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# Ferrule fuse-links 22x58 aM 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 “aM” are partial range fuses. They protect electrical devices in case of unacceptable high short-circuit against destruction due high current limiting and low thermal let-through values. They cut off currents more than 6.3xIn until the maximum breaking capacity (rated breaking capacity). Cylindrical fuse-links “aM” are mainly used for the protection of installation switch gear in otor circuit currents. For classification of the cylindrical fuse-links the nominal current of the fuse-link can be selected respective to the nominal current of the motor.

Our technology and process was designed to ensure highly reliable technical performance.

## TECHNICAL DATA OVERVIEW

| | |
|---|---|
| Voltage Range AC | 500 ... 690 VAC |
| Ampere Range (A) | 1 ... 125 A |
| Speed/Characteristic | aM |
| I.R. AC (IEC) | 120 kA |
| Body Material | Ceramic |
| Body Style | cylindrical |
| Contact Materials | Silver plated copper |
| Product Size | 22x58 mm |

## FEATURES & BENEFITS

- Reduced size
- Striker version available for remote indication of fuse operation
- Safest and most reliable protection system

## APPLICATIONS

- aM type for protection of motors, transformers and other loads with in-rush currents.

## STANDARDS

- IEC 60269-1 & -2
- Approved by Lloyd’s Register of Shipping and Bureau Veritas



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## PRODUCT RANGE



FR22AM50V125

### Size 22x58 aM 500/690VAC without striker

| Catalog number | Item number | Rated voltage AC (IEC) | Rated current $I_n$ | Rated breaking capacity AC | Power dissipation at $I_n$ | Weight |
|---|---|---|---|---|---|---|
| FR22AM69V1 | M219776 | 690 V | 1 A | 120 kA | 0.2 W | 54 g |
| FR22AM69V2 | T222220 | 690 V | 2 A | 120 kA | 0.25 W | 54 g |
| FR22AM69V4 | Q222976 | 690 V | 4 A | 120 kA | 0.35 W | 54 g |
| FR22AM69V6 | Y200765 | 690 V | 6 A | 120 kA | 0.45 W | 54 g |
| FR22AM69V8 | N201308 | 690 V | 8 A | 120 kA | 0.6 W | 54 g |
| FR22AM69V10 | X201822 | 690 V | 10 A | 120 kA | 0.75 W | 54 g |
| FR22AM69V12 | T211042 | 690 V | 12 A | 120 kA | 0.85 W | 54 g |
| FR22AM69V16 | M211565 | 690 V | 16 A | 120 kA | 1.15 W | 54 g |
| FR22AM69V20 | S212076 | 690 V | 20 A | 120 kA | 1.35 W | 54 g |
| FR22AM69V25 | J212597 | 690 V | 25 A | 120 kA | 1.7 W | 54 g |
| FR22AM69V32 | V213113 | 690 V | 32 A | 120 kA | 2.2 W | 54 g |
| FR22AM69V40 | N213613 | 690 V | 40 A | 120 kA | 2.7 W | 54 g |
| FR22AM69V50 | R214122 | 690 V | 50 A | 120 kA | 3.6 W | 54 g |
| FR22AM69V63 | C215650 | 690 V | 63 A | 120 kA | 4.8 W | 54 g |
| FR22AM69V80 | H216667 | 690 V | 80 A | 120 kA | 6.2 W | 54 g |
| FR22AM50V100 | Y217693 | 500 V | 100 A | 120 kA | 6.65 W | 54 g |
| FR22AM50V125 | J218209 | 500 V | 125 A | 120 kA | 9.9 W | 54 g |



FR22AM50V100P

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

| Catalog number | Item number | Rated voltage AC (IEC) | Rated current $I_n$ | Rated breaking capacity AC | Power dissipation at $I_n$ | Weight |
|---|---|---|---|---|---|---|
| FR22AM69V1P | E215652 | 690 V | 1 A | 120 kA | 0.2 W | 54 g |
| FR22AM69V2P | J216162 | 690 V | 2 A | 120 kA | 0.25 W | 54 g |
| FR22AM69V4P | A217695 | 690 V | 4 A | 120 kA | 0.35 W | 54 g |
| FR22AM69V6P | Y218728 | 690 V | 6 A | 120 kA | 0.45 W | 54 g |
| FR22AM69V8P | Q219779 | 690 V | 8 A | 120 kA | 0.6 W | 54 g |
| FR22AM69V10P | S222978 | 690 V | 10 A | 120 kA | 0.75 W | 54 g |
| FR22AM69V12P | R201311 | 690 V | 12 A | 120 kA | 0.85 W | 54 g |
| FR22AM69V16P | W211044 | 690 V | 16 A | 120 kA | 1.15 W | 54 g |
| FR22AM69V20P | W212079 | 690 V | 20 A | 120 kA | 1.35 W | 54 g |
| FR22AM69V25P | Q213615 | 690 V | 25 A | 120 kA | 1.7 W | 54 g |
| FR22AM69V32P | X214633 | 690 V | 32 A | 120 kA | 2.2 W | 54 g |
| FR22AM69V40P | F215653 | 690 V | 40 A | 120 kA | 2.7 W | 54 g |
| FR22AM69V50P | K216669 | 690 V | 50 A | 120 kA | 3.6 W | 54 g |
| FR22AM69V63P | A1022166 | 690 V | 63 A | 120 kA | 4.8 W | 54 g |
| FR22AM69V80P | C1022168 | 690 V | 80 A | 120 kA | 6.2 W | 54 g |
| FR22AM50V63P | B217696 | 500 V | 63 A | 120 kA | 4.8 W | 54 g |
| FR22AM50V80P | Z218729 | 500 V | 80 A | 120 kA | 6.2 W | 54 g |
| FR22AM50V100P | T222979 | 500 V | 100 A | 120 kA | 6.65 W | 54 g |
| FR22AM50V125P | S201312 | 500 V | 125 A | 120 kA | 9.9 W | 54 g |



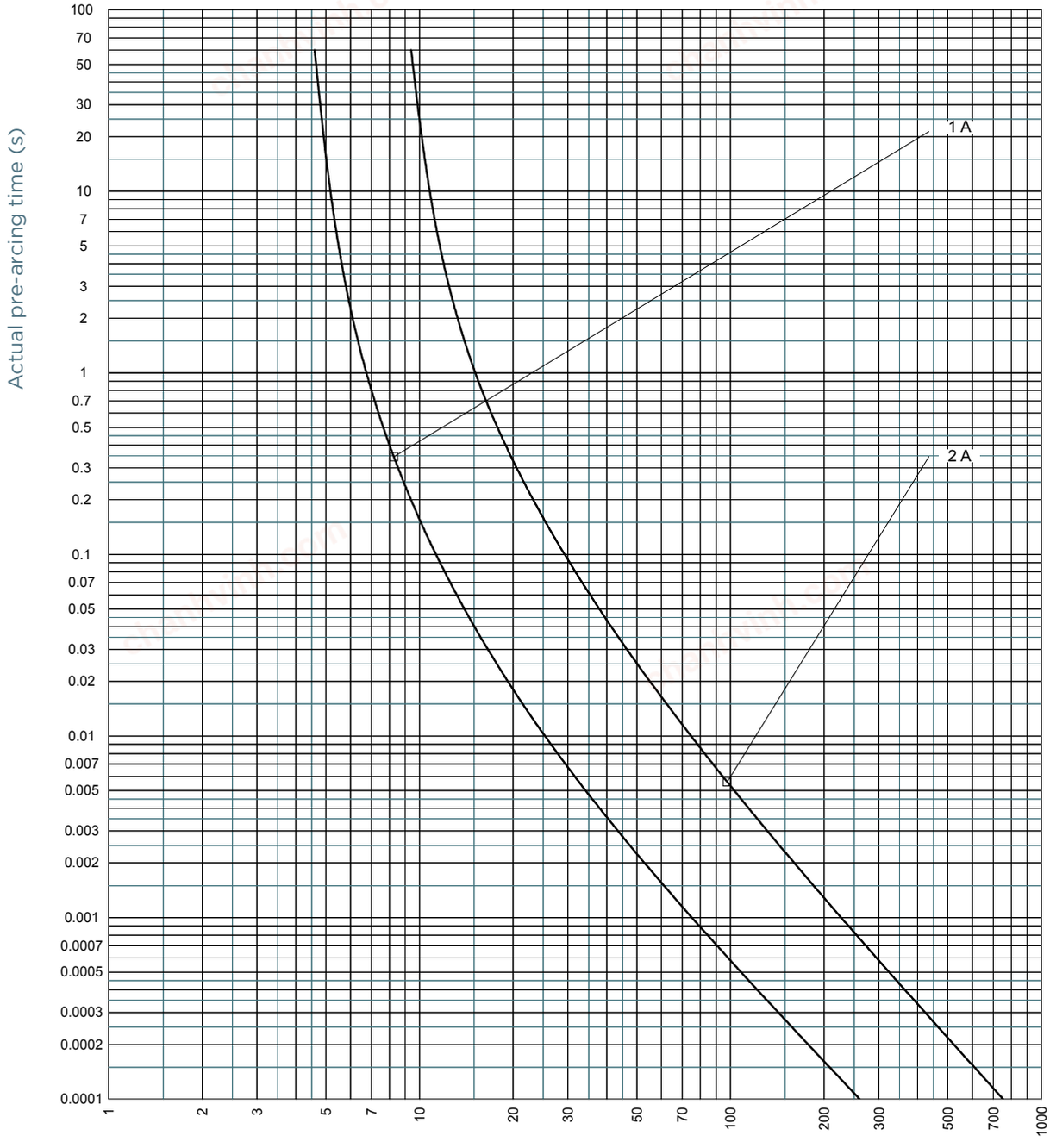
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# Ferrule fuse-links 22x58 aM 500 to 690VAC

## TIME CURRENT CHARACTERISTIC CURVES

**Size 22x58 690V aM**





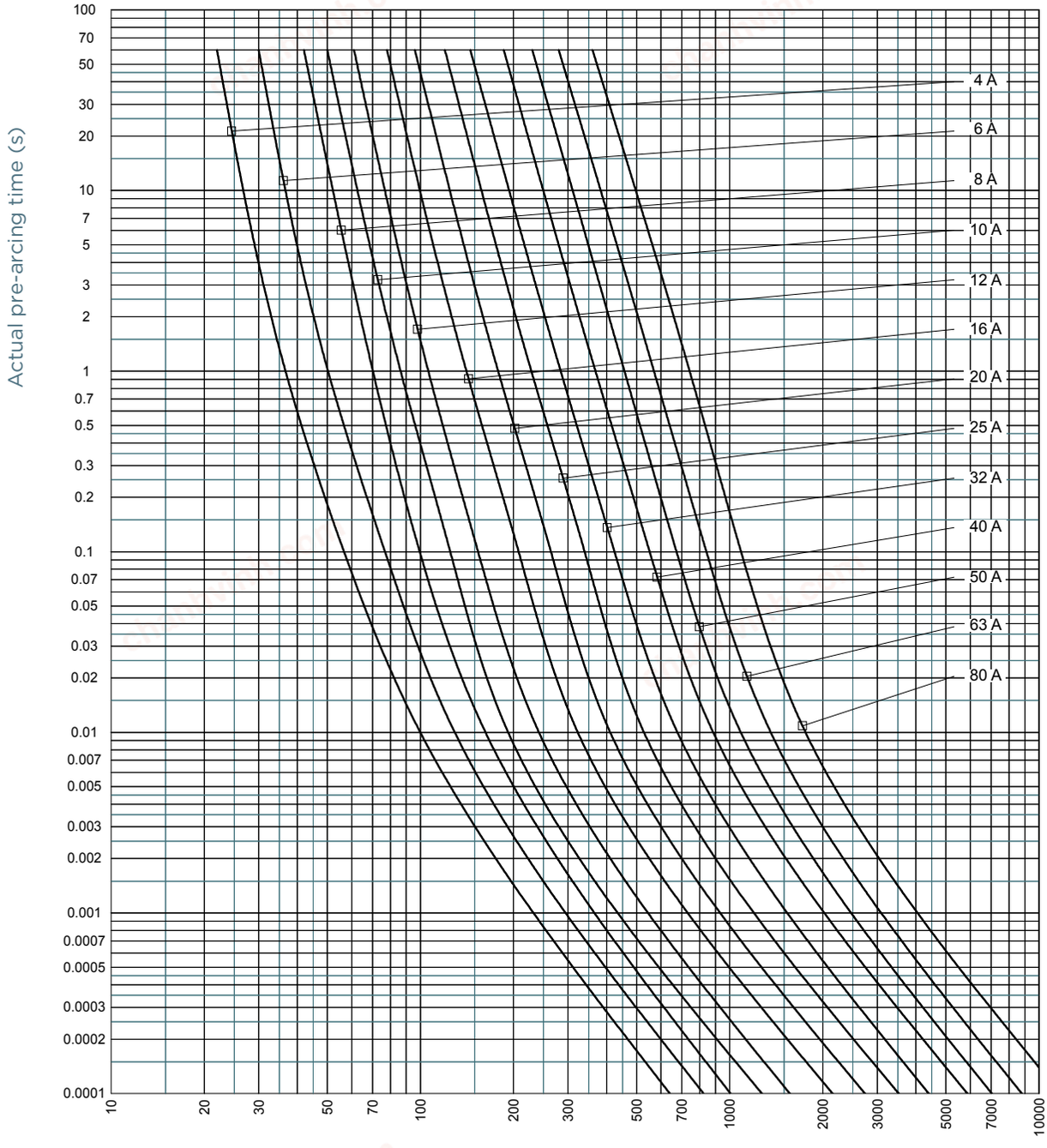



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# Ferrule fuse-links 22x58 aM 500 to 690VAC

## TIME CURRENT CHARACTERISTIC CURVES

**Size 22x58 690V aM**






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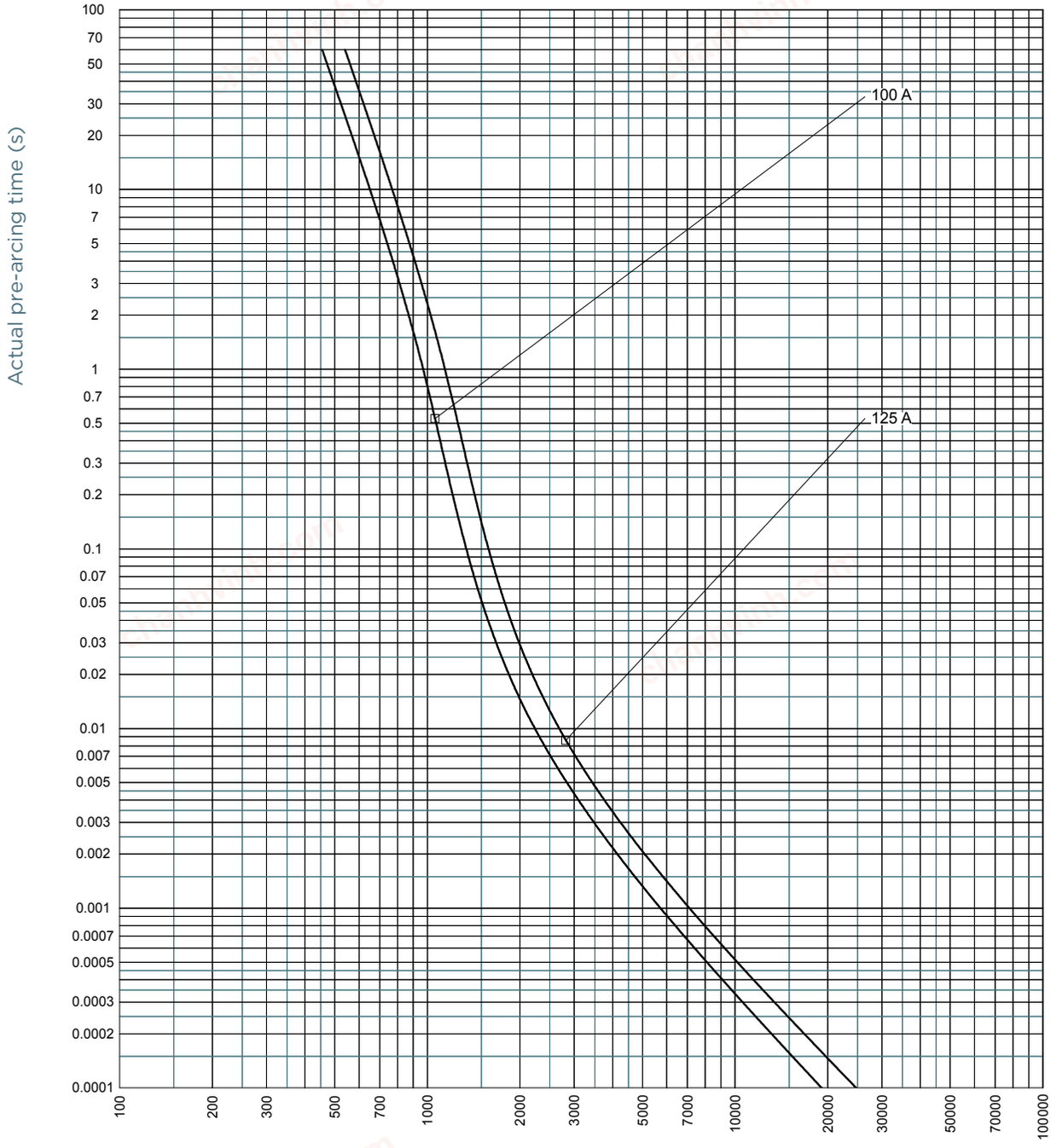
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# Ferrule fuse-links 22x58 aM 500 to 690VAC

## TIME CURRENT CHARACTERISTIC CURVES

**Size 22x58 500V aM**






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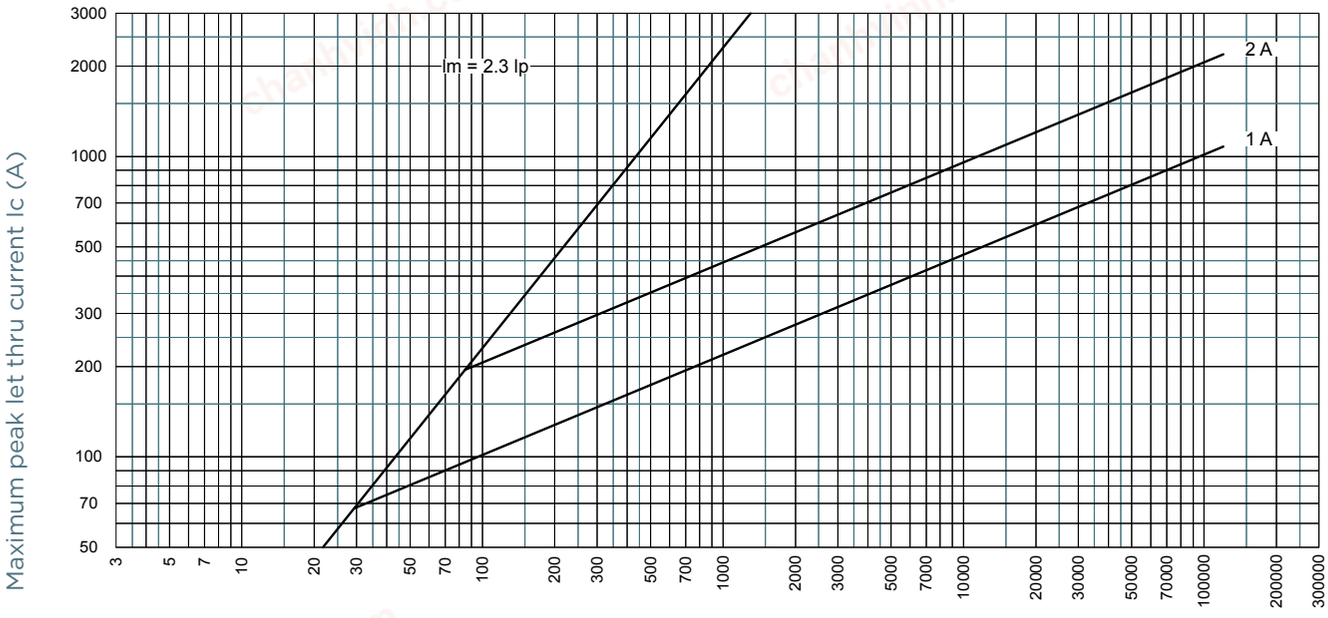
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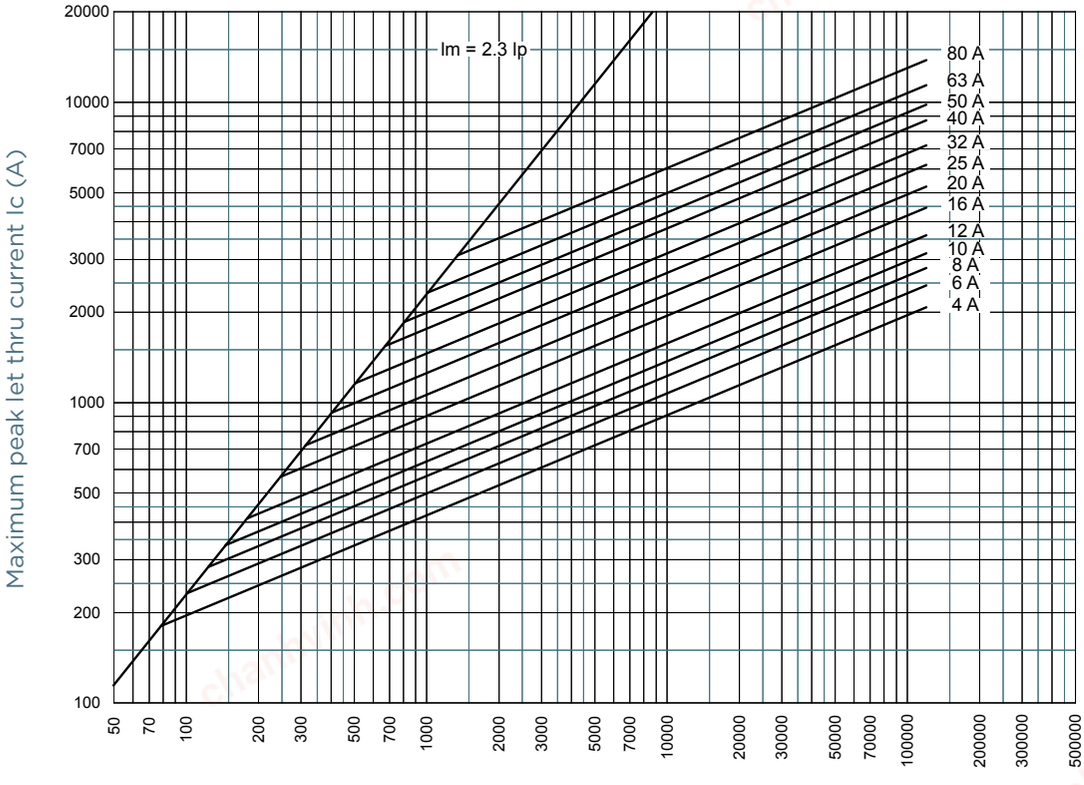
# Ferrule fuse-links 22x58 aM 500 to 690VAC

## CUT-OFF CURRENT CHARACTERISTIC

**Size 22x58 690V aM**




**Size 22x58 690V aM**



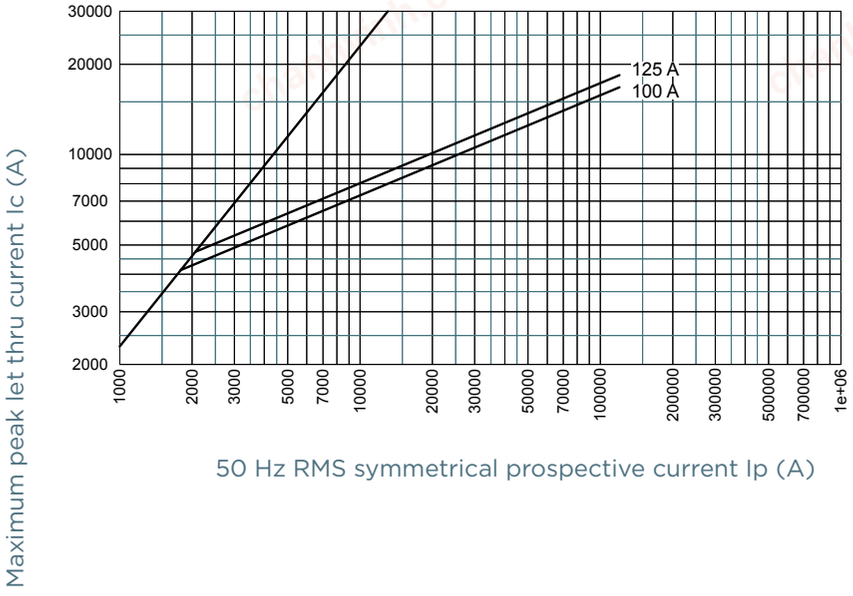



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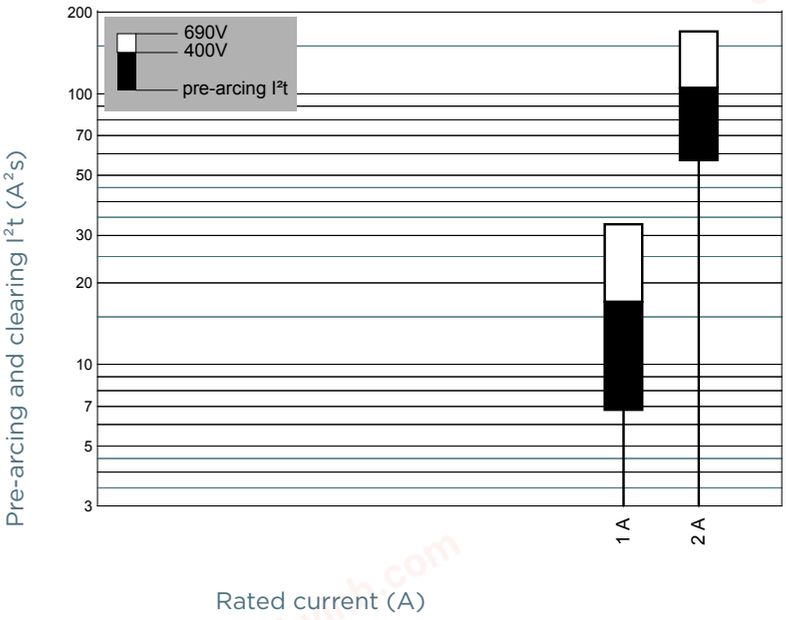
## CUT-OFF CURRENT CHARACTERISTIC

**Size 22x58 500V aM**




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

**Size 22x58 690V aM**






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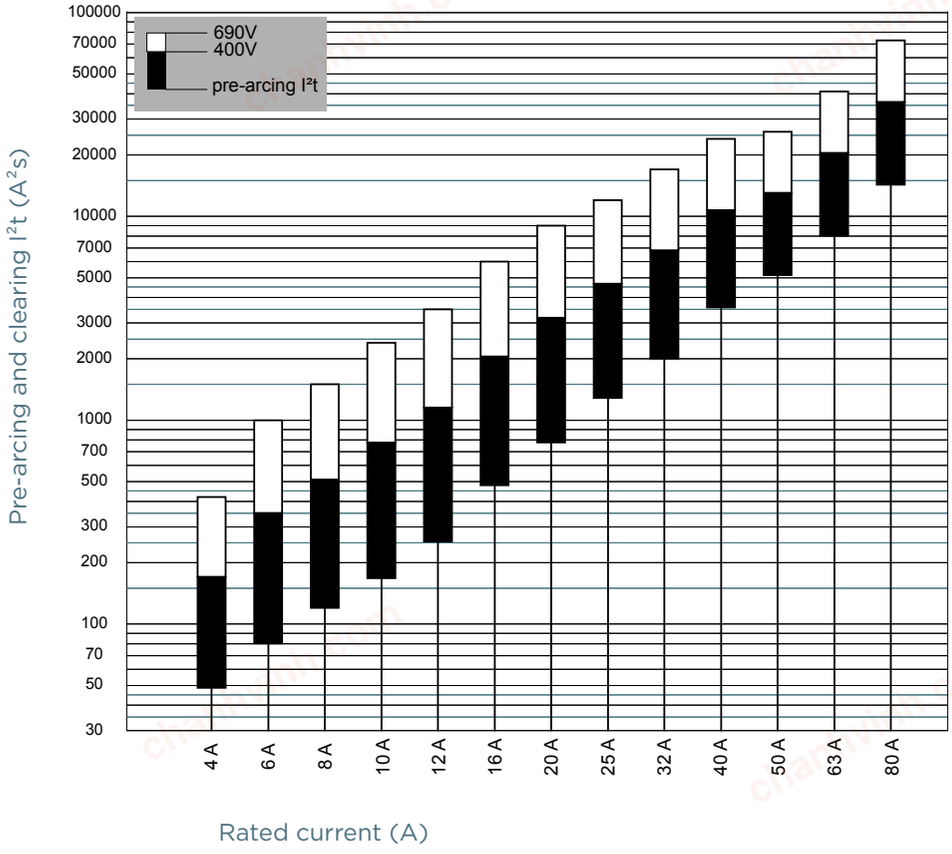
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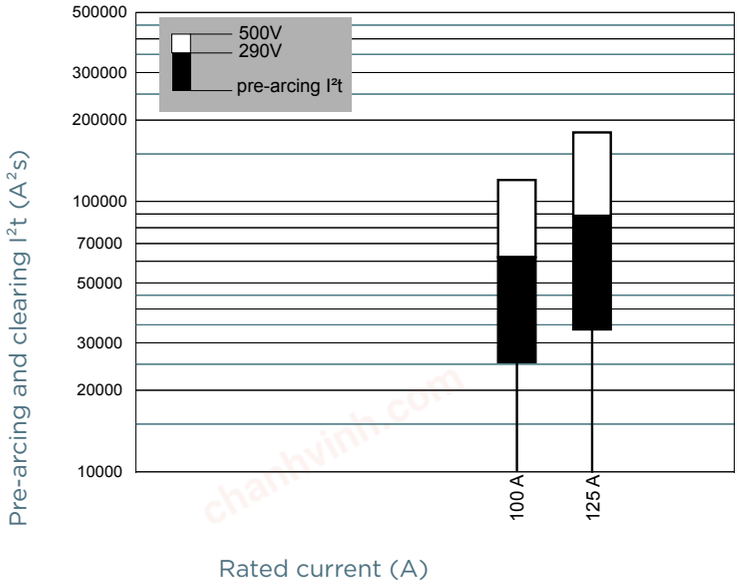
# Ferrule fuse-links 22x58 aM 500 to 690VAC

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

### Size 22x58 690V aM




### Size 22x58 500V aM






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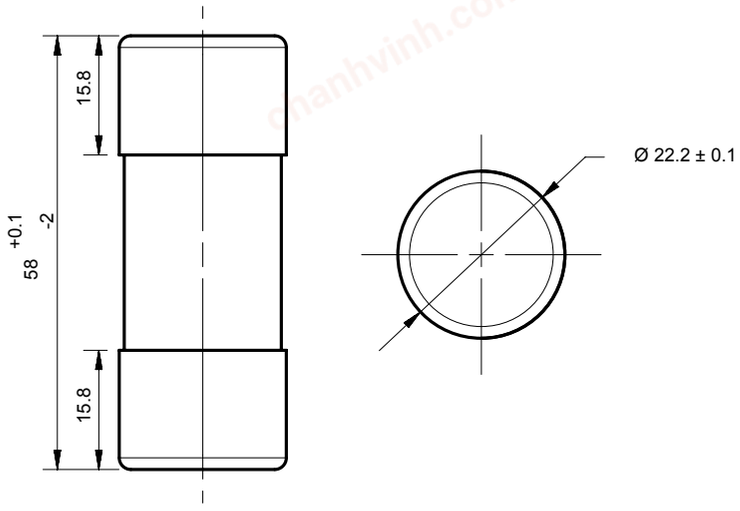
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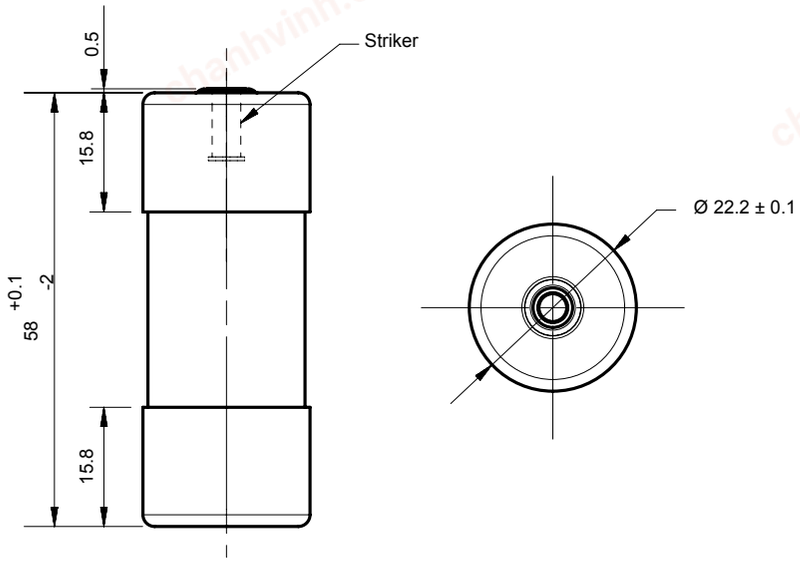
## DIMENSIONS

### Size 22x58 aM without indicator (1001214)




Dimensions in mm

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




Dimensions in mm



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