

# Ferrule fuse-links 22x58 gG 500 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     | 500 ... 690 VAC      |
| Voltage DC           | 250 VDC              |
| Ampere Range (A)     | 2 ... 125 A          |
| Speed/Characteristic | gG                   |
| I.R. AC (IEC)        | 120 kA               |
| I.R. DC (IEC)        | 100 kA               |
| Body Material        | Ceramic              |
| Body Style           | Cylindrical          |
| Contact Materials    | Silver plated copper |
| Product Size         | 22x58 mm             |

## FEATURES & BENEFITS

- Reduced size
- Full range protection
- Striker version available for remote 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
- Approved by Lloyd's Register of Shipping and Bureau Veritas



# Ferrule fuse-links 22x58 gG 500 to 690VAC

## PRODUCT RANGE



FR22GG69V2

### Size 22x58 gG 500/690VAC without indicator

| Catalog number | Item number | Rated voltage AC (IEC) | Rated voltage DC (IEC) | Rated current I <sub>n</sub> | Rated breaking capacity AC | Rated breaking capacity DC | Power dissipation at I <sub>n</sub> | Weight |
|----------------|-------------|------------------------|------------------------|------------------------------|----------------------------|----------------------------|-------------------------------------|--------|
| FR22GG69V2     | F219241     | 690 V                  | 250 V                  | 2 A                          | 120 kA                     | 100 kA                     | 0.9 W                               | 54 g   |
| FR22GG69V4     | H219772     | 690 V                  | 250 V                  | 4 A                          | 120 kA                     | 100 kA                     | 1.25 W                              | 54 g   |
| FR22GG69V6     | P222216     | 690 V                  | 250 V                  | 6 A                          | 120 kA                     | 100 kA                     | 1.4 W                               | 54 g   |
| FR22GG69V8     | L222972     | 690 V                  | 250 V                  | 8 A                          | 120 kA                     | 100 kA                     | 1.6 W                               | 54 g   |
| FR22GG69V10    | T200761     | 690 V                  | 250 V                  | 10 A                         | 120 kA                     | 100 kA                     | 1.9 W                               | 54 g   |
| FR22GG69V12    | J201304     | 690 V                  | 250 V                  | 12 A                         | 120 kA                     | 100 kA                     | 2 W                                 | 54 g   |
| FR22GG69V16    | S201818     | 690 V                  | 250 V                  | 16 A                         | 120 kA                     | 100 kA                     | 2.5 W                               | 54 g   |
| FR22GG69V20    | P211038     | 690 V                  | 250 V                  | 20 A                         | 120 kA                     | 100 kA                     | 3.4 W                               | 54 g   |
| FR22GG69V25    | N212072     | 690 V                  | 250 V                  | 25 A                         | 120 kA                     | 100 kA                     | 3.5 W                               | 54 g   |
| FR22GG69V32    | F212594     | 690 V                  | 250 V                  | 32 A                         | 120 kA                     | 100 kA                     | 3.7 W                               | 54 g   |
| FR22GG69V40    | J213609     | 690 V                  | 250 V                  | 40 A                         | 120 kA                     | 100 kA                     | 4.3 W                               | 54 g   |
| FR22GG69V50    | P214626     | 690 V                  | 250 V                  | 50 A                         | 120 kA                     | 100 kA                     | 5.3 W                               | 54 g   |
| FR22GG69V63    | Y215646     | 690 V                  | 250 V                  | 63 A                         | 120 kA                     | 100 kA                     | 6.3 W                               | 54 g   |
| FR22GG69V80    | Q217180     | 690 V                  | 250 V                  | 80 A                         | 120 kA                     | 100 kA                     | 7.4 W                               | 54 g   |
| FR22GG50V100   | E218205     | 500 V                  | 250 V                  | 100 A                        | 120 kA                     | 100 kA                     | 8.3 W                               | 54 g   |
| FR22GG50V125   | J219773     | 500 V                  | 250 V                  | 125 A                        | 120 kA                     | 100 kA                     | 11.3 W                              | 54 g   |



FR22GG50V125P

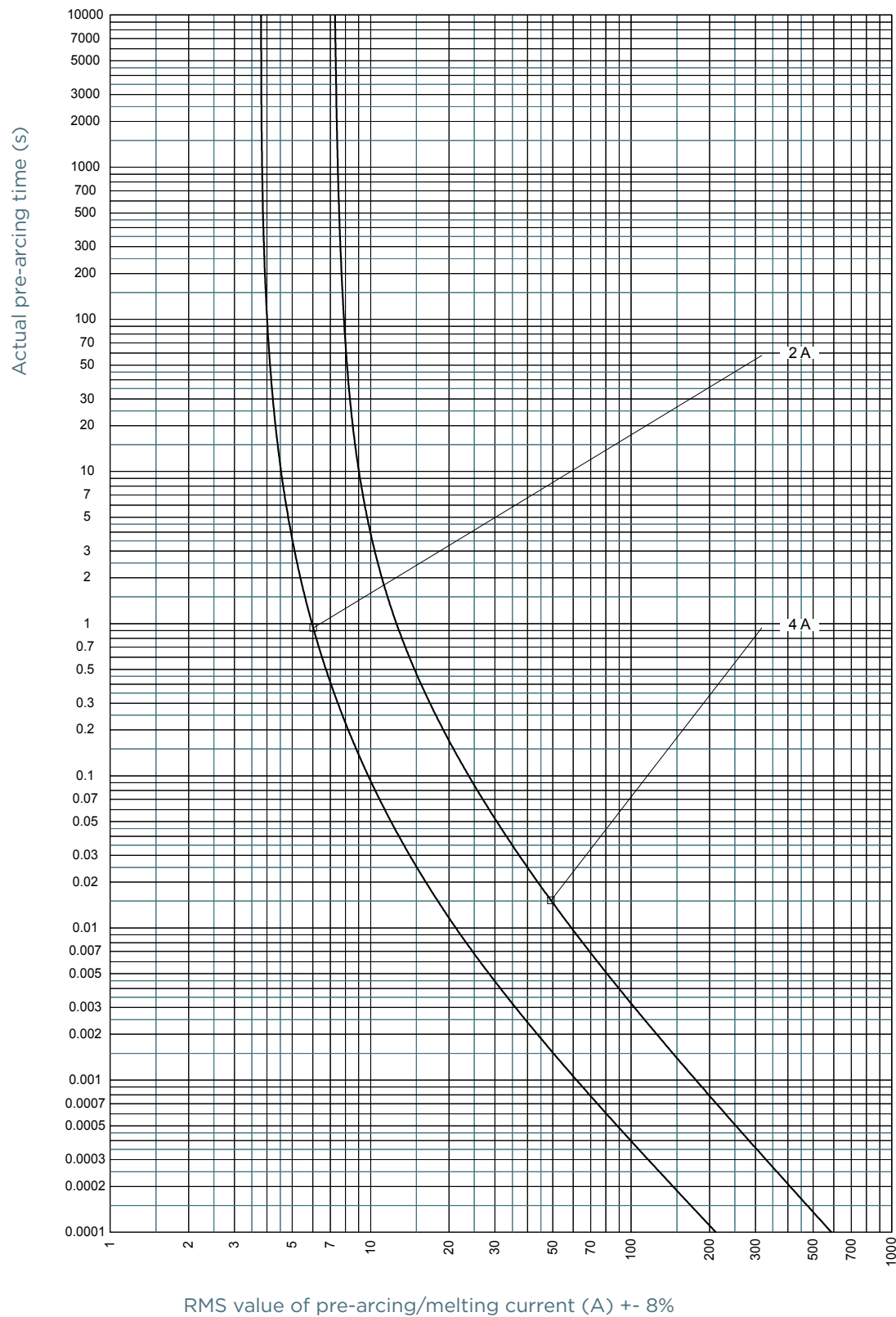
### Size 22x58 gG 500/690VAC with striker

| Catalog number | Item number | Rated voltage AC (IEC) | Rated voltage DC (IEC) | Rated current I <sub>n</sub> | Rated breaking capacity AC | Rated breaking capacity DC | Power dissipation at I <sub>n</sub> | Weight |
|----------------|-------------|------------------------|------------------------|------------------------------|----------------------------|----------------------------|-------------------------------------|--------|
| FR22GG69V2P    | N093760     | 690 V                  | 250 V                  | 2 A                          | 120 kA                     | 100 kA                     | 0.9 W                               | 54 g   |
| FR22GG69V4P    | R214628     | 690 V                  | 250 V                  | 4 A                          | 120 kA                     | 100 kA                     | 1.25 W                              | 54 g   |
| FR22GG69V6P    | A215648     | 690 V                  | 250 V                  | 6 A                          | 120 kA                     | 100 kA                     | 1.4 W                               | 54 g   |
| FR22GG69V8P    | F216665     | 690 V                  | 250 V                  | 8 A                          | 120 kA                     | 100 kA                     | 1.6 W                               | 54 g   |
| FR22GG69V10P   | W217691     | 690 V                  | 250 V                  | 10 A                         | 120 kA                     | 100 kA                     | 1.9 W                               | 54 g   |
| FR22GG69V12P   | W218726     | 690 V                  | 250 V                  | 12 A                         | 120 kA                     | 100 kA                     | 2 W                                 | 54 g   |
| FR22GG69V16P   | L219775     | 690 V                  | 250 V                  | 16 A                         | 120 kA                     | 100 kA                     | 2.5 W                               | 54 g   |
| FR22GG69V20P   | P222975     | 690 V                  | 250 V                  | 20 A                         | 120 kA                     | 100 kA                     | 3.4 W                               | 54 g   |
| FR22GG69V25P   | M201307     | 690 V                  | 250 V                  | 25 A                         | 120 kA                     | 100 kA                     | 3.5 W                               | 54 g   |
| FR22GG69V32P   | S211041     | 690 V                  | 250 V                  | 32 A                         | 120 kA                     | 100 kA                     | 3.7 W                               | 54 g   |
| FR22GG69V40P   | R212075     | 690 V                  | 250 V                  | 40 A                         | 120 kA                     | 100 kA                     | 4.3 W                               | 54 g   |
| FR22GG69V50P   | M213612     | 690 V                  | 250 V                  | 50 A                         | 120 kA                     | 100 kA                     | 5.3 W                               | 54 g   |
| FR22GG69V63P   | T1022160    | 690 V                  | 250 V                  | 63 A                         | 120 kA                     | 100 kA                     | 4.8 W                               | 54 g   |
| FR22GG69V80P   | Z1022165    | 690 V                  | 250 V                  | 80 A                         | 120 kA                     | 100 kA                     | 6.2 W                               | 54 g   |
| FR22GG50V63P   | S214629     | 500 V                  | 250 V                  | 63 A                         | 120 kA                     | 100 kA                     | 4.8 W                               | 54 g   |
| FR22GG50V80P   | F216159     | 500 V                  | 250 V                  | 80 A                         | 120 kA                     | 100 kA                     | 6.2 W                               | 54 g   |
| FR22GG50V100P  | T217183     | 500 V                  | 250 V                  | 100 A                        | 120 kA                     | 100 kA                     | 8.3 W                               | 54 g   |
| FR22GG50V125P  | H218208     | 500 V                  | 250 V                  | 125 A                        | 120 kA                     | 100 kA                     | 11.3 W                              | 54 g   |

# Ferrule fuse-links 22x58 gG 500 to 690VAC

## TIME CURRENT CHARACTERISTIC CURVES

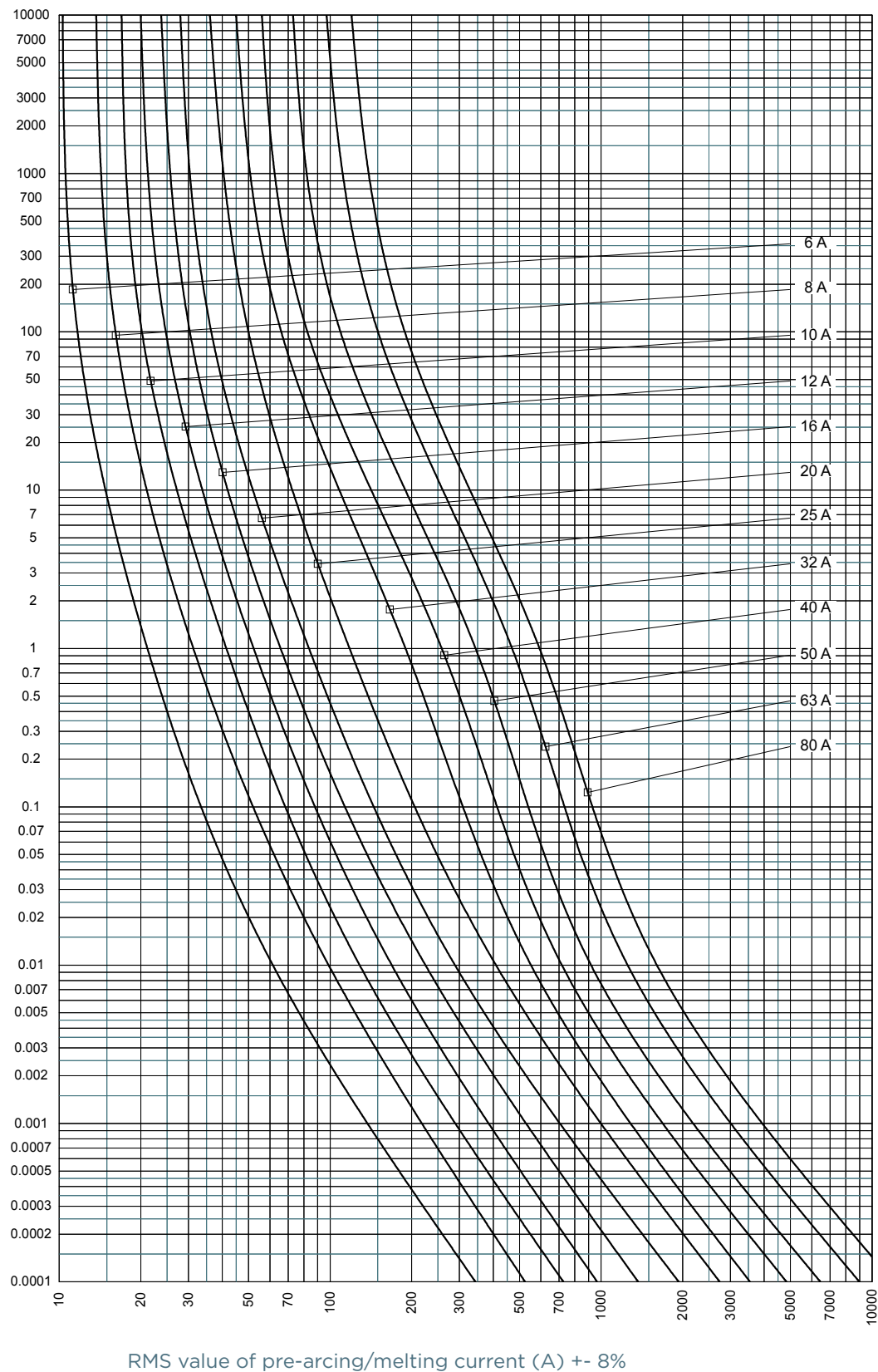
Size 22x58 690V gG



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## TIME CURRENT CHARACTERISTIC CURVES

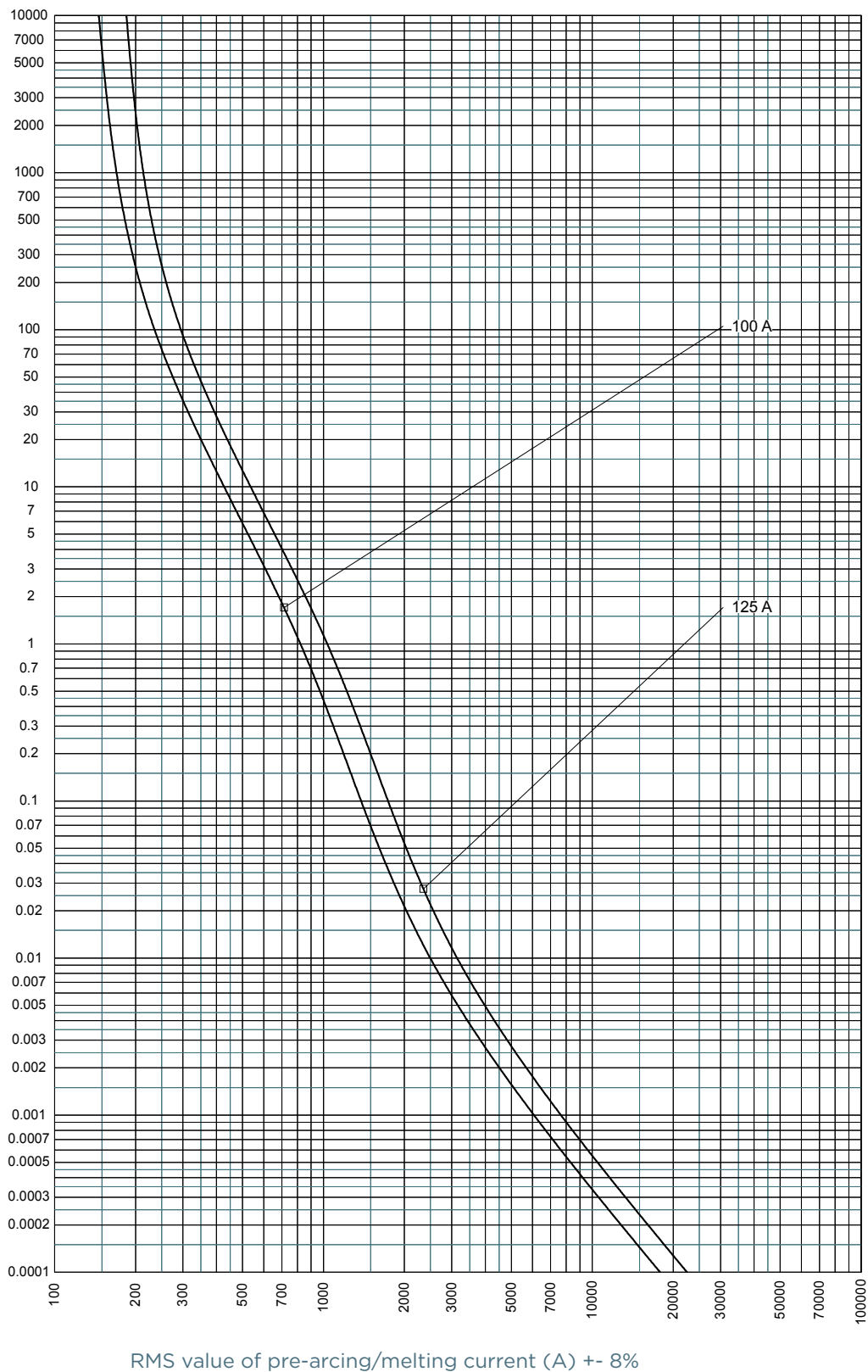
Size 22x58 690V gG



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## TIME CURRENT CHARACTERISTIC CURVES

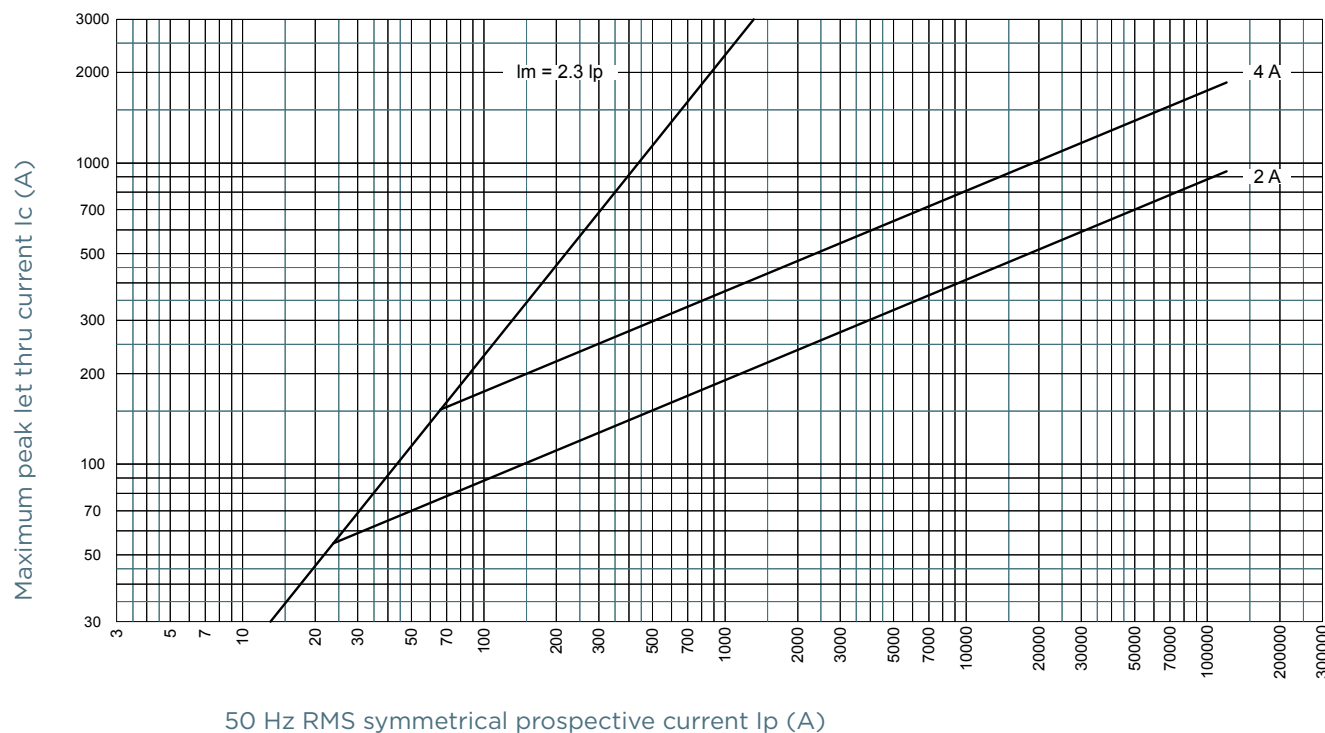
Size 22x58 500V gG



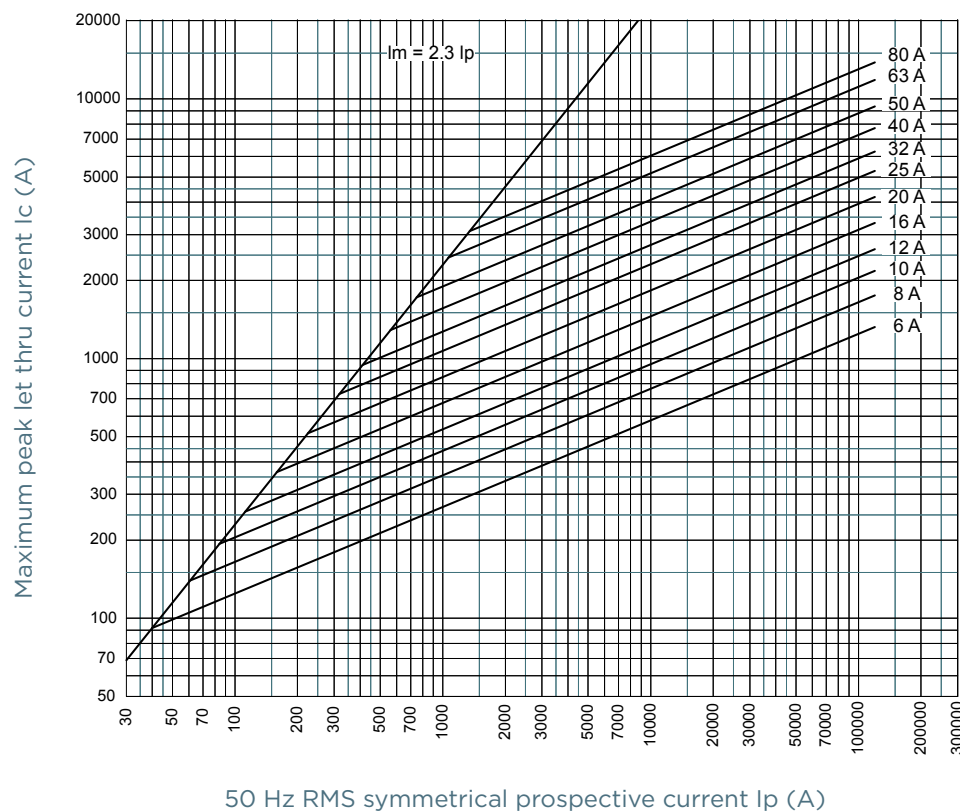
# Ferrule fuse-links 22x58 gG 500 to 690VAC

## CUT-OFF CURRENT CHARACTERISTIC

Size 22x58 690V gG



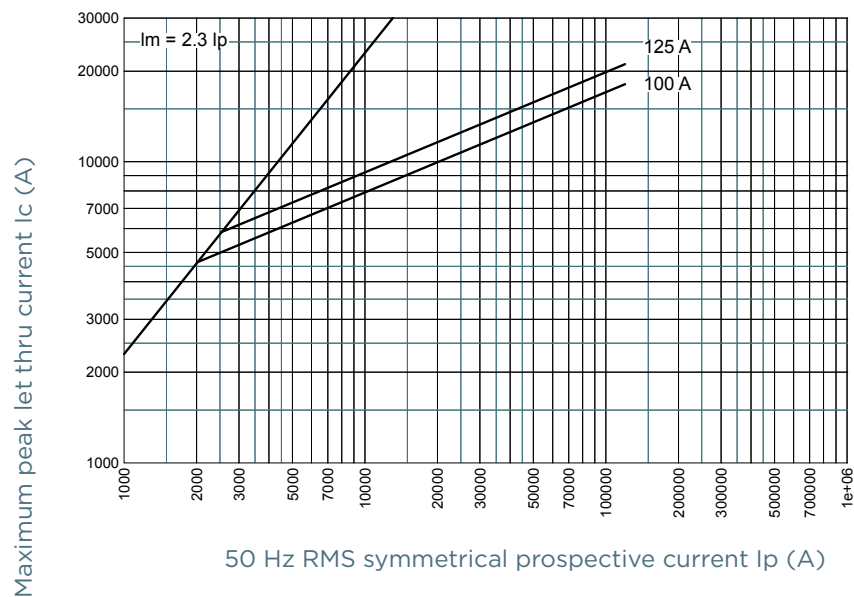
Size 22x58 690V gG



# Ferrule fuse-links 22x58 gG 500 to 690VAC

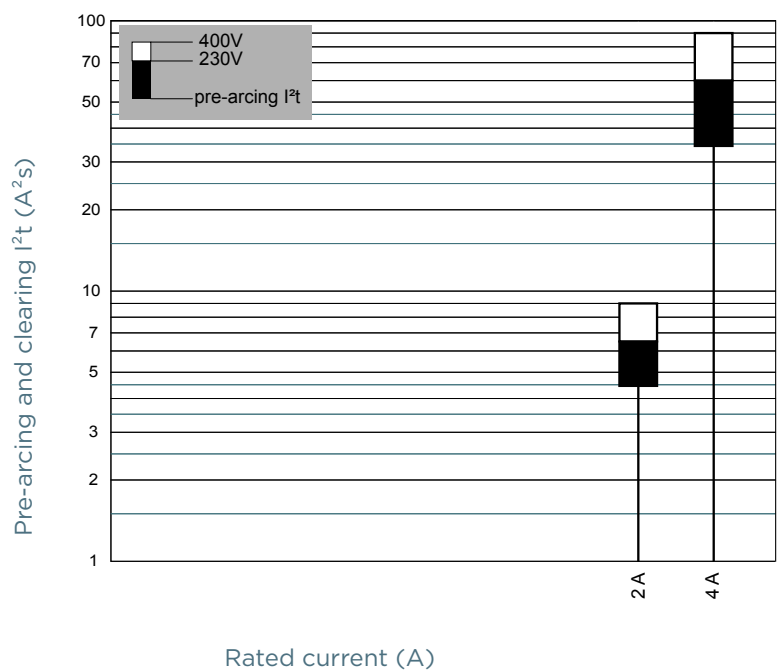
## CUT-OFF CURRENT CHARACTERISTIC

Size 22x58 500V gG



## PRE-ARCING AND OPERATING $I^2t$ CHARACTERISTICS

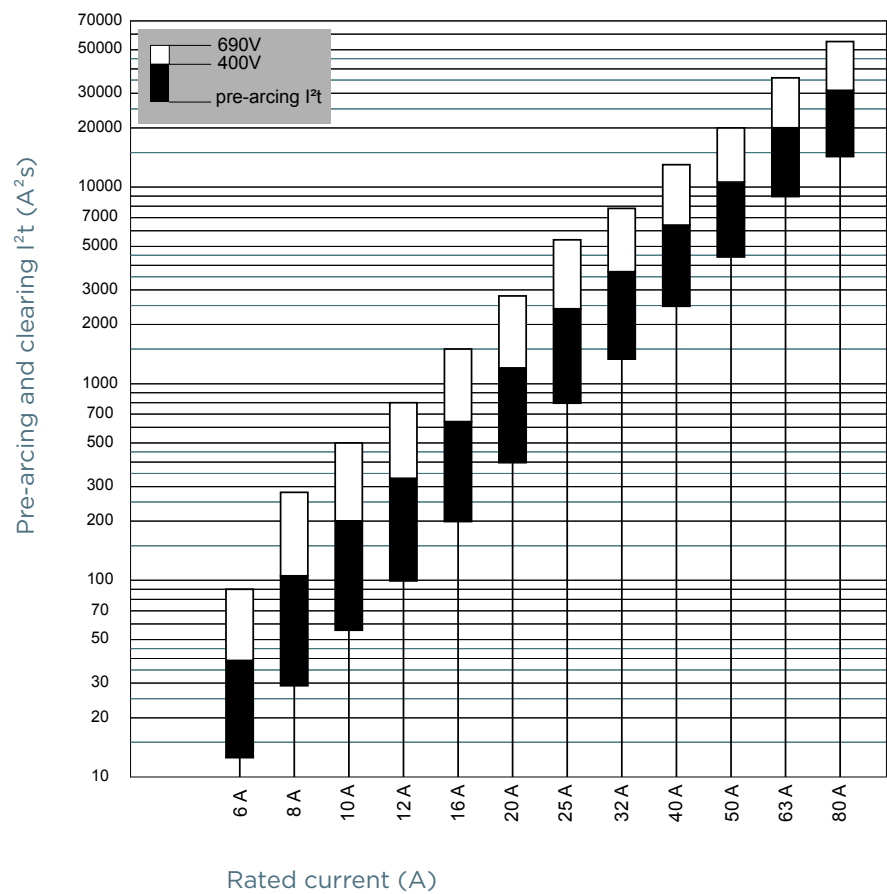
Size 22x58 690V gG



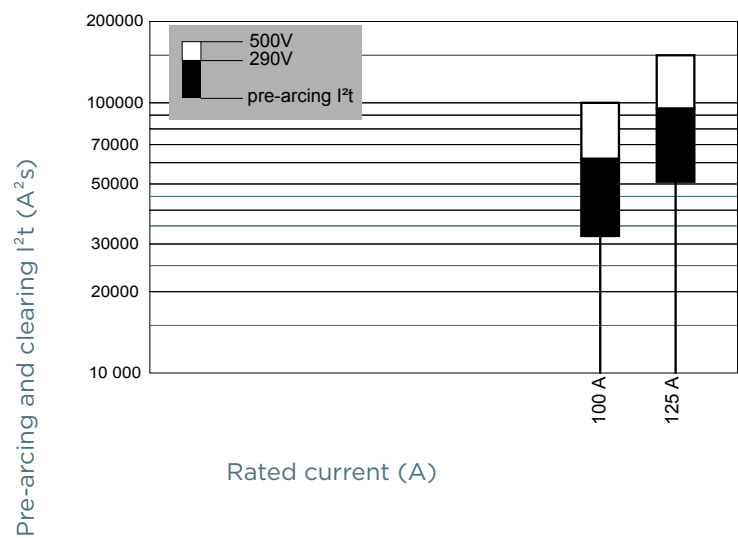
# Ferrule fuse-links 22x58 gG 500 to 690VAC

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

Size 22x58 690V gG



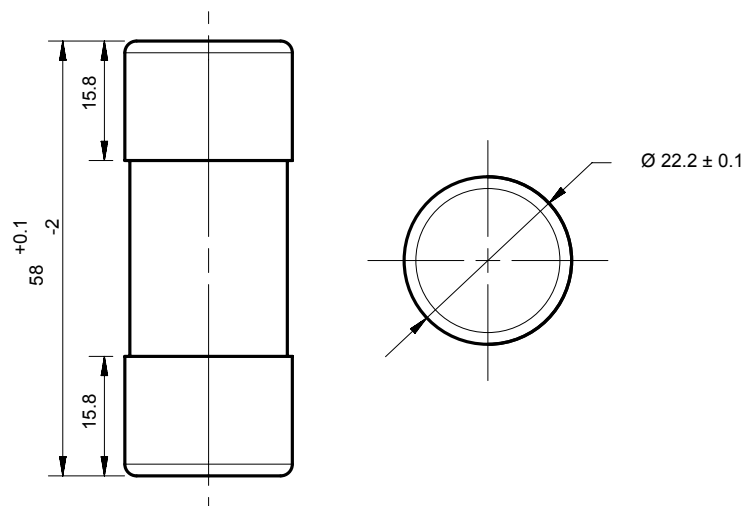
Size 22x58 500V gG



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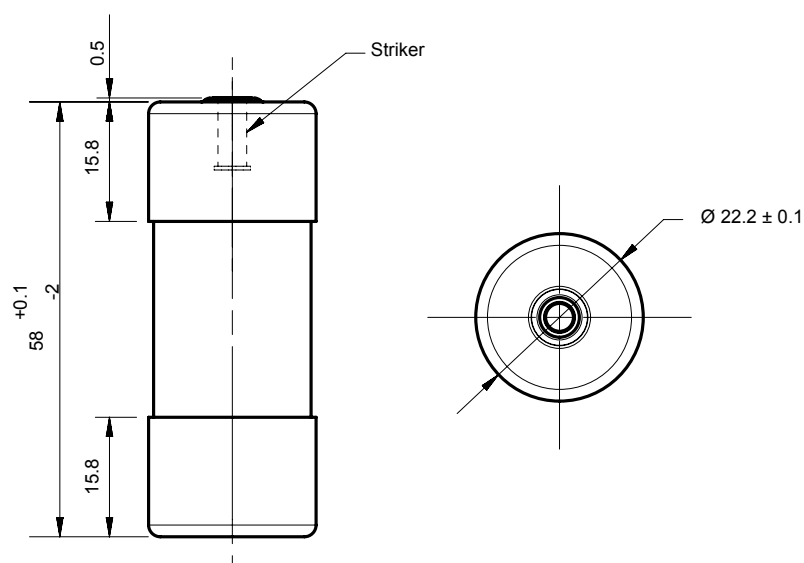
## DIMENSIONS

### Size 22x58 gG without indicator (10012114)



Dimensions in mm

### Size 22x58 gG with striker (1001213)



Dimensions in mm