

# NH fuse-links aM 690VAC

double indicator/live tags size 000, 00, 0, 1, 2, 3

## LOW VOLTAGE IEC FUSES

### IEC NH FUSE-LINKS



The NH system is classified among plug-in fuse systems and is composed of:

- fuse-base (possibly including terminal covers and phase barriers)
- fuse-link with blade contact
- fuse-link replacement device (LV HRC fuse puller)

Since the design of this system cannot guarantee non-interchangeability of rated current it must be handled by a qualified professional.

Type “aM” NH fuse-links are partial-range breaking capacity fuse-links, used to protect motor circuits as they are strongly current-limiting and have low power losses. They interrupt currents from 6.3 times  $I_n$  up to their maximum breaking capacity and are therefore suited for short-circuit protection only. They must be associated with other switchgear for protection against overloads. These fuse-links can have a rated current equal to the motor's nominal current.

## TECHNICAL DATA OVERVIEW

|                      |                       |
|----------------------|-----------------------|
| Voltage AC           | 690 VAC               |
| Ampere Range (A)     | 2 ... 500 A           |
| Size per Standard    | 000, 00, 0, 1, 2, 3   |
| Speed/Characteristic | aM                    |
| I.R. AC              | 80 kA                 |
| Body Material        | ceramic               |
| Contact Materials    | copper, silver-plated |

## FEATURES & BENEFITS

- Dimensions according to DIN 43 620 parts 1 to 4
- Non-isolated gripping lugs
- Double indicator
- Lead free contact blades
- 0% cadmium

## APPLICATIONS

- aM: Partial purpose, motor circuit protection

## STANDARDS

- VDE 0636 Part 201
- IEC 60269-1 and -2



# NH fuse-links aM 690VAC

double indicator/live tags size 000, 00, 0, 1, 2, 3

## PRODUCT RANGE



NH000AM69V10

### Size 000

| Catalog number | Reference number | Rated voltage AC (IEC) | Rated current I <sub>n</sub> | Power dissipation at I <sub>n</sub> | Weight   | Package |
|----------------|------------------|------------------------|------------------------------|-------------------------------------|----------|---------|
| NH000AM69V2    | P227851          | 690 V                  | 2 A                          | 0.1 W                               | 0.133 kg | 3       |
| NH000AM69V4    | Q227852          | 690 V                  | 4 A                          | 0.2 W                               | 0.133 kg | 3       |
| NH000AM69V6    | R227853          | 690 V                  | 6 A                          | 0.3 W                               | 0.133 kg | 3       |
| NH000AM69V10   | S227854          | 690 V                  | 10 A                         | 0.5 W                               | 0.133 kg | 3       |
| NH000AM69V16   | T227855          | 690 V                  | 16 A                         | 0.7 W                               | 0.133 kg | 3       |
| NH000AM69V20   | V227856          | 690 V                  | 20 A                         | 0.9 W                               | 0.133 kg | 3       |
| NH000AM69V25   | W227857          | 690 V                  | 25 A                         | 1.2 W                               | 0.133 kg | 3       |
| NH000AM69V32   | X227858          | 690 V                  | 32 A                         | 1.5 W                               | 0.133 kg | 3       |
| NH000AM69V35   | Y227859          | 690 V                  | 35 A                         | 1.6 W                               | 0.133 kg | 3       |
| NH000AM69V40   | Z227860          | 690 V                  | 40 A                         | 1.8 W                               | 0.133 kg | 3       |
| NH000AM69V50   | A227861          | 690 V                  | 50 A                         | 2.3 W                               | 0.133 kg | 3       |
| NH000AM69V63   | B227862          | 690 V                  | 63 A                         | 2.9 W                               | 0.133 kg | 3       |



NH00AM69V125

### Size 00

| Catalog number | Reference number | Rated voltage AC (IEC) | Rated current I <sub>n</sub> | Power dissipation at I <sub>n</sub> | Weight | Package |
|----------------|------------------|------------------------|------------------------------|-------------------------------------|--------|---------|
| NH00AM69V50    | D227864          | 690 V                  | 50 A                         | 2.3 W                               | 0.2 kg | 3       |
| NH00AM69V63    | E227865          | 690 V                  | 63 A                         | 2.9 W                               | 0.2 kg | 3       |
| NH00AM69V80    | F227866          | 690 V                  | 80 A                         | 3.6 W                               | 0.2 kg | 3       |
| NH00AM69V100   | G227867          | 690 V                  | 100 A                        | 5.2 W                               | 0.2 kg | 3       |
| NH00AM69V125   | H227868          | 690 V                  | 125 A                        | 6.4 W                               | 0.2 kg | 3       |



NH0AM69V160

### Size 0

| Catalog number | Reference number | Rated voltage AC (IEC) | Rated current I <sub>n</sub> | Power dissipation at I <sub>n</sub> | Weight  | Package |
|----------------|------------------|------------------------|------------------------------|-------------------------------------|---------|---------|
| NH0AM69V6      | K227870          | 690 V                  | 6 A                          | 0.3 W                               | 0.26 kg | 3       |
| NH0AM69V10     | L227871          | 690 V                  | 10 A                         | 0.5 W                               | 0.26 kg | 3       |
| NH0AM69V16     | M227872          | 690 V                  | 16 A                         | 0.8 W                               | 0.26 kg | 3       |
| NH0AM69V20     | N227873          | 690 V                  | 20 A                         | 1 W                                 | 0.26 kg | 3       |
| NH0AM69V25     | P227874          | 690 V                  | 25 A                         | 1.3 W                               | 0.26 kg | 3       |
| NH0AM69V32     | Q227875          | 690 V                  | 32 A                         | 1.6 W                               | 0.26 kg | 3       |
| NH0AM69V35     | R227876          | 690 V                  | 35 A                         | 1.7 W                               | 0.26 kg | 3       |
| NH0AM69V40     | S227877          | 690 V                  | 40 A                         | 2 W                                 | 0.26 kg | 3       |
| NH0AM69V50     | T227878          | 690 V                  | 50 A                         | 2.8 W                               | 0.26 kg | 3       |
| NH0AM69V63     | V227879          | 690 V                  | 63 A                         | 3.4 W                               | 0.26 kg | 3       |
| NH0AM69V80     | W227880          | 690 V                  | 80 A                         | 4.9 W                               | 0.26 kg | 3       |
| NH0AM69V100    | X227881          | 690 V                  | 100 A                        | 6 W                                 | 0.26 kg | 3       |
| NH0AM69V125    | Y227882          | 690 V                  | 125 A                        | 7.9 W                               | 0.26 kg | 3       |
| NH0AM69V160    | Z227883          | 690 V                  | 160 A                        | 10.5 W                              | 0.26 kg | 3       |

# NH fuse-links aM 690VAC

double indicator/live tags size 000, 00, 0, 1, 2, 3

## PRODUCT RANGE



NH1AM69V250

### Size 1

| Catalog number | Reference number | Rated voltage AC (IEC) | Rated current I <sub>n</sub> | Power dissipation at I <sub>n</sub> | Weight  | Package |
|----------------|------------------|------------------------|------------------------------|-------------------------------------|---------|---------|
| NH1AM69V16     | B227885          | 690 V                  | 16 A                         | 1 W                                 | 0.43 kg | 3       |
| NH1AM69V20     | C227886          | 690 V                  | 20 A                         | 1.2 W                               | 0.43 kg | 3       |
| NH1AM69V25     | D227887          | 690 V                  | 25 A                         | 1.4 W                               | 0.43 kg | 3       |
| NH1AM69V32     | E227888          | 690 V                  | 32 A                         | 1.9 W                               | 0.43 kg | 3       |
| NH1AM69V35     | F227889          | 690 V                  | 35 A                         | 2 W                                 | 0.43 kg | 3       |
| NH1AM69V40     | G227890          | 690 V                  | 40 A                         | 2.3 W                               | 0.43 kg | 3       |
| NH1AM69V50     | H227891          | 690 V                  | 50 A                         | 2.9 W                               | 0.43 kg | 3       |
| NH1AM69V63     | J227892          | 690 V                  | 63 A                         | 3.6 W                               | 0.43 kg | 3       |
| NH1AM69V80     | K227893          | 690 V                  | 80 A                         | 4.6 W                               | 0.43 kg | 3       |
| NH1AM69V100    | L227894          | 690 V                  | 100 A                        | 5.8 W                               | 0.43 kg | 3       |
| NH1AM69V125    | M227895          | 690 V                  | 125 A                        | 7.5 W                               | 0.43 kg | 3       |
| NH1AM69V160    | N227896          | 690 V                  | 160 A                        | 10.4 W                              | 0.43 kg | 3       |
| NH1AM69V200    | P227897          | 690 V                  | 200 A                        | 14.2 W                              | 0.43 kg | 3       |
| NH1AM69V224    | Q227898          | 690 V                  | 224 A                        | 15.8 W                              | 0.43 kg | 3       |
| NH1AM69V250    | R227899          | 690 V                  | 250 A                        | 17.5 W                              | 0.43 kg | 3       |



NH2AM69V400

### Size 2

| Catalog number | Reference number | Rated voltage AC (IEC) | Rated current I <sub>n</sub> | Power dissipation at I <sub>n</sub> | Weight  | Package |
|----------------|------------------|------------------------|------------------------------|-------------------------------------|---------|---------|
| NH2AM69V35     | L227963          | 690 V                  | 35 A                         | 1.8 W                               | 0.64 kg | 3       |
| NH2AM69V40     | M227964          | 690 V                  | 40 A                         | 2.1 W                               | 0.64 kg | 3       |
| NH2AM69V50     | N227965          | 690 V                  | 50 A                         | 2.7 W                               | 0.64 kg | 3       |
| NH2AM69V63     | P227966          | 690 V                  | 63 A                         | 3.4 W                               | 0.64 kg | 3       |
| NH2AM69V80     | Q227967          | 690 V                  | 80 A                         | 4.4 W                               | 0.64 kg | 3       |
| NH2AM69V100    | R227968          | 690 V                  | 100 A                        | 5.5 W                               | 0.64 kg | 3       |
| NH2AM69V125    | S227969          | 690 V                  | 125 A                        | 6.4 W                               | 0.64 kg | 3       |
| NH2AM69V160    | T227970          | 690 V                  | 160 A                        | 9.3 W                               | 0.64 kg | 3       |
| NH2AM69V200    | V227971          | 690 V                  | 200 A                        | 11.3 W                              | 0.64 kg | 3       |
| NH2AM69V224    | W227972          | 690 V                  | 224 A                        | 12.2 W                              | 0.64 kg | 3       |
| NH2AM69V250    | X227973          | 690 V                  | 250 A                        | 16.8 W                              | 0.64 kg | 3       |
| NH2AM69V300    | Y227974          | 690 V                  | 300 A                        | 21 W                                | 0.64 kg | 3       |
| NH2AM69V315    | Z227975          | 690 V                  | 315 A                        | 23.1 W                              | 0.64 kg | 3       |
| NH2AM69V355    | A227976          | 690 V                  | 355 A                        | 26.4 W                              | 0.64 kg | 3       |
| NH2AM69V400    | B227977          | 690 V                  | 400 A                        | 29.7 W                              | 0.64 kg | 3       |



NH3AM69V500

### Size 3

| Catalog number | Reference number | Rated voltage AC (IEC) | Rated current I <sub>n</sub> | Power dissipation at I <sub>n</sub> | Weight  | Package |
|----------------|------------------|------------------------|------------------------------|-------------------------------------|---------|---------|
| NH3AM69V250    | D227979          | 690 V                  | 250 A                        | 14.6 W                              | 1.05 kg | 1       |
| NH3AM69V300    | E227980          | 690 V                  | 300 A                        | 21 W                                | 1.05 kg | 1       |
| NH3AM69V315    | F227981          | 690 V                  | 315 A                        | 21 W                                | 1.05 kg | 1       |
| NH3AM69V355    | G227982          | 690 V                  | 355 A                        | 23.3 W                              | 1.05 kg | 1       |
| NH3AM69V400    | H227983          | 690 V                  | 400 A                        | 29.1 W                              | 1.05 kg | 1       |
| NH3AM69V425    | J227984          | 690 V                  | 425 A                        | 29.1 W                              | 1.05 kg | 1       |
| NH3AM69V450    | K227985          | 690 V                  | 450 A                        | 34 W                                | 1.05 kg | 1       |
| NH3AM69V500    | L227986          | 690 V                  | 500 A                        | 42 W                                | 1.05 kg | 1       |

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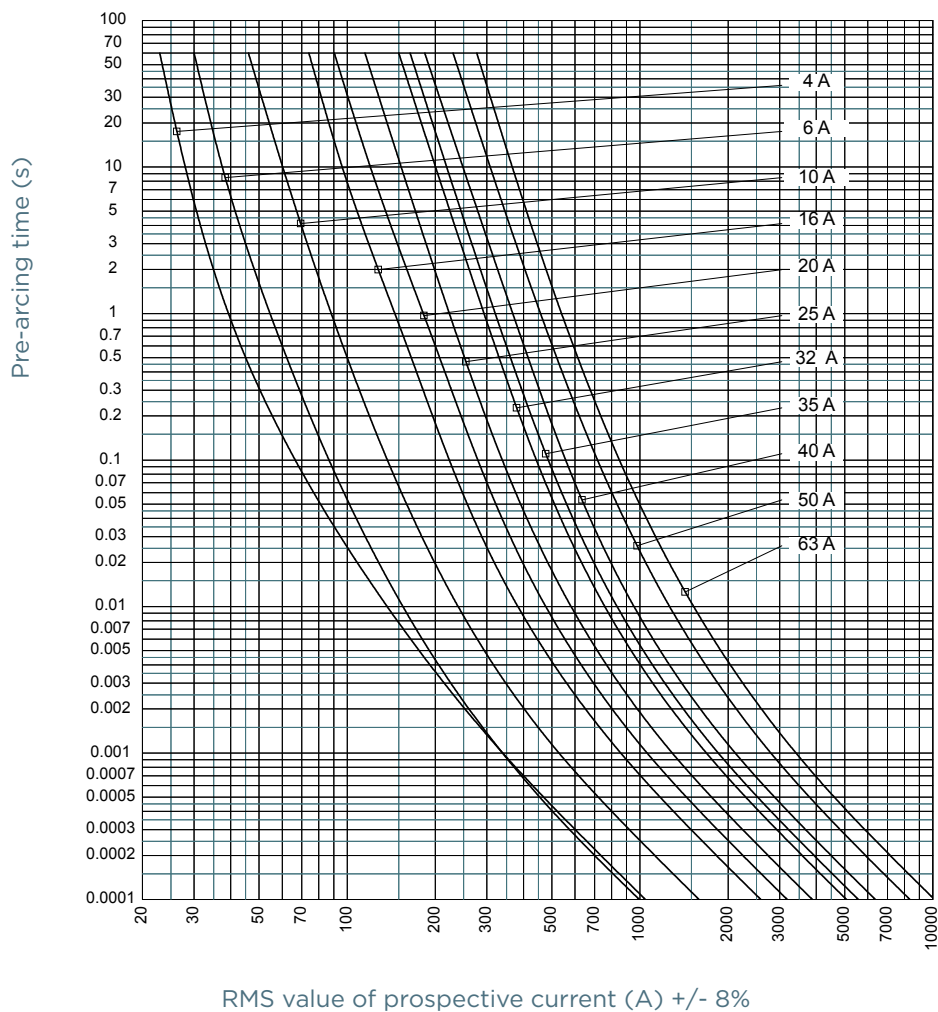
double indicator/live tags size 000, 00, 0, 1, 2, 3

## TECHNICAL DATA

|                            | Size 000         | Size 00          | Size 0           | Size 1           | Size 2           | Size 3           |
|----------------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Rated current              | 2 ... 63 A       | 50 ... 125 A     | 6 ... 160 A      | 16 ... 250 A     | 35 ... 400 A     | 250 ... 500 A    |
| Rated breaking capacity AC | 80 kA            | 80 kA            | 80 kA            | 80 kA            | 80 kA            | 80 kA            |
| Rated voltage AC           | 690 V            | 690 V            | 690 V            | 690 V            | 690 V            | 690 V            |
| Indication System          | double indicator | double indicator | double indicator | double indicator | double indicator | double indicator |
| Width                      | 21 mm            | 30 mm            | 30 mm            | 40 mm            | 52 mm            | 72 mm            |

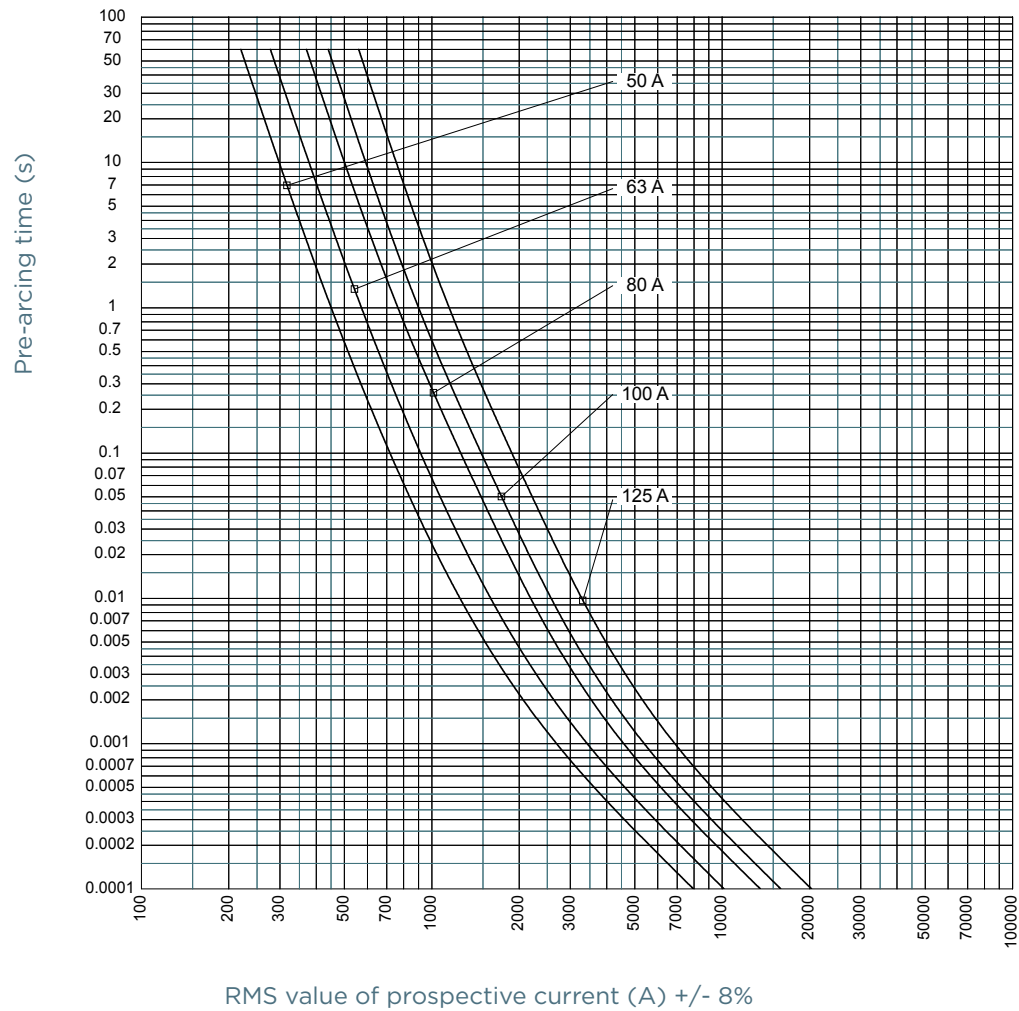
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### Size 000



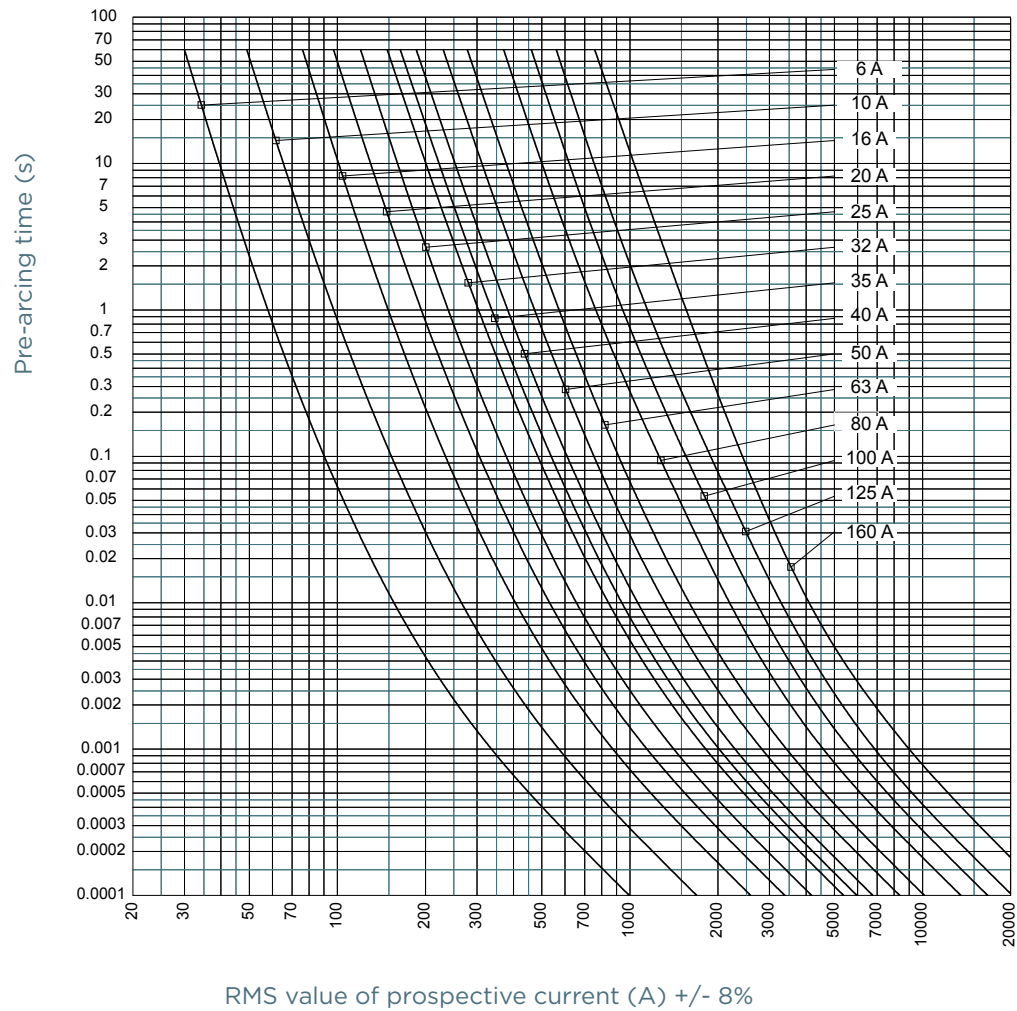
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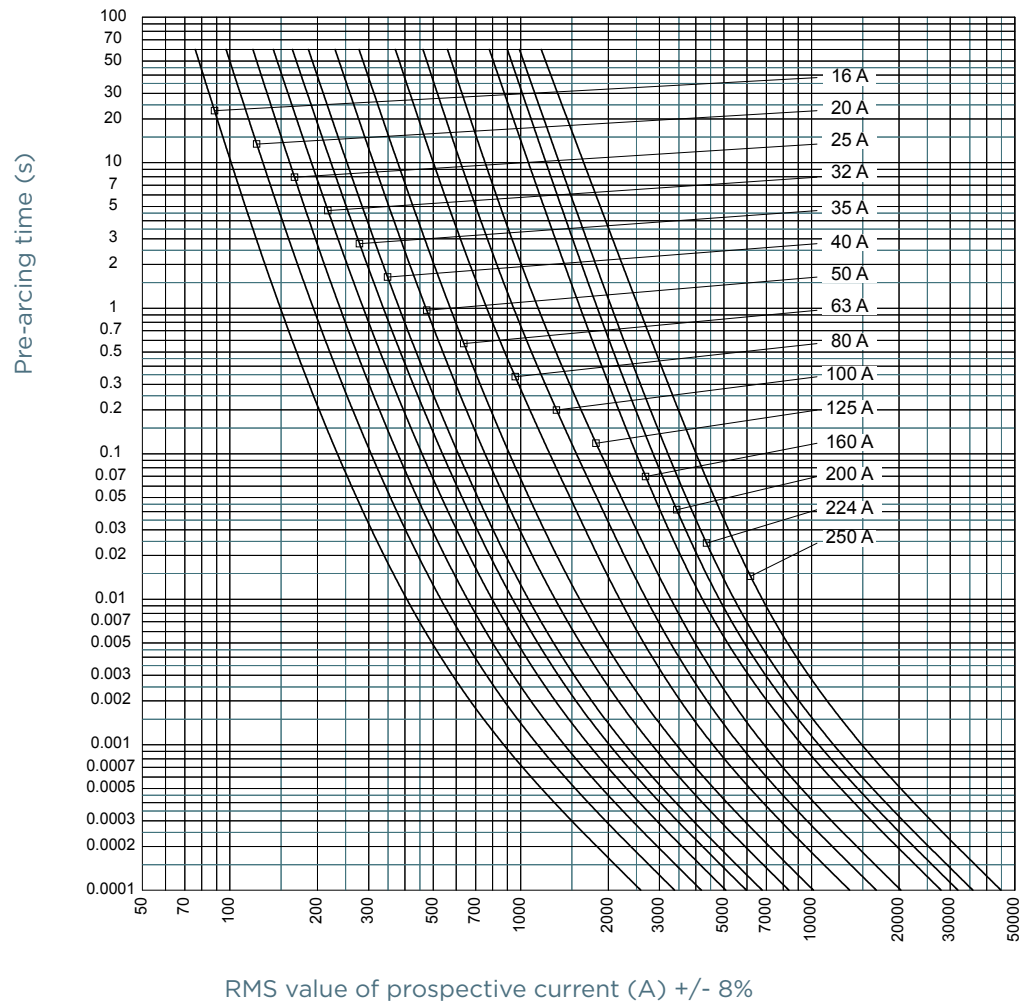
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Size 0



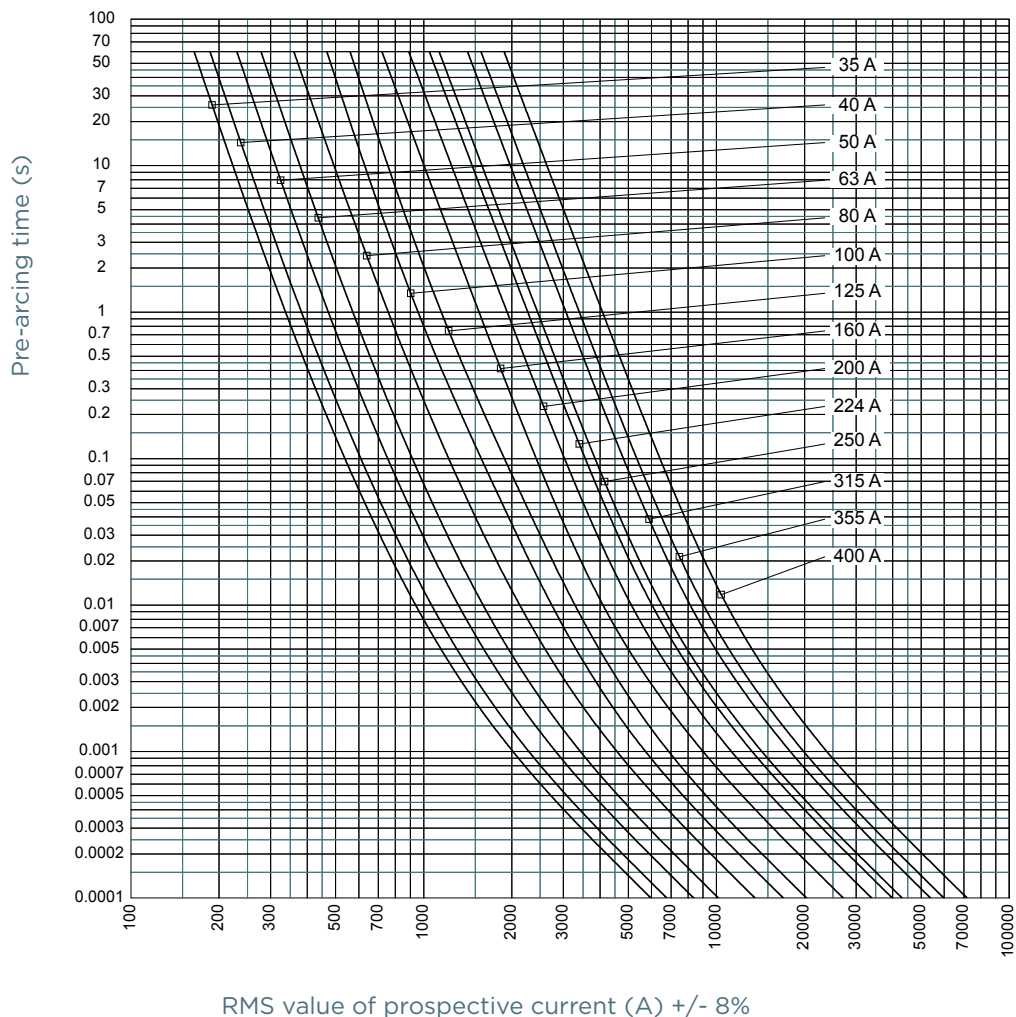
TIME CURRENT CHARACTERISTIC CURVES

Size 1



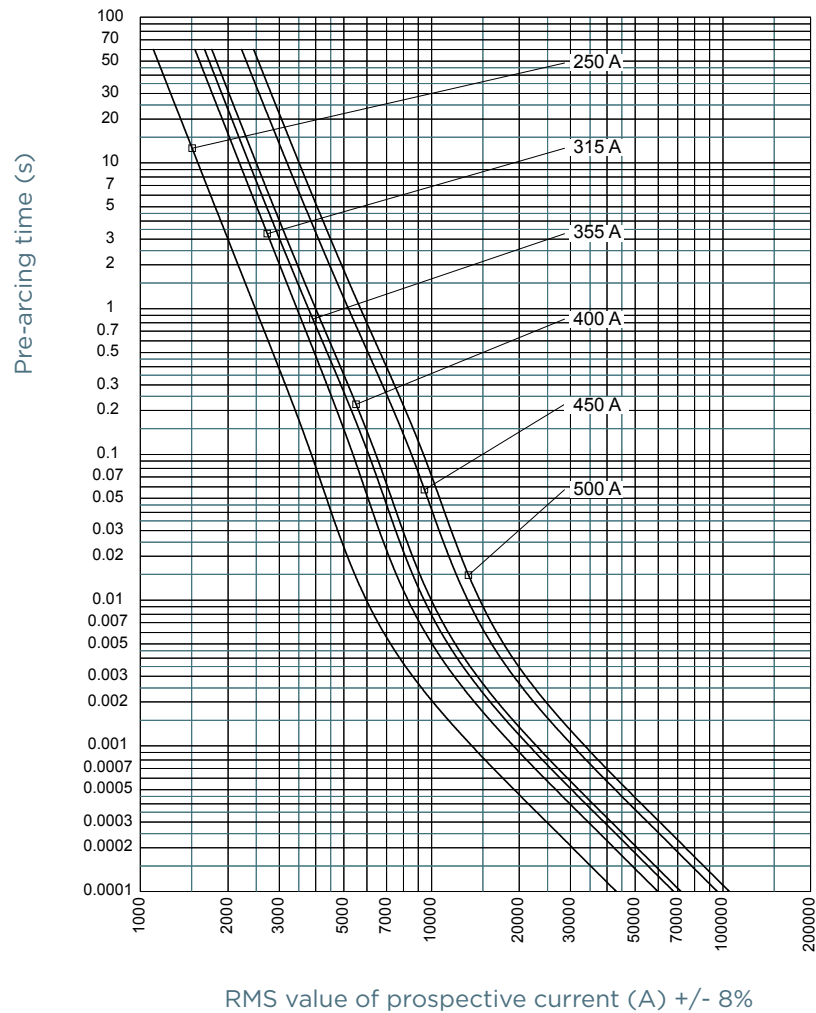
## TIME CURRENT CHARACTERISTIC CURVES

### Size 2



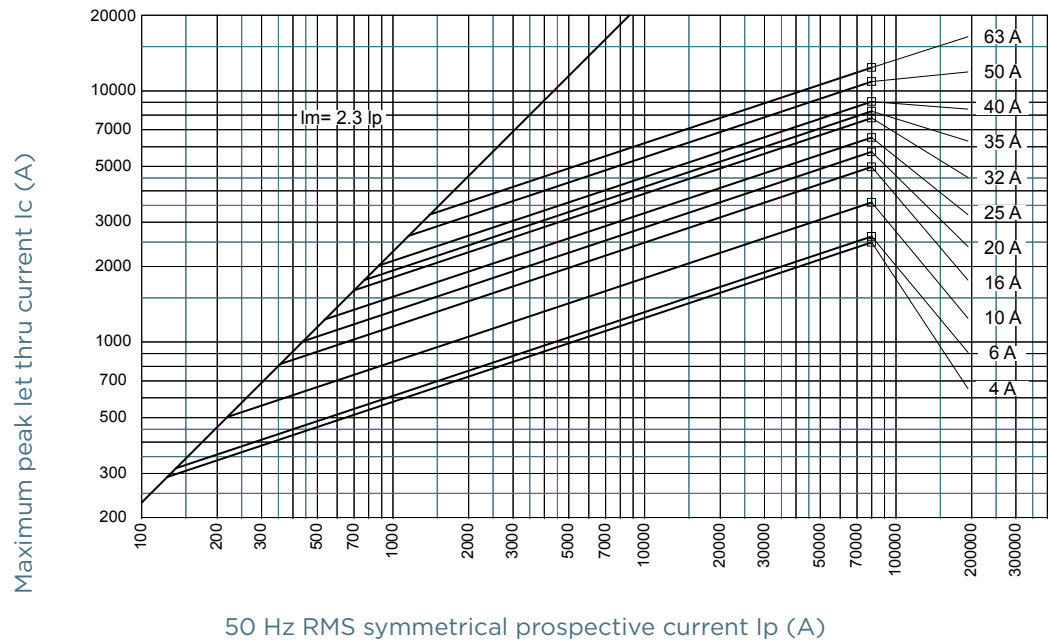
TIME CURRENT CHARACTERISTIC CURVES

Size 3

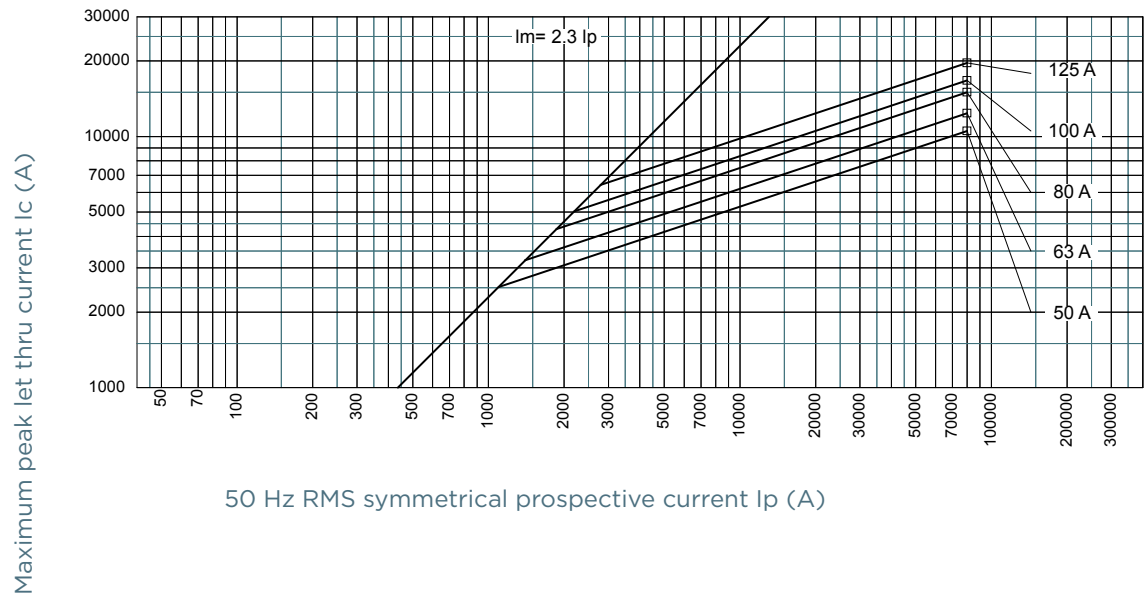


CUT-OFF CURRENT CHARACTERISTIC

Size 000

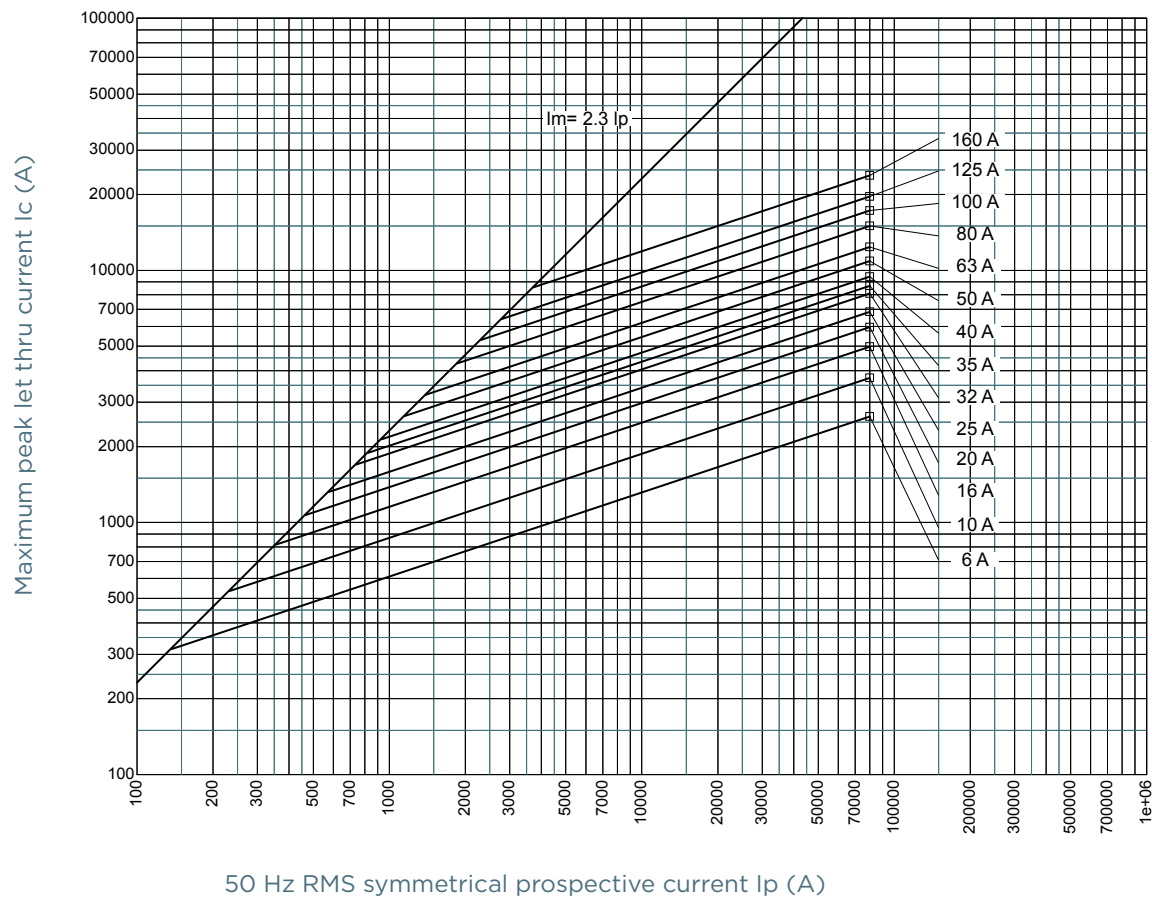


Size 00



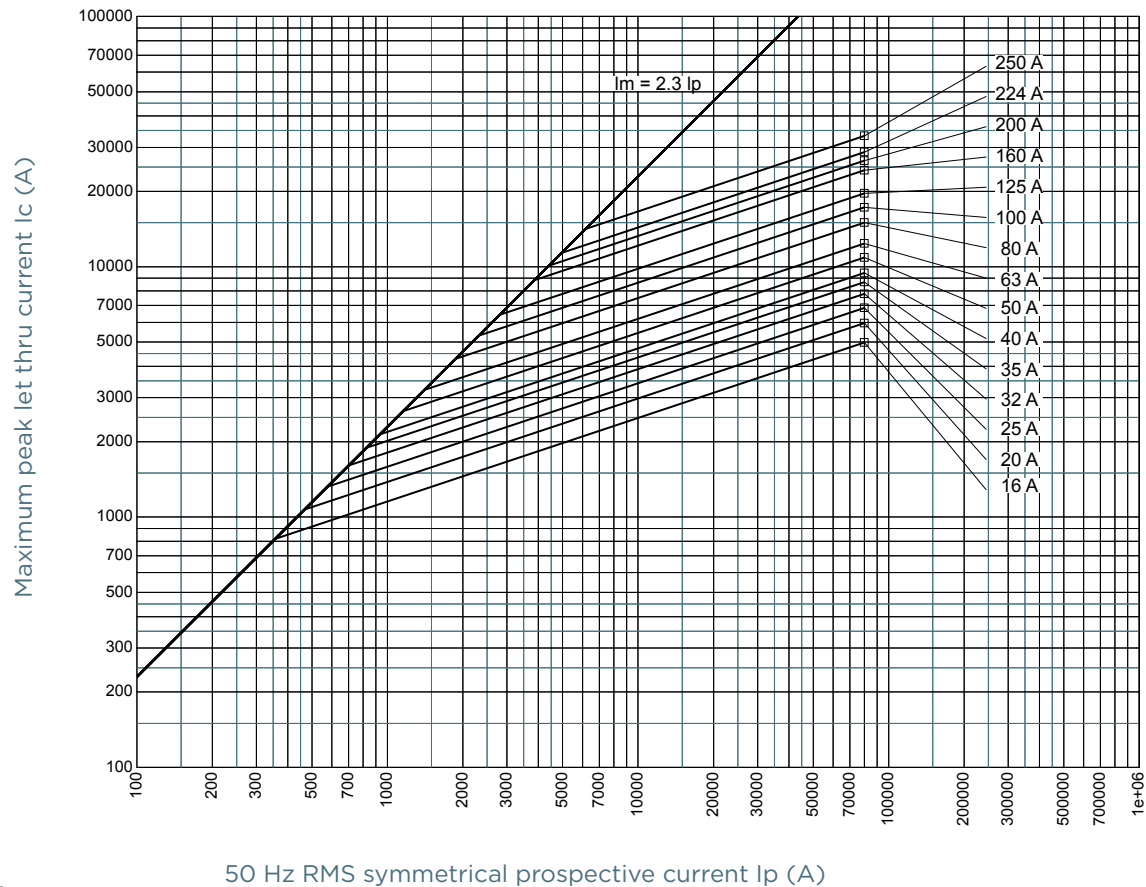
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Size 0

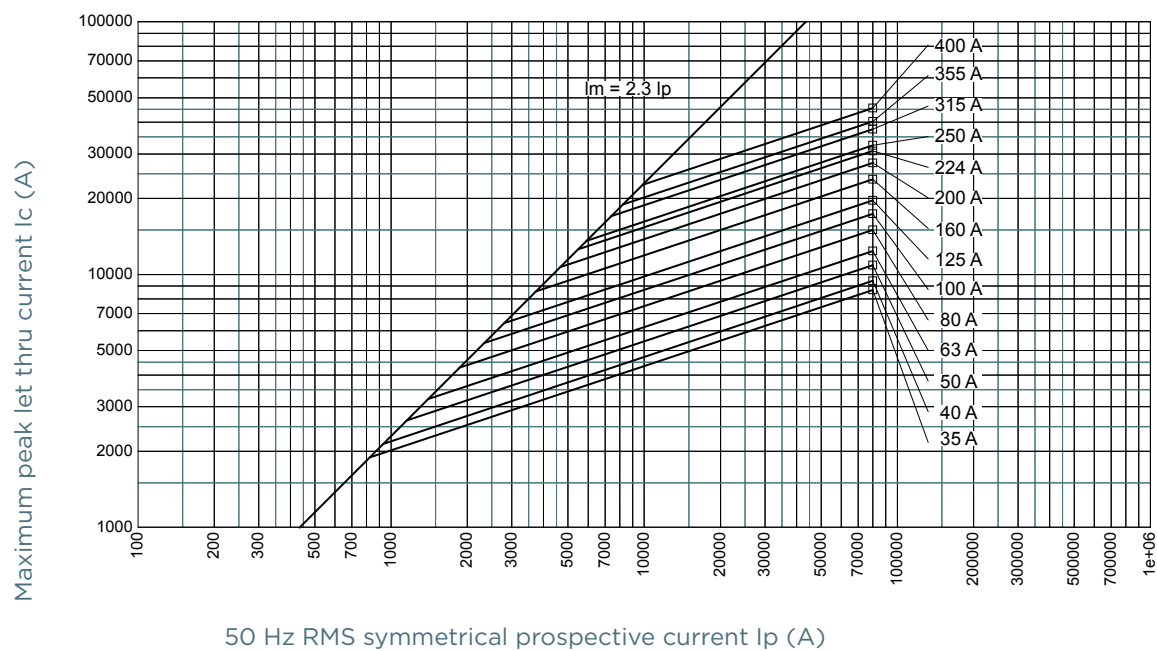


CUT-OFF CURRENT CHARACTERISTIC

Size 1

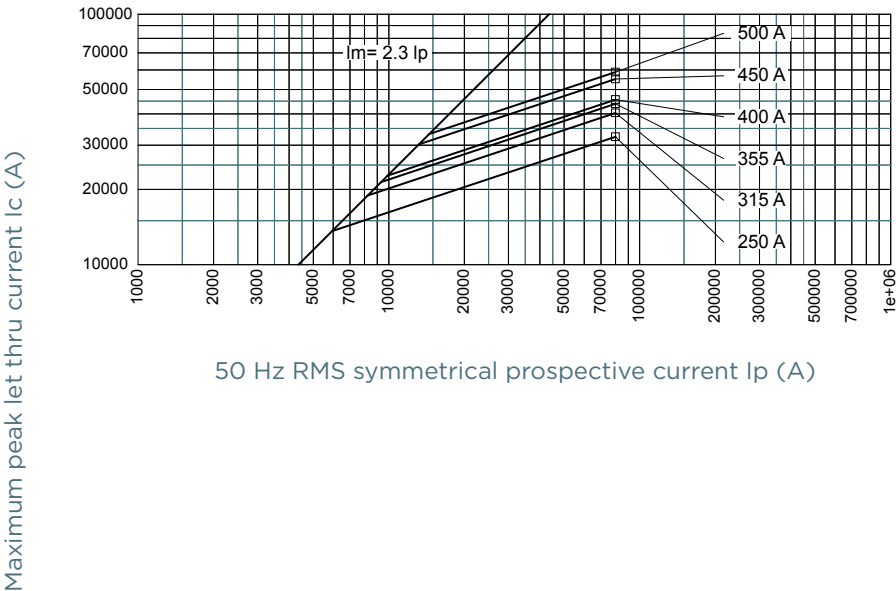


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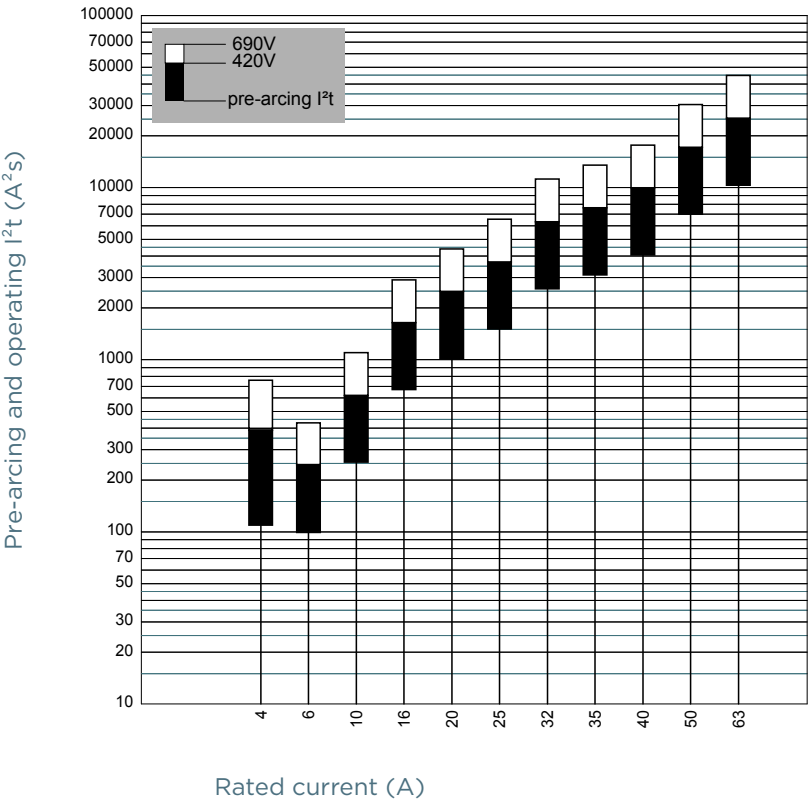
CUT-OFF CURRENT CHARACTERISTIC

Size 3



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

Size 000

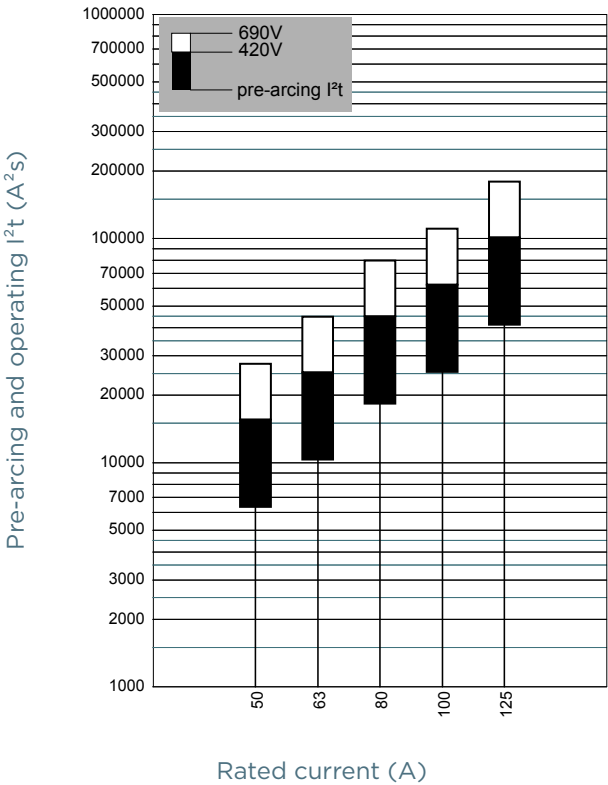


# NH fuse-links aM 690VAC

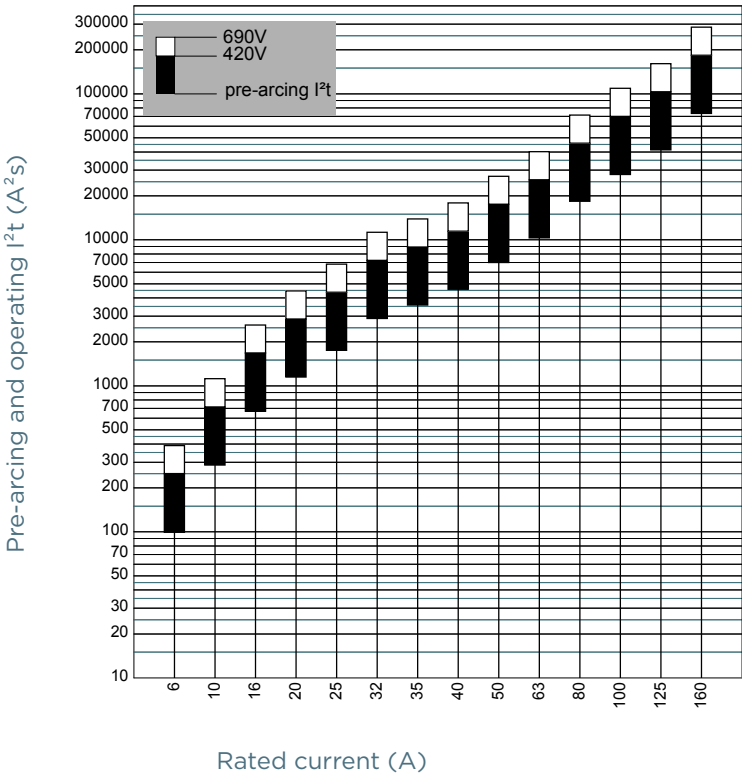
double indicator/live tags size 000, 00, 0, 1, 2, 3

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

### Size 00

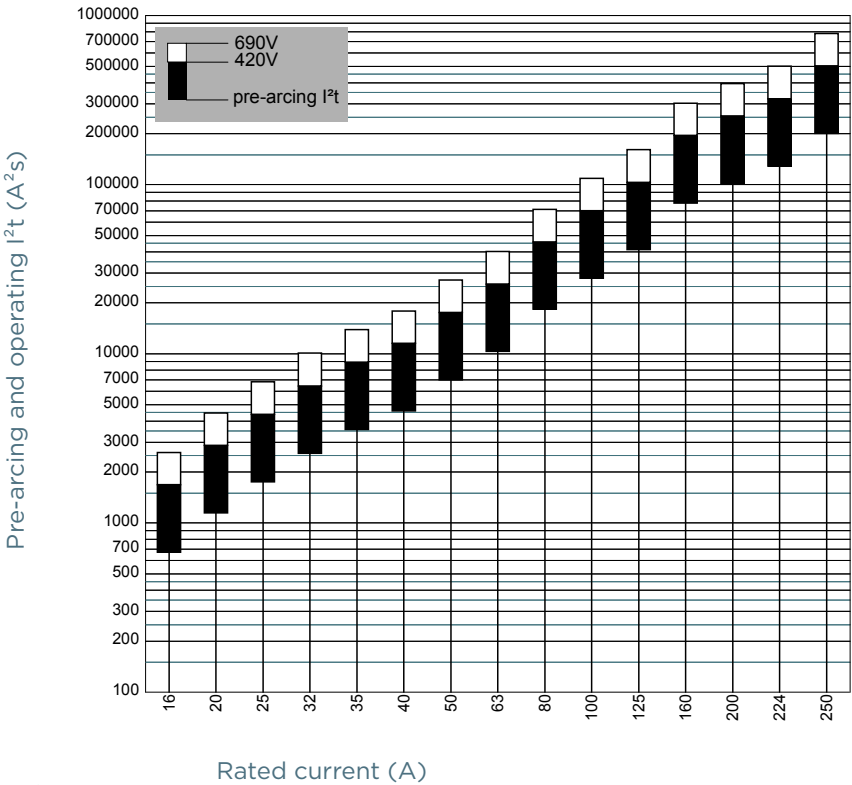


### Size 0

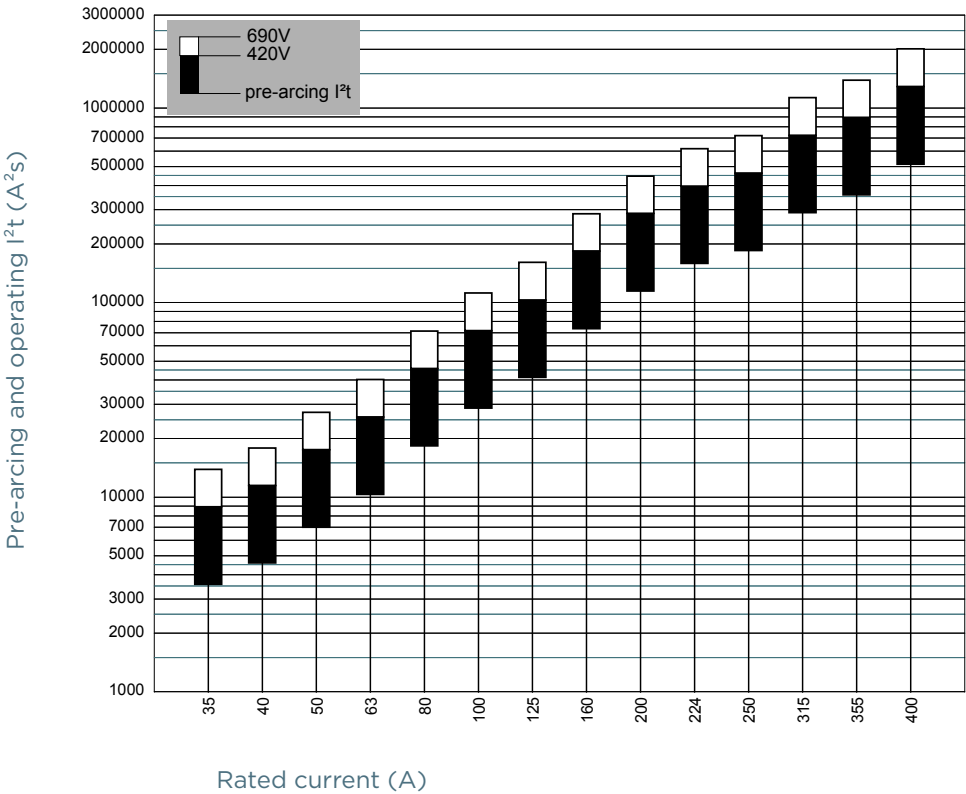


PRE-ARCING AND OPERATING I<sup>2</sup>t CHARACTERISTICS

Size 1

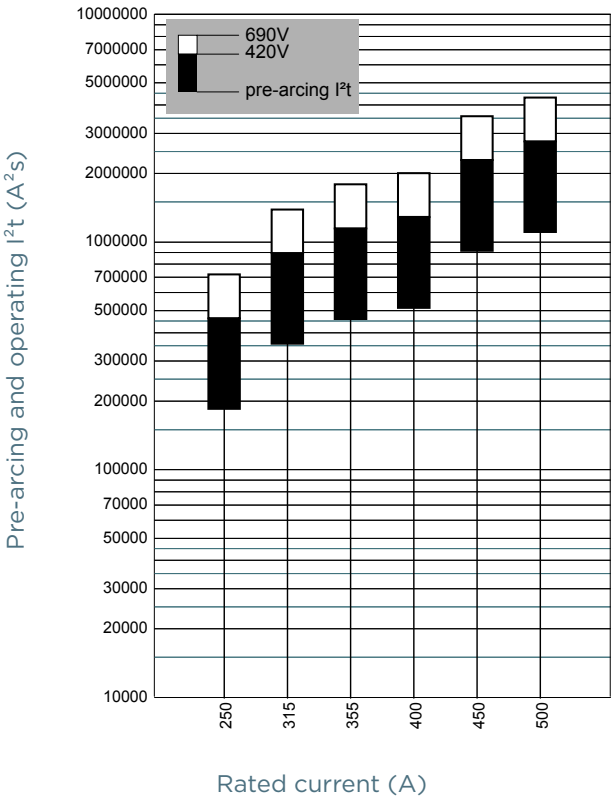


Size 2



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

Size 3

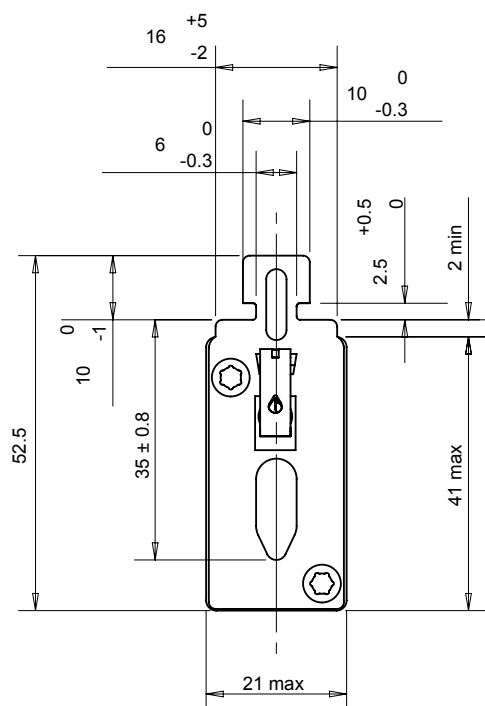
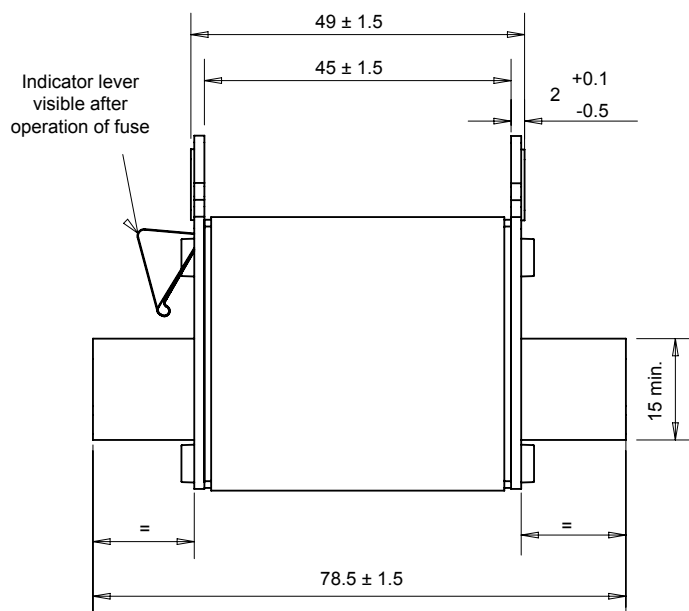


# NH fuse-links aM 690VAC

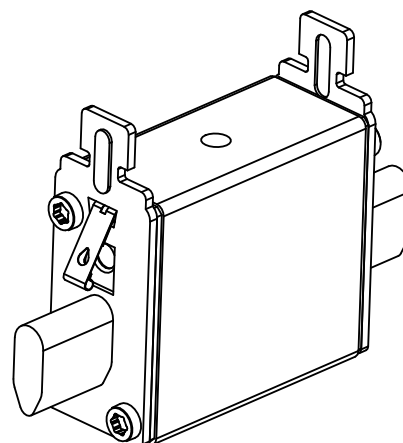
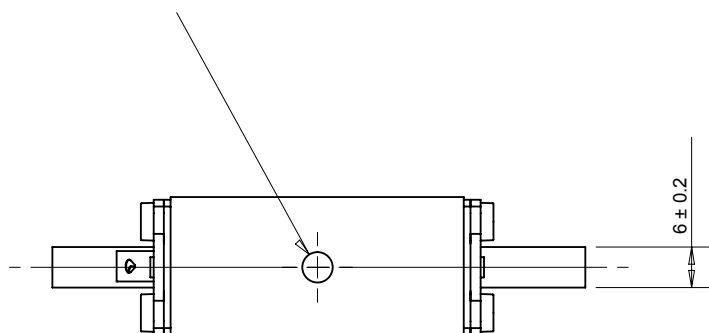
double indicator/live tags size 000, 00, 0, 1, 2, 3

## DIMENSIONS

### size 000 with double indicator



Visibility of red indicator signals conduction of the fuse-link.  
After operation the red indicator is no longer visible



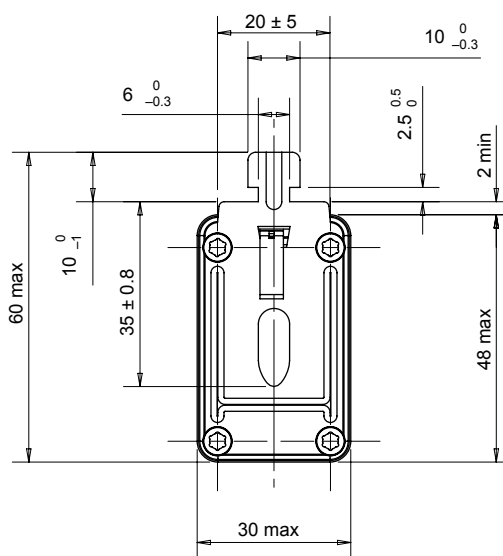
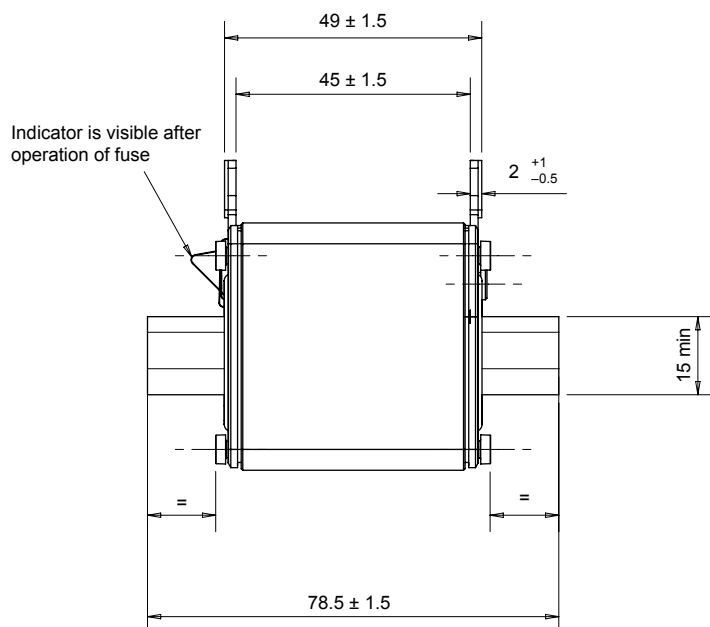
Dimensions in mm

# NH fuse-links aM 690VAC

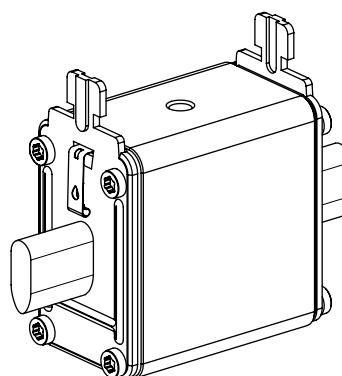
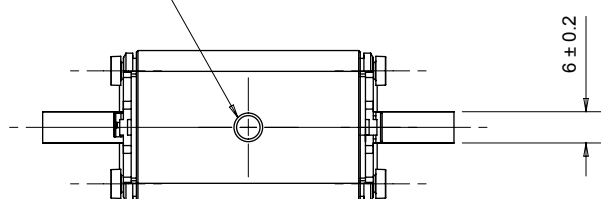
double indicator/live tags size 000, 00, 0, 1, 2, 3

## DIMENSIONS

### size 00 with double indicator



- Visibility of red indicator signals conduction of the fuse-link. After operation the red indicator is no longer visible.



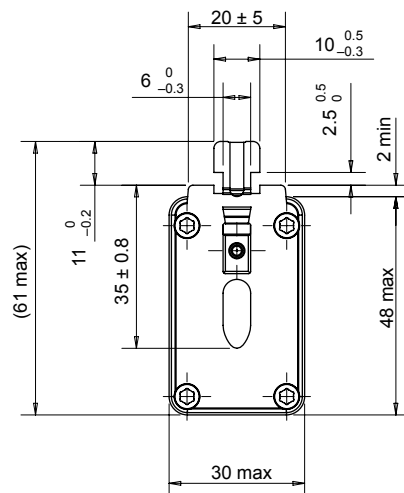
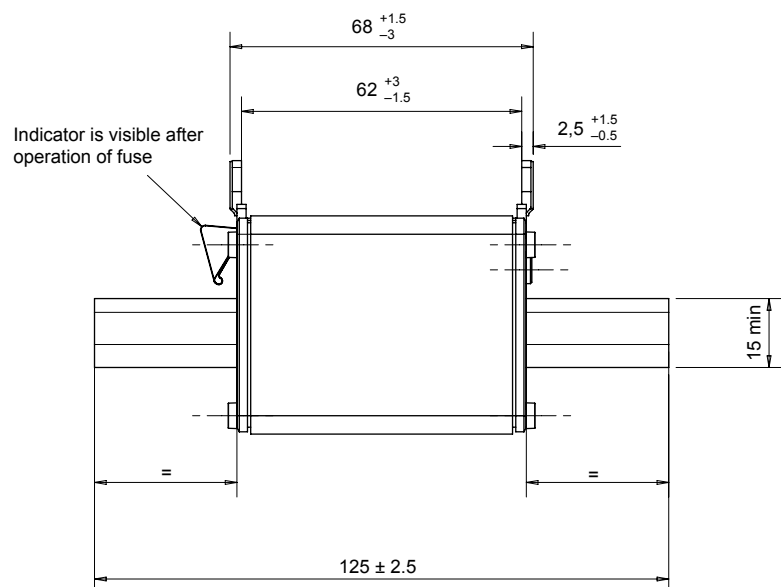
Dimensions in mm

# NH fuse-links aM 690VAC

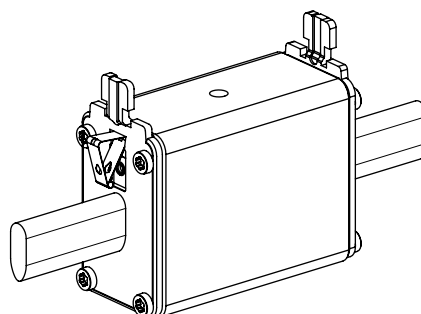
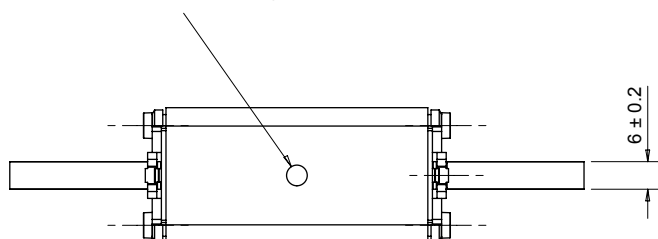
double indicator/live tags size 000, 00, 0, 1, 2, 3

## DIMENSIONS

### size 0 with double indicator



Visibility of red indicator signals conduction of the fuse-link.  
After operation the red indicator is no longer visible.



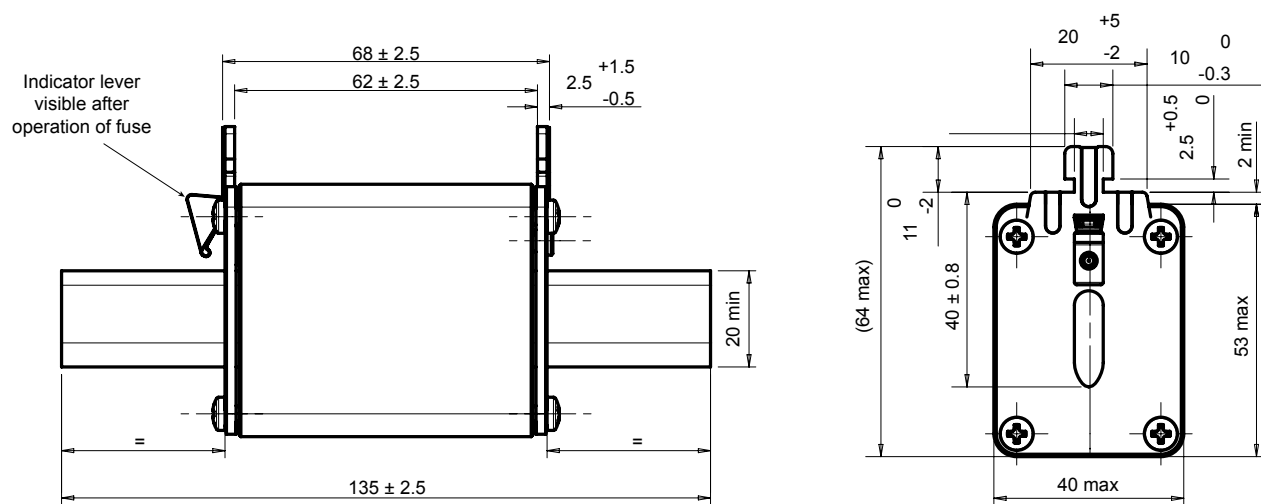
Dimensions in mm

# NH fuse-links aM 690VAC

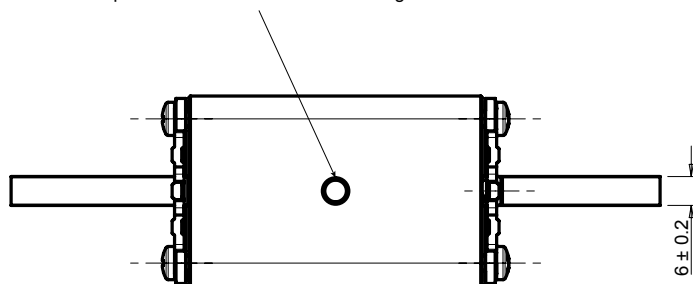
double indicator/live tags size 000, 00, 0, 1, 2, 3

## DIMENSIONS

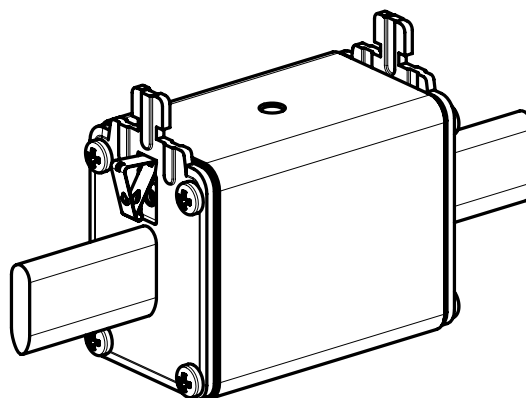
### size 1 with double indicator



Visibility of red indicator signals conduction of the fuse-link.  
After operation the red indicator is no longer visible



Dimensions in mm

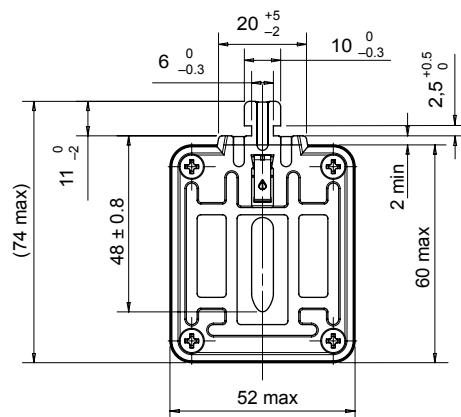
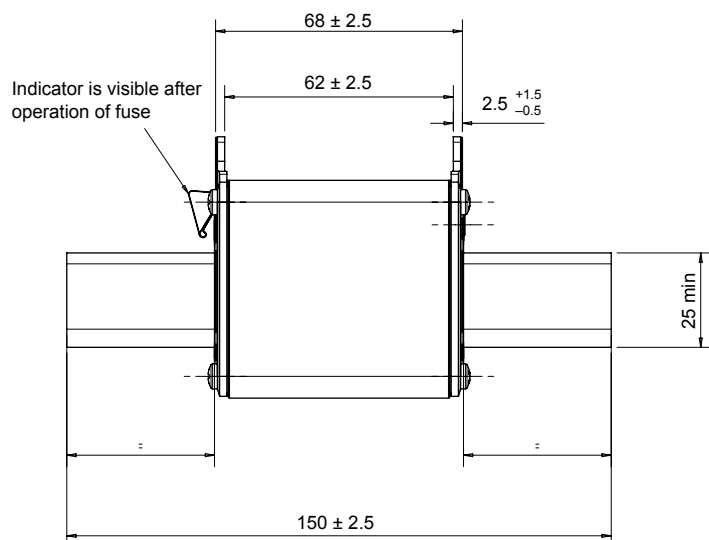


# NH fuse-links aM 690VAC

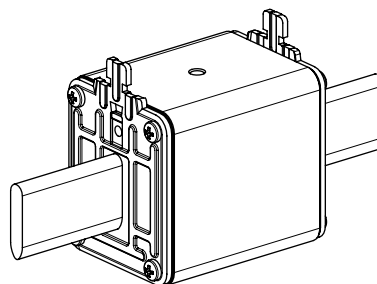
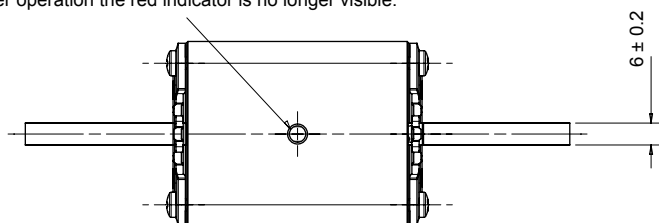
double indicator/live tags size 000, 00, 0, 1, 2, 3

## DIMENSIONS

### size 2 with double indicator



Visibility of red indicator signals conduction of the fuse-link.  
After operation the red indicator is no longer visible.



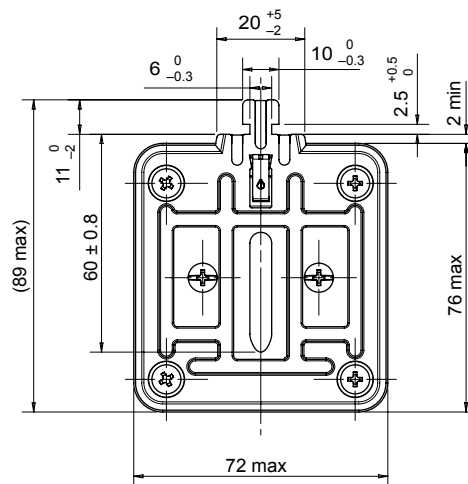
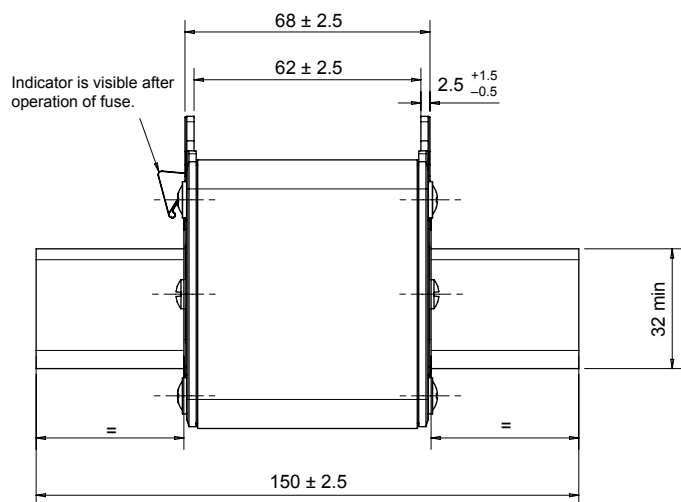
Dimensions in mm

# NH fuse-links aM 690VAC

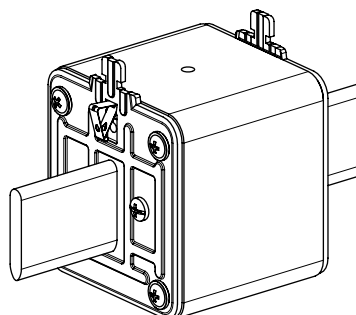
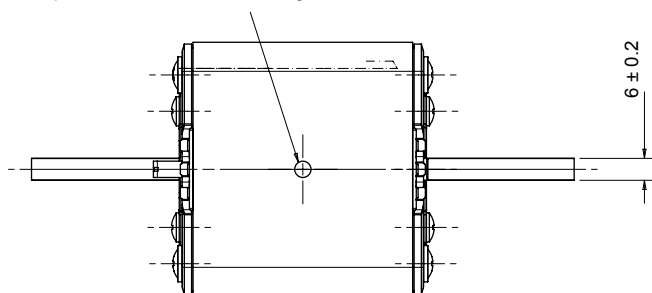
double indicator/live tags size 000, 00, 0, 1, 2, 3

## DIMENSIONS

### size 3 with double indicator



Visibility of red indicator signals conduction of the fuse-link.  
After operation the red indicator is no longer visible.



Dimensions in mm