “gG” also protect electrical equipment and installations against the dynamic effect of high short-currents. Our technology and process was designed to ensure highly reliable technical performance.

## TECHNICAL DATA OVERVIEW

|                      |                      |
|----------------------|----------------------|
| Voltage Range AC     | 400 ... 690 VAC      |
| Ampere Range (A)     | 0.5 ... 32 A         |
| Speed/Characteristic | gG                   |
| I.R. AC (IEC)        | 120 kA               |
| Body Material        | Ceramic              |
| Body Style           | cylindrical          |
| Contact Materials    | Silver plated copper |
| Product Size         | 10x38 mm             |

## FEATURES & BENEFITS

- Reduced size
- Full range protection
- Visual indication of fuse operation
- Safest and most reliable protection system

## APPLICATIONS

- gG type for protection of line, cable against overload and short circuit in various industrial application and electrical distribution circuits.

## STANDARDS

- IEC 60269-1 & -2 (electrically only for the range with striker)
- Approved by Lloyd's Register of Shipping and Bureau Veritas



# Ferrule fuse-links 10x38 gG 400 to 690VAC

## PRODUCT RANGE

### Size 10,3x38 gG 400/500VAC without indicator



FR10GG50V6



FR10GG40V32

| Catalog number | Reference number | Rated voltage AC (IEC) | Rated current I <sub>n</sub> | Rated breaking capacity AC | Power dissipation at I <sub>n</sub> | Weight |
|----------------|------------------|------------------------|------------------------------|----------------------------|-------------------------------------|--------|
| FR10GG50V0.5   | C211027          | 500 V                  | 0.5 A                        | 120 kA                     | 0.07 W                              | 8.3 g  |
| FR10GG50V1     | B212061          | 500 V                  | 1 A                          | 120 kA                     | 0.45 W                              | 8.3 g  |
| FR10GG50V2     | D213098          | 500 V                  | 2 A                          | 120 kA                     | 0.5 W                               | 8.3 g  |
| FR10GG50V4     | X213598          | 500 V                  | 4 A                          | 120 kA                     | 0.85 W                              | 8.3 g  |
| FR10GG50V6     | K215128          | 500 V                  | 6 A                          | 120 kA                     | 0.95 W                              | 8.3 g  |
| FR10GG50V8     | D217169          | 500 V                  | 8 A                          | 120 kA                     | 1.15 W                              | 8.3 g  |
| FR10GG50V12    | W219761          | 500 V                  | 12 A                         | 120 kA                     | 1.4 W                               | 8.3 g  |
| FR10GG50V10    | S218194          | 500 V                  | 10 A                         | 120 kA                     | 1.3 W                               | 8.3 g  |
| FR10GG50V16    | G200750          | 500 V                  | 16 A                         | 120 kA                     | 1.9 W                               | 8.3 g  |
| FR10GG50V20    | D211028          | 500 V                  | 20 A                         | 120 kA                     | 2.4 W                               | 8.3 g  |
| FR10GG50V25    | E213099          | 500 V                  | 25 A                         | 120 kA                     | 2.7 W                               | 8.3 g  |
| FR10GG40V32    | A214107          | 400 V                  | 32 A                         | 120 kA                     | 2.8 W                               | 8.3 g  |

### Size 10,3x38 gG 400/500VAC with indicator



FR10GG40V32I

| Catalog number | Reference number | Rated voltage AC (IEC) | Rated current I <sub>n</sub> | Rated breaking capacity AC | Power dissipation at I <sub>n</sub> | Weight |
|----------------|------------------|------------------------|------------------------------|----------------------------|-------------------------------------|--------|
| FR10GG50V2I    | S216653          | 500 V                  | 2 A                          | 120 kA                     | 0.5 W                               | 8.3 g  |
| FR10GG50V4I    | E217170          | 500 V                  | 4 A                          | 120 kA                     | 0.85 W                              | 8.3 g  |
| FR10GG50V6I    | T218195          | 500 V                  | 6 A                          | 120 kA                     | 0.95 W                              | 8.3 g  |
| FR10GG50V8I    | V219231          | 500 V                  | 8 A                          | 120 kA                     | 1.15 W                              | 8.3 g  |
| FR10GG50V10I   | E222207          | 500 V                  | 10 A                         | 120 kA                     | 1.3 W                               | 8.3 g  |
| FR10GG50V12I   | H200751          | 500 V                  | 12 A                         | 120 kA                     | 1.4 W                               | 8.3 g  |
| FR10GG50V16I   | H201809          | 500 V                  | 16 A                         | 120 kA                     | 1.9 W                               | 8.3 g  |
| FR10GG50V20I   | X211551          | 500 V                  | 20 A                         | 120 kA                     | 2.4 W                               | 8.3 g  |
| FR10GG50V25I   | W212585          | 500 V                  | 25 A                         | 120 kA                     | 2.7 W                               | 8.3 g  |
| FR10GG40V32I   | Z213600          | 400 V                  | 32 A                         | 120 kA                     | 2.8 W                               | 8.3 g  |

### Size 10,3x38 gG 250/400VAC with striker

| Catalog number | Reference number | Rated voltage AC (IEC) | Rated current I <sub>n</sub> | Rated breaking capacity AC | Power dissipation at I <sub>n</sub> | Weight |
|----------------|------------------|------------------------|------------------------------|----------------------------|-------------------------------------|--------|
| FR10GG40V2P    | G083703          | 400 V                  | 2 A                          | 100 kA                     | 0.6 W                               | 9.2 g  |
| FR10GG40V4P    | D084758          | 400 V                  | 4 A                          | 100 kA                     | 0.75 W                              | 9.2 g  |
| FR10GG40V6P    | Y084799          | 400 V                  | 6 A                          | 100 kA                     | 0.9 W                               | 9.2 g  |
| FR10GG40V8P    | F083955          | 400 V                  | 8 A                          | 100 kA                     | 1 W                                 | 9.2 g  |
| FR10GG40V10P   | A084801          | 400 V                  | 10 A                         | 100 kA                     | 1.1 W                               | 9.2 g  |
| FR10GG40V12P   | G083956          | 400 V                  | 12 A                         | 100 kA                     | 1.25 W                              | 9.2 g  |
| FR10GG40V16P   | X084798          | 380 V                  | 16 A                         | 100 kA                     | 1.35 W                              | 9.2 g  |
| FR10GG40V20P   | Z084800          | 380 V                  | 20 A                         | 100 kA                     | 1.45 W                              | 9.2 g  |
| FR10GG25V25P   | H083957          | 250 V                  | 25 A                         | 100 kA                     | 1.7 W                               | 9.2 g  |
| FR10GG25V32P   | E083954          | 250 V                  | 32 A                         | 100 kA                     | 2.2 W                               | 9.2 g  |

# Ferrule fuse-links 10x38 gG 400 to 690VAC

## PRODUCT RANGE



FR10GG69V6

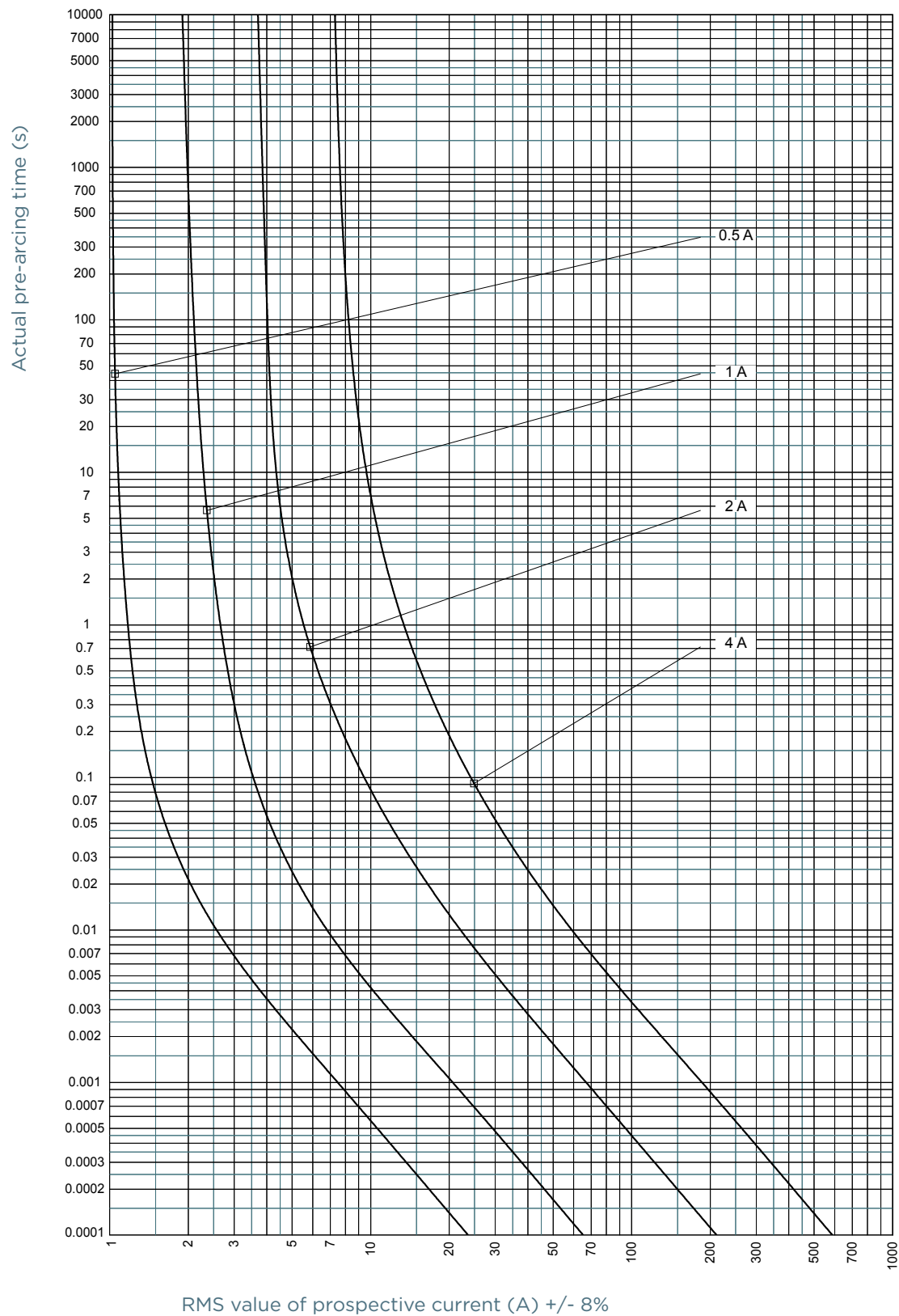
### Size 10,3x38 gG 690VAC without indicator

| Catalog number | Reference number | Rated voltage AC (IEC) | Rated current I <sub>n</sub> | Rated breaking capacity AC | Power dissipation at I <sub>n</sub> | Weight |
|----------------|------------------|------------------------|------------------------------|----------------------------|-------------------------------------|--------|
| FR10GG69V1     | R302787          | 690 V                  | 1 A                          | 120 kA                     | 0.45 W                              | 9 g    |
| FR10GG69V2     | S302788          | 690 V                  | 2 A                          | 120 kA                     | 0.55 W                              | 9 g    |
| FR10GG69V4     | T302789          | 690 V                  | 4 A                          | 120 kA                     | 0.6 W                               | 9 g    |
| FR10GG69V6     | V302790          | 690 V                  | 6 A                          | 120 kA                     | 0.9 W                               | 9 g    |
| FR10GG69V8     | W302791          | 690 V                  | 8 A                          | 120 kA                     | 1 W                                 | 9 g    |
| FR10GG69V10    | X302792          | 690 V                  | 10 A                         | 120 kA                     | 1.15 W                              | 9 g    |
| FR10GG69V12    | Y302793          | 690 V                  | 12 A                         | 120 kA                     | 1.4 W                               | 9 g    |
| FR10GG69V16    | Z302794          | 690 V                  | 16 A                         | 120 kA                     | 1.9 W                               | 9 g    |

# Ferrule fuse-links 10x38 gG 400 to 690VAC

## TIME CURRENT CHARACTERISTIC CURVES

Size 10x38 500V gG without striker

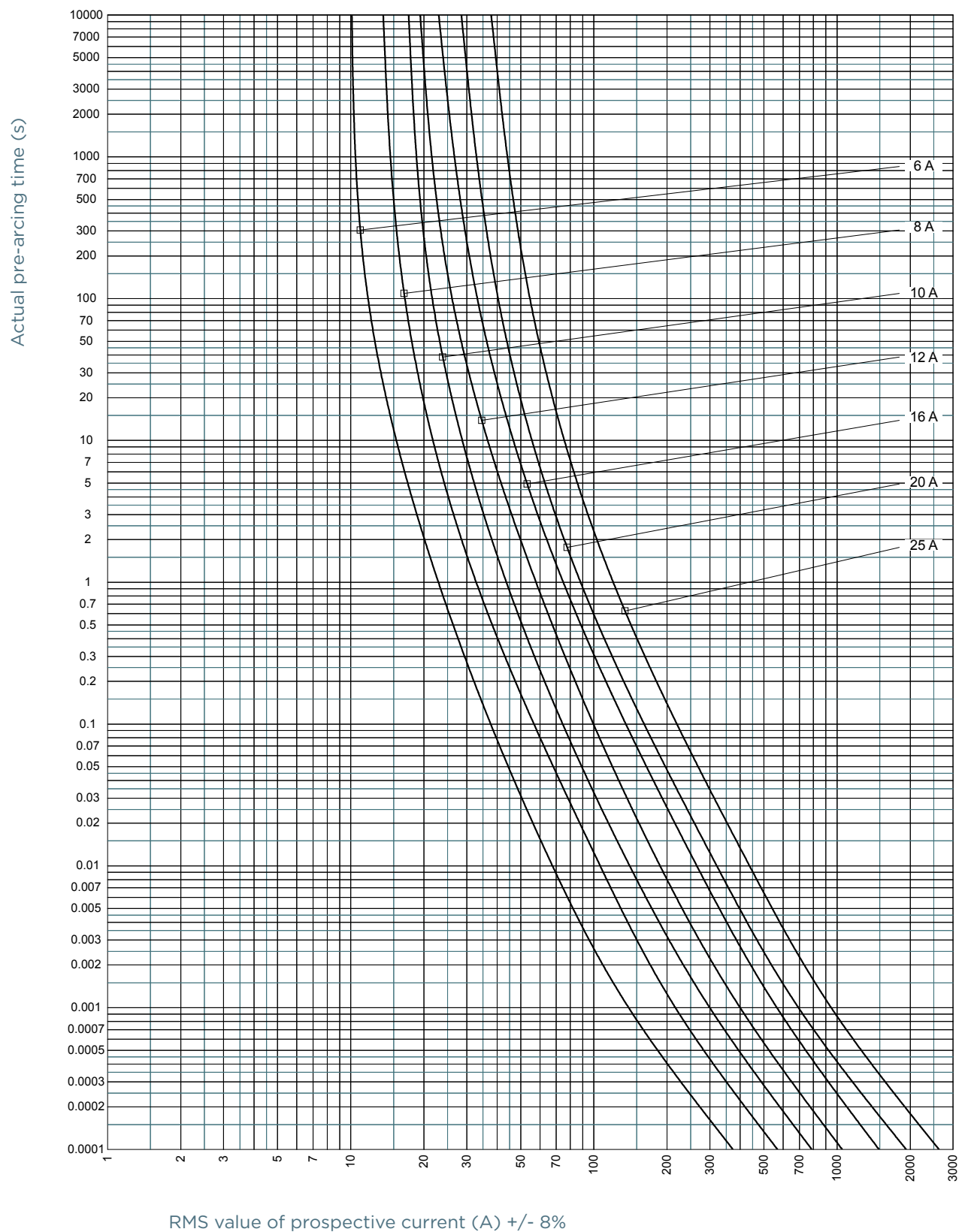


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# Ferrule fuse-links 10x38 gG 400 to 690VAC

## TIME CURRENT CHARACTERISTIC CURVES

Size 10x38 500V gG without striker

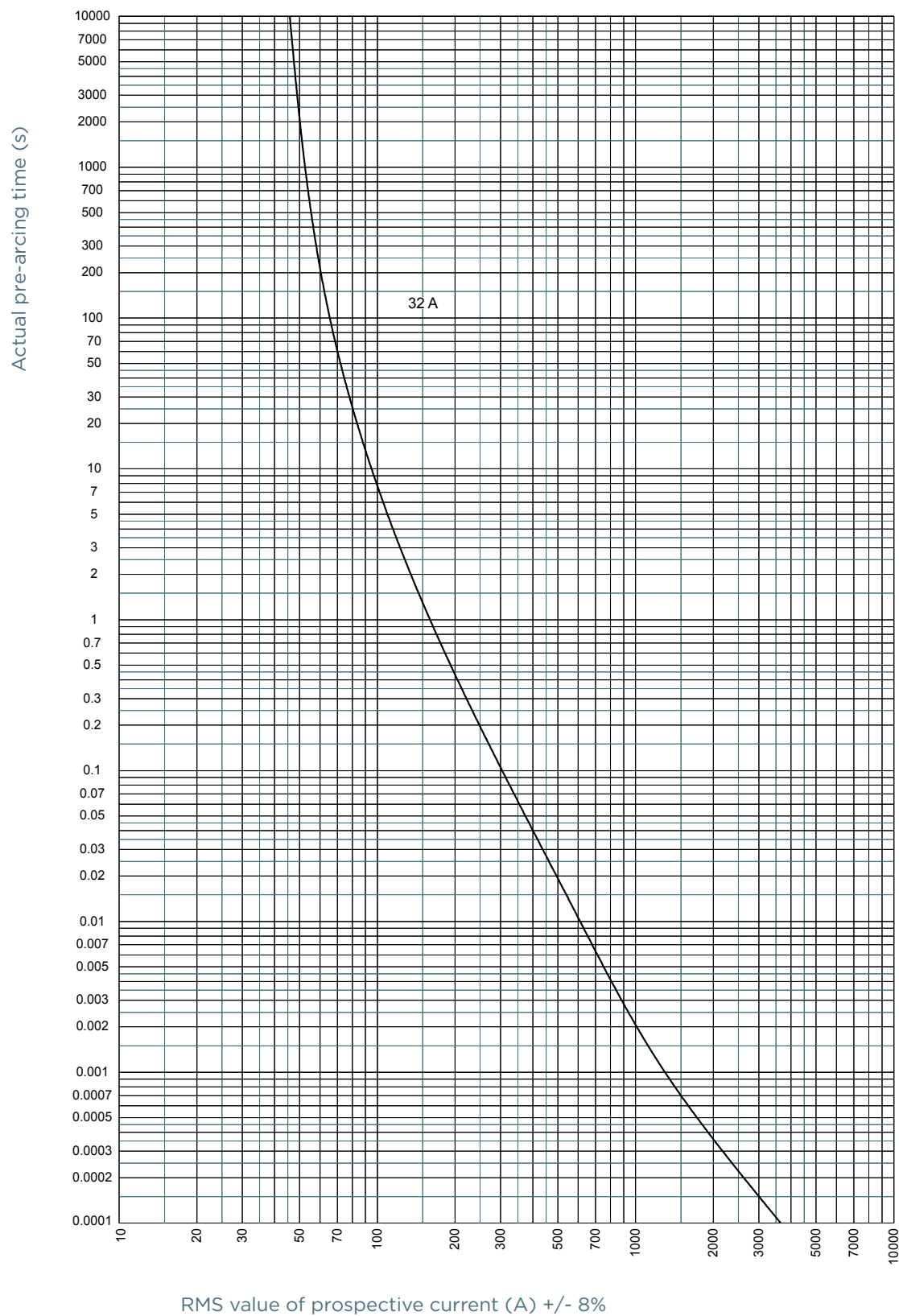


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# Ferrule fuse-links 10x38 gG 400 to 690VAC

## TIME CURRENT CHARACTERISTIC CURVES

Size 10x38 400V gG without striker

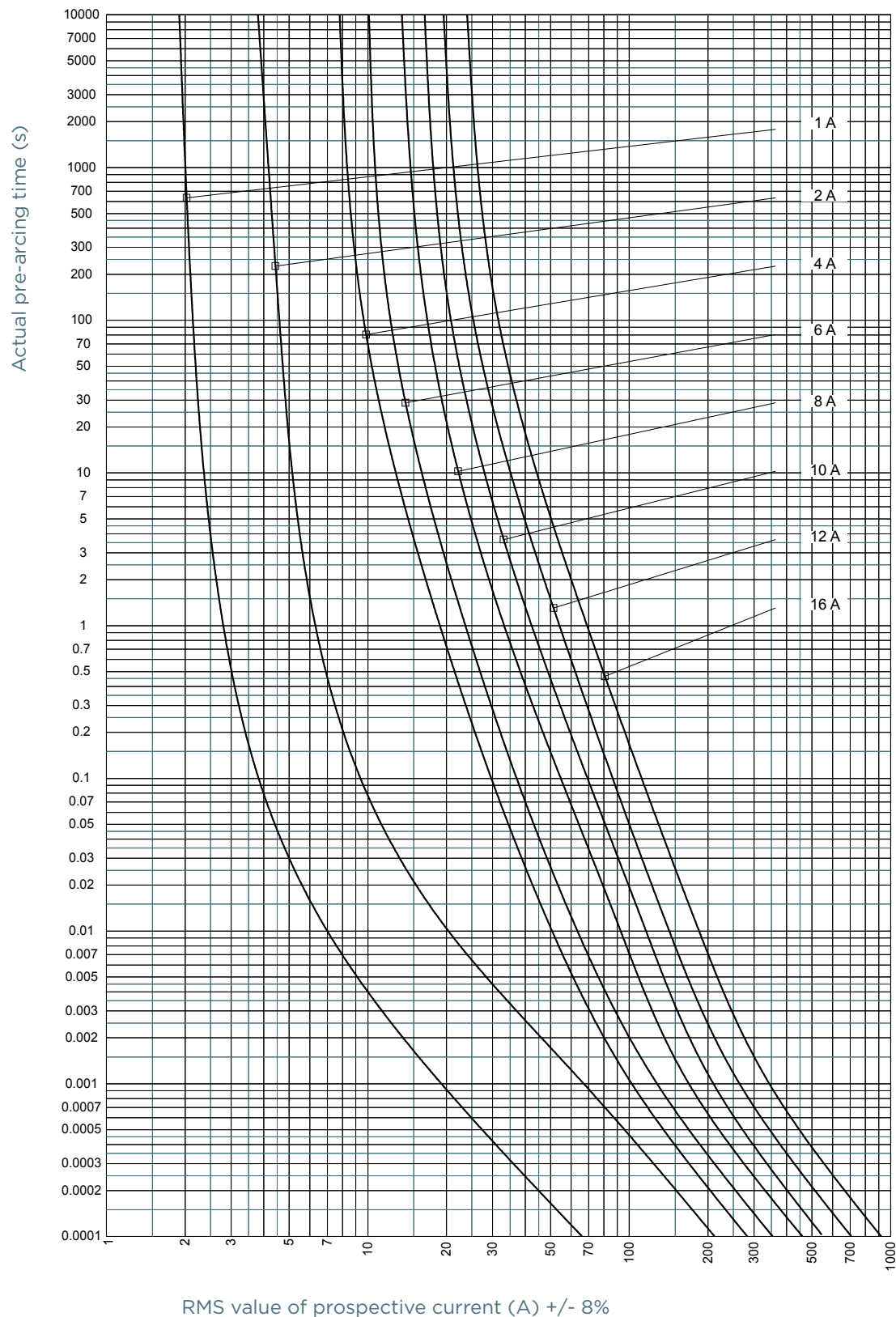


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# Ferrule fuse-links 10x38 gG 400 to 690VAC

## TIME CURRENT CHARACTERISTIC CURVES

Size 10x38 690V gG without striker

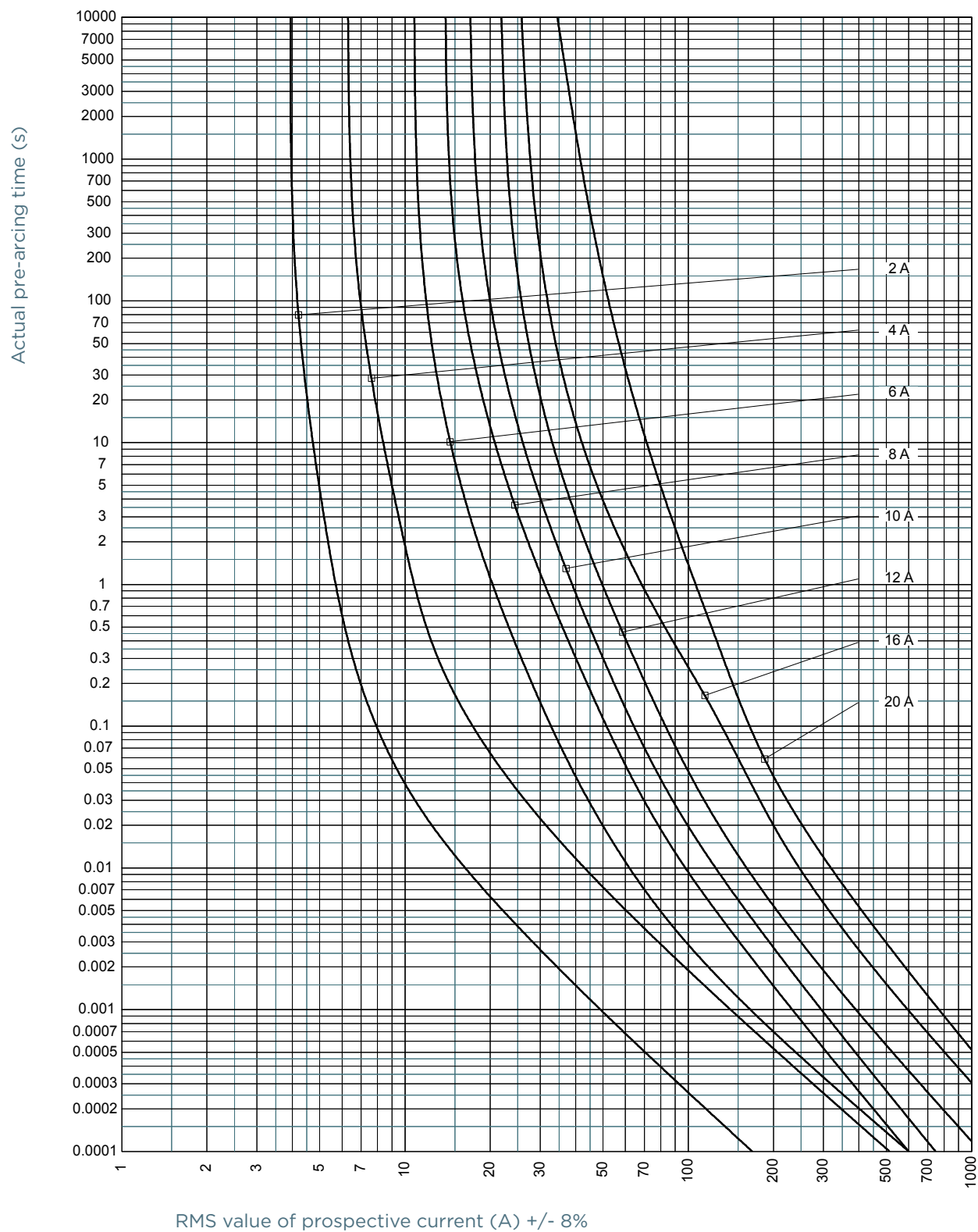


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# Ferrule fuse-links 10x38 gG 400 to 690VAC

## TIME CURRENT CHARACTERISTIC CURVES

Size 10x38 400V gG with striker



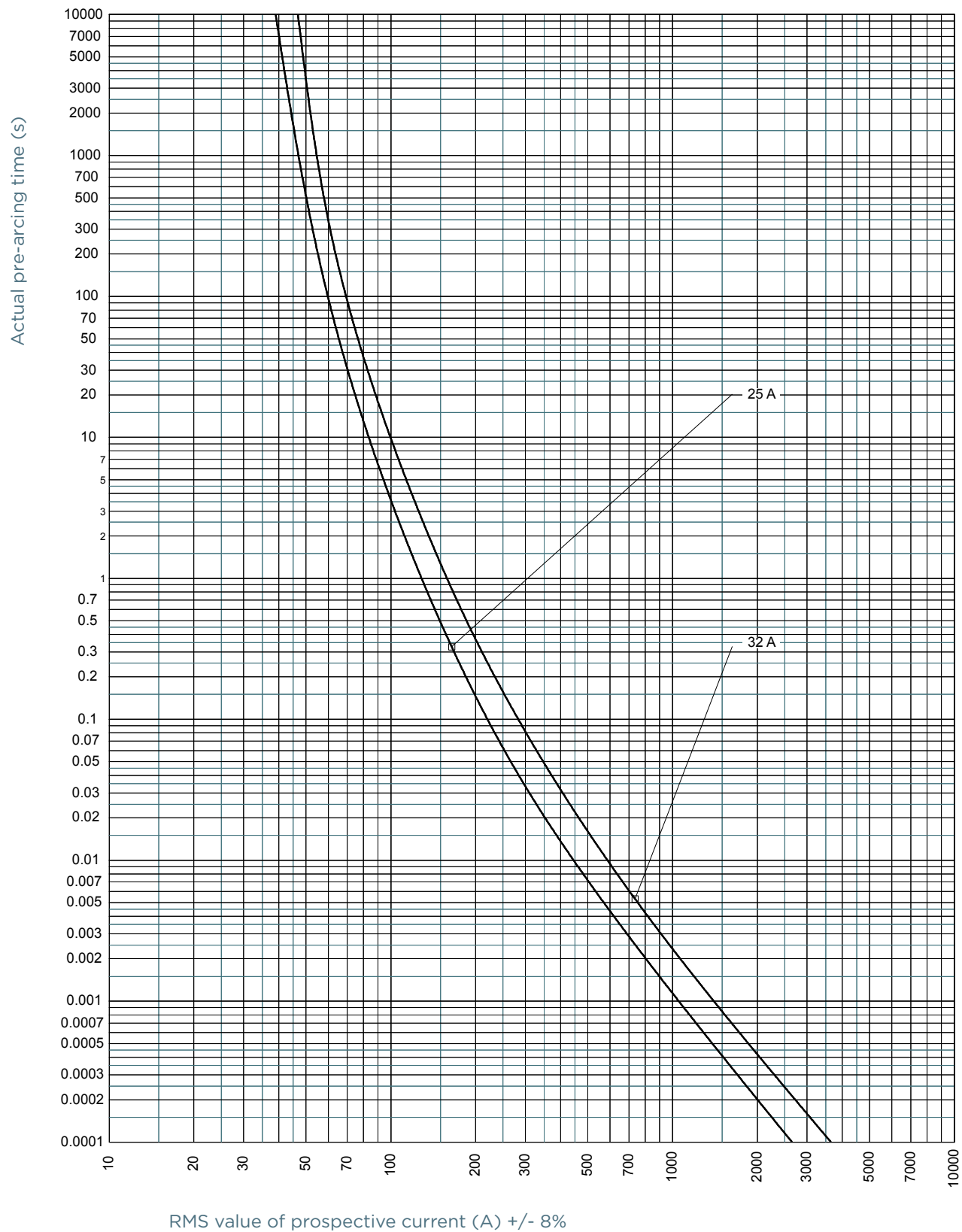
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# Ferrule fuse-links 10x38 gG 400 to 690VAC

## TIME CURRENT CHARACTERISTIC CURVES

Size 10x38 250V gG with striker

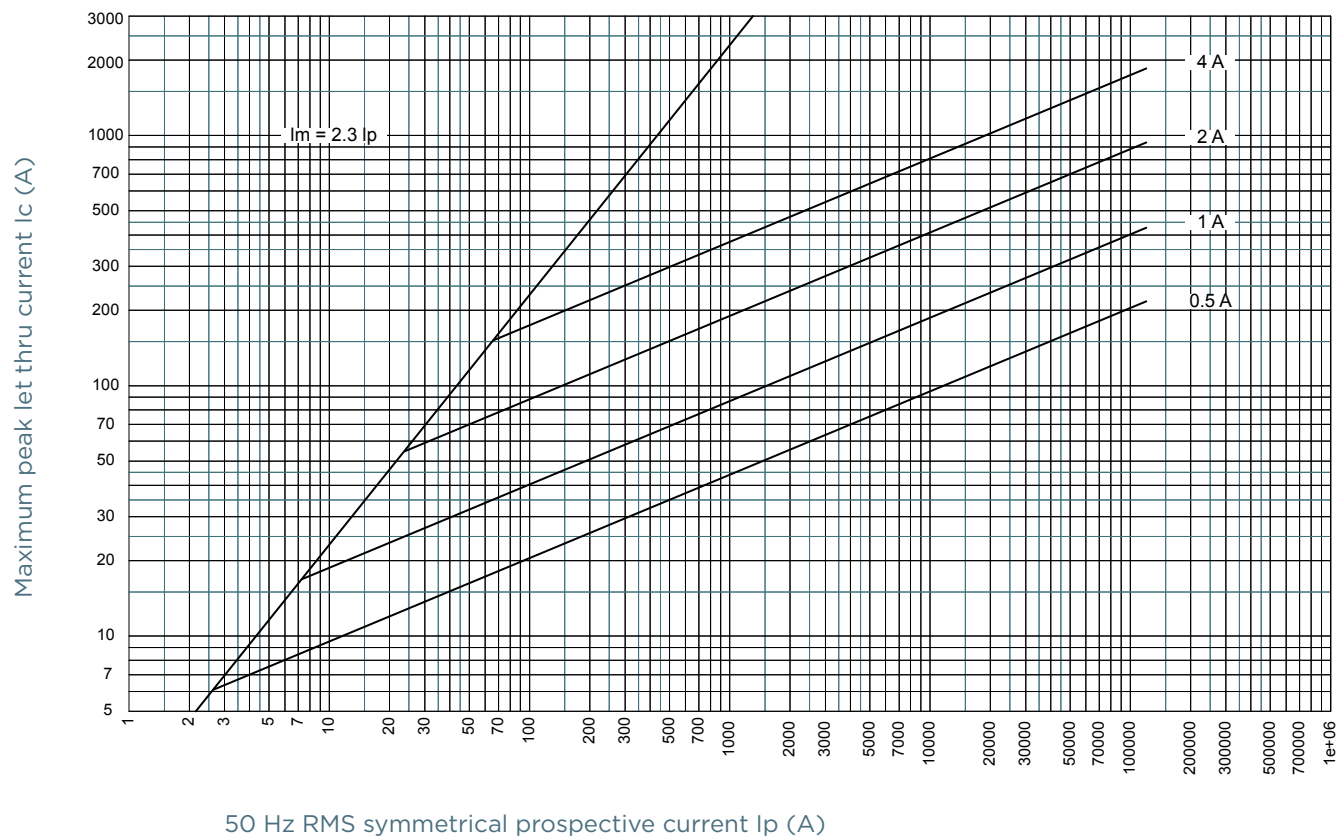


MERSEN reserves the right to change, update or correct, without notice, any information contained in this datasheet.

# Ferrule fuse-links 10x38 gG 400 to 690VAC

## CUT-OFF CURRENT CHARACTERISTIC

Size 10x38 500V gG without striker

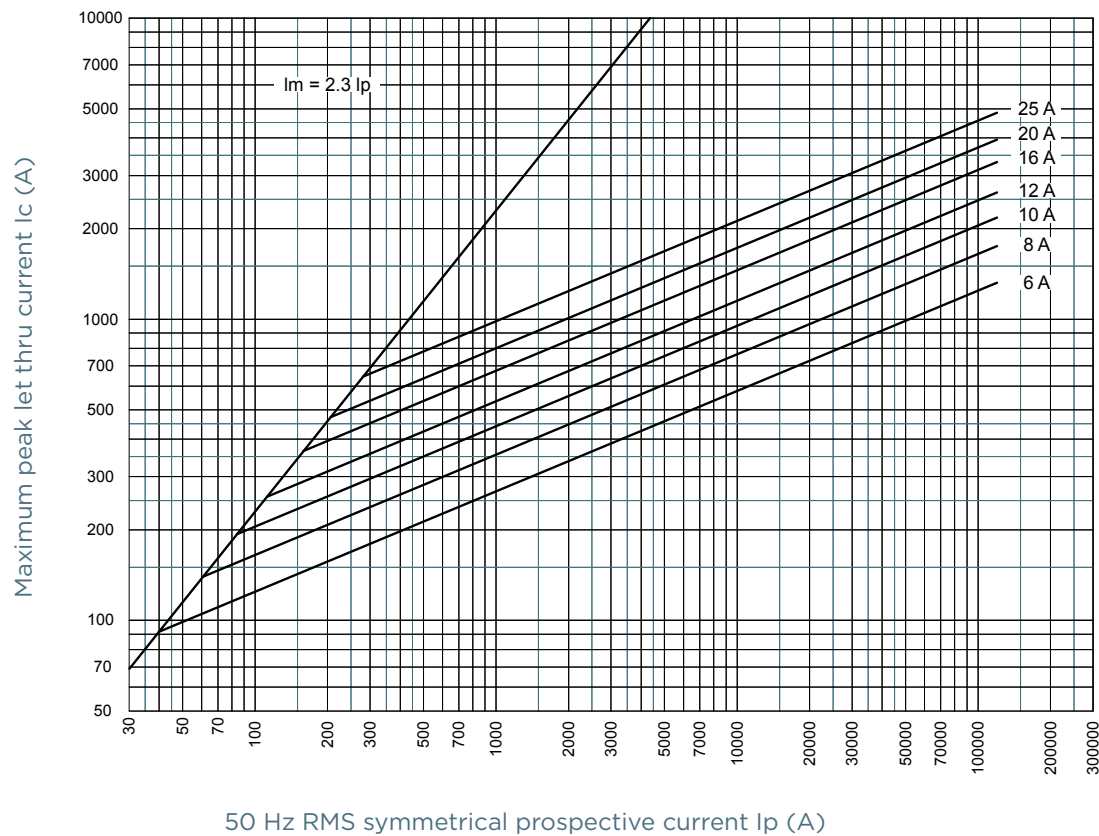


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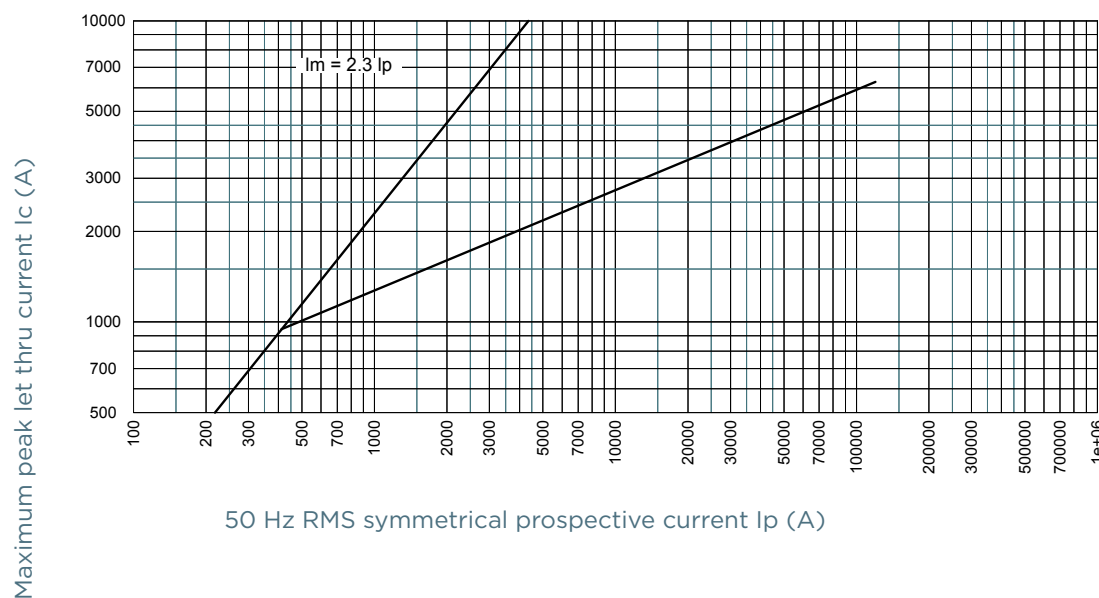
# Ferrule fuse-links 10x38 gG 400 to 690VAC

## CUT-OFF CURRENT CHARACTERISTIC

Size 10x38 500V gG without striker



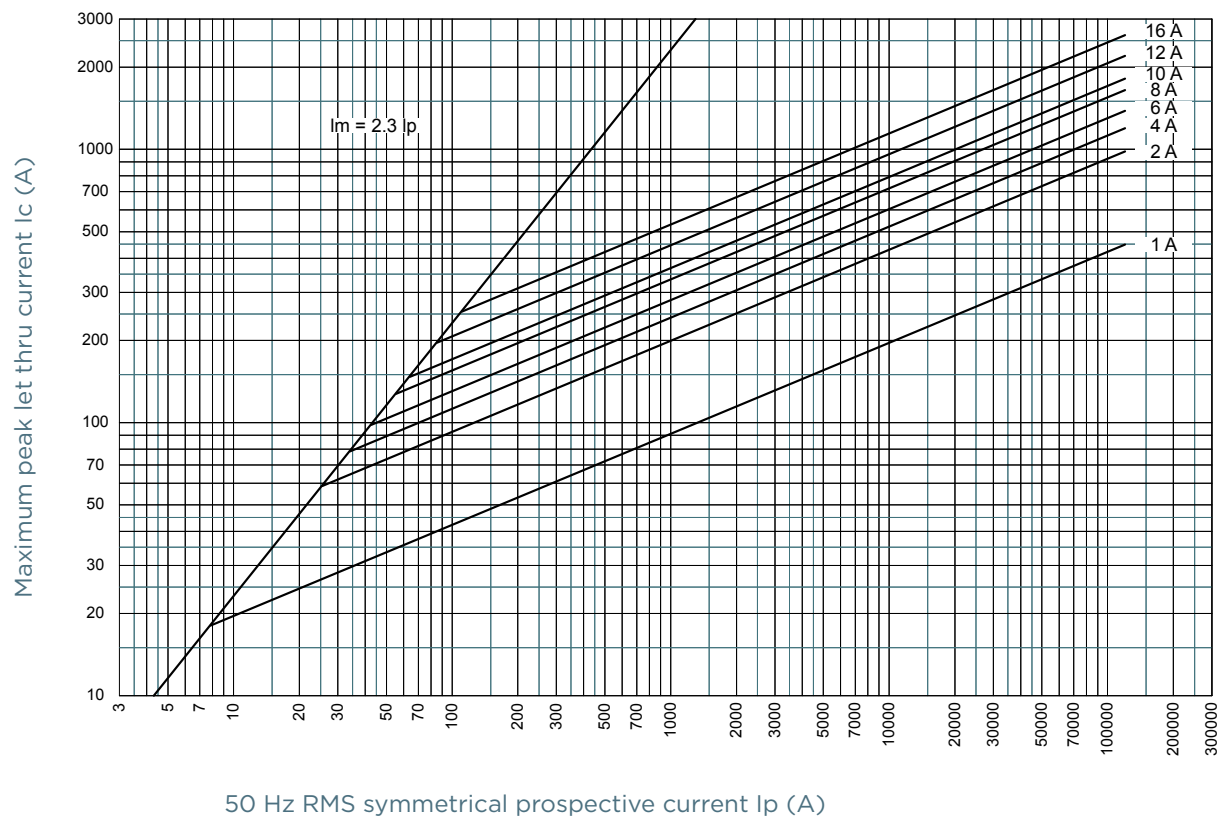
Size 10x38 400V gG without striker



# Ferrule fuse-links 10x38 gG 400 to 690VAC

## CUT-OFF CURRENT CHARACTERISTIC

Size 10x38 690V gG without striker

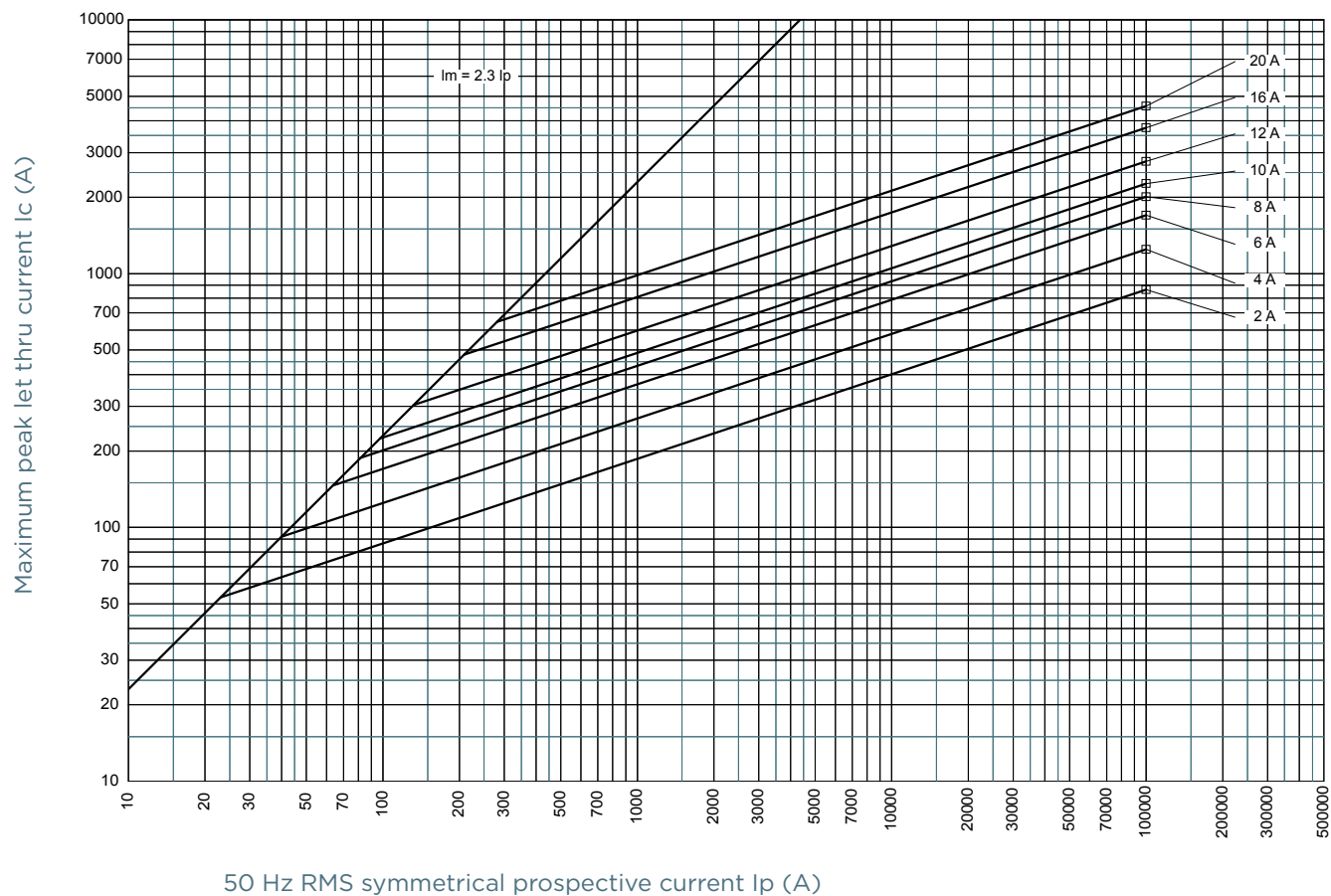


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# Ferrule fuse-links 10x38 gG 400 to 690VAC

## CUT-OFF CURRENT CHARACTERISTIC

Size 10x38 400V gG with striker

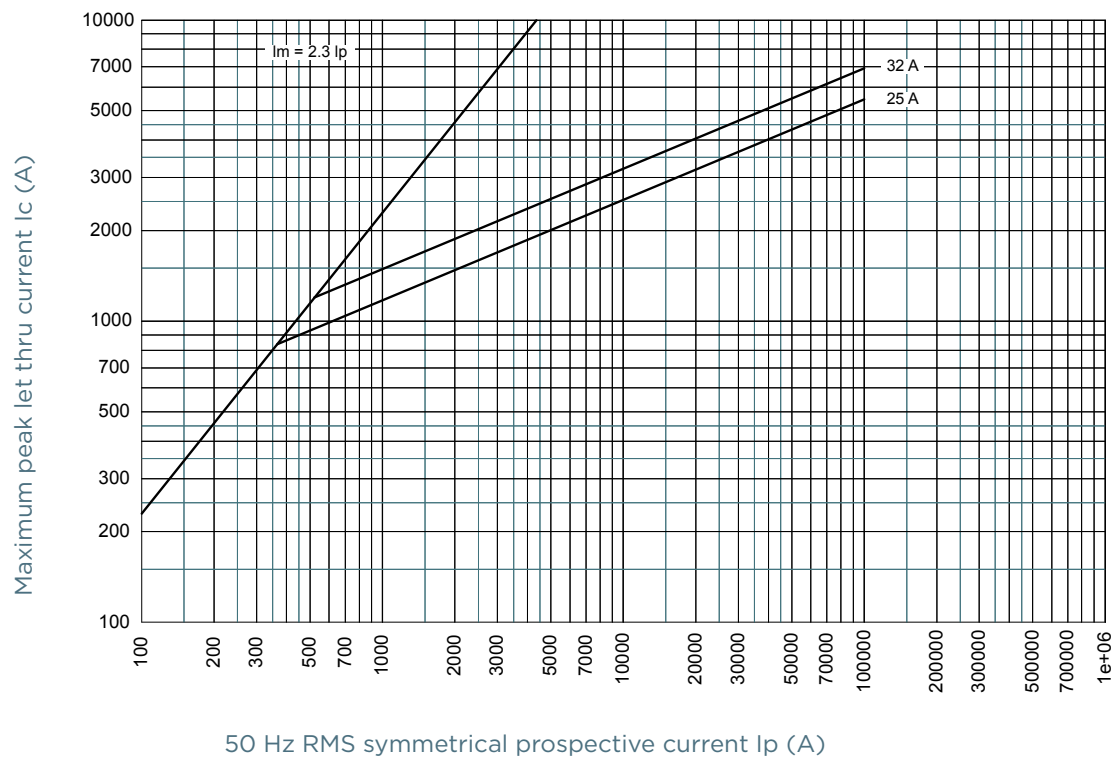


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# Ferrule fuse-links 10x38 gG 400 to 690VAC

## CUT-OFF CURRENT CHARACTERISTIC

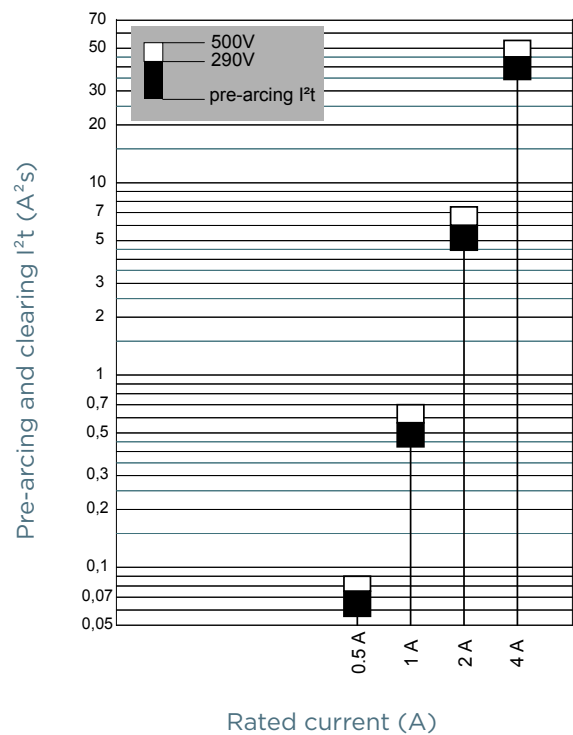
Size 10x38 250V gG with striker



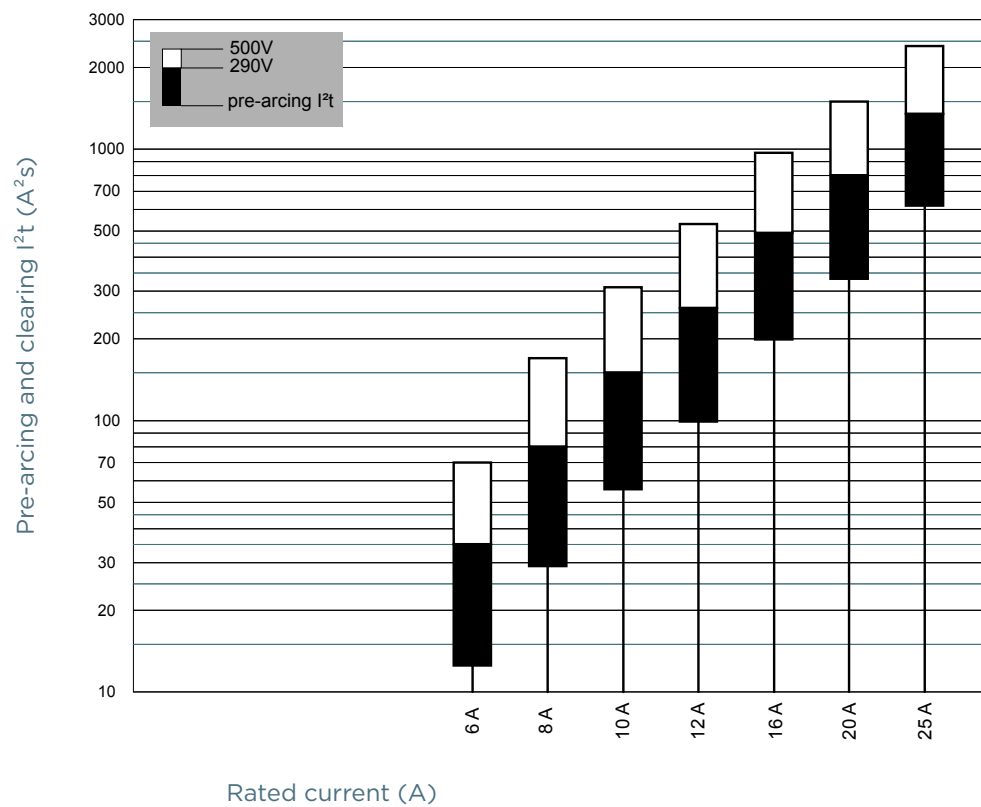
# Ferrule fuse-links 10x38 gG 400 to 690VAC

## PRE-ARCING AND OPERATING I<sup>2</sup>t CHARACTERISTICS

Size 10x38 500V gG without striker



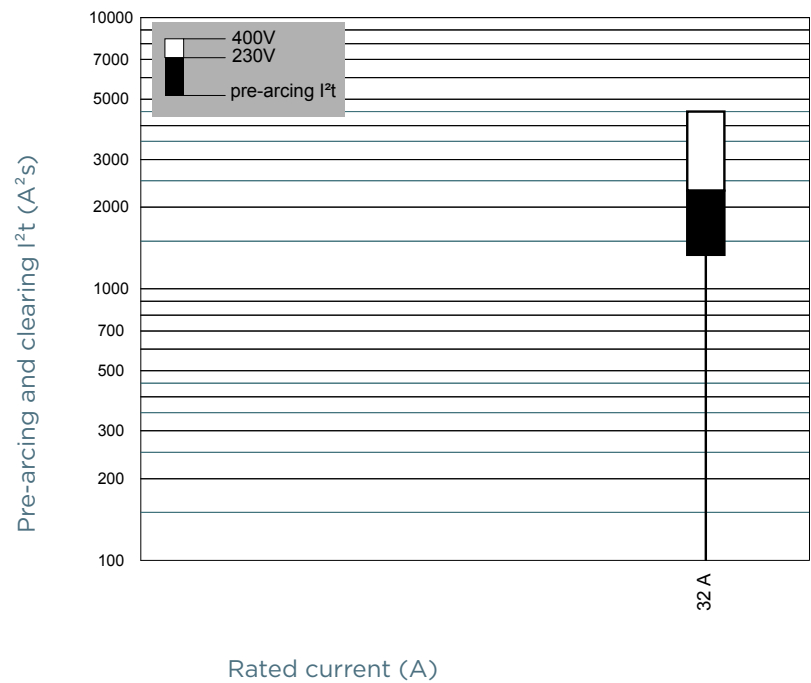
Size 10x38 500V gG without striker



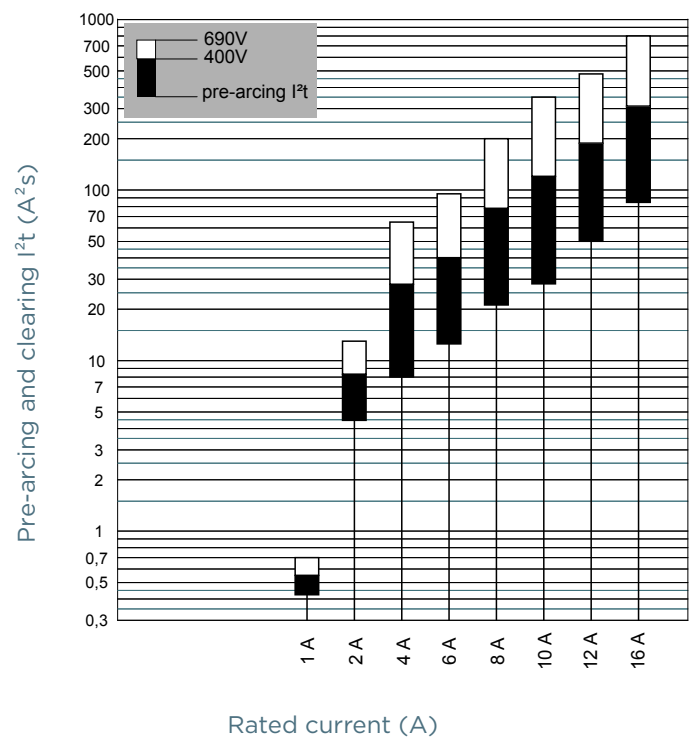
# Ferrule fuse-links 10x38 gG 400 to 690VAC

## PRE-ARCING AND OPERATING I<sup>2</sup>t CHARACTERISTICS

Size 10x38 400V gG without striker



Size 10x38 690V gG without striker

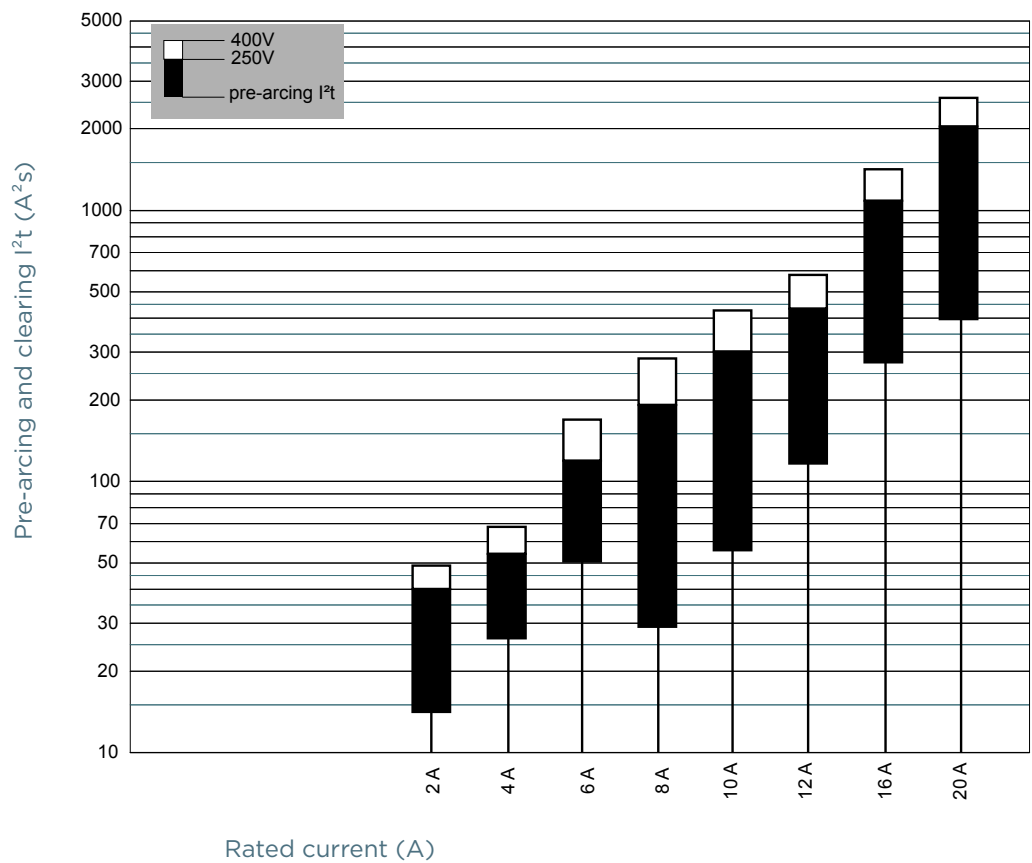




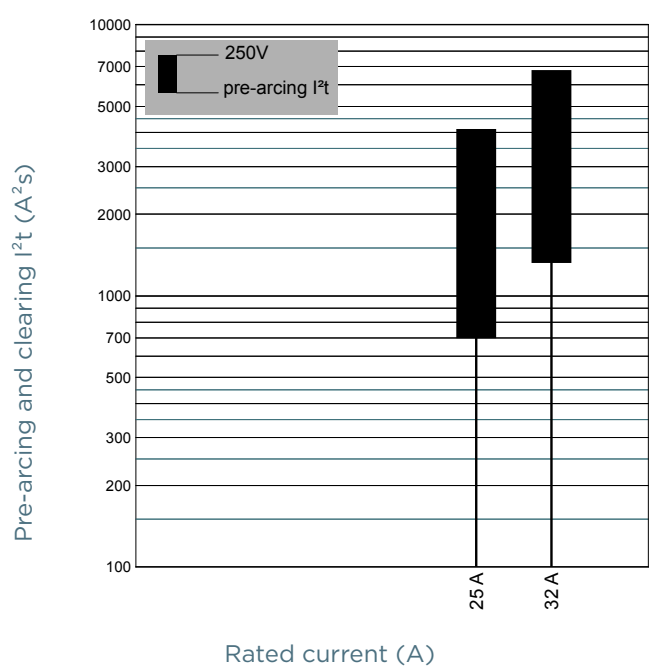
# Ferrule fuse-links 10x38 gG 400 to 690VAC

## PRE-ARCING AND OPERATING I<sup>2</sup>t CHARACTERISTICS

Size 10x38 400V gG with striker



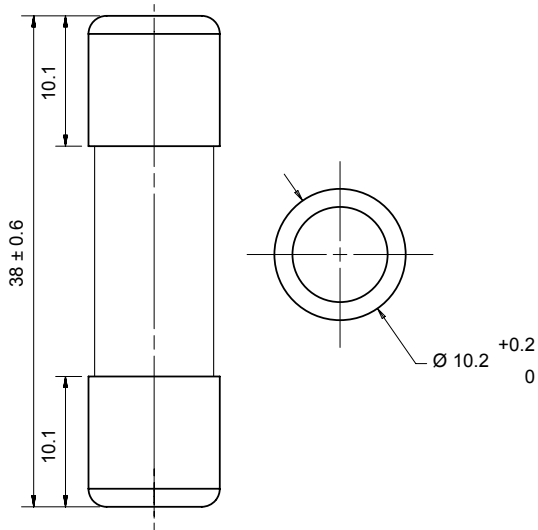
Size 10x38 250V gG with striker



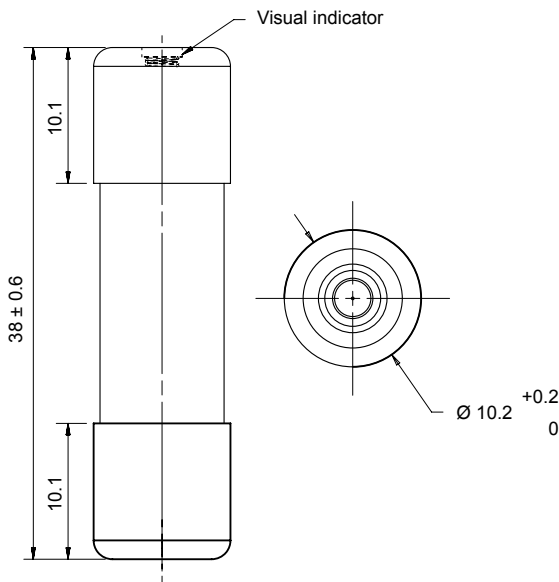
# Ferrule fuse-links 10x38 gG 400 to 690VAC

## DIMENSIONS

**Size 10x38 gG without indicator** (1001210)      **Size 10x38 gG with indicator** (1002537)

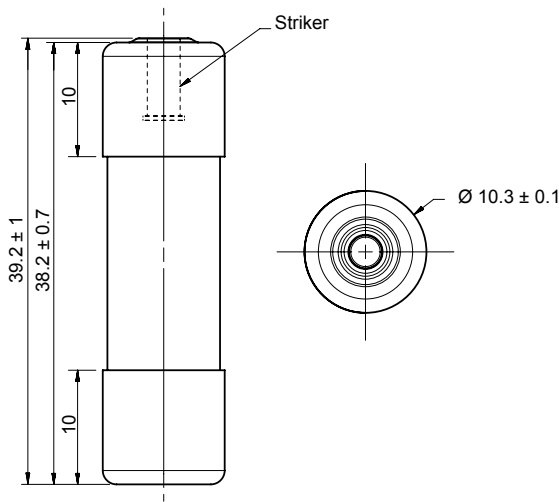


Dimensions in mm



Dimensions in mm

**Size 10x38 gG with striker** (33907)



Dimensions in mm