



SOLUTIONS GUIDE

## OFFERING FOR LOW VOLTAGE ELECTRICAL PANELS



# STANDARDS FOR ELECTRICAL PANELS

## In IEC standard 61439 a builder of distribution and control boards – or panel builder – is recognized as a key player in the field of LV switchgear and controlgear.

The new IEC 61439 standard supersedes the old IEC 60439 standard and perfectly defines the lines of work and responsibilities of original manufacturers, assembly manufacturers and electrical contractors (see diagram).



Original switchgear manufacturers are legally liable for the switchgear they manufacture and ship throughout design and inspection. IEC standard 60947 and its headings IEC 60947-1, -2, -3, -4 set the rules.

Assembly manufacturers (panel builders) are legally liable for the assemblies they build throughout design and inspection, especially when they modify a subassembly shipped by an original manufacturer or use an untested component. IEC standard 61439 sets the rules. Panel builders (who may be assembly manufacturers) are legally liable for the installation. IEC standard 60364 (NF C 1500 in France) sets the rules on design and construction of electrical installations.

Mersen is recognized in the world of power electronics as an expert in low voltage protection, both for current and voltage. Mersen is also a global expert in protection against current surges, shortcircuit currents and overloads, but also transient voltage surges due to lightning or switching. That expertise translates into an exceptional product portfolio for both the range and depth of the solutions it offers. Design and production of all products are completely controlled within the company. Above and beyond the intrinsic quality of our products, the Mersen brand can rely on world-class technical support available to customer to define and choose the most suitable solution for their need.

To meet the needs of manufacturers and the requirements of all the major international standards, Mersen proposes a wide range of fuse protection solutions covering all the leading technologies on the international market. Those fuses can be installed in panels using a range of devices, most of them mountable on DIN rails. Mersen's fusegear is renowned for its compact footprint, the low power dissipation of its fuses and exceptional thermal performances thanks to the use of appropriate materials.

Mersen's position as a specialist in the safety & reliability of electrical power, especially in protection and control, and our commitment to compact, thermally efficient switchgear makes us a valued partner for assembly manufacturers.



## New MULTIBLOC® series size 000 ST9 and RST9



Mersen is now offering a modernised Mutibloc 000 series 9, improving considerably the performances of the device and enlarging its functionalities.

- Compact - Safe - User Friendly
- Compliant with IEC/EN 60947-3
- 2 mounting systems: Baseplate mounting, 60mm busbar mounting
- Screw mounting solution for high contact performance
- AC Application at 690VAC
- 125A rating up to 500VAC
- Easy and safe operation (up to IP30 touch protection)
- Safe switching at short circuit current 80kA
- Low Power dissipation for improved heat management
- Padlocking / Sealing system
- Fuse monitoring availability
- Microswitch available for opening detection
- Long service life

## The new Multivert i-Xtensio design offers :



**A user-friendly mounting solution for current transformers at the back of the Multivert.**  
**A more standard installation depth of 150mm, in line with market standard dimensions.**  
**A solution fully compatible with existing and future Industrial control systems and with our Smart Monitoring modules**

With this new design, Mersen makes a first step in more and more connected devices to make the Low Voltage grid more intelligent and to bring open data to the end-users

## New MULTIVERT® and MULTIBLOC® 800VAC for PV applications



Mersen new NH Fuses & FSDs are specifically designed to answer the requirements of protection and distribution of electric networks in the combiner boxes on the AC side of the new string inverters with rated operational voltage of 800V AC.

Mersen is fully ready to support and protect the increased voltage solution for the AC side of the PV installation with fully approved Fuse Switch Disconnectors and corresponding NH Fuses.

## Surge-Trap® EV - Overvoltage protection for e-Mobility



These Mersen Surge Protection Devices (SPD) are specifically suited for protection of Electrical Vehicle Charging Stations, often more exposed to surge events. Continuity of Service is essential and Surge-Trap® EV SPDs are therefore tested beyond the IEC 61643-11 product standard requirements to offer durable protection at the most typical surge currents. All devices offer fine protection to sensitive electronic equipment in EV chargers.

Available for 230/400V TT networks:

**Type 1+2+3:** for highly exposed infrastructures, first step of protection

- Lightning impulse current (10/350µs): 12,5kA per phase
- Maximum discharge current (8/20µs): 65kA per phase
- Nominal discharge current (8/20µs): 20kA per phase
- Combined voltage pulse Uoc (1,2/50µs): 20kV

**Type 2+3:** second step of protection or indirect exposure

- Maximum discharge current (8/20µs): 50kA per phase
- Nominal discharge current (8/20µs): 20kA per phase
- Combined voltage pulse Uoc (1,2/50µs): 20kV
- Single and three phase systems

# MERSEN OFFERING FOR LOW VOLTAGE ELECTRICAL PANELS

|                                                                                     | OFFERING                  |                                                                                      |              | FUNCTION  |                        |
|-------------------------------------------------------------------------------------|---------------------------|--------------------------------------------------------------------------------------|--------------|-----------|------------------------|
|                                                                                     | PRODUCTS                  | RANGES                                                                               | STANDARDS    | ISOLATING | OVERCURRENT PROTECTION |
|    | Fuses and holders         | Cylindrical fuses, Modulostar® Protistor®                                            | IEC, UL      | ●         | ●                      |
|    | Fuses and bases           | NH Fuses, D0                                                                         | DIN          | ●         | ●                      |
|   | Fuse Switch Disconnectors | Multivert® for NH fuses, Multibloc® for NH fuses, Multifix® 60mm for D0 and NH fuses | DIN          | ●         | ●                      |
|  | Switch Fuse Disconnectors | Linocur® for D0 fuses Switch Disconnector for NH fuses                               | IEC, DIN, UL | ●         | ●                      |
|  | Fuses and holders         | BS88                                                                                 | BS           | ●         | ●                      |
|  | Surge Protective Devices  | Surge-Trap®                                                                          | IEC, UL      |           |                        |
|  | Switch Disconnectors      | Switch Disconnectors                                                                 | IEC, UL      | ●         |                        |

**ENERGY**  
**EFFICIENT**

**SMALL**  
**IS THE**  
**BEST**

|                          |                        |          | MOUNTING |        |          | COMMUNICATION | PAGES |
|--------------------------|------------------------|----------|----------|--------|----------|---------------|-------|
| SHORT-CIRCUIT PROTECTION | OVERVOLTAGE PROTECTION | BREAKING | DIN RAIL | BUSBAR | SCREWING | MONITORING    |       |
| •                        |                        | •        | •        |        |          | •             | 6-25  |
| •                        |                        |          | •        | •      | •        |               | 26-61 |
| •                        |                        | •        | •        | •      | •        | •             | 30-53 |
| •                        |                        | •        | •        | •      | •        | •             | 14-58 |
| •                        |                        |          |          |        |          |               | 62-71 |
|                          | •                      |          | •        |        | •        | •             | 72-82 |
|                          |                        | •        | •        |        | •        | •             | 83-86 |

For electrical panels regarding drives please consult our website [ep.mersen.com](http://ep.mersen.com) for high-speed fuses:

- IEC cylindrical fuses
- square-body fuses
- NH DIN and BS-88 fuses

Fuse-Holders and Fuse Bases can be found in dedicated section .

# CYLINDRICAL FUSES & FUSEGEAR OFFERING

## Cylindrical fuses

|       |                                                                                   |                   | FUSES          |                 |              |                |                 |              |                |                 |              |
|-------|-----------------------------------------------------------------------------------|-------------------|----------------|-----------------|--------------|----------------|-----------------|--------------|----------------|-----------------|--------------|
|       |                                                                                   |                   | GG             |                 |              | AM             |                 |              | AR             |                 |              |
| SIZE  | VOLTAGE                                                                           | BREAKING CAPACITY | W/O INDICATION | WITH INDICATION | WITH STRIKER | W/O INDICATION | WITH INDICATION | WITH STRIKER | W/O INDICATION | WITH INDICATION | WITH STRIKER |
| 8x31  |                                                                                   |                   |                |                 |              |                |                 |              |                |                 |              |
|       |  | 400VAC 20kA       | 0,5 - 25A      | 2 - 25A         | –            | 1 - 12A        | –               | –            | –              | –               | –            |
| 10x38 | 250VAC                                                                            | 100kA             | –              | –               | 25 - 32A     | –              | –               | 25 - 32A     | –              | –               | –            |
|       | 400VAC                                                                            | 100 - 120kA       | 32A            | 32A             | 2 - 20A      | 25 - 32A       | 25A             | 2 - 20A      | –              | –               | –            |
|       | 500VAC                                                                            | 50kA              | –              | –               | –            | –              | –               | –            | 1-30A          | –               | –            |
|       | 500VAC                                                                            | 120kA             | 0,5 - 25A      | 2 - 25A         | –            | 0,16 - 20A     | 1 - 20A         | –            | –              | –               | –            |
|       | 600VAC                                                                            | 200kA             | –              | –               | –            | –              | –               | –            | –              | –               | 0,1 - 0,63A  |
|       | 690VAC                                                                            | 120kA             | 1-16A          | –               | –            | 1 - 12A        | –               | –            | –              | –               | –            |
|       | 690VAC                                                                            | 160kA             | –              | –               | –            | –              | –               | –            | –              | –               | –            |
|       | 250VDC                                                                            | 100kA             | 0,5 - 32A      | 2 - 32A         | –            | –              | –               | –            | –              | –               | –            |
| 14x51 | 500VAC                                                                            | 120kA             | –              | –               | 1 - 50A      | 45 - 50A       | –               | 20 - 50A     | –              | –               | –            |
|       | 690VAC                                                                            | 120kA             | 1 - 50A        | –               | –            | 0,25 - 40A     | –               | 1 - 16A      | –              | –               | –            |
|       | 690VAC                                                                            | 160kA             | –              | –               | –            | –              | –               | –            | 6 - 63A        | –               | 6 - 63A      |
|       | 250VDC                                                                            | 100kA             | 1 - 50A        | –               | 2 - 50A      | –              | –               | –            | –              | –               | –            |
| 22x58 | 500VAC                                                                            | 120kA             | 100 - 125A     | –               | 100 - 125A   | 100 - 125A     | –               | 100 - 125A   | 100 - 125A     | –               | 100 - 125A   |
|       | 690VAC                                                                            | 120kA             | 2 - 80A        | –               | 2 - 80A      | 1 - 80A        | –               | 1 - 80A      | 2 - 80A        | –               | 2 - 80A      |
|       | 690VAC                                                                            | 160kA             | –              | –               | –            | –              | –               | –            | 25 - 135A      | –               | 25 - 135A    |
|       | 250VDC                                                                            | 100kA             | 2 - 125A       | –               | 2 - 125A     | –              | –               | –            | –              | –               | –            |

# Fusegear

| FUSES             |                    |                 | PAGES | FUSE HOLDERS<br>FUSE DISCONNECTORS                                                                  |                                                                                                     | SWITCH<br>FUSE DISCONNECTORS                                                                               |
|-------------------|--------------------|-----------------|-------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| GR                |                    |                 |       | COMPACT                                                                                             | MODULAR                                                                                             |                                                                                                            |
| W/O<br>INDICATION | WITH<br>INDICATION | WITH<br>STRIKER |       |                                                                                                     |                                                                                                     |                                                                                                            |
| —                 | —                  | —               | 10    | CCR8<br>           | CMC8<br>          | —                                                                                                          |
| —                 | —                  | —               | 11-14 | CCR10 / USFM<br> | CMC10/CUS10<br> | M25F12, M25F30S<br>   |
| —                 | —                  | —               |       |                                                                                                     |                                                                                                     |                                                                                                            |
| —                 | —                  | —               |       |                                                                                                     |                                                                                                     |                                                                                                            |
| —                 | —                  | —               |       |                                                                                                     |                                                                                                     |                                                                                                            |
| —                 | —                  | —               |       |                                                                                                     |                                                                                                     |                                                                                                            |
| 1 - 32A           | —                  | —               |       |                                                                                                     |                                                                                                     |                                                                                                            |
| —                 | —                  | —               |       |                                                                                                     |                                                                                                     |                                                                                                            |
| —                 | —                  | —               | 15-17 | —<br>           | CMS/US14<br>    | M50F03, M50F30S<br>   |
| —                 | —                  | —               |       |                                                                                                     |                                                                                                     |                                                                                                            |
| 1 - 63A           | —                  | 1 - 63A         |       |                                                                                                     |                                                                                                     |                                                                                                            |
| —                 | —                  | —               |       |                                                                                                     |                                                                                                     |                                                                                                            |
| 100 - 125A        | —                  | 100 - 125A      | 18-20 | —<br>           | CMS/US22<br>    | M125F03, M125F30S<br> |
| 1 - 80A           | —                  | 1 - 80A         |       |                                                                                                     |                                                                                                     |                                                                                                            |
| 12 - 135A         | —                  | 12 - 135A       |       |                                                                                                     |                                                                                                     |                                                                                                            |
| —                 | —                  | —               |       |                                                                                                     |                                                                                                     |                                                                                                            |

# CYLINDRICAL FUSES & FUSEGEAR OFFERING

## UL Cylindrical Fuses

|                                                                                                              | FUSES |                  |                   |                |                 |              |                |
|--------------------------------------------------------------------------------------------------------------|-------|------------------|-------------------|----------------|-----------------|--------------|----------------|
|                                                                                                              | TYPE  | VOLTAGE          | BREAKING CAPACITY | TIME DELAY     |                 |              | FAST ACTING    |
|                                                                                                              |       |                  |                   | W/O INDICATION | WITH INDICATION | WITH STRIKER | W/O INDICATION |
| <b>MIDGET FUSES</b><br><br> | ATQ   | 500VAC           | 10kA              | 0,1 - 30A      | —               | —            | —              |
|                                                                                                              | ATM   | 600VAC<br>600VDC | 100kA             | 0,1 - 30A      | —               | —            | —              |
| <b>CLASS CC</b><br><br>   | ATDR  | 600VAC<br>300VDC | 200kA<br>100kA    | 0,25 - 30A     | —               | —            | —              |
|                                                                                                              | ATQR  | 600VAC<br>300VDC | 200kA<br>100kA    | 0,1 - 30A      | —               | —            | 0,1 - 30A      |
|                                                                                                              | ATMR  | 600VAC<br>600VDC | 200kA<br>100kA    | —              | —               | —            | —              |
| <b>CLASS J</b><br><br>    | AJT   | 600VAC<br>500VDC | 200kA<br>100kA    | 1 - 7A         | 8 - 600A        | —            | —              |
|                                                                                                              | A4J   | 600VAC<br>300VDC | 200kA<br>100kA    | —              | —               | —            | 1 - 600A       |

# Fusegear

| PAGES | FUSE HOLDERS<br>FUSE DISCONNECTORS                                                                                                       |                                                                                                              | SWITCH<br>FUSE DISCONNECTORS                                                                                     |
|-------|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
|       | COMPACT                                                                                                                                  | MODULAR                                                                                                      |                                                                                                                  |
| 21    | —                                                                                                                                        | <p>Modulostar® CUS10</p>    | —                                                                                                                |
| 22    | —                                                                                                                                        | <p>Modulostar® CUSCC</p>  | <p>M30CC12</p>              |
| 23-25 | <p>Ultrasafe<br/>US22<br/>US27<br/>US3J<br/>US6J</p>  | —                                                                                                            | <p>M400J30<br/>M200J30</p>  |

# LOW VOLTAGE CYLINDRICAL FUSES

## Size 8x31



**gG**

**400 VAC**

**Breaking capacity: 20 kA**

**W/o indication**

| CAT. NUMBER | REF. NUMBER | VOLTAGE VAC (-) | CURRENT (A) | PKG |
|-------------|-------------|-----------------|-------------|-----|
| FR8GG40V0.5 | P218191     | 400VAC          | 0.5A        | 10  |
| FR8GG40V1   | C218709     | 400VAC          | 1A          | 10  |
| FR8GG40V10  | A214613     | 400VAC          | 10A         | 10  |
| FR8GG40V16  | P216650     | 400VAC          | 16A         | 10  |
| FR8GG40V2   | Q219227     | 400VAC          | 2A          | 10  |
| FR8GG40V20  | F217677     | 400VAC          | 20A         | 10  |
| FR8GG40V25  | D218710     | 400VAC          | 25A         | 10  |
| FR8GG40V6   | A211025     | 400VAC          | 6A          | 10  |
| FR8GG40V8   | B213096     | 400VAC          | 8A          | 10  |

**With indication**

| CAT. NUMBER | REF. NUMBER | VOLTAGE VAC (-) | CURRENT (A) | PKG |
|-------------|-------------|-----------------|-------------|-----|
| FR8GG40V12I | C213097     | 400VAC          | 12A         | 10  |
| FR8GG40V16I | Y214105     | 400VAC          | 16A         | 10  |
| FR8GG40V20I | J215127     | 400VAC          | 20A         | 10  |
| FR8GG40V25I | S216147     | 400VAC          | 25A         | 10  |
| FR8GG40V2I  | B222204     | 400VAC          | 2A          | 10  |
| FR8GG40V4I  | X222959     | 400VAC          | 4A          | 10  |
| FR8GG40V6I  | V201291     | 400VAC          | 6A          | 10  |
| FR8GG40V8I  | B211026     | 400VAC          | 8A          | 10  |



**aM**

**400 VAC**

**Breaking capacity: 20 kA**

**W/o indication**

| CAT. NUMBER | REF. NUMBER | VOLTAGE VAC (-) | CURRENT (A) | PKG |
|-------------|-------------|-----------------|-------------|-----|
| FR8AM40V1   | C217168     | 400VAC          | 1A          | 10  |
| FR8AM40V2   | R218193     | 400VAC          | 2A          | 10  |
| FR8AM40V4   | S219229     | 400VAC          | 4A          | 10  |
| FR8AM40V6   | C222205     | 400VAC          | 6A          | 10  |
| FR8AM40V8   | F200749     | 400VAC          | 8A          | 10  |
| FR8AM40V10  | W201292     | 400VAC          | 10A         | 10  |
| FR8AM40V12  | V1007188    | 400VAC          | 12A         | 10  |

**Neutral link**

| CAT. NUMBER | REF. NUMBER | PKG |
|-------------|-------------|-----|
| FRN832      | X211045     | 10  |

## Fusegear 8x31



**Compact CCR8 fuse holder**

| NO. OF POLES | CAT. NUMBER | REF. NUMBER | NO. OF MOD. | PKG | LICENCE NF |
|--------------|-------------|-------------|-------------|-----|------------|
| 1            | CCR81       | C200769     | 1           | 12  | •          |
| 1+N          | CCR81N      | A218730     | 1           | 12  | •          |
| 2            | CCR82       | V233721     | 2           | 6   |            |
| 3            | CCR83       | W233722     | 3           | 4   |            |



**Modulostar® CMC8**

| CCD CONFIGURATIONS | CAT. NUMBER W/O INDICATION | REF. NUMBER W/O INDICATION | CAT. NUMBER WITH INDICATION | REF. NUMBER WITH INDICATION | PKG |
|--------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|-----|
| N                  | CMC810N                    | W1062688                   | -                           | -                           | 12  |
| 1                  | CMC81                      | V1062687                   | CMC81I                      | X1062689                    | 12  |
| 1 + N              | CMC81N                     | P1062682                   | CMC81NI                     | R1062684                    | 6   |
| 2                  | CMC82                      | Q1062683                   | CMC82I                      | S1062685                    | 6   |
| 3                  | CMC83                      | M1062680                   | CMC83I                      | N1062681                    | 4   |
| 3 + N              | CMC83N                     | H1062676                   | CMC83NI                     | K1062678                    | 3   |
| 4                  | CMC84                      | J1062677                   | CMC84I                      | L1062679                    | 3   |

# LOW VOLTAGE CYLINDRICAL FUSES

## Size 10x38



**gG**

**400/500 VAC**

**Breaking capacity: 120 kA**

**250VDC**

**Breaking capacity: 100 kA**

W/o indication

| CAT. NUMBER  | REF. NUMBER | VOLTAGE VAC (-) | VOLTAGE DC | CURRENT (A) | PKG |
|--------------|-------------|-----------------|------------|-------------|-----|
| FR10GG50V0.5 | C211027     | 500VAC          | 250VDC     | 0.5A        | 10  |
| FR10GG50V1   | B212061     | 500VAC          | 250VDC     | 1A          | 10  |
| FR10GG50V2   | D213098     | 500VAC          | 250VDC     | 2A          | 10  |
| FR10GG50V4   | X213598     | 500VAC          | 250VDC     | 4A          | 10  |
| FR10GG50V6   | K215128     | 500VAC          | 250VDC     | 6A          | 10  |
| FR10GG50V8   | D217169     | 500VAC          | 250VDC     | 8A          | 10  |
| FR10GG50V16  | G200750     | 500VAC          | 250VDC     | 16A         | 10  |
| FR10GG50V12  | W219761     | 500VAC          | 250VDC     | 12A         | 10  |
| FR10GG50V10  | S218194     | 500VAC          | 250VDC     | 10A         | 10  |
| FR10GG50V20  | D211028     | 500VAC          | 250VDC     | 20A         | 10  |
| FR10GG50V25  | E213099     | 500VAC          | 250VDC     | 25A         | 10  |
| FR10GG40V32  | A214107     | 400VAC          | 250VDC     | 32A         | 10  |

With indication

| CAT. NUMBER  | REF. NUMBER | VOLTAGE VAC (-) | VOLTAGE DC | CURRENT (A) | PKG |
|--------------|-------------|-----------------|------------|-------------|-----|
| FR10GG50V2I  | S216653     | 500VAC          | 250VDC     | 2A          | 10  |
| FR10GG50V4I  | E217170     | 500VAC          | 250VDC     | 4A          | 10  |
| FR10GG50V6I  | T218195     | 500VAC          | 250VDC     | 6A          | 10  |
| FR10GG50V8I  | V219231     | 500VAC          | 250VDC     | 8A          | 10  |
| FR10GG50V10I | E222207     | 500VAC          | 250VDC     | 10A         | 10  |
| FR10GG50V12I | H200751     | 500VAC          | 250VDC     | 12A         | 10  |
| FR10GG50V16I | H201809     | 500VAC          | 250VDC     | 16A         | 10  |
| FR10GG50V20I | X211551     | 500VAC          | 250VDC     | 20A         | 10  |
| FR10GG50V25I | W212585     | 500VAC          | 250VDC     | 25A         | 10  |
| FR10GG40V32I | Z213600     | 400VAC          | 250VDC     | 32A         | 10  |



**aM**

**400/500 VAC**

**Breaking capacity: 120 kA**

W/o indication

| CAT. NUMBER   | REF. NUMBER | VOLTAGE VAC (-) | CURRENT (A) | PKG |
|---------------|-------------|-----------------|-------------|-----|
| FR10AM50V0.16 | E214617     | 500VAC          | 0.16A       | 10  |
| FR10AM50V0.25 | M215130     | 500VAC          | 0.25A       | 10  |
| FR10AM50V0.5  | W216150     | 500VAC          | 0.5A        | 10  |
| FR10AM50V1    | F217171     | 500VAC          | 1A          | 10  |
| FR10AM50V2    | H218714     | 500VAC          | 2A          | 10  |
| FR10AM50V4    | W219232     | 500VAC          | 4A          | 10  |
| FR10AM50V6    | F222208     | 500VAC          | 6A          | 10  |
| FR10AM50V8    | Z201295     | 500VAC          | 8A          | 10  |
| FR10AM50V10   | Y211552     | 500VAC          | 10A         | 10  |
| FR10AM50V12   | A213601     | 500VAC          | 12A         | 10  |
| FR10AM50V16   | F214618     | 500VAC          | 16A         | 10  |
| FR10AM50V20   | X216151     | 500VAC          | 20A         | 10  |
| FR10AM40V25   | G217172     | 400VAC          | 25A         | 10  |
| FR10AM40V32   | J218715     | 400VAC          | 32A         | 10  |

With indication

| CAT. NUMBER  | REF. NUMBER | VOLTAGE VAC (-) | CURRENT (A) | PKG |
|--------------|-------------|-----------------|-------------|-----|
| FR10AM50V1I  | X219233     | 500VAC          | 1A          | 10  |
| FR10AM50V2I  | G222209     | 500VAC          | 2A          | 10  |
| FR10AM50V4I  | K200753     | 500VAC          | 4A          | 10  |
| FR10AM50V6I  | K201811     | 500VAC          | 6A          | 10  |
| FR10AM50V8I  | Z211553     | 500VAC          | 8A          | 10  |
| FR10AM50V10I | H213102     | 500VAC          | 10A         | 10  |
| FR10AM50V12I | D214110     | 500VAC          | 12A         | 10  |
| FR10AM50V16I | P215132     | 500VAC          | 16A         | 10  |
| FR10AM50V20I | V216655     | 500VAC          | 20A         | 10  |
| FR10AM40V25I | L217682     | 400VAC          | 25A         | 10  |

# LOW VOLTAGE CYLINDRICAL FUSES

## Size 10x38



**gG**

**250/400 VAC**

**Breaking capacity: 100 kA**

With striker

| CAT. NUMBER  | REF. NUMBER | VOLTAGE VAC (-) | CURRENT (A) | PKG |
|--------------|-------------|-----------------|-------------|-----|
| FR10GG40V2P  | G083703     | 400VAC          | 2A          | 10  |
| FR10GG40V4P  | D084758     | 400VAC          | 4A          | 10  |
| FR10GG40V6P  | Y084799     | 400VAC          | 6A          | 10  |
| FR10GG40V8P  | F083955     | 400VAC          | 8A          | 10  |
| FR10GG40V10P | A084801     | 400VAC          | 10A         | 10  |
| FR10GG40V12P | G083956     | 400VAC          | 12A         | 10  |
| FR10GG40V20P | Z084800     | 400VAC          | 20A         | 10  |
| FR10GG40V16P | X084798     | 400VAC          | 16A         | 10  |
| FR10GG25V25P | H083957     | 250VAC          | 25A         | 10  |
| FR10GG25V32P | E083954     | 250VAC          | 32A         | 10  |

**690 VAC**

**Breaking capacity: 120 kA**

W/o indication

| CAT. NUMBER | REF. NUMBER | VOLTAGE VAC (-) | CURRENT (A) | PKG |
|-------------|-------------|-----------------|-------------|-----|
| FR10GG69V1  | R302787     | 690VAC          | 1A          | 10  |
| FR10GG69V2  | S302788     | 690VAC          | 2A          | 10  |
| FR10GG69V4  | T302789     | 690VAC          | 4A          | 10  |
| FR10GG69V6  | V302790     | 690VAC          | 6A          | 10  |
| FR10GG69V8  | W302791     | 690VAC          | 8A          | 10  |
| FR10GG69V10 | X302792     | 690VAC          | 10A         | 10  |
| FR10GG69V12 | Y302793     | 690VAC          | 12A         | 10  |
| FR10GG69V16 | Z302794     | 690VAC          | 16A         | 10  |



**aM**

**250/400VAC**

**Breaking capacity: 100 kA**

With striker

| CAT. NUMBER  | REF. NUMBER | VOLTAGE VAC (-) | CURRENT (A) | PKG |
|--------------|-------------|-----------------|-------------|-----|
| FR10AM40V2P  | Z084984     | 400VAC          | 2A          | 10  |
| FR10AM40V4P  | Y085259     | 400VAC          | 4A          | 10  |
| FR10AM40V6P  | W085257     | 400VAC          | 6A          | 10  |
| FR10AM40V8P  | A084985     | 400VAC          | 8A          | 10  |
| FR10AM40V10P | B084986     | 400VAC          | 10A         | 10  |
| FR10AM40V12P | X085258     | 400VAC          | 12A         | 10  |
| FR10AM40V16P | C084757     | 400VAC          | 16A         | 10  |
| FR10AM40V20P | V085256     | 400VAC          | 20A         | 10  |
| FR10AM25V25P | A076038     | 250VAC          | 25A         | 10  |
| FR10AM25V32P | B076039     | 250VAC          | 32A         | 10  |

**690 VAC**

**Breaking capacity: 120 kA**

W/o indication

| CAT. NUMBER | REF. NUMBER | VOLTAGE VAC (-) | CURRENT (A) | PKG |
|-------------|-------------|-----------------|-------------|-----|
| FR10AM69V1  | H302779     | 690VAC          | 1A          | 10  |
| FR10AM69V2  | J302780     | 690VAC          | 2A          | 10  |
| FR10AM69V4  | K302781     | 690VAC          | 4A          | 10  |
| FR10AM69V6  | L302782     | 690VAC          | 6A          | 10  |
| FR10AM69V8  | M302783     | 690VAC          | 8A          | 10  |
| FR10AM69V10 | N302784     | 690VAC          | 10A         | 10  |
| FR10AM69V12 | P302785     | 690VAC          | 12A         | 10  |

**Neutral link**

| CAT. NUMBER | REF. NUMBER | PKG |
|-------------|-------------|-----|
| FRN1038     | R211569     | 10  |

# LOW VOLTAGE CYLINDRICAL FUSES

## Protistor® Size 10x38



aR

**500 VAC**  
**Breaking capacity: 50 kA**

With striker

| CAT. NUMBER    | REF. NUMBER | VOLTAGE VAC (-) | CURRENT (A) | PKG |
|----------------|-------------|-----------------|-------------|-----|
| A050URD1T13I   | P076925     | 500VAC          | 1 A         | 10  |
| A050URD1.2T13I | H076597     | 500VAC          | 1.25 A      | 10  |
| A050URD1.6T13I | G076596     | 500VAC          | 1.6 A       | 10  |
| A050URD2T13I   | Q076926     | 500VAC          | 2 A         | 10  |
| A050URD2.5T13I | F076595     | 500VAC          | 2.5 A       | 10  |
| A050URD3T13I   | R076927     | 500VAC          | 3.15 A      | 10  |
| A050URD4T13I   | S076928     | 500VAC          | 4 A         | 10  |
| A050URD5T13I   | T076929     | 500VAC          | 5 A         | 10  |
| A050URB6T13I   | V076930     | 500VAC          | 6 A         | 10  |
| A050URB8T13I   | W076931     | 500VAC          | 8 A         | 10  |
| A050URB10T13I  | X076932     | 500VAC          | 10 A        | 10  |
| A050URB12T13I  | Y076933     | 500VAC          | 12 A        | 10  |
| A050URB16T13I  | Z076934     | 500VAC          | 16 A        | 10  |
| A050URB20T13I  | A076935     | 500VAC          | 20 A        | 10  |
| A050URL25T13I  | B076936     | 500VAC          | 25 A        | 10  |
| A050URL30T13I  | C076937     | 500VAC          | 30 A        | 10  |

**600 VAC**  
**Breaking capacity: 200 kA**

W/o indication

| CAT. NUMBER    | REF. NUMBER | VOLTAGE VAC (-) | CURRENT (A) | PKG |
|----------------|-------------|-----------------|-------------|-----|
| A060UD0.100T13 | H077632     | 600VAC          | 0.1 A       | 10  |
| A060UD0.125T13 | J077633     | 600VAC          | 0.125 A     | 10  |
| A060UD0.160T13 | K077634     | 600VAC          | 0.16 A      | 10  |
| A060UD0.200T13 | L077635     | 600VAC          | 0.2 A       | 10  |
| A060UD0.250T13 | M077636     | 600VAC          | 0.25 A      | 10  |
| A060UD0.315T13 | N077637     | 600VAC          | 0.315 A     | 10  |
| A060UD0.400T13 | P077638     | 600VAC          | 0.4 A       | 10  |
| A060UD0.500T13 | Q077639     | 600VAC          | 0.5 A       | 10  |
| A060UD0.630T13 | R077640     | 600VAC          | 0.63 A      | 10  |



gR

**690 VAC**  
**Breaking capacity: 160 kA**

W/o indication

| CAT. NUMBER   | REF. NUMBER | VOLTAGE VAC (-) | CURRENT (A) | PKG |
|---------------|-------------|-----------------|-------------|-----|
| FR10GR69V1    | L1014563    | 690VAC          | 1 A         | 10  |
| FR10GR69V1.25 | N1014565    | 690VAC          | 1.25 A      | 10  |
| FR10GR69V1.5  | P1014566    | 690VAC          | 1.5 A       | 10  |
| FR10GR69V2    | Q1014567    | 690VAC          | 2 A         | 10  |
| FR10GR69V2.5  | T1014570    | 690VAC          | 2.5 A       | 10  |
| FR10GR69V3    | V1014571    | 690VAC          | 3 A         | 10  |
| FR10GR69V4    | W1014572    | 690VAC          | 4 A         | 10  |
| FR10GR69V5    | X1014573    | 690VAC          | 5 A         | 10  |
| FR10GR69V6    | Y1014574    | 690VAC          | 6 A         | 10  |
| FR10GR69V8    | Z1014575    | 690VAC          | 8 A         | 10  |
| FR10GR69V10   | A1014576    | 690VAC          | 10 A        | 10  |
| FR10GR69V12.5 | C1014578    | 690VAC          | 12.5 A      | 10  |
| FR10GR69V16   | D1014579    | 690VAC          | 16 A        | 10  |
| FR10GR69V20   | E1014580    | 690VAC          | 20 A        | 10  |
| FR10GR69V25   | F1014581    | 690VAC          | 25 A        | 10  |
| FR10GR69V30   | G1014582    | 690VAC          | 30 A        | 10  |
| FR10GR69V32   | H1014583    | 690VAC          | 32 A        | 10  |

# LOW VOLTAGE CYLINDRICAL FUSES

## Fusegear 10x38



**250/400 VAC**  
**Breaking capacity: 100 kA**

| NO. OF POLES | CAT. NUMBER | REF. NUMBER | NO. OF MOD. | PKG | LICENCE NF |
|--------------|-------------|-------------|-------------|-----|------------|
| N            | CCR810N     | Z214635     | 1           | 12  | •          |
| 1            | CCR101      | N218213     | 1           | 12  | •          |
| 1+N          | CCR1N1M     | H215655     | 1           | 12  | •          |
| 2            | CCR102      | X233723     | 2           | 6   |            |
| 3            | CCR103      | Y233724     | 3           | 4   |            |



**USFM10**

| NO. OF POLES | CAT. NUMBER | REF. NUMBER | NO. OF MOD. | PKG |
|--------------|-------------|-------------|-------------|-----|
| 3            | USFM10      | K1027235    | 45 mm       | 1   |
| 3            | USFM10M     | M1027237    | 45 mm       | 1   |
| 3            | USFM10I     | L1027236    | 45 mm       | 1   |
| 3            | USFM10MI    | N1027238    | 45 mm       | 1   |



**Modulostar® CMC10**

| CCD CONFIGURATIONS | CAT. NUMBER W/O INDICATION | REF. NUMBER W/O INDICATION | CAT. NUMBER WITH INDICATION | REF. NUMBER WITH INDICATION | PKG |
|--------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|-----|
| N                  | CMC810N                    | W1062688                   | -                           | -                           | 12  |
| 1                  | CMC101                     | P1062705                   | CMC101I                     | S1062708                    | 12  |
| 1+N                | CMC101N                    | G1062698                   | CMC101NI                    | J1062700                    | 6   |
| 2                  | CMC102                     | H1062699                   | CMC102I                     | L1062702                    | 6   |
| 3                  | CMC103                     | E1062696                   | CMC103I                     | F1062697                    | 4   |
| 3+N                | CMC103N                    | Y1062690                   | CMC103NI                    | A1062692                    | 3   |
| 4                  | CMC104                     | Z1062691                   | CMC104I                     | B1062693                    | 3   |



**Modulostar® CUS10**

| CCD CONFIGURATIONS | CAT. NUMBER W/O INDICATION | REF. NUMBER W/O INDICATION | CAT. NUMBER WITH INDICATION | REF. NUMBER WITH INDICATION | PKG |
|--------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|-----|
| N                  | CUS10N                     | H1062722                   | -                           | -                           | 12  |
| 1                  | CUS101                     | G1062721                   | CUS101I                     | J1062723                    | 12  |
| 1 + N              | CUS101N                    | C1062717                   | CUS101NI                    | E1062719                    | 6   |
| 2                  | CUS102                     | D1062718                   | CUS102I                     | F1062720                    | 6   |
| 3                  | CUS103                     | A1062715                   | CUS103I                     | B1062716                    | 4   |
| 3 + N              | CUS103N                    | W1062711                   | CUS103NI                    | Y1062713                    | 3   |
| 4                  | CUS104                     | X1062712                   | CUS104I                     | Z1062714                    | 3   |



## Switch fuse disconnectors

| DESCRIPTION                    | CAT. NUMBER | REF. NUMBER | WEIGHT | PKG |
|--------------------------------|-------------|-------------|--------|-----|
| Switch.fus 25A FR10 1+2 pos.   | M25F12      | H1043264    | 0.70   | 1   |
| Switch.fus 25A FR10 R side op. | M25F30S     | L1043267    | 1.2    | 1,2 |

# LOW VOLTAGE CYLINDRICAL FUSES

## Size 14x51



**gG**

**500/690 VAC**

**Breaking capacity: 120 kA**

**250VDC**

**Breaking capacity: 100 kA**

W/o indication

| CAT. NUMBER | REF. NUMBER | VOLTAGE VAC (-) | VOLTAGE DC | CURRENT (A) | PKG |
|-------------|-------------|-----------------|------------|-------------|-----|
| FR14GG69V1  | K218716     | 690VAC          | 250VDC     | 1A          | 10  |
| FR14GG69V2  | Y219234     | 690VAC          | 250VDC     | 2A          | 10  |
| FR14GG69V4  | A219765     | 690VAC          | 250VDC     | 4A          | 10  |
| FR14GG69V6  | H222210     | 690VAC          | 250VDC     | 6A          | 10  |
| FR14GG69V8  | D222965     | 690VAC          | 250VDC     | 8A          | 10  |
| FR14GG69V10 | L200754     | 690VAC          | 250VDC     | 10A         | 10  |
| FR14GG69V12 | L201812     | 690VAC          | 250VDC     | 12A         | 10  |
| FR14GG69V16 | A211554     | 690VAC          | 250VDC     | 16A         | 10  |
| FR14GG69V20 | Z212588     | 690VAC          | 250VDC     | 20A         | 10  |
| FR14GG69V25 | C213603     | 690VAC          | 250VDC     | 25A         | 10  |
| FR14GG50V32 | W216656     | 500VAC          | 250VDC     | 32A         | 10  |
| FR14GG50V40 | X218198     | 500VAC          | 250VDC     | 40A         | 10  |
| FR14GG50V50 | Z219235     | 500VAC          | 250VDC     | 50A         | 10  |

**500 VAC**

**Breaking capacity: 120 kA**

With striker

| CAT. NUMBER  | REF. NUMBER | VOLTAGE VAC (-) | VOLTAGE DC | CURRENT (A) | PKG |
|--------------|-------------|-----------------|------------|-------------|-----|
| FR14GG50V2P  | J211033     | 500VAC          | 250VDC     | 2A          | 10  |
| FR14GG50V4P  | H212067     | 500VAC          | 250VDC     | 4A          | 10  |
| FR14GG50V6P  | G214113     | 500VAC          | 250VDC     | 6A          | 10  |
| FR14GG50V8P  | R215134     | 500VAC          | 250VDC     | 8A          | 10  |
| FR14GG50V10P | Z216153     | 500VAC          | 250VDC     | 10A         | 10  |
| FR14GG50V12P | L217176     | 500VAC          | 250VDC     | 12A         | 10  |
| FR14GG50V16P | Z218200     | 500VAC          | 250VDC     | 16A         | 10  |
| FR14GG50V20P | B219237     | 500VAC          | 250VDC     | 20A         | 10  |
| FR14GG50V25P | L222213     | 500VAC          | 250VDC     | 25A         | 10  |
| FR14GG50V32P | P200757     | 500VAC          | 250VDC     | 32A         | 10  |
| FR14GG50V40P | P201815     | 500VAC          | 250VDC     | 40A         | 10  |
| FR14GG50V50P | D211557     | 500VAC          | 250VDC     | 50A         | 10  |



**aM**

**500/690 VAC**

**Breaking capacity: 120 kA**

W/o indication

| CAT. NUMBER   | REF. NUMBER | VOLTAGE VAC (-) | CURRENT (A) | PKG |
|---------------|-------------|-----------------|-------------|-----|
| FR14AM69V0.25 | B212590     | 690VAC          | 0.25A       | 10  |
| FR14AM69V0.5  | L213105     | 690VAC          | 0.5A        | 10  |
| FR14AM69V1    | E213605     | 690VAC          | 1A          | 10  |
| FR14AM69V2    | H214114     | 690VAC          | 2A          | 10  |
| FR14AM69V4    | K214622     | 690VAC          | 4A          | 10  |
| FR14AM69V6    | S215135     | 690VAC          | 6A          | 10  |
| FR14AM69V8    | T215642     | 690VAC          | 8A          | 10  |
| FR14AM69V10   | Z216659     | 690VAC          | 10A         | 10  |
| FR14AM69V12   | M217177     | 690VAC          | 12A         | 10  |
| FR14AM69V16   | Q217686     | 690VAC          | 16A         | 10  |
| FR14AM69V20   | P218720     | 690VAC          | 20A         | 10  |
| FR14AM69V25   | E219769     | 690VAC          | 25A         | 10  |
| FR14AM50V32   | M222214     | 500VAC          | 32A         | 10  |
| FR14AM50V40   | Q200758     | 500VAC          | 40A         | 10  |
| FR14AM50V45   | L211035     | 500VAC          | 45A         | 10  |
| FR14AM50V50   | E211558     | 500VAC          | 50A         | 10  |

**500 VAC**

**Breaking capacity: 120 kA**

With striker

| CAT. NUMBER  | REF. NUMBER | VOLTAGE VAC (-) | CURRENT (A) | PKG |
|--------------|-------------|-----------------|-------------|-----|
| FR14AM50V1P  | W215644     | 500VAC          | 1A          | 10  |
| FR14AM50V2P  | B216661     | 500VAC          | 2A          | 10  |
| FR14AM50V4P  | C218203     | 500VAC          | 4A          | 10  |
| FR14AM50V6P  | E219240     | 500VAC          | 6A          | 10  |
| FR14AM50V8P  | N222215     | 500VAC          | 8A          | 10  |
| FR14AM50V10P | S200760     | 500VAC          | 10A         | 10  |
| FR14AM50V12P | R201817     | 500VAC          | 12A         | 10  |
| FR14AM50V16P | G211560     | 500VAC          | 16A         | 10  |
| FR14AM50V20P | E212593     | 500VAC          | 20A         | 10  |
| FR14AM50V25P | H213608     | 500VAC          | 25A         | 10  |
| FR14AM50V32P | N214625     | 500VAC          | 32A         | 10  |
| FR14AM50V40P | X215645     | 500VAC          | 40A         | 10  |
| FR14AM50V45P | C216662     | 500VAC          | 45A         | 10  |
| FR14AM50V50P | D218204     | 500VAC          | 50A         | 10  |

**Neutral link**

| CAT. NUMBER | REF. NUMBER | PKG |
|-------------|-------------|-----|
| FRN1451     | M212600     | 10  |

# LOW VOLTAGE CYLINDRICAL FUSES

## Protistor® Size 14x51



aR

**690 VAC**

**Breaking capacity: 160 kA**

With striker

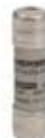
| CAT. NUMBER  | REF. NUMBER | VOLTAGE VAC (-) | CURRENT (A) | PKG |
|--------------|-------------|-----------------|-------------|-----|
| FR14AR69V6T  | P1056656    | 690VAC          | 6 A         | 10  |
| FR14AR69V8T  | Q1056657    | 690VAC          | 8 A         | 10  |
| FR14AR69V10T | R1056658    | 690VAC          | 10 A        | 10  |
| FR14AR69V12T | S1056659    | 690VAC          | 12 A        | 10  |
| FR14AR69V16T | T1056660    | 690VAC          | 16 A        | 10  |
| FR14AR69V20T | V1056661    | 690VAC          | 20 A        | 10  |
| FR14AR69V25T | W1056662    | 690VAC          | 25 A        | 10  |
| FR14AR69V32T | X1056663    | 690VAC          | 32 A        | 10  |
| FR14AR69V40T | Y1056664    | 690VAC          | 40 A        | 10  |
| FR14AR69V50T | Z1056665    | 690VAC          | 50 A        | 10  |
| FR14AR69V63T | A1056666    | 690VAC          | 63 A        |     |

**690 VAC**

**Breaking capacity: 160 kA**

W/o indication

| CAT. NUMBER | REF. NUMBER | VOLTAGE VAC (-) | CURRENT (A) | PKG |
|-------------|-------------|-----------------|-------------|-----|
| FR14AR69V6  | H1027325    | 690VAC          | 6 A         | 10  |
| FR14AR69V8  | J1027326    | 690VAC          | 8 A         | 10  |
| FR14AR69V10 | K1027327    | 690VAC          | 10 A        | 10  |
| FR14AR69V12 | L1027328    | 690VAC          | 12 A        | 10  |
| FR14AR69V16 | M1027329    | 690VAC          | 16 A        | 10  |
| FR14AR69V20 | N1027330    | 690VAC          | 20 A        | 10  |
| FR14AR69V25 | P1027331    | 690VAC          | 25 A        | 10  |
| FR14AR69V32 | Q1027332    | 690VAC          | 32 A        | 10  |
| FR14AR69V40 | R1027333    | 690VAC          | 40 A        | 10  |
| FR14AR69V50 | S1027334    | 690VAC          | 50 A        | 10  |
| FR14AR69V63 | T1027335    | 690VAC          | 63 A        | 10  |



gR

**690 VAC**

**Breaking capacity: 160 kA**

With striker

| CAT. NUMBER  | REF. NUMBER | VOLTAGE VAC (-) | CURRENT (A) | PKG |
|--------------|-------------|-----------------|-------------|-----|
| FR14GR69V2T  | D1017178    | 690VAC          | 2 A         | 10  |
| FR14GR69V4T  | E1017179    | 690VAC          | 4 A         | 10  |
| FR14GR69V6T  | F1017180    | 690VAC          | 6 A         | 10  |
| FR14GR69V8T  | G1017181    | 690VAC          | 8 A         | 10  |
| FR14GR69V10T | H1017182    | 690VAC          | 10 A        | 10  |
| FR14GR69V12T | J1017183    | 690VAC          | 12 A        | 10  |
| FR14GR69V16T | K1017184    | 690VAC          | 16 A        | 10  |
| FR14GR69V20T | L1017185    | 690VAC          | 20 A        | 10  |
| FR14GR69V25T | M1017186    | 690VAC          | 25 A        | 10  |
| FR14GR69V32T | Q1017189    | 690VAC          | 32 A        | 10  |
| FR14GR69V40T | S1017191    | 690VAC          | 40 A        | 10  |
| FR14GR69V50T | T1017192    | 690VAC          | 50 A        | 10  |
| FR14GR69V63T | V1017193    | 690VAC          | 63 A        | 10  |

**690 VAC**

**Breaking capacity: 160 kA**

W/o indication

| CAT. NUMBER | REF. NUMBER | VOLTAGE VAC (-) | CURRENT (A) | PKG |
|-------------|-------------|-----------------|-------------|-----|
| FR14GR69V1  | X1017195    | 690VAC          | 1 A         | 10  |
| FR14GR69V2  | Y1017196    | 690VAC          | 2 A         | 10  |
| FR14GR69V4  | Z1017197    | 690VAC          | 4 A         | 10  |
| FR14GR69V6  | A1017198    | 690VAC          | 6 A         | 10  |
| FR14GR69V8  | B1017199    | 690VAC          | 8 A         | 10  |
| FR14GR69V10 | C1017200    | 690VAC          | 10 A        | 10  |
| FR14GR69V12 | D1017201    | 690VAC          | 12 A        | 10  |
| FR14GR69V16 | E1017202    | 690VAC          | 16 A        | 10  |
| FR14GR69V20 | F1017203    | 690VAC          | 20 A        | 10  |
| FR14GR69V25 | G1017204    | 690VAC          | 25 A        | 10  |
| FR14GR69V32 | H1017205    | 690VAC          | 32 A        | 10  |
| FR14GR69V40 | J1017206    | 690VAC          | 40 A        | 10  |
| FR14GR69V50 | K1017207    | 690VAC          | 50 A        | 10  |
| FR14GR69V63 | L1017208    | 690VAC          | 63 A        | 10  |

# LOW VOLTAGE CYLINDRICAL FUSES

## Fusegear 14x51



### Modulostar® CMS14

| CCD CONFIGURATIONS                                          | CAT. NUMBER W/O INDICATION | REF. NUMBER W/O INDICATION | CAT. NUMBER WITH INDICATION | REF. NUMBER WITH INDICATION | PKG |
|-------------------------------------------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|-----|
| 1                                                           | CMS141                     | A331016                    | CMS141I                     | L331049                     | 6   |
| 1+N                                                         | CMS141N                    | T331010                    | CMS141NI                    | M331050                     | 3   |
| 2                                                           | CMS142                     | R331031                    | CMS142I                     | M331004                     | 3   |
| 3                                                           | CMS143                     | S331032                    | CMS143I                     | K331071                     | 2   |
| 3+N                                                         | CMS143N                    | D331042                    | CMS143NI                    | Q331007                     | 1   |
| 4                                                           | CMS144                     | F331021                    | -                           | -                           | 1   |
| N                                                           | CMS14N                     | T331056                    | -                           | -                           | 6   |
| With microswitches for fuses with striker (+ pre-isolation) |                            |                            |                             |                             |     |
| 1                                                           | CMS141M                    | Z331038                    | CMS141MI                    | S331055                     | 6   |
| 1+N                                                         | CMS141NM                   | L331026                    | CMS14NMI                    | Q331030                     | 6   |
| 2 [2 switches]                                              | CMS142M                    | A331062                    | CMS142MI                    | X331036                     | 3   |
| 3                                                           | CMS143M                    | F331067                    | CMS143MI                    | P331006                     | 2   |
| 3 [2 switches]                                              | CMS143M2                   | H331069                    | CMS143M2I                   | Y331037                     | 2   |
| 3+N                                                         | CMS143NM                   | E331043                    | CMS143NMI                   | H331000                     | 1   |



### UltraSafe™ US14

| CCD CONFIGURATIONS | CAT. NUMBER W/O INDICATION | REF. NUMBER W/O INDICATION | CAT. NUMBER WITH INDICATION | REF. NUMBER WITH INDICATION | PKG |
|--------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|-----|
| 1                  | US141                      | Z331153                    | US141I                      | A331154                     | 6   |
| 1+N                | US141N                     | D331157                    | -                           | -                           | 3   |
| 2                  | US142                      | G331137                    | US142I                      | H331138                     | 3   |
| 3                  | US143                      | N331143                    | US143I                      | P331144                     | 2   |
| 3+N                | US143N                     | X331151                    | -                           | -                           | 1   |
| With microswitch   |                            |                            |                             |                             |     |
| 1                  | US141MI                    | C331156                    | -                           | -                           | 6   |
| 2                  | US142MI                    | K331140                    | US142M                      | J331139                     | 6   |
| 2                  | US142M2I                   | M331142                    | -                           | -                           | 3   |
| 3                  | US143MI                    | S331147                    | -                           | -                           | 2   |
| 3                  | US143M2I                   | W331150                    | -                           | -                           | 2   |



### Switch fuse disconnectors

| DESCRIPTION                    | CAT. NUMBER | REF. NUMBER | WEIGHT (G) | PKG |
|--------------------------------|-------------|-------------|------------|-----|
| Switch.fus 50A FR14 0+3 pos.   | M50F03      | K1043266    | 1.3        | 1   |
| Switch.fus 50A FR14 R side op. | M50F30S     | L1043267    | 1.2        | 1   |

# LOW VOLTAGE CYLINDRICAL FUSES

## Size 22x58



**gG**

**690 VAC**

**Breaking capacity: 120 kA  
250VDC**

**Breaking capacity: 100 kA  
W/o indication**

| CAT. NUMBER  | REF. NUMBER | VOLTAGE VAC (-) | VOLTAGE DC | CURRENT (A) | PKG |
|--------------|-------------|-----------------|------------|-------------|-----|
| FR22GG69V2   | F219241     | 690VAC          | 250VDC     | 2A          | 10  |
| FR22GG69V4   | H219772     | 690VAC          | 250VDC     | 4A          | 10  |
| FR22GG69V6   | P222216     | 690VAC          | 250VDC     | 6A          | 10  |
| FR22GG69V8   | L222972     | 690VAC          | 250VDC     | 8A          | 10  |
| FR22GG69V10  | T200761     | 690VAC          | 250VDC     | 10A         | 10  |
| FR22GG69V12  | J201304     | 690VAC          | 250VDC     | 12A         | 10  |
| FR22GG69V16  | S201818     | 690VAC          | 250VDC     | 16A         | 10  |
| FR22GG69V20  | P211038     | 690VAC          | 250VDC     | 20A         | 10  |
| FR22GG69V25  | N212072     | 690VAC          | 250VDC     | 25A         | 10  |
| FR22GG69V32  | F212594     | 690VAC          | 250VDC     | 32A         | 10  |
| FR22GG69V40  | J213609     | 690VAC          | 250VDC     | 40A         | 10  |
| FR22GG69V50  | P214626     | 690VAC          | 250VDC     | 50A         | 10  |
| FR22GG69V63  | Y215646     | 690VAC          | 250VDC     | 63A         | 10  |
| FR22GG69V80  | Q217180     | 690VAC          | 250VDC     | 80A         | 10  |
| FR22GG50V100 | E218205     | 500VAC          | 250VDC     | 100A        | 10  |
| FR22GG50V125 | J219773     | 500VAC          | 250VDC     | 125A        | 10  |

**690 VAC**

**Breaking capacity: 120 kA**

**With striker**

| CAT. NUMBER   | REF. NUMBER | VOLTAGE VAC (-) | VOLTAGE DC | CURRENT (A) | PKG |
|---------------|-------------|-----------------|------------|-------------|-----|
| FR22GG69V2P   | N093760     | 690VAC          | 250VDC     | 2A          | 10  |
| FR22GG69V4P   | R214628     | 690VAC          | 250VDC     | 4A          | 10  |
| FR22GG69V6P   | A215648     | 690VAC          | 250VDC     | 6A          | 10  |
| FR22GG69V8P   | F216665     | 690VAC          | 250VDC     | 8A          | 10  |
| FR22GG69V10P  | W217691     | 690VAC          | 250VDC     | 10A         | 10  |
| FR22GG69V12P  | W218726     | 690VAC          | 250VDC     | 12A         | 10  |
| FR22GG69V16P  | L219775     | 690VAC          | 250VDC     | 16A         | 10  |
| FR22GG69V20P  | P222975     | 690VAC          | 250VDC     | 20A         | 10  |
| FR22GG69V25P  | M201307     | 690VAC          | 250VDC     | 25A         | 10  |
| FR22GG69V32P  | S211041     | 690VAC          | 250VDC     | 32A         | 10  |
| FR22GG69V40P  | R212075     | 690VAC          | 250VDC     | 40A         | 10  |
| FR22GG69V50P  | M213612     | 690VAC          | 250VDC     | 50A         | 10  |
| FR22GG50V63P  | S214629     | 500VAC          | 250VDC     | 63A         | 10  |
| FR22GG50V80P  | F216159     | 500VAC          | 250VDC     | 80A         | 10  |
| FR22GG50V100P | T217183     | 500VAC          | 250VDC     | 100A        | 10  |
| FR22GG50V125P | H218208     | 500VAC          | 250VDC     | 125A        | 10  |



**aM**

**690 VAC**

**Breaking capacity: 120 kA  
W/o indication**

| CAT. NUMBER  | REF. NUMBER | VOLTAGE VAC (-) | CURRENT (A) | PKG |
|--------------|-------------|-----------------|-------------|-----|
| FR22AM69V1   | M219776     | 690VAC          | 1A          | 10  |
| FR22AM69V2   | T222220     | 690VAC          | 2A          | 10  |
| FR22AM69V4   | Q222976     | 690VAC          | 4A          | 10  |
| FR22AM69V6   | Y200765     | 690VAC          | 6A          | 10  |
| FR22AM69V8   | N201308     | 690VAC          | 8A          | 10  |
| FR22AM69V10  | X201822     | 690VAC          | 10A         | 10  |
| FR22AM69V12  | T211042     | 690VAC          | 12A         | 10  |
| FR22AM69V16  | M211565     | 690VAC          | 16A         | 10  |
| FR22AM69V20  | S212076     | 690VAC          | 20A         | 10  |
| FR22AM69V25  | J212597     | 690VAC          | 25A         | 10  |
| FR22AM69V32  | V213113     | 690VAC          | 32A         | 10  |
| FR22AM69V40  | N213613     | 690VAC          | 40A         | 10  |
| FR22AM69V50  | R214122     | 690VAC          | 50A         | 10  |
| FR22AM69V63  | C215650     | 690VAC          | 63A         | 10  |
| FR22AM69V80  | H216667     | 690VAC          | 80A         | 10  |
| FR22AM50V100 | Y217693     | 500VAC          | 100A        | 10  |
| FR22AM50V125 | J218209     | 500VAC          | 125A        | 10  |

**690 VAC**

**Breaking capacity: 120 kA**

**With striker**

| CAT. NUMBER   | REF. NUMBER | VOLTAGE VAC (-) | CURRENT (A) | PKG |
|---------------|-------------|-----------------|-------------|-----|
| FR22AM69V1P   | E215652     | 690VAC          | 1A          | 10  |
| FR22AM69V2P   | J216162     | 690VAC          | 2A          | 10  |
| FR22AM69V4P   | A217695     | 690VAC          | 4A          | 10  |
| FR22AM69V6P   | Y218728     | 690VAC          | 6A          | 10  |
| FR22AM69V8P   | Q219779     | 690VAC          | 8A          | 10  |
| FR22AM69V10P  | S222978     | 690VAC          | 10A         | 10  |
| FR22AM69V12P  | R201311     | 690VAC          | 12A         | 10  |
| FR22AM69V16P  | W211044     | 690VAC          | 16A         | 10  |
| FR22AM69V20P  | W212079     | 690VAC          | 20A         | 10  |
| FR22AM69V25P  | Q213615     | 690VAC          | 25A         | 10  |
| FR22AM69V32P  | X214633     | 690VAC          | 32A         | 10  |
| FR22AM69V40P  | F215653     | 690VAC          | 40A         | 10  |
| FR22AM69V50P  | K216669     | 690VAC          | 50A         | 10  |
| FR22AM50V63P  | B217696     | 500VAC          | 63A         | 10  |
| FR22AM50V80P  | Z218729     | 500VAC          | 80A         | 10  |
| FR22AM50V100P | T222979     | 500VAC          | 100A        | 10  |
| FR22AM50V125P | S201312     | 500VAC          | 125A        | 10  |

**Neutral link**

| CAT. NUMBER | REF. NUMBER | PKG |
|-------------|-------------|-----|
| FRN2258     | R213616     | 10  |

# LOW VOLTAGE CYLINDRICAL FUSES

## Protistor® Size 22x58



aR

**690 VAC**

**Breaking capacity: 160 kA**

W/o indication

| CAT. NUMBER  | REF. NUMBER | VOLTAGE VAC (-) | CURRENT (A) | PKG |
|--------------|-------------|-----------------|-------------|-----|
| FR22AR69V25  | Y1027316    | 690VAC          | 25 A        | 10  |
| FR22AR69V32  | Z1027317    | 690VAC          | 32 A        | 10  |
| FR22AR69V40  | A1027318    | 690VAC          | 40 A        | 10  |
| FR22AR69V50  | B1027319    | 690VAC          | 50 A        | 10  |
| FR22AR69V63  | C1027320    | 690VAC          | 63 A        | 10  |
| FR22AR69V80  | D1027321    | 690VAC          | 80 A        | 10  |
| FR22AR69V100 | E1027322    | 690VAC          | 100 A       | 10  |
| FR22AR69V125 | F1027323    | 690VAC          | 125 A       | 10  |
| FR22AR69V135 | G1027324    | 690VAC          | 135 A       | 10  |

**690 VAC**

**Breaking capacity: 120 kA**

With striker

| CAT. NUMBER   | REF. NUMBER | VOLTAGE VAC (-) | CURRENT (A) | PKG |
|---------------|-------------|-----------------|-------------|-----|
| FR22AR69V25T  | B1056667    | 690VAC          | 25 A        | 10  |
| FR22AR69V32T  | C1056668    | 690VAC          | 32 A        | 10  |
| FR22AR69V40T  | D1056669    | 690VAC          | 40 A        | 10  |
| FR22AR69V50T  | E1056670    | 690VAC          | 50 A        | 10  |
| FR22AR69V63T  | F1056671    | 690VAC          | 63 A        | 10  |
| FR22AR69V80T  | G1056672    | 690VAC          | 80 A        | 10  |
| FR22AR69V100T | H1056673    | 690VAC          | 100 A       | 10  |
| FR22AR69V125T | J1056674    | 690VAC          | 125 A       | 10  |
| FR22AR69V135T | K1056675    | 690VAC          | 135 A       | 10  |



gR

**690 VAC**

**Breaking capacity: 160 kA**

W/o indication

| CAT. NUMBER  | REF. NUMBER | VOLTAGE VAC (-) | CURRENT (A) | PKG |
|--------------|-------------|-----------------|-------------|-----|
| FR22GR69V12  | W1018551    | 690VAC          | 12 A        | 10  |
| FR22GR69V16  | X1018552    | 690VAC          | 16 A        | 10  |
| FR22GR69V20  | Y1018553    | 690VAC          | 20 A        | 10  |
| FR22GR69V25  | Z1018554    | 690VAC          | 25 A        | 10  |
| FR22GR69V32  | A1018555    | 690VAC          | 32 A        | 10  |
| FR22GR69V40  | B1018556    | 690VAC          | 40 A        | 10  |
| FR22GR69V50  | C1018557    | 690VAC          | 50 A        | 10  |
| FR22GR69V63  | D1018558    | 690VAC          | 63 A        | 10  |
| FR22GR69V80  | E1018559    | 690VAC          | 80 A        | 10  |
| FR22GR69V100 | F1018560    | 690VAC          | 100 A       | 10  |
| FR22GR69V125 | G1018561    | 690VAC          | 125 A       | 10  |
| FR22GR69V135 | H1018562    | 690VAC          | 135 A       | 10  |

**690 VAC**

**Breaking capacity: 160 kA**

With striker

| CAT. NUMBER   | REF. NUMBER | VOLTAGE VAC (-) | CURRENT (A) | PKG |
|---------------|-------------|-----------------|-------------|-----|
| FR22GR69V12T  | W1018620    | 690VAC          | 12 A        | 10  |
| FR22GR69V16T  | X1018621    | 690VAC          | 16 A        | 10  |
| FR22GR69V20T  | Y1018622    | 690VAC          | 20 A        | 10  |
| FR22GR69V25T  | Z1018623    | 690VAC          | 25 A        | 10  |
| FR22GR69V32T  | A1018624    | 690VAC          | 32 A        | 10  |
| FR22GR69V40T  | B1018625    | 690VAC          | 40 A        | 10  |
| FR22GR69V50T  | C1018626    | 690VAC          | 50 A        | 10  |
| FR22GR69V63T  | D1018627    | 690VAC          | 63 A        | 10  |
| FR22GR69V80T  | E1018628    | 690VAC          | 80 A        | 10  |
| FR22GR69V100T | F1018629    | 690VAC          | 100 A       | 10  |
| FR22GR69V125T | G1018630    | 690VAC          | 125 A       | 10  |
| FR22GR69V135T | H1018631    | 690VAC          | 135 A       | 10  |

# LOW VOLTAGE CYLINDRICAL FUSES

## Fusegear 22x58



### Modulostar® CMS

| NUMBER OF POLES/<br>PHASES                                  | CAT. NUMBER<br>W/O INDICATION | REF. NUMBER<br>W/O INDICATION | CAT. NUMBER<br>WITH INDICATION | REF. NUMBER<br>WITH INDICATION | PKG |
|-------------------------------------------------------------|-------------------------------|-------------------------------|--------------------------------|--------------------------------|-----|
| 1                                                           | CMS221                        | T331079                       | CMS221I                        | B331086                        | 6   |
| 1+N                                                         | CMS221N                       | H331092                       | CMS221NI                       | W1001462                       | 3   |
| 2                                                           | CMS222                        | Q331122                       | CMS222I                        | D331134                        | 3   |
| 3                                                           | CMS223                        | E331135                       | CMS223I                        | D331134                        | 2   |
| 3+N                                                         | CMS223N                       | A331108                       | CMS223NI                       | N1001455                       | 1   |
| 4                                                           | CMS224                        | Q331099                       |                                |                                | 1   |
| N                                                           | CMS22N                        | K331094                       |                                |                                | 6   |
| With microswitches for fuses with striker (+ pre-isolation) |                               |                               |                                |                                |     |
| 1                                                           | CMS221M                       | S331078                       | CMS221MI                       | N331074                        | 6   |
| 1+N                                                         | CMS221NM                      | W1016642                      | CMS221NMI                      | N1016589                       | 3   |
| 2 [2 switches]                                              | CMS222M                       | V331080                       | CMS222MI                       | P331098                        | 3   |
| 3                                                           | CMS223M                       | B331109                       | CMS223MI                       | E331112                        | 2   |
| 3 [2 switches]                                              | CMS223M2                      | C331087                       | CMS223M2I                      | E331112                        | 2   |
| 3+N                                                         | CMS223NM                      | T331102                       | CMS223NMI                      | W331104                        | 1   |



### UltraSafe™ US22

| CCD<br>CONFIGURATIONS                                       | CAT. NUMBER<br>W/O INDICATION | REF. NUMBER<br>W/O INDICATION | CAT. NUMBER<br>WITH INDICATION | REF. NUMBER<br>WITH INDICATION | PKG |
|-------------------------------------------------------------|-------------------------------|-------------------------------|--------------------------------|--------------------------------|-----|
| 3                                                           | US223                         | R331169                       | US223I                         | S331170                        | 2   |
| 3 + N                                                       | US223N                        | X331174                       | -                              | -                              | 1   |
| 1                                                           | US221                         | E331158                       | US221I                         | F331159                        | 6   |
| 2                                                           | US222                         | K331163                       | US222I                         | L331164                        | 3   |
| 1 + N                                                       | US221N                        | H331161                       | -                              | -                              | 3   |
| With microswitches for fuses with striker (+ pre-isolation) |                               |                               |                                |                                |     |
| 1                                                           | US221M                        | G331160                       | US221MI                        | Z1006203                       | 6   |
| 1 + N                                                       | US221NM                       | J331162                       | -                              | -                              | 3   |
| 2                                                           | US222M                        | M331165                       | US222MI                        | N331166                        | 3   |
| 2                                                           | US222M2                       | P331167                       | US222M2I                       | Q331168                        | 3   |
| 3                                                           | US223M                        | T331171                       | US223M2I                       | X1011974                       | 2   |
| 3                                                           | US223M2                       | W331173                       | US223MI                        | V331172                        | 2   |



### Switch fuse disconnectors

| DESCRIPTION                     | CAT.<br>NUMBER | REF.<br>NUMBER | WEIGHT<br>(G) | PKG |
|---------------------------------|----------------|----------------|---------------|-----|
| Switch.fus 125A FR22 0+3 pos.   | M125F03        | P1043270       | 1.5           | 1   |
| Switch.fus 125A FR22 R side op. | M125F30S       | Q1043271       | 1.6           | 1   |

# LOW VOLTAGE CYLINDRICAL FUSES

## Midget fuses



### ATQ Time-Delay Midget Fuses

**Volts:** 500VAC  
**Amps:** 1/10 to 30A  
**I.R.:** 10kA I.R.

| CAT. NUM  |           |           |       |
|-----------|-----------|-----------|-------|
| ATQ1/10   | ATQ1-1/8  | ATQ3-2/10 | ATQ12 |
| ATQ1/8    | ATQ1-1/4  | ATQ3-1/2  | ATQ14 |
| ATQ15/100 | ATQ1-4/10 | ATQ4      | ATQ15 |
| ATQ3/16   | ATQ1-1/2  | ATQ4-1/2  | ATQ20 |
| ATQ2/10   | ATQ1-6/10 | ATQ5      | ATQ25 |
| ATQ1/4    | ATQ1-8/10 | ATQ5-6/10 | ATQ30 |
| ATQ3/10   | ATQ2      | ATQ6      | -     |
| ATQ4/10   | ATQ2-1/8  | ATQ6-1/4  | -     |
| ATQ1/2    | ATQ2-1/4  | ATQ7      | -     |
| ATQ6/10   | ATQ2-1/2  | ATQ8      | -     |
| ATQ8/10   | ATQ2-8/10 | ATQ9      | -     |
| ATQ1      | ATQ3      | ATQ10     | -     |



### ATM Fast-Acting Midget Fuses

**Volts:** 600VAC / DC  
**Amps:** 1/10 to 30A (35 to 50A AC only)  
**I.R.:** 100kA I.R.; 10kA I.R. AC (35 to 50A)

| CAT. NUM |       |           |
|----------|-------|-----------|
| ATM1/10  | ATM2  | ATM12     |
| ATM1/8   | ATM3  | ATM15     |
| ATM2/10  | ATM4  | ATM20     |
| ATM1/4   | ATM5  | ATM25     |
| ATM1/2   | ATM6  | ATM30     |
| ATM3/4   | ATM7  | ATM30/35* |
| ATM1     | ATM8  | ATM30/40* |
| ATM1-1/2 | ATM10 | ATM30/50* |

\* Are not continuous current rated devices



### Modulostar™ compact fuse holders for 10.3x38.1 fuse-links

| CAT. NUM<br>W/O INDICATION | CAT. NUM<br>WITH INDICATION | NUMBER OF POLES/<br>PHASES | PKG |
|----------------------------|-----------------------------|----------------------------|-----|
| CUS101                     | CUS101I                     | 1                          | 12  |
| CUS101N                    | CUS101NI                    | 1+N                        | 6   |
| CUS102                     | CUS102I                     | 2                          | 6   |
| CUS103                     | CUS103I                     | 3                          | 4   |
| CUS103N                    | CUS103NI                    | 3+N                        | 3   |
| CUS104                     | CUS104I                     | 4                          | 3   |
| CUS10N                     | -                           | N                          | 12  |

# LOW VOLTAGE CYLINDRICAL FUSES

## Class CC



### ATDR Time Delay/Class CC

**Volts:** 600VAC, 300VDC  
**Amps:** 1/4 to 30A  
**IR:** 200kA I.R. AC, 100kA I.R. DC

| CAT. NUM   |            |            |           |            |
|------------|------------|------------|-----------|------------|
| ATDR1/4    | ATDR1-1/2  | ATDR3      | ATDR6     | ATDR12     |
| ATDR1/2    | ATDR1-6/10 | ATDR3-2/10 | ATDR6-1/4 | ATDR15     |
| ATDR8/10   | ATDR1-8/10 | ATDR3-1/2  | ATDR7     | ATDR17-1/2 |
| ATDR1      | ATDR2      | ATDR4      | ATDR7-1/2 | ATDR20     |
| ATDR1-1/8  | ATDR2-1/4  | ATDR4-1/2  | ATDR8     | ATDR25     |
| ATDR1-1/4  | ATDR2-1/2  | ATDR5      | ATDR9     | ATDR30     |
| ATDR1-4/10 | ATDR2-8/10 | ATDR5-6/10 | ATDR10    | -          |



### ATQR Time Delay/Class CC

**Volts:** 600VAC (1/10-30A), 300VDC (3-2/10 - 30A)  
**Amps:** 1/10 to 30A  
**IR:** 200kA I.R. AC, 100kA I.R. DC

| CAT. NUM |            |            |            |
|----------|------------|------------|------------|
| ATQR1/10 | ATQR8/10   | ATQR2-8/10 | ATQR7-1/2  |
| ATQR1/8  | ATQR1      | ATQR3      | ATQR8      |
| ATQR3/16 | ATQR1-1/8  | ATQR3-2/10 | ATQR9      |
| ATQR2/10 | ATQR1-1/4  | ATQR3-1/2  | ATQR10     |
| ATQR1/4  | ATQR1-4/10 | ATQR4      | ATQR12     |
| ATQR3/10 | ATQR1-1/2  | ATQR4-1/2  | ATQR15     |
| ATQR4/10 | ATQR1-6/10 | ATQR5      | ATQR17-1/2 |
| ATQR1/2  | ATQR1-8/10 | ATQR5-6/10 | ATQR20     |
| ATQR6/10 | ATQR2      | ATQR6      | ATQR25     |
| ATQR3/4  | ATQR2-1/4  | ATQR6-1/4  | ATQR30     |
| -        | ATQR2-1/2  | ATQR7      | -          |



### ATMR - Fast Acting/Class CC

**Volts:** 600VAC / DC  
**Amps:** 1/10 to 30A  
**IR:** 200kA I.R. AC, 100kA I.R. DC

| CAT. NUM |           |       |        |
|----------|-----------|-------|--------|
| ATMR1/10 | ATMR1     | ATMR4 | ATMR10 |
| ATMR1/8  | ATMR1-1/4 | ATMR5 | ATMR12 |
| ATMR2/10 | ATMR1-1/2 | ATMR6 | ATMR15 |
| ATMR1/4  | ATMR2     | ATMR7 | ATMR20 |
| ATMR3/10 | ATMR2-1/2 | ATMR8 | ATMR25 |
| ATMR1/2  | ATMR3     | ATMR9 | ATMR30 |
| ATMR3/4  | ATMR3-1/2 | -     | -      |



### Modulostar™ CUSCC

| CAT. NUM<br>W/O INDICATION | CAT. NUM<br>WITH INDICATION | NUMBER OF<br>POLES/PHASES | PKG |
|----------------------------|-----------------------------|---------------------------|-----|
| CUSCC1                     | CUSCC1I                     | 1                         | 12  |
| CUSCC1N                    | CUSCC1NI                    | 1 + N                     | 6   |
| CUSCC2                     | CUSCC2I                     | 2                         | 6   |
| CUSCC3                     | CUSCC3I                     | 3                         | 4   |
| CUSCC3N                    | CUSCC3NI                    | 3 + N                     | 3   |
| CUSCC4                     | CUSCC4I                     | 4                         | 3   |



### Switch fuse disconnectors

| DESCRIPTION                                                                                           | CAT. NUMBER | WEIGHT | PKG |
|-------------------------------------------------------------------------------------------------------|-------------|--------|-----|
| Class CC Fused Disconnect 600V 30A, 3 poles (1 pole on left side of handle and 2 poles on right side) | M30CC12     | 0.70   | 1   |

# LOW VOLTAGE CYLINDRICAL FUSES

## Class J



### AJT - Time delay/Class J

**Volts:** 600VAC or less, 500VDC or less

**Amps:** 1 to 600A

**IR:** 200kA I.R. AC, 100kA I.R. DC (Self-certified for 600VAC, 300kA I.R., UL witnessed).

| 1-7A: NON-INDICATING ONLY; SMARTSPOT VISUAL INDICATOR NOT AVAILABLE |            | 8-600A: NON INDICATING AND SMARTSPOT VERSIONS AVAILABLE                                                 |        |        |
|---------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------------------------|--------|--------|
|                                                                     |            | FOR NON-INDICATING, ADD SUFFIX 'N' TO CATALOG NUMBER. EX.: AJT30 (INDICATING); AJT30N (NON-INDICATING). |        |        |
| AJT1N                                                               | AJT3-2/10N | AJT8                                                                                                    | AJT45  | AJT200 |
| AJT1-1/4N                                                           | AJT3-1/2N  | AJT9                                                                                                    | AJT50  | AJT225 |
| AJT1-1/2N                                                           | AJT4N      | AJT10                                                                                                   | AJT60  | AJT250 |
| AJT1-6/10N                                                          | AJT4-1/2N  | AJT12                                                                                                   | AJT70  | AJT300 |
| AJT1-8/10N                                                          | AJT5N      | AJT15                                                                                                   | AJT80  | AJT350 |
| AJT2N                                                               | AJT5-6/10N | AJT17-1/2                                                                                               | AJT90  | AJT400 |
| AJT2-1/4N                                                           | AJT6N      | AJT20                                                                                                   | AJT100 | AJT450 |
| AJT2-1/2N                                                           | AJT6-1/4N  | AJT25                                                                                                   | AJT110 | AJT500 |
| AJT2-8/10N                                                          | AJT7N      | AJT30                                                                                                   | AJT125 | AJT600 |
| AJT3N                                                               |            | AJT35                                                                                                   | AJT150 |        |
|                                                                     |            | AJT40                                                                                                   | AJT175 |        |

*Note: SmartSpot visual indicator is not available (1-7A)*

### Recommended fuse blocks with box connectors for Amp-Trap® Class J fuses

| FUSE AMPERE RATING | CAT. NUM     |        |
|--------------------|--------------|--------|
|                    | 600V OR LESS |        |
|                    | 1 POLE       | 3 POLE |
| 0-30               | US3J1I       | US3J3I |
| 31-60              | US6J1I       | US6J3I |
| 61-100             | 61036J       | 61038J |
| 101-200            | 62001J       | 62003J |
| 201-400            | 64031J       | 64033J |
| 401-600            | 6631J        | 6633J  |

*A variety of pole configurations and termination provisions are available. Refer to [ep.mersen.com](http://ep.mersen.com) for details*

### A4J - Fast Acting/Class J

**Volts:** 600VAC, 300VDC

**Amps:** 1 to 600A

**IR:** 200kA I.R. AC, 100kA I.R. DC



| CATALOG NUMBERS |       |        |        |
|-----------------|-------|--------|--------|
| A4J1            | A4J35 | A4J90  | A4J250 |
| A4J3            | A4J40 | A4J100 | A4J300 |
| A4J6            | A4J45 | A4J110 | A4J350 |
| A4J10           | A4J50 | A4J125 | A4J400 |
| A4J15           | A4J60 | A4J150 | A4J450 |
| A4J20           | A4J70 | A4J175 | A4J500 |
| A4J25           | A4J75 | A4J200 | A4J600 |
| A4J30           | A4J80 | A4J225 |        |

### Recommended fuse blocks with box connectors for Amp-Trap® Class J fuses

| CATALOG NUMBER |        |
|----------------|--------|
| 600V OR LESS   |        |
| 1 POLE         | 3 POLE |
| US3J1I         | US3J3I |
| US6J1I         | US6J3I |
| 61036J         | 61038J |
| 62001J         | 62003J |
| 64031J         | 64033J |
| 6631J          |        |

*A variety of pole configurations and termination provisions are available. Refer to Section FB for details.*

# LOW VOLTAGE CYLINDRICAL FUSES

## Class J



### UltraSafe™ US22

| CCD CONFIGURATIONS         | CAT. NUMBER W/O INDICATION | REF. NUMBER W/O INDICATION | CAT. NUMBER WITH INDICATION | REF. NUMBER WITH INDICATION | PKG |
|----------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|-----|
| 3                          | US223                      | R331169                    | US223I                      | S331170                     | 2   |
| 3 + N                      | US223N                     | X331174                    | -                           | -                           | 1   |
| 1                          | US221                      | E331158                    | US221I                      | F331159                     | 6   |
| 2                          | US222                      | K331163                    | US222I                      | L331164                     | 3   |
| 1 + N                      | US221N                     | H331161                    | -                           | -                           | 3   |
| with auxiliary microswitch |                            |                            |                             |                             |     |
| 1                          | US221M                     | G331160                    | US221MI                     | Z1006203                    | 6   |
| 1 + N                      | US221NM                    | J331162                    | US222M2I                    | Q331168                     | 3   |
| 2                          | US222M                     | M331165                    | US222MI                     | N331166                     | 3   |
| 2                          | US222M2                    | P331167                    | US222M2I                    | Q331168                     | 3   |
| 3                          | US223M                     | T331171                    | US223M2I                    | X1011974                    | 2   |
| 3                          | US223M2                    | W331173                    | US223MI                     | V331172                     | 2   |



### Modulostar® CMS27

Modulostar® fuse holders for 27x60 fuse-links, without indicator

| CATALOG NUMBER | ITEM NUMBER | NUMBER OF POLES/PHASES | DESIGN                          | PKG | WEIGHT  |
|----------------|-------------|------------------------|---------------------------------|-----|---------|
| CMS271         | R210580     | 1                      | single pole                     | 3   | 0.30 kg |
| CMS271N        | S210581     | 1 + N                  | single pole + neutral conductor | 1   | 0.72 kg |
| CMS272         | T210582     | 2                      | double pole                     | 1   | 0.67 kg |
| CMS273         | V210583     | 3                      | triple pole                     | 1   | 0.91 kg |
| CMS273N        | W210584     | 3 + N                  | triple pole + neutral conductor | 1   | 1.25 kg |
| CMS27N         | B210152     | N                      | neutral conductor               | 3   | 0.37 kg |



### UltraSafe™ US27

| CCD CONFIGURATIONS                                 | CAT. NUMBER W/O INDICATION | REF. NUMBER W/O INDICATION | CAT. NUMBER WITH INDICATION | REF. NUMBER WITH INDICATION | PKG |
|----------------------------------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|-----|
| 1                                                  | US271                      | G320005                    | US271I                      | J226420                     | 3   |
| 1+N                                                | -                          | -                          | US271NI                     | K226421                     | 1   |
| 2                                                  | US272                      | H320006                    | US272I                      | L226422                     | 1   |
| 3                                                  | US273                      | J320007                    | US273I                      | M226423                     | 3   |
| 3+N                                                | -                          | -                          | US273NI                     | N226424                     | 1   |
| N                                                  | US27N                      | R232729                    | -                           | -                           | 3   |
| with auxiliary microswitch                         |                            |                            |                             |                             |     |
| 1                                                  | -                          | -                          | US271MI                     | R227600                     | 1   |
| 2                                                  | -                          | -                          | US272M2I                    | T227602                     | 1   |
| 2                                                  | -                          | -                          | US272MI                     | S227601                     | 1   |
| with auxiliary microswitch and ring lug connection |                            |                            |                             |                             |     |
| 1                                                  | -                          | -                          | US271MIRING                 | Z227607                     | 1   |
| 2                                                  | -                          | -                          | US272M2IRING                | B227609                     | 1   |
| with ring lug connection                           |                            |                            |                             |                             |     |
| 1+N                                                | -                          | -                          | US271NIRING                 | E223518                     | 1   |
| 1                                                  | -                          | -                          | US271IRING                  | B223515                     | 3   |
| 2                                                  | -                          | -                          | US272IRING                  | C223516                     | 1   |
| 3                                                  | -                          | -                          | US273IRING                  | D223517                     | 3   |
| N                                                  | -                          | -                          | US27NIRING                  | F223519                     | 3   |

# LOW VOLTAGE CYLINDRICAL FUSES

## Class J



### UltraSafe™ Class J Fuse Holders US3J & US6J, 600VAC / 600VDC

| CAT. NUMBER<br>W/O INDICATION | CAT. NUMBER<br>WITH INDICATION | DESCRIPTION | AMPERE RATING | CERTIFICATIONS                             |
|-------------------------------|--------------------------------|-------------|---------------|--------------------------------------------|
| US3J1                         | US3J1I                         | 1-Pole 30A  | 30A           | UL Listed<br>CSA Approved<br>IEC Certified |
| US3J2                         | US3J2I                         | 2-Pole 30A  |               |                                            |
| US3J3                         | US3J3I                         | 3-Pole 30A  |               |                                            |
| US6J1                         | US6J1I                         | 1-Pole 30A  | 60A           |                                            |
| US6J2                         | US6J2I                         | 2-Pole 30A  |               |                                            |
| US6J3                         | US6J3I                         | 3-Pole 30A  |               |                                            |



### Switch fuse disconnectors

| AMPERE RATING                | 30               | 60                                 | 100                                | 200    | 300        | 400        |
|------------------------------|------------------|------------------------------------|------------------------------------|--------|------------|------------|
| Base Part #                  | M30              | M60                                | M100                               | M200   | M300       | M400       |
| Fuse Type                    | CC, J            | J                                  | J                                  | J      | J          | J          |
| 3- and 4-pole configurations | 12, 22, 30F, 30S | 12, 22, 22N, 30, 30F, 30S, 40, 40N | 12, 22, 22N, 30, 30F, 30S, 40, 40N | 30, 40 | 12, 30, 40 | 12, 30, 40 |

S = Side operated F = Rod-Flange actuated (Direct Side Operated Handles are included with 'S' option)



# NH FUSES AND FUSEGEAR OFFERING

## NH fuses

| SIZE                                                                                     | VOLTAGE*        | BREAKING CAPACITY | FUSES                  |                        |                        | PAGES |
|------------------------------------------------------------------------------------------|-----------------|-------------------|------------------------|------------------------|------------------------|-------|
|                                                                                          |                 |                   | GG                     | AM                     | AR                     |       |
|                                                                                          |                 |                   | WITH DOUBLE INDICATION | WITH DOUBLE INDICATION | WITH DOUBLE INDICATION |       |
| 000<br> | 400VAC          | 100kA             | 2 - 100A               | —                      | —                      | 28-30 |
|                                                                                          | 500VAC / 250VDC | 120kA / 80kA      | 2 - 100A               | 2 - 80A                | —                      |       |
|                                                                                          | 690VAC          | 80kA              | 2 - 80A                | 2 - 63A                | 16-315A                |       |
| 00<br> | 400VAC          | 100kA             | 125 - 160A             | —                      | —                      | 31-34 |
|                                                                                          | 500VAC / 250VDC | 120kA / 80kA      | 125 - 160A             | 100 - 160A             | —                      |       |
|                                                                                          | 690VAC          | 80kA              | 32 - 125A              | 50 - 125A              | 20-315A                |       |
| 0<br> | 400VAC          | 100kA             | —                      | —                      | —                      | 35-37 |
|                                                                                          | 500VAC / 250VDC | 120kA / 80kA      | 6 - 250A               | 100 - 200A             | —                      |       |
|                                                                                          | 690VAC / 400VDC | 80kA / 80kA       | 10 - 160A              | 10 - 160A              | 32-315A                |       |
| 1<br> | 400VAC          | 100kA             | 35 - 250A              | —                      | —                      | 38-41 |
|                                                                                          | 500VAC / 250VDC | 120kA / 80kA      | 16 - 355A              | 100 - 315A             | —                      |       |
|                                                                                          | 690VAC / 400VDC | 80kA / 80kA       | 16 - 250A              | 16 - 250A              | 63-400A                |       |
| 2<br> | 400VAC          | 100kA             | 35 - 400A              | —                      | —                      | 42-45 |
|                                                                                          | 500VAC / 250VDC | 120kA / 80kA      | 25 - 500A              | 25 - 500A              | —                      |       |
|                                                                                          | 690VAC          | 170kA/80kA        | 32 - 355A              | 35 - 400A              | 160-700A               |       |
| 3<br> | 400VAC          | 100kA             | 250 - 630A             | —                      | —                      | 46-53 |
|                                                                                          | 500VAC / 250VDC | 120kA / 80kA      | 100 - 630A             | 315 - 630A             | —                      |       |
|                                                                                          | 690VAC          | 170kA / 80kA      | 250 - 500A             | 250 - 500A             | 315-1000A              |       |

NH fuses are available with striker NH gTr fuses are available see [ep.mersen.com](http://ep.mersen.com)

\* DC voltage for NH gG fuses

# Fusegear

| BASES                                                                               | SWITCH<br>FUSE DISCONNECTORS                                                                     | FUSE<br>SWITCH<br>DISCONNECTORS                                                                         | ACCESSORIES                                                                                               |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
|   |  <p>M63D03</p>  |  <p>Multibloc®</p>     |  <p>COOSZDIN</p>      |
|  |  <p>M400D</p> |  <p>Multibloc®</p>   |  <p>COOSZDIN</p>     |
|  |  <p>M630D</p> |  <p>Multivert®</p>   |  <p>Pull handle</p>  |
|                                                                                     |                                                                                                  |  <p>Multifix 60</p> |  <p>Neutral link</p> |

# NH FUSES

## Size 000



gG

**400 VAC**

**Breaking capacity: 100 kA**

With double indication

| CAT. NUMBER   | REF. NUMBER | CURRENT (A) | WITH DOUBLE INDICATION | PKG |
|---------------|-------------|-------------|------------------------|-----|
| NH000GG40V2   | Z223674     | 2           | 2 - 100A               | 3   |
| NH000GG40V4   | A223675     | 4           |                        | 3   |
| NH000GG40V6   | B223676     | 6           |                        | 3   |
| NH000GG40V10  | C223677     | 10          |                        | 3   |
| NH000GG40V16  | D223678     | 16          |                        | 9   |
| NH000GG40V20  | E223679     | 20          |                        | 9   |
| NH000GG40V25  | F223680     | 25          |                        | 9   |
| NH000GG40V32  | G223681     | 32          |                        | 9   |
| NH000GG40V35  | H223682     | 35          |                        | 9   |
| NH000GG40V40  | J223683     | 40          |                        | 9   |
| NH000GG40V50  | K223684     | 50          |                        | 9   |
| NH000GG40V63  | L223685     | 63          |                        | 9   |
| NH000GG40V80  | M223686     | 80          |                        | 9   |
| NH000GG40V100 | N223687     | 100         |                        | 9   |

**500 VAC / 250 VDC**

**Breaking capacity:  
120 kA / 80kA**

With double indication

| CAT. NUMBER   | REF. NUMBER | CURRENT (A) | WITH DOUBLE INDICATION | PKG |
|---------------|-------------|-------------|------------------------|-----|
| NH000GG50V2   | B211946     | 2           | 2 - 100A               | 3   |
| NH000GG50V4   | M212462     | 4           |                        | 3   |
| NH000GG50V6   | D213995     | 6           |                        | 3   |
| NH000GG50V10  | B219651     | 10          |                        | 3   |
| NH000GG50V16  | K222097     | 16          |                        | 9   |
| NH000GG50V20  | A222847     | 20          |                        | 9   |
| NH000GG50V25  | E201185     | 25          |                        | 9   |
| NH000GG50V32  | Z211438     | 32          |                        | 9   |
| NH000GG50V35  | C211947     | 35          |                        | 9   |
| NH000GG50V40  | N212463     | 40          |                        | 9   |
| NH000GG50V50  | T212974     | 50          |                        | 9   |
| NH000GG50V63  | E213996     | 63          |                        | 9   |
| NH000GG50V80  | Y216543     | 80          |                        | 9   |
| NH000GG50V100 | B219122     | 100         |                        | 9   |



gG

**690 VAC**

**Breaking capacity: 80 kA**

With double indication

| CAT. NUMBER  | REF. NUMBER | CURRENT (A) | WITH DOUBLE INDICATION | PKG |
|--------------|-------------|-------------|------------------------|-----|
| NH000GG69V2  | E228440     | 2           | 2 - 80A                | 3   |
| NH000GG69V4  | F228441     | 4           |                        | 3   |
| NH000GG69V6  | G228442     | 6           |                        | 3   |
| NH000GG69V10 | J228444     | 10          |                        | 3   |
| NH000GG69V16 | K228445     | 16          |                        | 3   |
| NH000GG69V20 | L228446     | 20          |                        | 3   |
| NH000GG69V25 | M228447     | 25          |                        | 3   |
| NH000GG69V32 | N228448     | 32          |                        | 3   |
| NH000GG69V35 | P228449     | 35          |                        | 3   |
| NH000GG69V40 | Q228450     | 40          |                        | 3   |
| NH000GG69V50 | R228451     | 50          |                        | 3   |
| NH000GG69V63 | S228452     | 63          |                        | 3   |
| NH000GG69V80 | T228453     | 80          |                        | 3   |

## Fusegear

**IEC Switch fuse  
disconnecter: M63D**



63A, NH fuses

| DESCRIPTION                   | CAT. NUMBER | REF. NUMBER | WEIGHT (G) | PKG |
|-------------------------------|-------------|-------------|------------|-----|
| Switch.fus 63A 000 0+3 pos.   | M63D03      | M1043268    | 1.3        | 1   |
| Switch.fus 63A 000 R side op. | M63D30S     | N1043269    | 1.2        | 1   |

# NH FUSES

## Size 000



aM

500 VAC

Breaking capacity: 120 kA

With double indication

| CAT. NUMBER  | REF. NUMBER | CURRENT (A) | WITH DOUBLE INDICATION | PKG |
|--------------|-------------|-------------|------------------------|-----|
| NH000AM50V2  | K232493     | 2           | 2 - 80A                | 3   |
| NH000AM50V4  | L232494     | 4           |                        | 3   |
| NH000AM50V6  | M232495     | 6           |                        | 3   |
| NH000AM50V10 | N232496     | 10          |                        | 3   |
| NH000AM50V16 | P232497     | 16          |                        | 3   |
| NH000AM50V20 | Q232498     | 20          |                        | 3   |
| NH000AM50V25 | R232499     | 25          |                        | 3   |
| NH000AM50V32 | S232500     | 32          |                        | 3   |
| NH000AM50V35 | T232501     | 35          |                        | 3   |
| NH000AM50V40 | V232502     | 40          |                        | 3   |
| NH000AM50V50 | W232503     | 50          |                        | 3   |
| NH000AM50V63 | X232504     | 63          |                        | 3   |
| NH000AM50V80 | C227863     | 80          |                        | 9   |



aM

690 VAC

Breaking capacity: 80 kA

With double indication

| CAT. NUMBER  | REF. NUMBER | CURRENT (A) | WITH DOUBLE INDICATION | PKG |
|--------------|-------------|-------------|------------------------|-----|
| NH000AM69V2  | P227851     | 2           | 2 - 63A                | 3   |
| NH000AM69V4  | Q227852     | 4           |                        | 3   |
| NH000AM69V6  | R227853     | 6           |                        | 3   |
| NH000AM69V10 | S227854     | 10          |                        | 3   |
| NH000AM69V16 | T227855     | 16          |                        | 3   |
| NH000AM69V20 | V227856     | 20          |                        | 3   |
| NH000AM69V25 | W227857     | 25          |                        | 3   |
| NH000AM69V32 | X227858     | 32          |                        | 3   |
| NH000AM69V35 | Y227859     | 35          |                        | 3   |
| NH000AM69V40 | Z227860     | 40          |                        | 3   |
| NH000AM69V50 | A227861     | 50          |                        | 3   |
| NH000AM69V63 | B227862     | 63          |                        | 3   |



aR

690 VAC

Breaking capacity: 80 kA

With double indication

| CAT. NUMBER     | REF. NUMBER | CURRENT (A) | WITH DOUBLE INDICATION | PKG |
|-----------------|-------------|-------------|------------------------|-----|
| NH000UD69V16PV  | P320035     | 16 A        | 16 - 315A              | 3   |
| NH000UD69V32PV  | Y320043     | 32 A        |                        | 3   |
| NH000UD69V50PV  | G320051     | 50 A        |                        | 3   |
| NH000UD69V63PV  | L320055     | 63 A        |                        | 3   |
| NH000UD69V80PV  | Q320059     | 80 A        |                        | 3   |
| NH000UD69V100PV | V320063     | 100 A       |                        | 3   |
| NH000UD69V125PV | X320065     | 125 A       |                        | 3   |
| NH000UD69V160PV | B320069     | 160 A       |                        | 3   |
| NH000UD69V250PV | H320075     | 250 A       |                        | 3   |
| NH000UD50V315PV | M320079     | 315 A       |                        | 3   |

1) Weight in kg per piece or set including package

## Fusegear

### MULTIBLOC® 000.ST9

**MULTIBLOC® 000.ST9 size 000 125 A, 690VAC bottom fitting, triple pole**



| CAT. NUMBER | ITEM NUMBER | POLES | CABLE TERMINATION COMPONENTS | PKG     | WEIGHT |
|-------------|-------------|-------|------------------------------|---------|--------|
| 1.005.070   | D1070423    | 3     | 6 frame clamps 1,5–50 mm²    | 1 piece | -      |

**MULTIBLOC® 000.ST9 size 000 125 A, 690VAC bottom fitting, triple pole, equipped with Fuse Monitoring module**

| CAT. NUMBER | ITEM NUMBER | POLES | CABLE TERMINATION COMPONENTS | PKG     | WEIGHT |
|-------------|-------------|-------|------------------------------|---------|--------|
| 1.005.170   | J1070428    | 3     | 6 frame clamps 1,5-50mm²     | 1 piece | -      |

### MULTIBLOC® 000.RST9

**MULTIBLOC® 000.RST9 size 000 125 A, 690VAC bus bar installation, triple pole**



| CAT. NUMBER | ITEM NUMBER | POLES | CABLE TERMINATION COMPONENTS                    | PKG     |
|-------------|-------------|-------|-------------------------------------------------|---------|
| 1.005.065   | B1070421    | 3     | 3 frame clamps 2,5-50 mm² top cable terminal    | 1 piece |
| 1.005.067   | C1070422    | 3     | 3 frame clamps 2,5-50 mm² bottom cable terminal | 1 piece |

**MULTIBLOC® 000.RST9 size 000 125 A, 690VAC bus bar installation, triple pole, equipped with Fuse Monitoring module**

| CAT. NUMBER | ITEM NUMBER | POLES | CABLE TERMINATION COMPONENTS                    | PKG     | WEIGHT |
|-------------|-------------|-------|-------------------------------------------------|---------|--------|
| 1.005.165   | G1070426    | 3     | 3 frame clamps 2,5-50 mm² top cable terminal    | 1 piece | -      |
| 1.005.167   | H1070427    | 3     | 3 frame clamps 2,5-50 mm² bottom cable terminal | 1 piece | -      |

## Accessories



**Pull handle**



**Neutral link**



**Indication facilities**

| DESCRIPTION                    | CAT. NUMBER  | REF. NUMBER | PKG |
|--------------------------------|--------------|-------------|-----|
| Neutral link size 000          | NH00NEUTRAL  | Z218269     | 15  |
| Isolated neutral link size 000 | NH00KNIFESGP | W216058     | 12  |
| Pull handle                    | NHHANDLE     | P215592     | 5   |

various accessories available for FSD:  
visit [ep.mersen.com](http://ep.mersen.com)

| CAT. NUMBER | ITEM NUMBER | DESIGN                                                                                                                                | PKG     | WEIGHT |
|-------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------|---------|--------|
| 1.005.080   | E1070424    | indicator for switch door position<br>micro switch, 1 change-over<br>contact 5 A, 250 V<br>for MULTIBLOC® 000.ST9<br>1 set = 3 pieces | 1 piece | 60 g   |

1) Weight in kg per piece or set including package

# NH FUSES

## Size 00



gG

**400 VAC**

**Breaking capacity: 100 kA**

With double indication

| CAT. NUMBER  | REF. NUMBER | CURRENT (A) | WITH DOUBLE INDICATION | PKG |
|--------------|-------------|-------------|------------------------|-----|
| NH00GG40V125 | E223702     | 125         | 125-160A               | 3   |
| NH00GG40V160 | F223703     | 160         |                        | 3   |

**500 VAC / 250 VDC**

**Breaking capacity:**

**120 kA / 80 kA**

With double indication

| CAT. NUMBER  | REF. NUMBER | CURRENT (A) | WITH DOUBLE INDICATION | PKG |
|--------------|-------------|-------------|------------------------|-----|
| NH00GG50V125 | R201863     | 125         | 125-160A               | 3   |
| NH00GG50V160 | P211084     | 160         |                        | 3   |



aM

**500 VAC**

**Breaking capacity: 120 kA**

With double indication

| CAT. NUMBER  | REF. NUMBER | CURRENT (A) | WITH DOUBLE INDICATION | PKG |
|--------------|-------------|-------------|------------------------|-----|
| NH00AM50V100 | Y232505     | 100         | 100-160A               | 3   |
| NH00AM50V125 | Z232506     | 125         |                        | 3   |
| NH00AM50V160 | J227869     | 160         |                        | 3   |

**690 VAC**

**Breaking capacity: 80 kA**

With double indication

| CAT. NUMBER  | REF. NUMBER | CURRENT (A) | WITH DOUBLE INDICATION | PKG |
|--------------|-------------|-------------|------------------------|-----|
| NH00AM69V50  | D227864     | 50          | 50-125A                | 3   |
| NH00AM69V63  | E227865     | 63          |                        | 3   |
| NH00AM69V80  | F227866     | 80          |                        | 3   |
| NH00AM69V100 | G227867     | 100         |                        | 3   |
| NH00AM69V125 | H227868     | 125         |                        | 3   |

**690 VAC**

**Breaking capacity: 80 kA**

With double indication

| CAT. NUMBER  | REF. NUMBER | CURRENT (A) | WITH DOUBLE INDICATION | PKG |
|--------------|-------------|-------------|------------------------|-----|
| NH00GG69V32  | V228454     | 32          | 32-125A                | 3   |
| NH00GG69V35  | W228455     | 35          |                        | 3   |
| NH00GG69V40  | X228456     | 40          |                        | 3   |
| NH00GG69V50  | Y228457     | 50          |                        | 3   |
| NH00GG69V63  | Z228458     | 63          |                        | 3   |
| NH00GG69V80  | A228459     | 80          |                        | 3   |
| NH00GG69V100 | B228460     | 100         |                        | 3   |
| NH00GG69V125 | C228461     | 125         |                        | 3   |



aM

**690 VAC**

**Breaking capacity: 170 kA**

With double indication

| CAT. NUMBER    | REF. NUMBER | CURRENT (A) | WITH DOUBLE INDICATION | PKG |
|----------------|-------------|-------------|------------------------|-----|
| NH00UD69V20PV  | A320137     | 20 A        | 20-315A                | 3   |
| NH00UD69V40PV  | L320147     | 40          |                        | 3   |
| NH00UD69V63PV  | V320155     | 63 A        |                        | 3   |
| NH00UD69V80PV  | Z320159     | 80 A        |                        | 3   |
| NH00UD69V100PV | D320163     | 100 A       |                        | 3   |
| NH00UD69V125PV | F320165     | 125 A       |                        | 3   |
| NH00UD69V160PV | K320169     | 160 A       |                        | 3   |
| NH00UD69V200PV | M320171     | 200 A       |                        | 3   |
| NH00UD69V250PV | R320175     | 250 A       |                        | 3   |
| NH00UD69V315PV | W320179     | 315 A       |                        | 3   |

## Accessories

### Pull handle



### Neutral link



| DESCRIPTION                    | CAT. NUMBER   | REF. NUMBER | PKG |
|--------------------------------|---------------|-------------|-----|
| Neutral link size 000          | NH00NEUTRAL   | Z218269     | 15  |
| Isolated neutral link size 000 | NH000KNIFESGP | W216058     | 12  |
| Pull handle                    | NHHANDLE      | P215592     | 5   |

various accessories available for FSD:  
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### Installation devices

| CAT. NUMBER | ITEM NUMBER | DESIGN                                                                                                                 | PKG     | WEIGHT  |
|-------------|-------------|------------------------------------------------------------------------------------------------------------------------|---------|---------|
| 1.000.151   | B229288     | adapter for installation between DIN-rails in accordance with EN 60715, DIN-rail distance 125mm for 00.ST8 single pole | 1 piece | 80 g    |
| 1.000.152   | C229289     | adapter for installation between DIN-rails in accordance with EN 60715, DIN-rail distance 150mm for 00.ST8 single pole | 1 piece | 0.14 kg |
| 1.000.153   | C229887     | adapter for installation between DIN-rails in accordance with EN 60715, DIN-rail distance 125mm for 00.ST9 triple pole | 1 piece | 0.24 kg |
| 1.000.154   | D229888     | adapter for installation between DIN-rails in accordance with EN 60715, DIN-rail distance 150mm for 00.ST9 triple pole | 1 piece | 0.29 kg |



### Indication facilities

| CAT. NUMBER | ITEM NUMBER | DESIGN                                                                                                                                   | PKG     | WEIGHT |
|-------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------|---------|--------|
| MZ00HD      | V1022989    | indicator for switch door position micro switch 1 "a" contact/ 1 "b" contact, 5 A, 250 V for MULTIBLOC® 00.ST8 1-, 2-, 4-pole            | 1 piece | 90 g   |
| 1.000.852   | Q1002285    | indicator for switch door position micro switch, 1 change-over contact 5 A, 250 V                                                        | 1 piece | 90 g   |
| 1.000.157   | S1022987    | indicator for switch door position micro switch 1 "a" contact/ 1 "b" contact, 5 A, 250 V for MULTIBLOC® 00.RST9 for 40 mm bus bar system | 1 piece | 0.1 kg |



### Locking and sealing devices/cover sealing device

| CAT. NUMBER | ITEM NUMBER | DESIGN                                                                         | PKG     | WEIGHT |
|-------------|-------------|--------------------------------------------------------------------------------|---------|--------|
| 1.000.155   | L229297     | cover sealing device-installation set for 00.ST8 1-, 2-, 4-pole and 1.ST8/RST8 | 1 piece | 10 g   |

1) Weight in kg per piece or set including package

# NH FUSES

## Fusegear

### Size 00 - NH plastic base



| NO. OF POLES        | MOUNTING TYPE | CAT. NUMBER  | REF. NUMBER | PKG |
|---------------------|---------------|--------------|-------------|-----|
| 1                   | DIN rail      | BB001EPR     | R216192     | 3   |
| 1                   | Screw         | BB001EP      | F215170     | 3   |
| 3                   | DIN rail      | BB003EPRBLOC | V229121     | 1   |
| 3                   | Screw         | BB003EPVBLOC | W229122     | 1   |
| Insulating barriers |               | BB00CL       | W212654     | 2   |

### IEC Switch fuse disconnecter: M160D



160A, NH fuses

| DESCRIPTION                   | CAT. NUMBER | REF. NUMBER | WEIGHT (G) | PKG |
|-------------------------------|-------------|-------------|------------|-----|
| Switch.fus 160A 00 0+3 pos.   | M160D03     | R1043272    | 1.52       | 1   |
| Switch.fus 160A 00 R side op. | M160D30S    | S1043273    | 1.6        | 1   |

## MULTIBLOC® 00



### 160A, 690VAC

| CAT. NUMBER | REF. NUMBER | POLES | CABLE TERMINATION COMPONENTS                                  | DESIGN                                                                          | WEIGHT (KG) | PKG |
|-------------|-------------|-------|---------------------------------------------------------------|---------------------------------------------------------------------------------|-------------|-----|
| 1.000.053   | F229292     | 1     | 2 M8 terminal screws                                          | ST8 - bottom fitting                                                            | 0.32        | 1   |
| 1.000.139   | G229293     | 2     | 3 M8 terminal screws                                          | ST8 - bottom fitting                                                            | 0.62        | 1   |
| 2.030.000   | P1023007    | 3     | 6 M8 terminal screws                                          | ST9 - bottom fitting                                                            | 0.75        | 1   |
| 2.031.000   | E1023044    | 3     | 6 clamp straps Cu 4-70mm <sup>2</sup>                         | ST9 - bottom fitting                                                            | 0.75        | 1   |
| 2.031.300   | F1023045    | 3     | 6 clamp straps Cu 4-70mm <sup>2</sup>                         | ST9 - bottom fitting<br>Fixed window to protect against unauthorized connection | 0.75        | 1   |
| 2.030.100   | V1023012    | 3     | 6 M8 terminal screws                                          | ST9 - bottom fitting<br>with electronic monitoring of fuse                      | 0.86        | 1   |
| 3.084.000   | Z1022993    | 3     | 3 M8 terminal screws<br>3 clamp straps Cu 4-70mm <sup>2</sup> | RST9 - snap-on mounting on busbar 60mm                                          | 0.93        | 1   |
| 3.083.000   | X1022991    | 3     | 3 frame clamps Cu 2,5-70 mm <sup>2</sup><br>factory assembled | RST9 - snap-on mounting on busbar 60mm                                          | 0.88        | 1   |
| 3.084.100   | B1022995    | 3     | 3 M8 terminal screws<br>3 clamp straps Cu 4-70mm <sup>2</sup> | RST9 - snap-on mounting on busbar 60mm<br>with electronic monitoring of fuse    | 0.96        | 1   |
| 2.074.000   | W1022990    | 3     | 3 M8 terminal screws<br>3 clamp straps Cu 4-70mm <sup>2</sup> | RST9 - mounting on busbar 40mm<br>clamping bar                                  | 1.06        | 1   |
| 1.000.141   | J1023002    | 4     | 8 M8 terminal screws                                          | ST8 - bottom fitting, pole 4 right side                                         | 1.04        | 1   |
| 1.000.142   | K1023003    | 4     | 8 clamp straps Cu 4-70mm <sup>2</sup>                         | ST8 - bottom fitting, pole 4 right side                                         | 1.04        | 1   |

## Fusegear

### MULTIVERT® 160 A



#### MULTIVERT® 160 A size 00 bus bar system 1 x triple pole switching

| CAT. NUMBER | REF. NUMBER | POLES  | CABLE TERMINATION COMPONENTS                  | DESIGN                   | WEIGHT (KG) <sup>1)</sup> | PKG |
|-------------|-------------|--------|-----------------------------------------------|--------------------------|---------------------------|-----|
| 1.000.900   | F1002184    | 1 x 3P | 3 M8 terminal screws                          | mounting on busbar 100mm | 1.17                      | 1   |
| 1.000.901   | X1023129    | 1 x 3P | 3 clamp straps Cu 4-70 mm²                    | mounting on busbar 100mm | 1.12                      | 1   |
| 1.000.903   | A1023132    | 1 x 3P | with V-terminal for V-terminal clamps size 00 | mounting on busbar 100mm | 1.12                      | 1   |
| 1.000.909   | E1002183    | 1 x 3P | 3 M8 terminal screws/3 clamp straps 4-70 mm²  | mounting on busbar 60mm  | 1.365                     | 1   |
| 1.001.339   | Y1023153    | 1 x 3P | 3 M8 terminal screws                          | mounting on busbar 185mm | 1.8                       | 1   |

#### Adapter for installation on to bus bars with screw terminal

| CAT. NUMBER | REF. NUMBER | DESIGN                    | WEIGHT (KG) <sup>1)</sup> | PKG |
|-------------|-------------|---------------------------|---------------------------|-----|
| MZ00DSA     | C217145     | double adapter 100/185 mm | 0.706                     | 1   |



#### MULTIVERT® 160 A size 00 185 mm 3 x single pole switching

| CAT. NUMBER | ITEM NUMBER | CABLE TERMINATION COMPONENTS                  | DESIGN                                                | PKG | WEIGHT (KG) <sup>1)</sup> |
|-------------|-------------|-----------------------------------------------|-------------------------------------------------------|-----|---------------------------|
| M01N0G      | Y228756     | 3 M8 terminal screws                          | with cover shroud MZ00KH                              | 1   | 1.9                       |
| M01S0G      | X1023152    | 3 clamp straps Cu 4-70 mm²                    | with cover shroud MZ00KH                              | 1   | 1.9                       |
| M01A0G      | Q1023146    | 3 Al/Cu clamps 1,5-70 mm²                     | with cover shroud MZ00KH                              | 1   | 1.9                       |
| 1.000.910   | G1023138    | with V-terminal for V-terminal clamps size 00 | with cover shroud 1.000.915                           | 1   | 1.9                       |
| 1.001.725   | M1023143    | V-terminal with 3 V-terminal clamps size 00   | with cover shroud 1.000.915                           | 1   | 1.1                       |
| M01N0E11G   | R1023147    | 3 M8 terminal screws                          | MULTIVERT® M01N0G with cabling of instrument leads    | 1   | 2.25                      |
| M01S0E11G   | W1023151    | 3 clamp straps Cu 4-70 mm²                    | MULTIVERT® M01S0G with cabling of instrument leads    | 1   | 2.25                      |
| M01A0E11G   | P1023145    | 3 Al/Cu clamps 1,5-70 mm²                     | MULTIVERT® M01A0G with cabling of instrument leads    | 1   | 2.25                      |
| 1.000.911   | L1023142    | with V-terminal for V-terminal clamps size 00 | MULTIVERT® 1.000.910 with cabling of instrument leads | 1   | 2.25                      |

1) Weight in kg per piece or set including package

# NH FUSES

## Size 0



**gG**

**500 VAC / 250 VDC**  
**Breaking capacity:**  
**120 kA / 80 kA**

With double indication

| CAT. NUMBER | REF. NUMBER | CURRENT (A) | WITH DOUBLE INDICATION | PKG |
|-------------|-------------|-------------|------------------------|-----|
| NH0GG50V6   | H213148     | 6           | 6-250A                 | 3   |
| NH0GG50V10  | G214159     | 10          |                        | 3   |
| NH0GG50V16  | Q215179     | 16          |                        | 3   |
| NH0GG50V20  | R215686     | 20          |                        | 3   |
| NH0GG50V25  | Y216198     | 25          |                        | 3   |
| NH0GG50V32  | W216702     | 32          |                        | 3   |
| NH0GG50V35  | J217220     | 35          |                        | 3   |
| NH0GG50V40  | P217731     | 40          |                        | 3   |
| NH0GG50V50  | Z218246     | 50          |                        | 3   |
| NH0GG50V63  | N218765     | 63          |                        | 3   |
| NH0GG50V80  | C219284     | 80          |                        | 3   |
| NH0GG50V100 | D219814     | 100         |                        | 3   |
| NH0GG50V125 | P222492     | 125         |                        | 3   |
| NH0GG50V160 | F223013     | 160         |                        | 3   |
| NH0GG50V200 | C229611     | 200         |                        | 3   |
| NH0GG50V224 | D229612     | 224         |                        | 3   |
| NH0GG50V250 | E229613     | 250         |                        | 3   |



**gG**

**690 VAC / 400 VDC**  
**Breaking capacity:**  
**80 kA / 80 kA**

With double indication

| CAT. NUMBER | REF. NUMBER | CURRENT (A) | WITH DOUBLE INDICATION | PKG |
|-------------|-------------|-------------|------------------------|-----|
| NH0GG69V10  | E228463     | 10          | 10-160A                | 3   |
| NH0GG69V16  | F228464     | 16          |                        | 3   |
| NH0GG69V20  | G228465     | 20          |                        | 3   |
| NH0GG69V25  | H228466     | 25          |                        | 3   |
| NH0GG69V32  | J228467     | 32          |                        | 3   |
| NH0GG69V35  | K228468     | 35          |                        | 3   |
| NH0GG69V40  | L228469     | 40          |                        | 3   |
| NH0GG69V50  | M228470     | 50          |                        | 3   |
| NH0GG69V63  | N228471     | 63          |                        | 3   |
| NH0GG69V80  | P228472     | 80          |                        | 3   |
| NH0GG69V100 | Q228473     | 100         |                        | 3   |
| NH0GG69V125 | R228474     | 125         |                        | 3   |
| NH0GG69V160 | S228475     | 160         |                        | 3   |



**aM**

**500 VAC**  
**Breaking capacity: 120 kA**

With double indication

| CAT. NUMBER | REF. NUMBER | CURRENT (A) | WITH DOUBLE INDICATION | PKG |
|-------------|-------------|-------------|------------------------|-----|
| NH0AM50V100 | A232507     | 100         | 100-200A               | 3   |
| NH0AM50V125 | B232508     | 125         |                        | 3   |
| NH0AM50V160 | C232509     | 160         |                        | 3   |
| NH0AM50V200 | A227884     | 200         |                        | 3   |



**aM**

**690 VAC**  
**Breaking capacity: 80 kA**

With double indication

| CAT. NUMBER | REF. NUMBER | CURRENT (A) | WITH DOUBLE INDICATION | PKG |
|-------------|-------------|-------------|------------------------|-----|
| NH0AM69V10  | L227871     | 10          | 100-160A               | 3   |
| NH0AM69V16  | M227872     | 16          |                        | 3   |
| NH0AM69V20  | N227873     | 20          |                        | 3   |
| NH0AM69V25  | P227874     | 25          |                        | 3   |
| NH0AM69V32  | Q227875     | 32          |                        | 3   |
| NH0AM69V35  | R227876     | 35          |                        | 3   |
| NH0AM69V40  | S227877     | 40          |                        | 3   |
| NH0AM69V50  | T227878     | 50          |                        | 3   |
| NH0AM69V63  | V227879     | 63          |                        | 3   |
| NH0AM69V80  | W227880     | 80          |                        | 3   |
| NH0AM69V100 | X227881     | 100         |                        | 3   |
| NH0AM69V125 | Y227882     | 125         |                        | 3   |
| NH0AM69V160 | Z227883     | 160         |                        | 3   |

1) Weight in kg per piece or set including package

# NH FUSES

## Size 0



aR

690 VAC

Breaking capacity: 170 kA

With double indication

| CAT. NUMBER   | REF. NUMBER | CURRENT (A) | WITH DOUBLE INDICATION | PKG |
|---------------|-------------|-------------|------------------------|-----|
| NH0UD69V32PV  | Q320243     | 32          | 32-315A                | 3   |
| NH0UD69V63PV  | D320255     | 63          |                        | 3   |
| NH0UD69V100PV | M320263     | 100         |                        | 3   |
| NH0UD69V125PV | P320265     | 125         |                        | 3   |
| NH0UD69V160PV | T320269     | 160         |                        | 3   |
| NH0UD69V250PV | A320275     | 250         |                        | 3   |
| NH0UD69V315PV | E320279     | 315         |                        | 3   |

## IEC Switch fuse disconnecter: M200D



200A, NH fuses

| DESCRIPTION                  | CAT. NUMBER | REF. NUMBER | WEIGHT (G) | PKG |
|------------------------------|-------------|-------------|------------|-----|
| Switch.fus 200A 0 0+3 pos.   | M200D03     | T1043274    | 3.3        | 1   |
| Switch.fus 200A 0 R side op. | M200D30S    | V1043275    | 3.3        | 1   |

## Fusegear

### Size 0 - NH plastic base



| NO. OF POLES        | MOUNTING TYPE | CAT. NUMBER | REF. NUMBER | PKG |
|---------------------|---------------|-------------|-------------|-----|
| 1                   | DIN rail      | BB01EPR     | S216193     | 3   |
| 1                   | Screw         | BB01EP      | B213142     | 3   |
| 3                   | DIN rail      | BB03EPR     | C217214     | 1   |
| 3                   | Screw         | BB03EP      | G215171     | 1   |
| Insulating barriers |               | BB0CL       | Z213669     | 2   |

## IEC Switch fuse disconnecter: M400D



400A, NH fuses

| DESCRIPTION                    | CAT. NUMBER | REF. NUMBER | WEIGHT (G) | PKG |
|--------------------------------|-------------|-------------|------------|-----|
| Switch.fus 400A 0-2 0+3 pos.   | M400D03     | Y1043278    | 7.1        | 1   |
| Switch.fus 400A 0-2 R side op. | M400D30S    | Z1043279    | 7.18       | 1   |

## IEC Switch fuse disconnecter: M250D



250A, NH fuses

| DESCRIPTION                    | CAT. NUMBER | REF. NUMBER | WEIGHT (G) | PKG |
|--------------------------------|-------------|-------------|------------|-----|
| Switch.fus 250A 0-1 0+3 pos.   | M250D03     | W1043276    | 3.93       | 1   |
| Switch.fus 250A 0-1 R side op. | M250D30S    | X1043277    | 4.15       | 1   |

1) Weight in kg per piece or set including package

## Accessories

### Pull handle



### Neutral link



| DESCRIPTION                  | CAT. NUMBER  | REF. NUMBER | PKG |
|------------------------------|--------------|-------------|-----|
| Neutral link size 0          | NH0NEUTRAL   | Z219304     | 15  |
| Isolated neutral link size 0 | NH0DKNIFESGP | J217082     | 12  |
| Pull handle                  | NHHANDLE     | P215592     | 5   |

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### Installation devices

| CATALOG NUMBER | ITEM NUMBER | DESIGN                                                                                             | PKG     | WEIGHT  |
|----------------|-------------|----------------------------------------------------------------------------------------------------|---------|---------|
| 1.000.383      | E229291     | adapter for installation on to DIN-rails in accordance with EN 60 715-150 mm for 1.ST8 triple pole | 1 piece | 3.1 kg  |
| 1.000.384      | D229290     | adapter for installation on to DIN-rails in accordance with EN 60 715-125 mm for 1.ST8 triple pole | 1 piece | 3.1 kg  |
| 1.000.402      | A229885     | adapter for installation on to DIN-rails in accordance with EN 60 715-125 mm for 1.ST8 single pole | 1 piece | 0.16 kg |
| 1.000.403      | B229886     | adapter for installation on to DIN-rails in accordance with EN 60 715-150 mm for 1.ST8 single pole | 1 piece | 0.19 kg |



### Indication facilities

| CAT. NUMBER | ITEM NUMBER | DESIGN                                                                            | PKG     | WEIGHT |
|-------------|-------------|-----------------------------------------------------------------------------------|---------|--------|
| 1.000.852   | Q1002285    | indicator for switch door position micro switch, 1 change-over contact 5 A, 250 V | 1 piece | 90 g   |



### Locking and sealing devices/cover sealing device

| CAT. NUMBER | ITEM NUMBER | DESIGN                                                                         | PKG     | WEIGHT |
|-------------|-------------|--------------------------------------------------------------------------------|---------|--------|
| 1.000.155   | L229297     | cover sealing device-installation set for 00.ST8 1-, 2-, 4-pole and 1.ST8/RST8 | 1 piece | 10 g   |

# NH FUSES

## Size 1



gG

**400 VAC**

**Breaking capacity: 100 kA**

With double indication

| SIZE | CAT. NUMBER | REF. NUMBER | CURRENT (A) | WITH DOUBLE INDICATION | PKG |
|------|-------------|-------------|-------------|------------------------|-----|
| 1C   | NH1GG40V35  | J223706     | 35          | 35-250A                | 3   |
| 1C   | NH1GG40V50  | K223707     | 50          |                        | 3   |
| 1C   | NH1GG40V63  | L223708     | 63          |                        | 3   |
| 1C   | NH1GG40V80  | M223709     | 80          |                        | 3   |
| 1C   | NH1GG40V100 | N223710     | 100         |                        | 3   |
| 1C   | NH1GG40V125 | P223711     | 125         |                        | 3   |
| 1    | NH1GG40V160 | Q223712     | 160         |                        | 3   |
| 1    | NH1GG40V200 | R223713     | 200         |                        | 3   |
| 1    | NH1GG40V224 | S223714     | 224         |                        | 3   |
| 1    | NH1GG40V250 | T223715     | 250         |                        | 3   |

**500 VAC / 250 VDC**

**Breaking capacity:  
120 kA / 80 kA**

With double indication

| SIZE | CAT. NUMBER | REF. NUMBER | CURRENT (A) | WITH DOUBLE INDICATION | PKG |
|------|-------------|-------------|-------------|------------------------|-----|
| 1C   | NH1GG50V16  | M200801     | 16          | 16-355A                | 3   |
| 1C   | NH1GG50V20  | C201344     | 20          |                        | 3   |
| 1C   | NH1GG50V25  | N201860     | 25          |                        | 3   |
| 1C   | NH1GG50V32  | L211081     | 32          |                        | 3   |
| 1C   | NH1GG50V35  | A211600     | 35          |                        | 3   |
| 1C   | NH1GG50V40  | Y212633     | 40          |                        | 3   |
| 1C   | NH1GG50V50  | B213648     | 50          |                        | 3   |
| 1C   | NH1GG50V63  | L214669     | 63          |                        | 3   |
| 1C   | NH1GG50V80  | S215687     | 80          |                        | 3   |
| 1C   | NH1GG50V100 | X216703     | 100         |                        | 3   |
| 1C   | NH1GG50V125 | V236044     | 125         |                        | 3   |
| 1    | NH1GG50V160 | A218247     | 160         |                        | 3   |
| 1    | NH1GG50V200 | P218766     | 200         |                        | 3   |
| 1    | NH1GG50V224 | D219285     | 224         |                        | 3   |
| 1    | NH1GG50V250 | E219815     | 250         |                        | 3   |
| 1    | NH1GG50V315 | Q228519     | 315         |                        | 3   |
| 1    | NH1GG50V355 | R228520     | 355         |                        | 3   |



gG

**690 VAC / 400 VDC**

**Breaking capacity:  
80 kA / 80 kA**

With double indication

| SIZE | CAT. NUMBER | REF. NUMBER | CURRENT (A) | WITH DOUBLE INDICATION | PKG |
|------|-------------|-------------|-------------|------------------------|-----|
| 1C   | NH1GG69V16  | T228476     | 16          | 16-250A                | 3   |
| 1C   | NH1GG69V20  | V228477     | 20          |                        | 3   |
| 1C   | NH1GG69V25  | W228478     | 25          |                        | 3   |
| 1C   | NH1GG69V32  | X228479     | 32          |                        | 3   |
| 1C   | NH1GG69V35  | Y228480     | 35          |                        | 3   |
| 1C   | NH1GG69V40  | Z228481     | 40          |                        | 3   |
| 1C   | NH1GG69V50  | A228482     | 50          |                        | 3   |
| 1C   | NH1GG69V63  | B228483     | 63          |                        | 3   |
| 1C   | NH1GG69V80  | C228484     | 80          |                        | 3   |
| 1C   | NH1GG69V100 | D228485     | 100         |                        | 3   |
| 1    | NH1GG69V125 | E228486     | 125         |                        | 3   |
| 1    | NH1GG69V160 | F228487     | 160         |                        | 3   |
| 1    | NH1GG69V200 | G228488     | 200         |                        | 3   |
| 1    | NH1GG69V224 | V233261     | 224         |                        | 3   |
| 1    | NH1GG69V250 | W233262     | 250         |                        | 3   |

# NH FUSES

## Size 1



aM

**500 VAC**

**Breaking capacity: 120 kA**

With double indication

| CAT. NUMBER | REF. NUMBER | CURRENT (A) | WITH DOUBLE INDICATION | PKG |
|-------------|-------------|-------------|------------------------|-----|
| NH1AM50V100 | D232510     | 100         | 100-315A               | 3   |
| NH1AM50V125 | E232511     | 125         |                        | 3   |
| NH1AM50V160 | F232512     | 160         |                        | 3   |
| NH1AM50V200 | G232513     | 200         |                        | 3   |
| NH1AM50V224 | H232514     | 224         |                        | 3   |
| NH1AM50V250 | J232515     | 250         |                        | 3   |
| NH1AM50V315 | K227962     | 315         |                        | 3   |



aR

**690 VAC**

**Breaking capacity: 170 kA**

With double indication

| CAT. NUMBER   | REF. NUMBER | CURRENT (A) | WITH DOUBLE INDICATION | PKG |
|---------------|-------------|-------------|------------------------|-----|
| NH1UD69V63PV  | M320355     | 63          | 63-400A                | 3   |
| NH1UD69V125PV | Y320365     | 125         |                        | 3   |
| NH1UD69V160PV | C320369     | 160         |                        | 3   |
| NH1UD69V200PV | E320371     | 200         |                        | 3   |
| NH1UD69V250PV | J320375     | 250         |                        | 3   |
| NH1UD69V315PV | N320379     | 315         |                        | 3   |
| NH1UD69V400PV | S320383     | 400         |                        | 3   |



aM

**690 VAC**

**Breaking capacity: 80 kA**

With double indication

| CAT. NUMBER | REF. NUMBER | CURRENT (A) | WITH DOUBLE INDICATION | PKG |
|-------------|-------------|-------------|------------------------|-----|
| NH1AM69V16  | B227885     | 16          | 16-250A                | 3   |
| NH1AM69V25  | D227887     | 25          |                        | 3   |
| NH1AM69V32  | E227888     | 32          |                        | 3   |
| NH1AM69V35  | F227889     | 35          |                        | 3   |
| NH1AM69V40  | G227890     | 40          |                        | 3   |
| NH1AM69V50  | H227891     | 50          |                        | 3   |
| NH1AM69V63  | J227892     | 63          |                        | 3   |
| NH1AM69V80  | K227893     | 80          |                        | 3   |
| NH1AM69V100 | L227894     | 100         |                        | 3   |
| NH1AM69V125 | M227895     | 125         |                        | 3   |
| NH1AM69V160 | N227896     | 160         |                        | 3   |
| NH1AM69V200 | P227897     | 200         |                        | 3   |
| NH1AM69V224 | Q227898     | 224         |                        | 3   |
| NH1AM69V250 | R227899     | 250         |                        | 3   |

# NH FUSES

## Fusegear

### Size 1 - NH plastic base



| NO. OF POLES        | MOUNTING TYPE | CAT. NUMBER | REF. NUMBER | PKG |
|---------------------|---------------|-------------|-------------|-----|
| 1                   | DIN rail      | BB11PPR     | A223008     | 3   |
| 1                   | Screw         | BB11PP      | E218757     | 3   |
| 3                   | DIN rail      | BB13PPR     | Y201340     | 1   |
| 3                   | Screw         | BB13PP      | Y223006     | 1   |
| Insulating barriers |               | BB1-2PPCL   | J214690     | 2   |

## Accessories

### Pull handle



### Neutral link



| DESCRIPTION                  | CAT. NUMBER  | REF. NUMBER | PKG |
|------------------------------|--------------|-------------|-----|
| Neutral link size 1          | NH1NEUTRAL   | A219834     | 9   |
| Isolated neutral link size 1 | NH1DKNIFESGP | Y218107     | 12  |
| Pull handle                  | NHHANDLE     | P215592     | 5   |

various accessories available for FSD:  
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### Indication facilities

| CAT. NUMBER | ITEM NUMBER | DESIGN                                                                            | PKG     | WEIGHT |
|-------------|-------------|-----------------------------------------------------------------------------------|---------|--------|
| 1.000.852   | Q1002285    | indicator for switch door position micro switch, 1 change-over contact 5 A, 250 V | 1 piece | 90 g   |



### Locking and sealing devices/cover sealing device

| CAT. NUMBER | ITEM NUMBER | DESIGN                                                                         | PKG     | WEIGHT |
|-------------|-------------|--------------------------------------------------------------------------------|---------|--------|
| 1.000.155   | L229297     | cover sealing device-installation set for 00.ST8 1-, 2-, 4-pole and 1.ST8/RST8 | 1 piece | 10 g   |

## Fusegear

### IEC Switch fuse disconnecter: M250D



250A, NH fuses

| DESCRIPTION                    | CAT. NUMBER | REF. NUMBER | WEIGHT (G) | PKG |
|--------------------------------|-------------|-------------|------------|-----|
| Switch.fus 250A 0-1 0+3 pos.   | M250D03     | W1043276    | 3.93       | 1   |
| Switch.fus 250A 0-1 R side op. | M250D30S    | X1043277    | 4.15       | 1   |

### IEC Switch fuse disconnecter: M400D



400A, NH fuses

| DESCRIPTION                    | CAT. NUMBER | REF. NUMBER | WEIGHT (G) | PKG |
|--------------------------------|-------------|-------------|------------|-----|
| Switch.fus 400A 0-2 0+3 pos.   | M400D03     | Y1043278    | 7.1        | 1   |
| Switch.fus 400A 0-2 R side op. | M400D30S    | Z1043279    | 7.18       | 1   |

# NH FUSES

**Fusegear**

## MULTIBLOC® 1



**250A, 690VAC**

| CAT. NUMBER | REF. NUMBER | POLES | CABLE TERMINATION COMPONENTS | DESIGN                                                       | WEIGHT (KG) <sup>1</sup> | PKG |
|-------------|-------------|-------|------------------------------|--------------------------------------------------------------|--------------------------|-----|
| 1.000.388   | Q229876     | 1     | 2 M10 terminal screws        | ST8 - bottom fitting                                         | 1.00                     | 1   |
| 1.000.397   | R229877     | 2     | 4 M10 terminal screws        | ST8 - bottom fitting                                         | 2.06                     | 1   |
| 1.000.299   | S229878     | 3     | 6 M10 terminal screws        | ST8 - bottom fitting                                         | 2.42                     | 1   |
| 1.002.562   | W1023059    | 3     | 6 clamp straps 70-150mm²     | ST8 - bottom fitting                                         | 2.42                     | 1   |
| 1.002.711   | X1023060    | 3     | 6 M10 terminal screws        | ST8 - bottom fitting with electronic monitoring of fuse      | 2.64                     | 1   |
| 1.000.323   | T229879     | 3     | 3 M10 terminal screws        | RST8 - mounting on busbar                                    | 3.09                     | 1   |
| 1.001.294   | Q1023054    | 3     | 3 clamp straps 70-150mm²     | RST8 - mounting on busbar                                    | 3.06                     | 1   |
| 1.003.134   | R1023055    | 3     | 3 M10 terminal screws        | RST8 - mounting on busbar with electronic monitoring of fuse | 3.14                     | 1   |
| 1.000.405   | Y1023061    | 4     | 8 M10 terminal screws        | ST8 - bottom fitting                                         | 3.4                      | 1   |

## MULTIVERT® 250 A



1.100.000

1.170.000

**MULTIVERT® 250 A size 1 185 mm**

| CAT. NUMBER | REF. NUMBER | POLES  | CABLE TERMINATION COMPONENTS                | DESIGN                    | WEIGHT (KG) <sup>1</sup> | PKG |
|-------------|-------------|--------|---------------------------------------------|---------------------------|--------------------------|-----|
| 1.100.000   | H1002186    | 3 x 1P | 3 M10 bolts                                 | mounting on busbar 185 mm | 4.52                     | 1   |
| 1.110.000   | J1023163    | 3 x 1P | 3 M10 insert nuts                           | mounting on busbar 185 mm | 4.46                     | 1   |
| 1.120.000   | K1023164    | 3 x 1P | V-terminal for V-terminal clamps size 1,2,3 | mounting on busbar 185 mm | 4.38                     | 1   |
| 1.150.000   | L1002189    | 1 x 3P | 3 M10 bolts                                 | mounting on busbar 185 mm | 4.55                     | 1   |
| 1.160.000   | S1023171    | 1 x 3P | 3 M10 insert nuts                           | mounting on busbar 185 mm | 4.63                     | 1   |
| 1.170.000   | H1023185    | 1 x 3P | V-terminal for V-terminal clamps size 1,2,3 | mounting on busbar 185 mm | 4.55                     | 1   |

various accessories available for FSD:  
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<sup>1</sup>) Weight in kg per piece or set including package

# NH FUSES

## Size 2



gG

**400 VAC**

**Breaking capacity: 100 kA**

With double indication

| SIZE | CAT. NUMBER | REF. NUMBER | CURRENT (A) | WITH DOUBLE INDICATION | PKG |
|------|-------------|-------------|-------------|------------------------|-----|
| 2C   | NH2GG40V35  | T227257     | 35          | 35-400A                | 3   |
| 2C   | NH2GG40V50  | V227258     | 50          |                        | 3   |
| 2C   | NH2GG40V63  | W227259     | 63          |                        | 3   |
| 2C   | NH2GG40V80  | F223726     | 80          |                        | 3   |
| 2C   | NH2GG40V100 | G223727     | 100         |                        | 3   |
| 2C   | NH2GG40V125 | H223728     | 125         |                        | 3   |
| 2C   | NH2GG40V160 | J223729     | 160         |                        | 3   |
| 2C   | NH2GG40V200 | K223730     | 200         |                        | 3   |
| 2C   | NH2GG40V224 | L223731     | 224         |                        | 3   |
| 2C   | NH2GG40V250 | M223732     | 250         |                        | 3   |
| 2    | NH2GG40V315 | N223733     | 315         |                        | 3   |
| 2    | NH2GG40V355 | P223734     | 355         |                        | 3   |
| 2    | NH2GG40V400 | Q223735     | 400         |                        | 3   |

**500 VAC / 250 VDC**

**Breaking capacity: 120 kA / 80 kA**

With double indication

| SIZE | CAT. NUMBER | REF. NUMBER | CURRENT (A) | WITH DOUBLE INDICATION | PKG |
|------|-------------|-------------|-------------|------------------------|-----|
| 2C   | NH2GG50V25  | N200802     | 25          | 25-500A                | 3   |
| 2C   | NH2GG50V32  | D201345     | 32          |                        | 3   |
| 2C   | NH2GG50V35  | P201861     | 35          |                        | 3   |
| 2C   | NH2GG50V40  | M211082     | 40          |                        | 3   |
| 2C   | NH2GG50V50  | B211601     | 50          |                        | 3   |
| 2C   | NH2GG50V63  | Z212634     | 63          |                        | 3   |
| 2C   | NH2GG50V80  | C213649     | 80          |                        | 3   |
| 2C   | NH2GG50V100 | M214670     | 100         |                        | 3   |
| 2C   | NH2GG50V125 | T215688     | 125         |                        | 3   |
| 2C   | NH2GG50V160 | Y216704     | 160         |                        | 3   |
| 2C   | NH2GG50V200 | R217733     | 200         |                        | 3   |
| 2C   | NH2GG50V224 | Q218767     | 224         |                        | 3   |
| 2C   | NH2GG50V250 | R222494     | 250         |                        | 3   |
| 2    | NH2GG50V300 | P200803     | 300         |                        | 3   |
| 2    | NH2GG50V315 | E201346     | 315         |                        | 3   |
| 2    | NH2GG50V355 | Q201862     | 355         |                        | 3   |
| 2    | NH2GG50V400 | N211083     | 400         |                        | 3   |
| 2    | NH2GG50V425 | S228521     | 425         |                        | 3   |
| 2    | NH2GG50V500 | T228522     | 500         |                        | 3   |



gG

**690 VAC**

**Breaking capacity: 80 kA**

With double indication

| SIZE | CAT. NUMBER | REF. NUMBER | CURRENT (A) | WITH DOUBLE INDICATION | PKG |
|------|-------------|-------------|-------------|------------------------|-----|
| 2C   | NH2GG69V32  | H228489     | 32          | 32-355A                | 3   |
| 2C   | NH2GG69V35  | J228490     | 35          |                        | 3   |
| 2C   | NH2GG69V40  | K228491     | 40          |                        | 3   |
| 2C   | NH2GG69V50  | L228492     | 50          |                        | 3   |
| 2C   | NH2GG69V63  | M228493     | 63          |                        | 3   |
| 2C   | NH2GG69V80  | N228494     | 80          |                        | 3   |
| 2C   | NH2GG69V100 | P228495     | 100         |                        | 3   |
| 2C   | NH2GG69V125 | Q228496     | 125         |                        | 3   |
| 2C   | NH2GG69V160 | R228497     | 160         |                        | 3   |
| 2C   | NH2GG69V200 | S228498     | 200         |                        | 3   |
| 2C   | NH2GG69V224 | T228499     | 224         |                        | 3   |
| 2C   | NH2GG69V250 | V228500     | 250         |                        | 3   |
| 2    | NH2GG69V300 | W228501     | 300         |                        | 3   |
| 2    | NH2GG69V315 | X228502     | 315         |                        | 3   |
| 2    | NH2GG69V355 | Y228503     | 355         |                        | 3   |

# NH FUSES

## Size 2



aM

**500 VAC**

**Breaking capacity: 120 kA**

With double indication

| CAT. NUMBER | REF. NUMBER | CURRENT (A) | WITH DOUBLE INDICATION | PKG |
|-------------|-------------|-------------|------------------------|-----|
| NH2AM50V250 | K232516     | 25          | 25-500A                | 3   |
| NH2AM50V315 | L232517     | 315         |                        | 3   |
| NH2AM50V355 | M232518     | 355         |                        | 3   |
| NH2AM50V400 | N232519     | 400         |                        | 3   |
| NH2AM50V500 | C227978     | 500         |                        | 3   |



aR

**690 VAC**

**Breaking capacity: 170 kA**

With double indication

| CAT. NUMBER   | REF. NUMBER | CURRENT (A) | WITH DOUBLE INDICATION | PKG |
|---------------|-------------|-------------|------------------------|-----|
| NH2UD69V160PV | L320469     | 160         | 160-700A               | 3   |
| NH2UD69V200PV | N320471     | 200         |                        | 3   |
| NH2UD69V250PV | S320475     | 250         |                        | 3   |
| NH2UD69V315PV | X320479     | 315         |                        | 3   |
| NH2UD69V400PV | B320483     | 400         |                        | 3   |
| NH2UD69V500PV | F320487     | 500         |                        | 3   |
| NH2UD69V630PV | H320489     | 630         |                        | 3   |
| NH2UD69V700PV | J320490     | 700         |                        | 3   |



aM

**690 VAC**

**Breaking capacity: 80 kA**

With double indication

| CAT. NUMBER | REF. NUMBER | CURRENT (A) | WITH DOUBLE INDICATION | PKG |
|-------------|-------------|-------------|------------------------|-----|
| NH2AM69V35  | L227963     | 35          | 35-400A                | 3   |
| NH2AM69V40  | M227964     | 40          |                        | 3   |
| NH2AM69V50  | N227965     | 50          |                        | 3   |
| NH2AM69V63  | P227966     | 63          |                        | 3   |
| NH2AM69V80  | Q227967     | 80          |                        | 3   |
| NH2AM69V100 | R227968     | 100         |                        | 3   |
| NH2AM69V125 | S227969     | 125         |                        | 3   |
| NH2AM69V160 | T227970     | 160         |                        | 3   |
| NH2AM69V200 | V227971     | 200         |                        | 3   |
| NH2AM69V224 | W227972     | 224         |                        | 3   |
| NH2AM69V250 | X227973     | 250         |                        | 3   |
| NH2AM69V300 | Y227974     | 300         |                        | 3   |
| NH2AM69V315 | Z227975     | 315         |                        | 3   |
| NH2AM69V355 | A227976     | 355         |                        | 3   |
| NH2AM69V400 | B227977     | 400         |                        | 3   |

# NH FUSES

## Fusegear

### Size 2 - NH plastic base



| NO. OF POLES        | MOUNTING TYPE | CAT. NUMBER | REF. NUMBER | PKG |
|---------------------|---------------|-------------|-------------|-----|
| 1                   | DIN rail      | BB21PPR     | E211075     | 3   |
| 1                   | Screw         | BB21PP      | F201853     | 3   |
| 3                   | DIN rail      | BB23PPR     | D212109     | 1   |
| 3                   | Screw         | BB23PP      | B212107     | 1   |
| Insulating barriers |               | BB1-2PPCL   | J214690     | 2   |

## Accessories

### Pull handle



### Neutral link



| DESCRIPTION                  | CAT. NUMBER  | REF. NUMBER | PKG |
|------------------------------|--------------|-------------|-----|
| Neutral link size 2          | NH2NEUTRAL   | N222514     | 6   |
| Isolated neutral link size 2 | NH2DKNIFESGP | E200656     | 6   |
| Pull handle                  | NHHANDLE     | P215592     | 5   |



### Indication facilities

| CAT. NUMBER | ITEM NUMBER | DESIGN                                                                                  | PKG     | WEIGHT |
|-------------|-------------|-----------------------------------------------------------------------------------------|---------|--------|
| 1.000.852   | Q1002285    | indicator for switch door position<br>micro switch, 1 change-over contact<br>5 A, 250 V | 1 piece | 90 g   |

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### Locking and sealing devices/locking device for window



| CAT. NUMBER | ITEM NUMBER | DESIGN                                                                                | PKG     | WEIGHT |
|-------------|-------------|---------------------------------------------------------------------------------------|---------|--------|
| 1.000.150   | K229296     | locking device for window for 00.ST8 1-, 2-, 4-pole and 1/2.ST8/RST8 1 set = 3 pieces | 1 piece | 90 g   |

## Fusegear

### IEC Switch fuse disconnecter: M400D



### 400A, NH fuses

| DESCRIPTION                    | CAT. NUMBER | REF. NUMBER | WEIGHT (G) | PKG |
|--------------------------------|-------------|-------------|------------|-----|
| Switch.fus 400A 0-2 0+3 pos.   | M400D03     | Y1043278    | 7.1        | 1   |
| Switch.fus 400A 0-2 R side op. | M400D30S    | Z1043279    | 7.18       | 1   |

## Fusegear

### MULTIBLOC® 2



1.000.504

1.000.704

400A, 690VAC, 3 poles

| CAT. NUMBER | REF. NUMBER | POLES | CABLE TERMINATION COMPONENTS          | DESIGN                                                       | WEIGHT (KG) <sup>1</sup> | PKG |
|-------------|-------------|-------|---------------------------------------|--------------------------------------------------------------|--------------------------|-----|
| 1.000.504   | W1002129    | 3     | 6 M10 terminal screws                 | ST8 - bottom fitting                                         | 3.50                     | 1   |
| 1.002.563   | G1023069    | 3     | 6 clamp straps 120–240mm <sup>2</sup> | ST8 - bottom fitting                                         | 3.50                     | 1   |
| 1.002.712   | H1023070    | 3     | 6 M10 terminal screws                 | ST8 - bottom fitting with electronic monitoring of fuse      | 3.60                     | 1   |
| 1.000.704   | M1002167    | 3     | 3 M10 terminal screws                 | RST8 - mounting on busbar                                    | 4.77                     | 1   |
| 1.001.295   | C1023065    | 3     | 3 clamp straps 120–240mm <sup>2</sup> | RST8 - mounting on busbar                                    | 4.61                     | 1   |
| 1.003.135   | D1023066    | 3     | 3 M10 terminal screws                 | RST8 - mounting on busbar with electronic monitoring of fuse | 4.60                     | 1   |
| 1.001.688   | J1023071    | 4     | 8 M10 terminal screws                 | ST8 - bottom fitting                                         | 5.04                     | 1   |

### MULTIVERT® 400 A & MULTIVERT® i-Xtensio 400A



MULTIVERT® 400 A size 2 185 mm

| CAT. NUMBER | REF. NUMBER | POLES  | CABLE TERMINATION COMPONENTS                | DESIGN                    | WEIGHT (KG) <sup>1</sup> | PKG |
|-------------|-------------|--------|---------------------------------------------|---------------------------|--------------------------|-----|
| 1.200.000   | J1002187    | 3 x 1P | 3 M12 bolts                                 | mounting on busbar 185 mm | 4.44                     | 1   |
| 1.210.000   | Z1023200    | 3 x 1P | 3 M12 insert nuts                           | mounting on busbar 185 mm | 4.52                     | 1   |
| 1.220.000   | A1023201    | 3 x 1P | V-terminal for V-terminal clamps size 1,2,3 | mounting on busbar 185 mm | 4.38                     | 1   |
| 1.250.000   | M1002190    | 1 x 3P | 3 M12 bolts                                 | mounting on busbar 185 mm | 4.653                    | 1   |
| 1.260.000   | G1023207    | 1 x 3P | 3 M12 insert nuts                           | mounting on busbar 185 mm | 4.68                     | 1   |
| 1.270.000   | H1023208    | 1 x 3P | V-terminal for V-terminal clamps size 1,2,3 | mounting on busbar 185 mm | 4.439                    | 1   |

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MULTIVERT® i-Xtensio 400 A size 2 185 mm 3 x single pole switching



| CATALOG NUMBER | ITEM NUMBER | CABLE TERMINATION COMPONENTS                | DESIGN | WEIGHT (KG) <sup>1</sup> | PKG |
|----------------|-------------|---------------------------------------------|--------|--------------------------|-----|
| 7.200.000      | P1200130    | 3 M12 bolts                                 | -      | 5.1                      | 1   |
| 7.210.000      | Q1200131    | 3 M12 insert nuts                           | -      | 5.1                      | 1   |
| 7.220.000      | R1200132    | V-terminal for V-terminal clamps size 1,2,3 | -      | 5.1                      | 1   |

1) Weight in kg per piece or set including package

# NH FUSES

## Size 3



gG

**400 VAC**

**Breaking capacity: 100 kA**

With double indication

| SIZE | CAT. NUMBER | REF. NUMBER | CURRENT (A) | WITH DOUBLE INDICATION | PKG |
|------|-------------|-------------|-------------|------------------------|-----|
| 3C   | NH3GG40V250 | R223736     | 250         | 250-630A               | 1   |
| 3C   | NH3GG40V315 | S223737     | 315         |                        | 1   |
| 3C   | NH3GG40V400 | T223738     | 400         |                        | 1   |
| 3    | NH3GG40V500 | V223739     | 500         |                        | 1   |
| 3    | NH3GG40V630 | W223740     | 630         |                        | 1   |

**500 VAC / 250 VDC**

**Breaking capacity: 120 kA / 80 kA**

With double indication

| SIZE | CAT. NUMBER | REF. NUMBER | CURRENT (A) | WITH DOUBLE INDICATION | PKG |
|------|-------------|-------------|-------------|------------------------|-----|
| 3C   | NH3GG50V100 | S235168     | 100         | 100-630A               | 1   |
| 3C   | NH3GG50V125 | T235169     | 125         |                        | 1   |
| 3C   | NH3GG50V160 | V235170     | 160         |                        | 1   |
| 3C   | NH3GG50V200 | W235171     | 200         |                        | 1   |
| 3C   | NH3GG50V224 | V233744     | 224         |                        | 1   |
| 3C   | NH3GG50V250 | C211602     | 250         |                        | 1   |
| 3C   | NH3GG50V300 | A212635     | 300         |                        | 1   |
| 3C   | NH3GG50V315 | L213151     | 315         |                        | 1   |
| 3C   | NH3GG50V355 | K214162     | 355         |                        | 1   |
| 3C   | NH3GG50V400 | T215182     | 400         |                        | 1   |
| 3    | NH3GG50V425 | B216201     | 425         |                        | 1   |
| 3    | NH3GG50V450 | Z216705     | 450         |                        | 1   |
| 3    | NH3GG50V500 | M217223     | 500         |                        | 1   |
| 3    | NH3GG50V630 | S217734     | 630         |                        | 1   |

**690 VAC**

**Breaking capacity: 80 kA**

With double indication

| SIZE | CAT. NUMBER | REF. NUMBER | CURRENT (A) | WITH DOUBLE INDICATION | PKG |
|------|-------------|-------------|-------------|------------------------|-----|
| 3C   | NH3GG69V250 | Z228504     | 250         | 250-500A               | 1   |
| 3C   | NH3GG69V300 | A228505     | 300         |                        | 1   |
| 3C   | NH3GG69V315 | B228506     | 315         |                        | 1   |
| 3C   | NH3GG69V355 | C228507     | 355         |                        | 1   |
| 3    | NH3GG69V400 | D228508     | 400         |                        | 1   |
| 3    | NH3GG69V425 | E228509     | 425         |                        | 1   |
| 3    | NH3GG69V500 | F228510     | 500         |                        | 1   |



aM

**500 VAC**

**Breaking capacity: 120 kA**

With double indication

| CAT. NUMBER | REF. NUMBER | CURRENT (A) | WITH DOUBLE INDICATION | PKG |
|-------------|-------------|-------------|------------------------|-----|
| NH3AM50V315 | P232520     | 315         | 315-630A               | 1   |
| NH3AM50V355 | Q232521     | 355         |                        | 1   |
| NH3AM50V400 | R232522     | 400         |                        | 1   |
| NH3AM50V425 | S232523     | 425         |                        | 1   |
| NH3AM50V450 | T232524     | 450         |                        | 1   |
| NH3AM50V500 | V232525     | 500         |                        | 1   |
| NH3AM50V630 | M227987     | 630         |                        | 1   |



aM

**690 VAC**

**Breaking capacity: 80 kA**

With double indication

| CAT. NUMBER | REF. NUMBER | CURRENT (A) | WITH DOUBLE INDICATION | PKG |
|-------------|-------------|-------------|------------------------|-----|
| NH3AM69V250 | D227979     | 250         | 250-500A               | 1   |
| NH3AM69V300 | E227980     | 300         |                        | 1   |
| NH3AM69V315 | F227981     | 315         |                        | 1   |
| NH3AM69V355 | G227982     | 355         |                        | 1   |
| NH3AM69V400 | H227983     | 400         |                        | 1   |
| NH3AM69V425 | J227984     | 425         |                        | 1   |
| NH3AM69V450 | K227985     | 450         |                        | 1   |
| NH3AM69V500 | L227986     | 500         |                        | 1   |

# NH FUSES

## Size 3



aR

690 VAC

Breaking capacity: 170 kA

With double indication

| CAT. NUMBER    | REF. NUMBER | CURRENT (A) | WITH DOUBLE INDICATION | PKG |
|----------------|-------------|-------------|------------------------|-----|
| NH3UD69V315PV  | F320579     | 315         | 315-1000A              | 3   |
| NH3UD69V450PV  | M320585     | 450         |                        | 3   |
| NH3UD69V500PV  | P320587     | 500         |                        | 3   |
| NH3UD69V630PV  | R320589     | 630         |                        | 3   |
| NH3UD69V800PV  | T320591     | 800         |                        | 3   |
| NH3UD69V1000PV | W320593     | 1000        |                        | 3   |

## Fusegear

### Size 3 - NH plastic base



| NO. OF POLES        | MOUNTING TYPE | CAT. NUMBER | REF. NUMBER | PKG |
|---------------------|---------------|-------------|-------------|-----|
| 1                   | DIN rail      | BB31PPR     | X213644     | 3   |
| 1                   | Screw         | BB31PP      | W213643     | 3   |
| 3                   | DIN rail      | BB33PPR     | F214664     | 1   |
| 3                   | Screw         | BB33PP      | H215172     | 1   |
| Insulating barriers |               | BB3PPCL     | Q215708     | 2   |

## Accessories

### Pull handle



### Neutral link



| DESCRIPTION                  | CAT. NUMBER  | REF. NUMBER | PKG |
|------------------------------|--------------|-------------|-----|
| Neutral link size 3          | NH3NEUTRAL   | E223035     | 6   |
| Isolated neutral link size 3 | NH3DKNIFESGP | J201718     | 6   |
| Pull handle                  | NHHANDLE     | P215592     | 5   |



### Indication facilities

| CAT. NUMBER | ITEM NUMBER | DESIGN                                                                                  | PKG     | WEIGHT |
|-------------|-------------|-----------------------------------------------------------------------------------------|---------|--------|
| 1.000.852   | Q1002285    | indicator for switch door position<br>micro switch, 1 change-over contact<br>5 A, 250 V | 1 piece | 90 g   |

### Locking and sealing devices/locking device for window



| CAT. NUMBER | ITEM NUMBER | DESIGN                                                                                 | PKG     | WEIGHT |
|-------------|-------------|----------------------------------------------------------------------------------------|---------|--------|
| 1.000.150   | K229296     | locking device for window for 00.ST8 1-, 2-, 4-pole and 1./2.ST8/RST8 1 set = 3 pieces | 1 piece | 90 g   |

## Fusegear

### IEC Switch fuse disconnecter: M630D



#### 630A, NH fuses

| DESCRIPTION                  | CAT. NUMBER | REF. NUMBER | WEIGHT (G) | PKG |
|------------------------------|-------------|-------------|------------|-----|
| Switch.fus 630A 3 0+3 pos.   | M630D03     | A1043280    | 13         | 1   |
| Switch.fus 630A 3 R side op. | M630D30S    | B1043281    | 13.9       | 1   |

## MULTIBLOC® 3



1.001.125

#### 630A, 690VAC, 3 poles

| CAT. NUMBER | REF. NUMBER | POLES | CABLE TERMINATION COMPONENTS | DESIGN                                                  | WEIGHT (KG) <sup>1</sup> | PKG |
|-------------|-------------|-------|------------------------------|---------------------------------------------------------|--------------------------|-----|
| 1.001.125   | C1002135    | 3     | 6 M12 terminal screws        | ST8 - bottom fitting                                    | 4.94                     | 1   |
| 1.002.713   | M1023074    | 3     | 6 M12 terminal screws        | ST8 - bottom fitting with electronic monitoring of fuse | 5.50                     | 1   |
| 1.001.904   | N1023075    | 4     | 8 M12 terminal screws        | ST8 - bottom fitting                                    | 7.44                     | 1   |

## MULTIVERT® 630 A & MULTIVERT® i-Xtensio 630A



#### MULTIVERT® 630 A size 3 185 mm

| CAT. NUMBER | REF. NUMBER | POLES         | CABLE TERMINATION COMPONENTS                | DESIGN                    | WEIGHT (KG) <sup>1</sup> | PKG |
|-------------|-------------|---------------|---------------------------------------------|---------------------------|--------------------------|-----|
| 1.300.000   | K1002188    | 3 x 1P        | 3 M12 bolts                                 | mounting on busbar 185 mm | 5.43                     | 1   |
| 1.310.000   | W1023220    | 3 x 1P        | 3 M12 insert nuts                           | mounting on busbar 185 mm | 5.38                     | 1   |
| 1.320.000   | X1023221    | 3 x 1P        | V-terminal for V-terminal clamps size 1,2,3 | mounting on busbar 185 mm | 5.21                     | 1   |
| 1.350.000   | N1002191    | 1 x 3P        | 3 M12 bolts                                 | mounting on busbar 185 mm | 5.609                    | 1   |
| 1.360.000   | C1023249    | 1 x 3P        | 3 M12 insert nuts                           | mounting on busbar 185 mm | 5.57                     | 1   |
| 1.370.000   | D1023250    | 1 x 3P        | V-terminal for V-terminal clamps size 1,2,3 | mounting on busbar 185 mm | 5.39                     | 1   |
| 4.350.000   | G1056005    | 1 x 4P (3P+N) | 3 M12 bolts                                 | mounting on busbar 185mm  | 8.9                      | 1   |
| 4.370.000   | W1058272    | 1 x 4P (3P+N) | V-terminal for V-terminal clamps            | mounting on busbar 185mm  | 8.9                      | 1   |

various accessories available for FSD:  
visit [ep.mersen.com](http://ep.mersen.com)



#### MULTIVERT® i-Xtensio 630 A size 3 185 mm 3 x single pole switching

| CAT. NUMBER | ITEM NUMBER | CABLE TERMINATION COMPONENTS                | DESIGN | WEIGHT (KG) <sup>1</sup> | PKG |
|-------------|-------------|---------------------------------------------|--------|--------------------------|-----|
| 7.300.000   | X1200137    | 3 M12 bolts                                 | -      | 6                        | 1   |
| 7.310.000   | Y1200138    | 3 M12 insert nuts                           | -      | 6                        | 1   |
| 7.320.000   | Z1200139    | V-terminal for V-terminal clamps size 1,2,3 | -      | 6                        | 1   |

1) Weight in kg per piece or set including package

## Multifix 60



## D02 vertical fuse base E18



| TAILLE | CAT. NUMBER | REF. NUMBER | DESIGN                           | COND. |
|--------|-------------|-------------|----------------------------------|-------|
| D02    | 1.000.759   | H1026635    | D0 vertical fuse base with cover | 10    |

## Universal busbar carriers



1.002.100



1.002.103

| NB DE POLES | CAT.NUMBER | REF.NUMBER | DESIGN                                               | COND. |
|-------------|------------|------------|------------------------------------------------------|-------|
| 3           | 1.002.100  | J1026452   | universal busbar carrier for busbar thickness 5-10mm | 10    |
| 1           | 1.002.101  | K1026453   | universal busbar carrier attachable to 1.002.100     | 10    |
| 3           | 1.002.103  | J1026498   | end cover for universal busbar carrier               | 20    |

## Touch protection cover caps, terminal clamp plate



| CAT.NUMBER | REF.NUMBER | DESIGN                                                              | COND. |
|------------|------------|---------------------------------------------------------------------|-------|
| 1.000.771  | L1026431   | Protection cover 200x54x42 for clamps 1,5-35mm²                     | 2     |
| 1.000.773  | N1026433   | Protection cover 200x108x78 for clamps 16-185mm²                    | 2     |
| 1.000.774  | P1026434   | Bus bar protection plate 54mm                                       | 2     |
| 1.000.775  | N1026479   | Bus bar protection plate 108mm                                      | 2     |
| SAS01412   | E212041    | Terminal clamp plate complete 200x84x59mm for busbar thickness 5mm  | 1     |
| SAS01414   | Z211530    | Terminal clamp plate complete 200x84x59mm for busbar thickness 10mm | 1     |

## Universal terminal clamps



1.000.776



1.000.779



1.000.785

| BUSBAR THICKNESS | CAT.NUMBER | REF.NUMBER | DESIGN                   | COND. |
|------------------|------------|------------|--------------------------|-------|
| 5mm              | 1.000.776  | K200730    | Terminal clamp 1,5-16mm² | 10    |
| 5mm              | 1.000.777  | V1026462   | Terminal clamp 1,5-35mm² | 20    |
| 5mm              | 1.000.778  | W1026463   | Terminal clamp 1,5-50mm² | 20    |
| 5mm              | 1.000.779  | J201787    | Terminal clamp 16-70mm²  | 10    |
| 5mm              | 1.000.780  | V207524    | Terminal clamp 16-120mm² | 10    |
| 5mm              | 1.001.157  | G1026450   | Terminal clamp 16-185mm² | 3     |
| 10mm             | 1.000.781  | W219209    | Terminal clamp 1,5-16mm² | 10    |
| 10mm             | 1.000.782  | A1026490   | Terminal clamp 1,5-35mm² | 20    |
| 10mm             | 1.000.783  | B1026491   | Terminal clamp 1,5-50mm² | 20    |
| 10mm             | 1.000.784  | F222185    | Terminal clamp 16-70mm²  | 10    |
| 10mm             | 1.000.785  | B222940    | Terminal clamp 16-120mm² | 10    |
| 10mm             | 1.001.158  | H1026451   | Terminal clamp 16-185mm² | 3     |

## Multifix 60

### Component adapters for top terminal



| CAT.NUMBER | REF.NUMBER | DESIGN                                          | COND. |
|------------|------------|-------------------------------------------------|-------|
| 1.001.072  | S1026437   | Component adapter, terminal 3x4mm <sup>2</sup>  | 4     |
| 1.000.786  | Q1026435   | Component adapter, terminal 3x6mm <sup>2</sup>  | 4     |
| 1.001.073  | V1026439   | Component adapter, terminal 3x10mm <sup>2</sup> | 4     |
| 1.000.787  | R1026436   | Component adapter, terminal 3x16mm <sup>2</sup> | 4     |

### Universal supporting bars for component adapter



| CAT.NUMBER | REF.NUMBER | DESIGN                                          | COND. |
|------------|------------|-------------------------------------------------|-------|
| 1.000.790  | D1026493   | supporting bar width 45mm                       | 10    |
| 1.000.791  | E1026494   | supporting bar width 54mm                       | 10    |
| 1.000.792  | F1026495   | supporting bar width 63mm                       | 10    |
| 1.000.787  | R1026436   | Component adapter, terminal 3x16mm <sup>2</sup> | 4     |

### Busbar covers



| CAT.NUMBER | REF.NUMBER | DESIGN                       | COND. |
|------------|------------|------------------------------|-------|
| 1.000.931  | V218173    | Busbar cover for busbar 5mm  | 10    |
| 1.000.932  | X216128    | Busbar cover for busbar 10mm | 10    |

## MULTIVERT® 800A, 1260A

### Double Fuse Switch Disconnecter Size 2 and 3



1.400.000

**MULTIVERT® NH-double vertical fuse switch disconnecter 800 A single pole switching for NH-fuse links size 2**

| CAT. NUMBER | ITEM NUMBER | CABLE TERMINATION COMPONENTS            | PKG     | WEIGHT   |
|-------------|-------------|-----------------------------------------|---------|----------|
| 1.400.000   | W1023266    | triple cable termination<br>M12 bolt    | 1 piece | 11.6 kg  |
| 1.400.004   | X1023267    | quadruple cable termination<br>M12 bolt | 1 piece | 12.12 kg |

**MULTIVERT® NH-double vertical fuse switch disconnecter 1260 A single pole switching for NH-fuse links size 3**

| CAT. NUMBER | ITEM NUMBER | CABLE TERMINATION COMPONENTS            | PKG     | WEIGHT  |
|-------------|-------------|-----------------------------------------|---------|---------|
| 1.500.000   | S1023125    | triple cable termination<br>M12 bolt    | 1 piece | 13.3 kg |
| 1.500.004   | T1023126    | quadruple cable termination<br>M12 bolt | 1 piece | 13.8 kg |



1.450.000

**MULTIVERT® NH-double vertical fuse switch disconnecter 800 A triple pole switching for NH-fuse links size 2**

| CAT. NUMBER | ITEM NUMBER | CABLE TERMINATION COMPONENTS            | PKG     | WEIGHT  |
|-------------|-------------|-----------------------------------------|---------|---------|
| 1.450.000   | Y1023268    | triple cable termination<br>M12 bolt    | 1 piece | 11.9 kg |
| 1.450.004   | Z1023269    | quadruple cable termination<br>M12 bolt | 1 piece | 12.3 kg |

**MULTIVERT® NH-double vertical fuse switch disconnecter 1260 A triple pole switching for NH-fuse links size 3**

| CAT. NUMBER | ITEM NUMBER | CABLE TERMINATION COMPONENTS            | PKG     | WEIGHT  |
|-------------|-------------|-----------------------------------------|---------|---------|
| 1.550.000   | V1023127    | triple cable termination<br>M12 bolt    | 1 piece | 13.3 kg |
| 1.550.004   | W1023128    | quadruple cable termination<br>M12 bolt | 1 piece | 13.8 kg |

## HelioProtection® NH fuse-links 800VAC

### NH gR 800VAC

#### NH gR 800VAC Plain Blade



NH1GR80V125



NH2GR80V250

| CAT.NUMBER  | REF. NUMBER | RATED CURRENT<br>$I_N$ | PRE-ARCING<br>$I^2t$ | CLEARING<br>$I^2t$ AT RATED<br>VOLTAGE | POWER<br>DISSIPATION<br>AT $I_N$ | POWER<br>DISSIPATION<br>AT $0.7 \times I_N$ | WIDTH   | PCK | WEIGHT |
|-------------|-------------|------------------------|----------------------|----------------------------------------|----------------------------------|---------------------------------------------|---------|-----|--------|
| NH1GR80V50  | R1069101    | 50 A                   | 0.65 kA²s            | 7.76 kA²s                              | 11 W                             | 4.6 W                                       | 39.5 mm | 3   | 0.4 kg |
| NH1GR80V63  | S1069102    | 63 A                   | 1.46 kA²s            | 14.95 kA²s                             | 13 W                             | 5.4 W                                       | 39.5 mm | 3   | 0.4 kg |
| NH1GR80V80  | T1069103    | 80 A                   | 2.59 kA²s            | 24.3 kA²s                              | 15 W                             | 6.1 W                                       | 39.5 mm | 3   | 0.4 kg |
| NH1GR80V100 | V1069104    | 100 A                  | 4.61 kA²s            | 39.2 kA²s                              | 17 W                             | 7.2 W                                       | 39.5 mm | 3   | 0.4 kg |
| NH1GR80V125 | X1069106    | 125 A                  | 10.37 kA²s           | 79.1 kA²s                              | 18 W                             | 7.4 W                                       | 39.5 mm | 3   | 0.4 kg |
| NH1GR80V160 | Y1069107    | 160 A                  | 20 kA²s              | 134.5 kA²s                             | 23 W                             | 9.6 W                                       | 39.5 mm | 3   | 0.4 kg |
| NH2GR80V200 | Z1069108    | 200 A                  | 64.8 kA²s            | 234 kA²s                               | 27 W                             | 11.3 W                                      | 51 mm   | 3   | 0.7 kg |
| NH2GR80V250 | A1069109    | 250 A                  | 36.45 kA²s           | 400 kA²s                               | 31 W                             | 12.9 W                                      | 51 mm   | 3   | 0.7 kg |

#### NH gR 800VAC Direct mounting



NH1GR80V125B



NH2GR80V250B

| CAT.NUMBER   | REF. NUMBER | RATED CURRENT<br>$I_N$ | PRE-ARCING<br>$I^2t$ | CLEARING<br>$I^2t$ AT RATED<br>VOLTAGE | POWER<br>DISSIPATION<br>AT $I_N$ | POWER<br>DISSIPATION<br>AT $0.7 \times I_N$ | WIDTH   | PCK | WEIGHT |
|--------------|-------------|------------------------|----------------------|----------------------------------------|----------------------------------|---------------------------------------------|---------|-----|--------|
| NH1GR80V50B  | H1069093    | 50 A                   | 0.65 kA²s            | 7.76 kA²s                              | 11 W                             | 4.6 W                                       | 39.5 mm | 3   | 0.3 kg |
| NH1GR80V63B  | J1069094    | 63 A                   | 1.46 kA²s            | 14.95 kA²s                             | 13 W                             | 5.4 W                                       | 39.5 mm | 3   | 0.3 kg |
| NH1GR80V80B  | K1069095    | 80 A                   | 2.59 kA²s            | 24.3 kA²s                              | 15 W                             | 6.1 W                                       | 39.5 mm | 3   | 0.3 kg |
| NH1GR80V100B | L1069096    | 100 A                  | 4.61 kA²s            | 39.2 kA²s                              | 17 W                             | 7.2 W                                       | 39.5 mm | 3   | 0.3 kg |
| NH1GR80V125B | M1069097    | 125 A                  | 10.37 kA²s           | 79.1 kA²s                              | 18 W                             | 7.4 W                                       | 39.5 mm | 3   | 0.3 kg |
| NH1GR80V160B | N1069098    | 160 A                  | 20 kA²s              | 134.5 kA²s                             | 23 W                             | 9.6 W                                       | 39.5 mm | 3   | 0.3 kg |
| NH2GR80V200B | P1069099    | 200 A                  | 64.8 kA²s            | 234 kA²s                               | 27 W                             | 11.3 W                                      | 51 mm   | 3   | 0.6 kg |
| NH2GR80V250B | Q1069100    | 250 A                  | 36.45 kA²s           | 400 kA²s                               | 31 W                             | 12.9 W                                      | 51 mm   | 3   | 0.6 kg |

#### NH Fuse handle for NH fuse links size 00-4



NHHANDLE

| CAT.NUMBER   | REF. NUMBER | SIZE    | DESIGN                                                          | PCK | WEIGHT  |
|--------------|-------------|---------|-----------------------------------------------------------------|-----|---------|
| NHHANDLE     | P215592     | 00 to 4 | without arm protection to DIN VDE 0636-2, DIN VDE 608-4         | 5   | 0.28 kg |
| 08024.000000 | X216105     | 00 to 4 | with fire proof arm protection to DIN VDE 0636-2, DIN VDE 608-4 | 1   | 0.54 kg |



08024.000000

# NH FUSES SYSTEM

## MULTIBLOC® 800VAC

### NH horizontal Switch Disconnecter Size 1 and 2



8.000.299

#### MULTIBLOC® 1.ST8 size 1 160A, 800VAC bottom fitting, triple pole

| CAT. NUMBER | REF. NUMBER | POLES | CABLE TERMINATION COMPONENTS                       | PCK | WEIGHT  |
|-------------|-------------|-------|----------------------------------------------------|-----|---------|
| 8.000.299   | B1069363    | 3     | 6 M10 terminal screws                              | 1   | 2.42 kg |
| 8.001.239   | C1069364    | 3     | 3 clamp straps 70–150 mm²<br>3 M10 terminal screws | 1   | 2.42 kg |
| 8.002.562   | D1069365    | 3     | 6 clamp straps 70-150 mm²                          | 1   | 2.42 kg |



8.000.504

#### MULTIBLOC® 2.ST8 size 2 250A, 800VAC bottom fitting, triple pole

| CAT. NUMBER | REF. NUMBER | POLES | CABLE TERMINATION COMPONENTS                        | PCK | WEIGHT |
|-------------|-------------|-------|-----------------------------------------------------|-----|--------|
| 8.000.504   | E1069366    | 3     | 6 M10 terminal screws                               | 1   | 3.5 kg |
| 8.001.240   | F1069367    | 3     | 3 clamp straps 120–240 mm²<br>3 M10 terminal screws | 1   | 3.5 kg |
| 8.002.563   | G1069368    | 3     | 6 clamp straps 120–240 mm²                          | 1   | 3.5 kg |

## MULTIVERT® 800VAC

### NH Vertical Fuse Switch Disconnecter 160A, 800VAC Size 1



8.150.000

#### MULTIVERT® 800VAC 160A size 1 185 mm 1 x triple pole switching

| CATALOG NUMBER | ITEM NUMBER | CABLE TERMINATION COMPONENTS                | PCK     | WEIGHT  |
|----------------|-------------|---------------------------------------------|---------|---------|
| 8.150.000      | L1069372    | 3 M10 bolts                                 | 1 piece | 4.67 kg |
| 8.160.000      | M1069373    | 3 M10 insert nuts                           | 1 piece | 4.63 kg |
| 8.170.000      | N1069374    | V-terminal for V-terminal clamps size 1,2,3 | 1 piece | 4.55 kg |



8.100.000

#### MULTIVERT® 800VAC 160A size 1 185 mm 3 x single pole switching

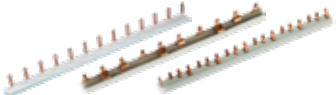
| CATALOG NUMBER | ITEM NUMBER | CABLE TERMINATION COMPONENTS                | PCK     | WEIGHT  |
|----------------|-------------|---------------------------------------------|---------|---------|
| 8.100.000      | H1069369    | 3 M10 bolts                                 | 1 piece | 4.52 kg |
| 8.110.000      | J1069370    | 3 M10 insert nuts                           | 1 piece | 4.46 kg |
| 8.120.000      | K1069371    | V-terminal for V-terminal clamps size 1,2,3 | 1 piece | 4.38 kg |

# DO FUSES AND FUSEGEAR OFFERING

## Low voltage DO fuses

| SIZE                                                                                                                                                                              | VOLTAGE | BREAKING CAPACITY | FUSES          |                | PAGES |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------|----------------|----------------|-------|
|                                                                                                                                                                                   |         |                   | GG             | AM             |       |
|                                                                                                                                                                                   |         |                   | W/O INDICATION | W/O INDICATION |       |
| D01<br>                                                                                          | 400VAC  | 50kA              | 2 - 16A        |                | 56-57 |
|                                                                                                                                                                                   | 250VDC  | 50kA              | 2 - 16A        |                |       |
| D02<br><br> | 400VAC  | 50kA              | 20 - 63A       |                | 57-59 |
|                                                                                                                                                                                   | 250VDC  | 50kA              | 20 - 63A       |                |       |
|                                                                                                                                                                                   | 440VAC  | 50kA              |                | 20 - 35A       |       |
| D03<br>                                                                                        | 400VAC  | 50kA              | 80 - 100A      |                | 59-60 |
|                                                                                                                                                                                   | 250VDC  | 50kA              | 80 - 100A      |                |       |

# Fusegear

| FUSEGEAR                                                                                            | FUSE BASE                                                                                                 |                                                                                                              | ACCESSORIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>Linocur®</p>   |  <p>Innozed D02/D02</p> |  <p>Neoazed fuse bases</p> |  <p>Fuse monitoring</p>  <p>Neoazed Screw caps porcelain</p>  <p>Neoazed Screw caps plastic</p>  <p>Neoazed Gauge rings</p>  <p>Neoazed space holder insert</p>  <p>Neoazed Special holding spring</p>  <p>Insulated wiring bars</p> |
|  <p>Linocur®</p> |                                                                                                           |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| -                                                                                                   | -                                                                                                         |                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| -                                                                                                   | -                                                                                                         |                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

# LOW VOLTAGE D0 FUSES

## Neozed gG - D01



**400 VAC - 250 VDC**  
**Breaking capacity: 50 kA**

| CAT. NUMBER | REF. NUMBER | CURRENT (A) | COLOR CODE | PKG |
|-------------|-------------|-------------|------------|-----|
| D01GG40V2   | T214676     | 2           | pink       | 50  |
| D01GG40V4   | W200809     | 4           | brown      | 50  |
| D01GG40V6   | B215695     | 6           | green      | 50  |
| D01GG40V10  | W211090     | 10          | red        | 50  |
| D01GG40V13  | C201206     | 13          | black      | 50  |
| D01GG40V16  | R223023     | 16          | grey       | 50  |

## Innozed - D01



**16 A, 400VAC, 1 pole E14**

| CAT. NUMBER  | REF. NUMBER | DESIGN                                                  | PKG |
|--------------|-------------|---------------------------------------------------------|-----|
| 04724.000000 | W1032489    | both sides double function clamp 1.5-35 mm <sup>2</sup> | 9   |



**16 A, 400VAC, 3 poles E14**

| CAT. NUMBER  | REF. NUMBER | DESIGN                                                  | PKG |
|--------------|-------------|---------------------------------------------------------|-----|
| 04734.000000 | X1032490    | both sides double function clamp 1.5-35 mm <sup>2</sup> | 3   |

## Fusegear - D01



**Neozed fuse bases w/o shock-proof protection-cover**

| NO. OF POLES | VOLTAGE (V) | CURRENT (A) | TERMINAL TYPE | FOR SNAP-ON FASTENING |             | FOR SCREW MOUNTING |             | PKG |
|--------------|-------------|-------------|---------------|-----------------------|-------------|--------------------|-------------|-----|
|              |             |             |               | CAT. NUMBER           | REF. NUMBER | CAT. NUMBER        | REF. NUMBER |     |
| 1            | 400VAC      | 16          | 1             | 01720.150000          | J200660     | 01720.100000       | Z216061     | 20  |
| 1            | 400VAC      | 16          | 3             | 01730.152000          | B216063     | -                  | -           | 20  |
| 3            | 400VAC      | 16          | 1             | -                     | -           | 01730.100000       | K200661     | 5   |

# LOW VOLTAGE D0 FUSES

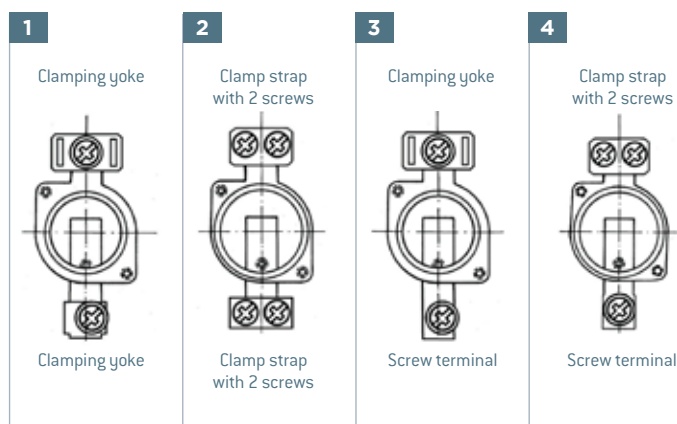
## Fusegear - D01



**Neozed fuse bases with shock-proof protection-cover**

| NO. OF POLES | VOLTAGE (V) | CURRENT (A) | TERMINAL TYPE | CAT. NUMBER  | REF. NUMBER | PKG |
|--------------|-------------|-------------|---------------|--------------|-------------|-----|
| 1            | 400VAC      | 16          | 1             | 01720.170000 | B211463     | 20  |
| 1            | 400VAC      | 16          | 3             | 01720.370000 | T215550     | 20  |
| 3            | 400VAC      | 16          | 1             | 01730.172000 | A219144     | 5   |

### Terminal type



## Neozed gG - D02



**400 VAC - 250 VDC**  
**Breaking capacity: 50 kA**

| CAT. NUMBER | REF. NUMBER | CURRENT (A) | COLOR CODE | PKG |
|-------------|-------------|-------------|------------|-----|
| D02GG40V20  | B217742     | 20          | blue       | 50  |
| D02GG40V25  | W213160     | 25          | yellow     | 50  |
| D02GG40V32  | S227647     | 32          | black      | 50  |
| D02GG40V35  | R219826     | 35          | black      | 50  |
| D02GG40V50  | D215191     | 50          | white      | 50  |
| D02GG40V63  | C201873     | 63          | copper     | 50  |

## Neozed aM - D02



**440 VAC**  
**Breaking capacity: 50 kA**

| CAT. NUMBER | REF. NUMBER | CURRENT (A) | COLOR CODE | PKG |
|-------------|-------------|-------------|------------|-----|
| D02AM44V20  | H211607     | 20          | blue       | 10  |
| D02AM44V25  | F212640     | 25          | yellow     | 10  |
| D02AM44V35  | J213655     | 35          | black      | 10  |

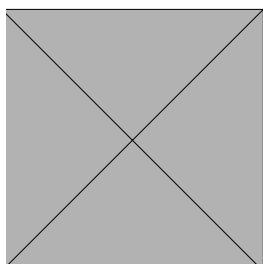
# LOW VOLTAGE D0 FUSES

## Fusegear - D02



### D0 Linocur® D02 230/400VAC, 65VDC

| CAT. NUMBER  | REF. NUMBER | CURRENT (A) | WIDTH  | NO. OF POLES | CROSS SECTION      | WEIGHT | PKG |
|--------------|-------------|-------------|--------|--------------|--------------------|--------|-----|
| 05861.063000 | Z1012620    | 63 A        | 27 mm  | 1            | 35 mm <sup>2</sup> | 138 g  | 3   |
| 05862.063000 | J1012606    | 63 A        | 54 mm  | 2            | 35 mm <sup>2</sup> | 279 g  | 2   |
| 05863.063000 | B1012622    | 63 A        | 81 mm  | 3            | 35 mm <sup>2</sup> | 418 g  | 1   |
| 05861.063100 | H1012628    | 63 A        | 54 mm  | 1+N          | 35 mm <sup>2</sup> | 253 g  | 2   |
| 05863.063100 | E1012602    | 63 A        | 108 mm | 3+N          | 35 mm <sup>2</sup> | 531 g  | 1   |



### D0 Linocur® D02 220VDC

| CAT. NUMBER  | REF. NUMBER | CURRENT (A) | WIDTH  | NO. OF POLES | CROSS SECTION      | WEIGHT | PKG |
|--------------|-------------|-------------|--------|--------------|--------------------|--------|-----|
| 05864.063000 | L1012608    | 63 A        | 108 mm | 4            | 35 mm <sup>2</sup> | 554 g  | 1   |

### D0 Linocur® D02 230VAC to 400VAC, 65VDC, fuse-links and gauge pieces

| CAT. NUMBER  | REF. NUMBER | CURRENT (A) | WIDTH | NO. OF POLES | CROSS SECTION      | WEIGHT | PKG |
|--------------|-------------|-------------|-------|--------------|--------------------|--------|-----|
| 05863.025000 | G1012627    | 25 A        | 81 mm | 3            | 35 mm <sup>2</sup> | 457 g  | 2   |
| 05863.035000 | E1012625    | 35 A        | 81 mm | 3            | 35 mm <sup>2</sup> | 475 g  | 1   |
| 05863.050000 | P1012611    | 50 A        | 81 mm | 3            | 35 mm <sup>2</sup> | 462 g  | 1   |



### Innozed - D02



#### 63 A, 400VAC, 1 pole E18

| CAT. NUMBER  | REF. NUMBER | DESIGN                                                  | PKG |
|--------------|-------------|---------------------------------------------------------|-----|
| 04725.000000 | Y1032491    | both sides double function clamp 1.5-35 mm <sup>2</sup> | 9   |

#### 63 A, 400VAC, 3 poles E18

| CAT. NUMBER  | REF. NUMBER | DESIGN                                                  | PKG |
|--------------|-------------|---------------------------------------------------------|-----|
| 04735.000000 | Z1032492    | both sides double function clamp 1.5-35 mm <sup>2</sup> | 3   |

# LOW VOLTAGE D0 FUSES

## Fusegear - D02



**Neozed fuse bases w/o shock-proof protection-cover**

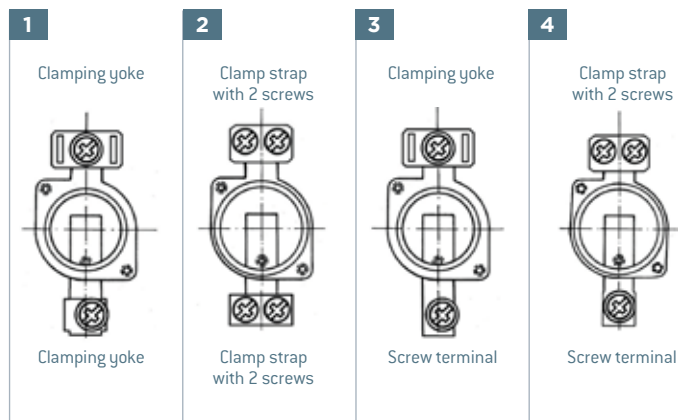
| NO. OF POLES | VOLTAGE (V) | CURRENT (A) | TERMINAL TYPE | FOR SNAP-ON FASTENING |             | FOR SCREW MOUNTING |             | PKG |
|--------------|-------------|-------------|---------------|-----------------------|-------------|--------------------|-------------|-----|
|              |             |             |               | CAT. NUMBER           | REF. NUMBER | CAT. NUMBER        | REF. NUMBER |     |
| 1            | 400VAC      | 63          | 2             | 01721.250000          | J218623     | 01721.200000       | M214532     | 20  |
| 1            | 400VAC      | 63          | 4             | 01721.450000          | W215552     | 01721.400000       | F213008     | 20  |
| 3            | 400VAC      | 63          | 2             | 01731.252000          | Y217601     | 01731.200000       | F216573     | 5   |



**Neozed fuse bases with shock-proof protection-cover**

| NO. OF POLES | VOLTAGE (V) | CURRENT (A) | TERMINAL TYPE | CAT. NUMBER  | REF. NUMBER | PKG |
|--------------|-------------|-------------|---------------|--------------|-------------|-----|
| 1            | 400VAC      | 63          | 2             | 01721.270000 | M200663     | 20  |
| 1            | 400VAC      | 63          | 4             | 01721.470000 | K218624     | 20  |
| 3            | 400VAC      | 63          | 2             | 01731.272000 | E222874     | 5   |
| 3            | 400VAC      | 63          | 4             | 01731.472000 | K213518     | 5   |

### Terminal type



## Neozed gG - D03



**400 VAC - 250 VDC**  
**Breaking capacity: 50 kA**

| CAT. NUMBER | REF. NUMBER | CURRENT (A) | COLOR CODE | PKG |
|-------------|-------------|-------------|------------|-----|
| D03GG40V80  | L216716     | 80          | silver     | 10  |
| D03GG40V100 | N212647     | 100         | red        | 10  |

# LOW VOLTAGE D0 FUSES

## Fusegear - D03



**Neozed fuse bases w/o shock-proof protection-cover**

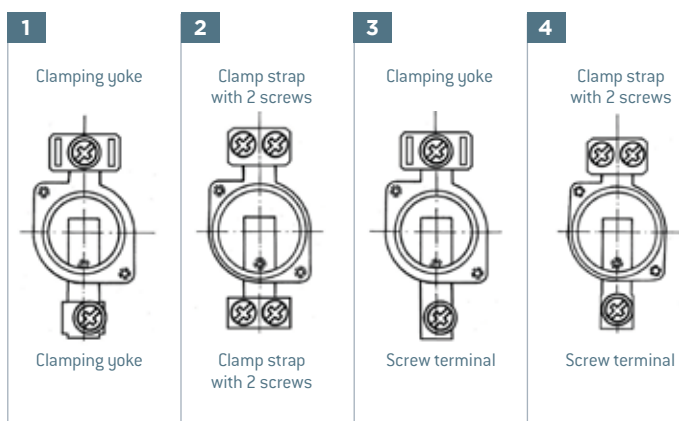
| NO. OF POLES | VOLTAGE (V) | CURRENT (A) | TERMINAL TYPE | FOR SNAP-ON FASTENING |             | FOR SCREW MOUNTING |             | PKG |
|--------------|-------------|-------------|---------------|-----------------------|-------------|--------------------|-------------|-----|
|              |             |             |               | CAT. NUMBER           | REF. NUMBER | CAT. NUMBER        | REF. NUMBER |     |
| 1            | 400VAC      | 100         | 4             | 01722.450000          | Q214535     | 01722.400000       | J213011     | 10  |



**Neozed fuse bases with shock-proof protection-cover**

| NO. OF POLES | VOLTAGE (V) | CURRENT (A) | TERMINAL TYPE | CAT. NUMBER  | REF. NUMBER | PKG |
|--------------|-------------|-------------|---------------|--------------|-------------|-----|
| 1            | 400VAC      | 100         | 4             | 01722.470000 | F216067     | 10  |

### Terminal type



## Accessories



**Neozed Screw caps porcelain**

| SIZE              | VOLTAGE (V) | CURRENT (A) | CAP THREAD | CAT. NUMBER  | REF. NUMBER | PKG |
|-------------------|-------------|-------------|------------|--------------|-------------|-----|
| with testing hole |             |             |            |              |             |     |
| D01               | 440VAC      | 16          | E 14       | 01710.000200 | H201211     | 20  |
| D02               | 440VAC      | 63          | E 18       | 01711.000200 | T215044     | 20  |
| D03               | 440VAC      | 100         | M30x2      | 01712.000200 | V215045     | 10  |



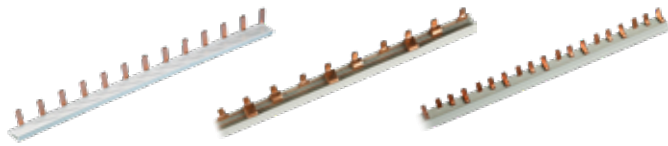
**Neozed Screw caps plastic**

| SIZE                              | VOLTAGE (V) | CURRENT (A) | CAP THREAD | CAT. NUMBER  | REF. NUMBER | PKG |
|-----------------------------------|-------------|-------------|------------|--------------|-------------|-----|
| with testing hole                 |             |             |            |              |             |     |
| D01                               | 400VAC      | 16          | E 14       | 01714.000200 | E212501     | 20  |
| D02                               | 400VAC      | 63          | E 18       | 01715.000200 | P211981     | 20  |
| with sealable hole & testing hole |             |             |            |              |             |     |
| D01                               | 400VAC      | 16          | E 14       | 11714.000220 | R214536     | 20  |
| D02                               | 400VAC      | 63          | E 18       | 11715.000220 | S214537     | 20  |

# LOW VOLTAGE D0 FUSES

## Accessories

### Insulated wiring bars



| CAT. NUMBER  | REF. NUMBER | DESIGN                                                                                      | WEIGHT | PKG |
|--------------|-------------|---------------------------------------------------------------------------------------------|--------|-----|
| 02963.000000 | M215107     | single pole, 16 mm <sup>2</sup> , partition 27 mm (distance of poles), peg Design, L-shaped | 190 g  | 50  |
| 22963.003000 | K302873     | triple pole, 16 mm <sup>2</sup> , partition 27 mm (distance of poles), peg Design, L-shaped | 590 g  | 10  |
| 22963.363000 | L302874     | triple pole, 35 mm <sup>2</sup> , partition 27 mm (distance of poles), peg Design, L-shaped | 590 g  | 10  |
| 02901.000000 | E302891     | end cap for single pole wiring bus bar                                                      | 1 g    | 10  |
| 02903.165000 | G302893     | end cap for triple pole wiring bus bars up to 16 mm <sup>2</sup>                            | 1 g    | 10  |
| 02903.350000 | R302902     | end cap for triple pole wiring bus bars up to 35 mm <sup>2</sup>                            | 1 g    | 10  |



### Communication

| CAT. NUMBER  | REF. NUMBER | DESIGN                                                                                             | WEIGHT | PKG |
|--------------|-------------|----------------------------------------------------------------------------------------------------|--------|-----|
| 05860.200000 | H1015204    | Monitoring Device, for fuse operation type 2, cross section 1,5mm <sup>2</sup>                     | -      | 1   |
| 05860.300000 | J1015205    | Monitoring Device, for switch position and fuse operation type 3, cross section 1,5mm <sup>2</sup> | -      | 1   |



### Neozed Gauge rings

| SIZE | CURRENT (A) | COLOR CODE | CAT. NUMBER  | REF. NUMBER | PKG |
|------|-------------|------------|--------------|-------------|-----|
| D01  | 2           | pink       | 01705.002000 | J216576     | 50  |
| D01  | 4           | brown      | 01705.004000 | J219681     | 50  |
| D01  | 6           | green      | 01705.006000 | P206438     | 50  |
| D01  | 10          | red        | 01705.010000 | M213014     | 50  |
| D02  | 2           | pink       | 01706.002000 | K216577     | 50  |
| D02  | 4           | brown      | 01706.004000 | S222127     | 50  |
| D02  | 6           | green      | 01706.006000 | R211983     | 50  |
| D02  | 10          | red        | 01706.010000 | H216069     | 50  |
| D02  | 16          | grey       | 01706.016000 | Q218629     | 50  |
| D02  | 20          | blue       | 01706.020000 | S200668     | 50  |
| D02  | 25          | yellow     | 01706.025000 | R213524     | 50  |
| D02  | 35          | black      | 01706.035000 | J216070     | 50  |
| D02  | 50          | white      | 01706.050000 | R218630     | 50  |
| D03  | 80          | silver     | 01707.080000 | T200669     | 20  |



### Neozed Special holding springs

| SIZE                         | VOLTAGE (V) | CAT. NUMBER  | REF. NUMBER | PKG |
|------------------------------|-------------|--------------|-------------|-----|
| D01 fuse-links in DL-socket  |             |              |             |     |
| D01->DL                      | 400VAC      | 01733.000000 | J218117     | 100 |
| D01 fuse-links in D02-socket |             |              |             |     |
| D01->D02                     | 400VAC      | 01713.000000 | Z215049     | 50  |
| D02 fuse-links in D03-socket |             |              |             |     |
| D02->D03                     | 400VAC      | 01709.000000 | P214028     | 25  |

### Neozed space holder insert



| SIZE                             | CAT. NUMBER  | REF. NUMBER | PKG |
|----------------------------------|--------------|-------------|-----|
| for D02 fuse-links in D03-socket |              |             |     |
| D02->D03                         | 01707.000000 | T211985     | 30  |



### D0 screw caps 400V AC synthetic

| CAT. NUMBER  | ITEM NUMBER | FEATURES                                                                           | PKG | WEIGHT |
|--------------|-------------|------------------------------------------------------------------------------------|-----|--------|
| 01713.700000 | W1016665    | Reduction Spring, for the use of D01 fuse-links in the bayonet screw cap. Size D01 | 10  | 1 g    |



### D0 cartridge ring adapter inserts D02 E18

| CAT. NUMBER  | ITEM NUMBER | APPLICATION                          | FEATURES  | PKG | WEIGHT |
|--------------|-------------|--------------------------------------|-----------|-----|--------|
| 01706.002000 | K216577     | For D01 fuse links in D02 fuse bases | 2A, pink  | 50  | 0.6 g  |
| 01706.004000 | S222127     | For D01 fuse links in D02 fuse bases | 4A, brown | 50  | 0.6 g  |
| 01706.006000 | R211983     | For D01 fuse links in D02 fuse bases | 6A, green | 50  | 0.6 g  |
| 01706.010000 | H216069     | For D01 fuse links in D02 fuse bases | 10A, red  | 50  | 0.6 g  |
| 01706.016000 | Q218629     | For D01 fuse links in D02 fuse bases | 16A, grey | 50  | 0.5 g  |

# BS88 FUSES AND FUSEGEAR OFFERING

## BS88 fuses

10x28 (250V)

17x27 (250V)

17x49 (690V)

|                                                                                                                           | FUSES            |              |            | PAGES |
|---------------------------------------------------------------------------------------------------------------------------|------------------|--------------|------------|-------|
|                                                                                                                           | VOLTAGE          | RATING       | TYPE       |       |
| Offset Bolted Tag Fuse Links<br>         | 415VAC<br>240VDC | 36 - 200M315 | Type A     | 64    |
| Central Bolted Tag Fuse Links<br>       | 415VAC<br>240VDC | 32 - 800     | Type B & C | 65    |
| Offset Blade/Offset Tag Fuse Links<br> | 550VAC<br>250VDC | 2 - 32M63    | Type F & A | 66    |
| Offset Bolted Tag Fuse Links<br>       | 690VAC<br>460VDC | 2 - 80M100   | Type A     | 67    |
| Central Bolted Tag Fuse Links<br>      | 690VAC<br>460VDC | 80 - 800     | Type B & C | 68    |

# Fusegear

## FUSE HOLDERS



BFF Front wire connected



BBB Back stud connected



BFB Front Back

# BS88 FUSES

## Offset Bolted Tag Fuse Links (A-type)



**415 VAC Breaking Capacity: 80 kA**  
**240/250 VDC Breaking Capacity: 40 kA**

| VOLTAGE (V)<br>BS TYPE REF | RATING<br>(A) | REFERENCE<br>NUMBER | CATALOGUE<br>NUMBER | BS TYPE<br>REF | STD.<br>PACK |
|----------------------------|---------------|---------------------|---------------------|----------------|--------------|
| 415VAC<br>240VDC           | 36            | M1045269J           | BTIS42V36           | A3             | 10           |
|                            | 40            | N1045270J           | BTIS42V40           | A3             | 10           |
|                            | 50            | P1045271J           | BTIS42V50           | A3             | 10           |
|                            | 63            | Q1045272J           | BTIS42V63           | A3             | 10           |
|                            | 80            | R1045273J           | BTIS42V80           | A3             | 10           |
|                            | 100           | S1045274J           | BTIS42V100          | A3             | 10           |
| 415VAC<br>240VDC           | 125           | L1019186J           | BTIS42V125          | A3             | 10           |
|                            | 160           | M1019187J           | BTIS42V160          | A3             | 10           |
|                            | 100M125       | N1019188J           | BTIS42V100M125      | A3             | 10           |
|                            | 100M160       | Q1019190J           | BTIS42V100M160      | A3             | 10           |
| 415VAC<br>240VDC           | 36            | T1045275J           | BTCP42V36           | A4C            | 10           |
|                            | 40            | Z1045280J           | BTCP42V40           | A4C            | 10           |
|                            | 50            | S1045297J           | BTCP42V50           | A4C            | 10           |
|                            | 63            | T1045298J           | BTCP42V63           | A4C            | 10           |
|                            | 80            | V1045299J           | BTCP42V80           | A4C            | 10           |
|                            | 100           | X1045301J           | BTCP42V100          | A4C            | 10           |
| 415VAC<br>240VDC           | 125           | W1019195J           | BTCP42V125          | A4             | 10           |
|                            | 160           | X1019196J           | BTCP42V160          | A4             | 10           |
|                            | 100M125       | A226297J            | BTCP42V100M125      | A4C            | 10           |
|                            | 100M160       | B226298J            | BTCP42V100M160      | A4C            | 10           |
|                            | 100M200       | C226299E            | BTCP42V100M200      | A4C            | 5            |
| 415VAC<br>240VDC           | 125           | D226300E            | BTFP42V125          | A4XC           | 5            |
|                            | 160           | E226301E            | BTFP42V160          | A4XC           | 5            |
|                            | 200           | F226302E            | BTFP42V200          | A4XC           | 5            |
|                            | 200M250       | G226303E            | BTFP42V200M250      | A4X            | 5            |
|                            | 200M315       | H226304E            | BTFP42V200M315      | A4X            | 5            |

# BS88 FUSES

## Central Bolted Tag Fuse Links (B & C-type)



**415 VAC Breaking Capacity: 80 kA**  
**240 VDC Breaking Capacity: 40 kA**

| VOLTAGE (V)      | RATING (A) | REFERENCE NUMBER | CATALOGUE NUMBER | BS TYPE REF | STD. PACK |
|------------------|------------|------------------|------------------|-------------|-----------|
| 415VAC<br>240VDC | 32         | J226305J         | BTBC42V32        | B1C         | 10        |
|                  | 40         | K226306J         | BTBC42V40        | B1C         | 10        |
|                  | 50         | L226307J         | BTBC42V50        | B1C         | 10        |
|                  | 63         | M226308J         | BTBC42V63        | B1C         | 10        |
| 415VAC<br>240VDC | 80         | Y1045302J        | BTC42V80         | B1C         | 10        |
|                  | 100        | Z1045303J        | BTC42V100        | B1C         | 10        |
| 415VAC<br>240VDC | 125        | E1019203J        | BTC42V125        | B1          | 10        |
|                  | 160        | F1019204J        | BTC42V160        | B1          | 10        |
|                  | 100M125    | Q226311J         | BTC42V100M125    | B1C         | 10        |
|                  | 100M160    | R226312J         | BTC42V100M160    | B1C         | 10        |
|                  | 100M200    | S226313E         | BTC42V100M200    | B1C         | 5         |
| 415VAC<br>240VDC | 125        | T226314E         | BTF42V125        | B2C         | 5         |
|                  | 160        | V226315E         | BTF42V160        | B2C         | 5         |
|                  | 200        | W226316E         | BTF42V200        | B2C         | 5         |
|                  | 200M250    | X226317A         | BTF42V200M250    | B2          | 1         |
|                  | 200M315    | Y226318A         | BTF42V200M315    | B2          | 1         |
| 415VAC<br>240VDC | 250        | Z226319A         | BTKF42V250       | B3          | 1         |
|                  | 315        | A226320A         | BTKF42V315       | B3          | 1         |
|                  | 315M400    | B226321A         | BTKF42V315M400   | B3          | 1         |
| 415VAC<br>240VDC | 250        | C226322A         | BTM42V250        | B3X         | 1         |
|                  | 315        | D226323A         | BTM42V315        | B3X         | 1         |
| 415VAC<br>240VDC | 355        | E226324A         | BTMF42V355       | B4          | 1         |
|                  | 400        | F226325A         | BTMF42V400       | B4          | 1         |
| 415VAC<br>240VDC | 355        | G226326A         | BTM42V355        | C1          | 1         |
|                  | 400        | H226327A         | BTM42V400        | C1          | 1         |
| 415VAC<br>240VDC | 450        | J226328A         | BTTM42V450       | C2          | 1         |
|                  | 500        | K226329A         | BTTM42V500       | C2          | 1         |
|                  | 560        | L226330A         | BTTM42V560       | C2          | 1         |
|                  | 630        | M226331A         | BTTM42V630       | C2          | 1         |
| 415VAC<br>240VDC | 670        | N226332A         | BTLM42V670       | C3          | 1         |
|                  | 710        | P226333A         | BTLM42V710       | C3          | 1         |
|                  | 750        | Q226334A         | BTLM42V750       | C3          | 1         |
|                  | 800        | R226335A         | BTLM42V800       | C3          | 1         |

# BS88 FUSES

## Offset Blade/Offset Tag Fuse Links (F & A-type)



**415/550 VAC Breaking Capacity: 80 kA**  
**250 VDC Breaking Capacity: 40 kA**

| VOLTAGE (V)      | RATING (A) | REFERENCE NUMBER | CATALOGUE NUMBER | BS TYPE REF | STD. PACK |
|------------------|------------|------------------|------------------|-------------|-----------|
| 550VAC<br>250VDC | 2          | C1006643J        | BNS55V2          | F1          | 10        |
|                  | 4          | D1006644J        | BNS55V4          | F1          | 10        |
|                  | 6          | E1006645J        | BNS55V6          | F1          | 10        |
|                  | 10         | N1019211J        | BNS55V10         | F1          | 10        |
|                  | 16         | P1019212J        | BNS55V16         | F1          | 10        |
|                  | 20         | Q1019213J        | BNS55V20         | F1          | 10        |
|                  | 25         | R1019214J        | BNS55V25         | F1          | 10        |
|                  | 32         | S1019215J        | BNS55V32         | F1          | 10        |
|                  | 10M16      | T1019216J        | BS55V10M16       | F1          | 10        |
|                  | 16M20      | V1019217J        | BNS55V16M20      | F1          | 10        |
|                  | 20M25      | W1019218J        | BNS55V20M25      | F1          | 10        |
|                  | 20M32      | X1019219J        | BNS55V20M32      | F1          | 10        |
| 550VAC           | 25M32      | Z1019221J        | BNS55V25M32      | F1          | 10        |
|                  | 2          | Y1050799J        | BES55V2*         | F2          | 10        |
|                  | 4          | Z1050800J        | BES55V4*         | F2          | 10        |
|                  | 6          | A1050801J        | BES55V6*         | F2          | 10        |
|                  | 10         | F1006646J        | BES55V10         | F2          | 10        |
|                  | 16         | G1006647J        | BES55V16         | F2          | 10        |
|                  | 20         | H1006648J        | BES55V20         | F2          | 10        |
|                  | 25         | J1006649J        | BES55V25         | F2          | 10        |
| 415VAC           | 32         | K1006650J        | BES55V32         | F2          | 10        |
|                  | 36         | L1006651J        | BES55V36         | F2          | 10        |
|                  | 40         | J226351J         | BES42V40         | F2          | 10        |
| 550VAC<br>250VDC | 50         | K226352J         | BES42V50         | F2          | 10        |
|                  | 63         | L226353J         | BES42V63         | F2          | 10        |
|                  | 2          | E1006576J        | BNIT55V2         | A1          | 10        |
|                  | 4          | F1006577J        | BNIT55V4         | A1          | 10        |
|                  | 6          | G1006578J        | BNIT55V6         | A1          | 10        |
|                  | 10         | B1019223J        | BNIT55V10        | A1          | 10        |
|                  | 16         | C1019224J        | BNIT55V16        | A1          | 10        |
|                  | 20         | D1019225J        | BNIT55V20        | A1          | 10        |
|                  | 25         | E1019226J        | BNIT55V25        | A1          | 10        |
|                  | 32         | F1019227J        | BNIT55V32        | A1          | 10        |
|                  | 10M16      | G1019228J        | BNIT55V10M16     | A1          | 10        |
|                  | 16M20      | H1019229J        | BNIT55V16M20     | A1          | 10        |
|                  | 20M25      | J1019230J        | BNIT55V20M25     | A1          | 10        |
|                  | 20M32      | K1019231J        | BNIT55V20M32     | A1          | 10        |
|                  | 25M32      | R1019237J        | BNIT55V25M32     | A1          | 10        |
| 550VAC<br>250VDC | 2          | S1019238J        | BTIA55V2         | A2C         | 10        |
|                  | 4          | T1019239J        | BTIA55V4         | A2C         | 10        |
|                  | 6          | V1019240J        | BTIA55V6         | A2C         | 10        |
|                  | 10         | W1019241J        | BTIA55V10        | A2C         | 10        |
|                  | 16         | X1019242J        | BTIA55V16        | A2C         | 10        |
|                  | 20         | Y1019243J        | BTIA55V20        | A2C         | 10        |
|                  | 25         | Z1019244J        | BTIA55V25        | A2C         | 10        |
|                  | 32         | A1019245J        | BTIA55V32        | A2C         | 10        |
|                  | 10M16      | B1019246J        | BTIA55V10M16     | A2C         | 10        |
|                  | 16M20      | C1019247J        | BTIA55V16M20     | A2C         | 10        |
|                  | 20M25      | D1019248J        | BTIA55V20M25     | A2C         | 10        |
|                  | 20M32      | E1019249J        | BTIA55V20M32     | A2C         | 10        |
|                  | 25M32      | F1019250J        | BTIA55V25M32     | A2C         | 10        |
| 415VAC<br>250VDC | 32M40      | G226280J         | BTIA42V32M40     | A2          | 10        |
|                  | 32M50      | H226251J         | BTIA42V32M50     | A2          | 10        |
|                  | 32M63      | K226283J         | BTIA42V32M63     | A2          | 10        |

Note that items marked with an \* are not ASTA Certified

# BS88 FUSES

## Offset Bolted Tag Fuse Links (A-type)



**690 VAC Breaking Capacity: 80 kA**  
**460 VDC Breaking Capacity: 40 kA**

| VOLTAGE (V)      | RATING (A) | REFERENCE NUMBER | CATALOGUE NUMBER | BS TYPE REF | STD. PACK |
|------------------|------------|------------------|------------------|-------------|-----------|
| 690VAC<br>460VDC | 2          | G1019251J        | BTIA69V2         | A2          | 10        |
|                  | 4          | H1019252J        | BTIA69V4         | A2          | 10        |
|                  | 6          | J1019253J        | BTIA69V6         | A2          | 10        |
|                  | 10         | K1019254J        | BTIA69V10        | A2          | 10        |
|                  | 16         | L1019255J        | BTIA69V16        | A2          | 10        |
|                  | 20         | M1019256J        | BTIA69V20        | A2          | 10        |
|                  | 25         | N1019257J        | BTIA69V25        | A2          | 10        |
|                  | 32         | P1019258J        | BTIA69V32        | A2          | 10        |
|                  | 10M16      | A1019751J        | BTIA69V10M16     | A2          | 10        |
|                  | 16M20      | B1019752J        | BTIA69V16M20     | A2          | 10        |
|                  | 20M25      | Q1019259J        | BTIA69V20M25     | A2          | 10        |
|                  | 20M32      | R1019260J        | BTIA69V20M32     | A2          | 10        |
|                  | 25M32      | C1019753J        | BTIA69V25M32     | A2          | 10        |
|                  | 36         | S1019261J        | BTIA69V36        | A2          | 10        |
|                  | 40         | T1019262J        | BTIA69V40        | A2          | 10        |
|                  | 50         | V1019263J        | BTIA69V50        | A2          | 10        |
|                  | 63         | W1019264J        | BTIA69V63        | A2          | 10        |
|                  | 32M36      | A1019268J        | BTIA69V32M36     | A2          | 10        |
|                  | 32M40      | X1019265J        | BTIA69V32M40     | A2          | 10        |
|                  | 32M50      | Y1019266J        | BTIA69V32M50     | A2          | 10        |
|                  | 32M63      | Z1019267J        | BTIA69V32M63     | A2          | 10        |
| 690VAC<br>460VDC | 36         | N1006584J        | BTIS69V36        | A3          | 10        |
|                  | 40         | P1006585J        | BTIS69V40        | A3          | 10        |
|                  | 50         | Q1006586J        | BTIS69V50        | A3          | 10        |
|                  | 63         | R1006587J        | BTIS69V63        | A3          | 10        |
|                  | 32M36      | C1019270J        | BTIS69V32M36     | A3          | 10        |
|                  | 32M40      | D1006598J        | BTIS69V32M40     | A3          | 10        |
|                  | 32M50      | E1006599J        | BTIS69V32M50     | A3          | 10        |
|                  | 32M63      | F1006600J        | BTIS69V32M63     | A3          | 10        |
| 690VAC<br>460VDC | 36         | H1019275J        | BTCP69V36        | A4C         | 10        |
|                  | 40         | M1006606J        | BTCP69V40        | A4C         | 10        |
|                  | 50         | N1006607J        | BTCP69V50        | A4C         | 10        |
|                  | 63         | J1019276J        | BTCP69V63        | A4C         | 10        |
|                  | 32M36      | K1019277J        | BTCP69V32M36     | A4C         | 10        |
|                  | 32M40      | L1019278J        | BTCP69V32M40     | A4C         | 10        |
|                  | 32M50      | M1019279J        | BTCP69V32M50     | A4C         | 10        |
|                  | 32M63      | N1019280J        | BTCP69V32M63     | A4C         | 10        |
|                  | 80         | S1006611J        | BTCP69V80        | A4          | 10        |
|                  | 100        | T1006612J        | BTCP69V100       | A4          | 10        |
|                  | 63M80      | V1006613J        | BTCP69V63M80     | A4          | 10        |
|                  | 63M100     | W1006614J        | BTCP69V63M100    | A4          | 10        |
|                  | 80M100     | Z1054365J        | BTCP69V80M100*   | A4          | 10        |

Note that items marked with an \* are not ASTA Certified

# BS88 FUSES

## Central Bolted Tag Fuse Links (B & C-type)



**690 VAC Breaking Capacity: 80 kA**  
**460 VDC Breaking Capacity: 40 kA**

| VOLTAGE (V)      | RATING (A) | REFERENCE NUMBER | CATALOGUE NUMBER | BS TYPE REF | STD. PACK |
|------------------|------------|------------------|------------------|-------------|-----------|
| 690VAC<br>460VDC | 80         | B1019775J        | BTC69V80         | B1          | 10        |
|                  | 100        | A1006618J        | BTC69V100        | B1          | 10        |
|                  | 63M80      | B1006619J        | BTC69V63M80      | B1          | 10        |
|                  | 63M100     | C1006620J        | BTC69V63M100     | B1          | 10        |
|                  | 80M100     | A1054366J        | BTC69V80M100*    | B1          | 10        |
| 690VAC<br>460VDC | 125        | D1006621E        | BTF69V125        | B2          | 5         |
|                  | 160        | E1006622E        | BTF69V160        | B2          | 5         |
|                  | 200        | F1006623E        | BTF69V200        | B2          | 5         |
|                  | 125M160    | G1006624E        | BTF69V125M160    | B2          | 5         |
|                  | 125M200    | H1006625E        | BTF69V125M200    | B2          | 5         |
| 690VAC<br>460VDC | 250        | P1036991A        | BTKF69V250       | B3          | 1         |
|                  | 315        | Q1036992A        | BTKF69V315       | B3          | 1         |
| 690VAC<br>460VDC | 250        | J1006626A        | BTMF69V250       | B4          | 1         |
|                  | 315        | K1006627A        | BTMF69V315       | B4          | 1         |
|                  | 355        | L1006628A        | BTMF69V355       | B4          | 1         |
|                  | 400        | M1006629A        | BTMF69V400       | B4          | 1         |
|                  | 315M400    | N1006630A        | BTMF69V315M400   | B4          | 1         |
| 690VAC<br>460VDC | 250        | P1006631A        | BTM69V250        | C1          | 1         |
|                  | 315        | R1006633A        | BTM69V315        | C1          | 1         |
|                  | 355        | S1006634A        | BTM69V355        | C1          | 1         |
|                  | 400        | W1006637A        | BTM69V400        | C1          | 1         |
| 690VAC           | 450        | Y1006639A        | BTTM69V450       | C2          | 1         |
|                  | 500        | Z1006640A        | BTTM69V500       | C2          | 1         |
|                  | 560        | A1006641A        | BTTM69V560       | C2          | 1         |
|                  | 630        | B1006642A        | BTTM69V630       | C2          | 1         |
| 690VAC           | 670        | D1019271A        | BTLM69V670       | C3          | 1         |
|                  | 710        | E1019272A        | BTLM69V710       | C3          | 1         |
|                  | 750        | F1019273A        | BTLM69V750       | C3          | 1         |
|                  | 800        | G1019274A        | BTLM69V800       | C3          | 1         |

Note that items marked with an \* are not ASTA Certified

# BS88 FUSE HOLDERS

## For Offset Blade & Bolted Tag Fuse Links

### For Offset Blade & Bolted Tag Fuse Links

Fuse holders from Mersen comply with BS88-1 and BS88-6: 1988. The fuse holders are designed to prevent direct contact with live parts when being inserted or removed, preventing any likelihood of inadvertent contact with live metal. Also, cable terminals within the fuse base are fully shrouded when holder is removed (product is IP2X Classified).

### Type Of Connection



**BFF Front wire connected**  
(front-front) 3 connection styles possible: Mounting on board with cable upstream and downstream



**BBB Back stud connected**  
(back-back) Mounting on board with two cables on the back (connection via lug. see table)



**BFB Front Back (busbar)**  
stud connected Mounting on board with upstream or downstream cable and back cable



### Advantage

1. DIN Rail Mounting for ease of assembly
2. Safety Shrouds
3. Options for colour and terminations
4. RoHs compliance

# BS88 FUSE HOLDERS

## For Offset Blade & Bolted Tag Fuse Links

| TYPE | VOLTAGE RATING (V) | NOMINAL CURRENT (A) | COLOR | CONNECTION  | REFERENCE NUMBER | CATALOGUE NUMBER | STANDARD PACK | MERSEN USE/NEUTRAL LINK TYPE |
|------|--------------------|---------------------|-------|-------------|------------------|------------------|---------------|------------------------------|
| F1   | 550                | 32                  | Black | Front-Front | A230138F         | BFF32F1          | 6             | BNS55Vxx                     |
| F1   | 550                | 32                  | Black | Back-Back   | N239120F         | BBB32F1          | 6             |                              |
| F1   | 550                | 32                  | Black | Front-Back  | B230139F         | BFB32F1          | 6             |                              |
| F1   | 550                | 32                  | Green | Front-Front | B1012553F        | BFF32F1G         | 6             |                              |
| F1   | 550                | 32                  | Green | Back-Back   | V1012547F        | BBB32F1G         | 6             |                              |
| F1   | 550                | 32                  | Green | Front-Back  | Y1012550F        | BFB32F1G         | 6             |                              |
| F1   | 550                | 32                  | White | Front-Front | P239121F         | BFF32F1W         | 6             | BNEUTRALF1                   |
| F1   | 550                | 32                  | White | Back-Back   | Q239122F         | BBB32F1W         | 6             |                              |
| F1   | 550                | 32                  | White | Front-Back  | R239123F         | BFB32F1W         | 6             |                              |
| F1   | 550                | 32                  | -     | -           | D239134J         | BNEUTRALF1       | 10            | -                            |
| F2   | 550                | 63                  | Black | Front-Front | S239124F         | BFF63F2          | 6             | BES55Vxx<br>BES42Vxx         |
| F2   | 550                | 63                  | Black | Back-Back   | T239125F         | BBB63F2          | 6             |                              |
| F2   | 550                | 63                  | Black | Front-Back  | V239126F         | BFB63F2          | 6             |                              |
| F2   | 550                | 63                  | Green | Front-Front | Z239130F         | BFF63F2G         | 6             |                              |
| F2   | 550                | 63                  | Green | Back-Back   | A239131F         | BBB63F2G         | 6             |                              |
| F2   | 550                | 63                  | Green | Front-Back  | B239132F         | BFB63F2G         | 6             |                              |
| F2   | 550                | 63                  | White | Front-Front | W239127F         | BFF63F2W         | 6             | BNEUTRALF2                   |
| F2   | 550                | 63                  | White | Back-Back   | X239128F         | BBB63F2W         | 6             |                              |
| F2   | 550                | 63                  | White | Front-Back  | Y239129F         | BFB63F2W         | 6             |                              |
| F2   | 550                | 63                  | -     | -           | E239135J         | BNEUTRALF2       | 10            | -                            |
| A1   | 550                | 32                  | Black | Front-Front | D239088F         | BFF32A1          | 6             | BNIT55Vxx                    |
| A1   | 550                | 32                  | Black | Back-Back   | E239089F         | BBB32A1          | 6             |                              |
| A1   | 550                | 32                  | Black | Front-Back  | F239090F         | BFB32A1          | 6             |                              |
| A1   | 550                | 32                  | Green | Front-Front | K239094F         | BFF32A1G         | 6             |                              |
| A1   | 550                | 32                  | Green | Back-Back   | L239095F         | BBB32A1G         | 6             |                              |
| A1   | 550                | 32                  | Green | Front-Back  | M239096F         | BFB32A1G         | 6             |                              |
| A1   | 550                | 32                  | White | Front-Front | G239091F         | BFF32A1W         | 6             | BNEUTRALA1                   |
| A1   | 550                | 32                  | White | Back-Back   | H239092F         | BBB32A1W         | 6             |                              |
| A1   | 550                | 32                  | White | Front-Back  | J239093F         | BFB32A1W         | 6             |                              |
| A1   | 550                | 32                  | -     | -           | F239136J         | BNEUTRALA1       | 10            | -                            |

| TYPE | VOLTAGE RATING (V) | NOMINAL CURRENT (A) | COLOR | CONNECTION  | REFERENCE NUMBER | CATALOGUE NUMBER | STANDARD PACK | MERSEN USE/NEUTRAL LINK TYPE                        |
|------|--------------------|---------------------|-------|-------------|------------------|------------------|---------------|-----------------------------------------------------|
| A2   | 690                | 32                  | Black | Front-Front | C230140F         | BFF32A2          | 6             | BTIA55Vxx<br>BTIA69Vxx                              |
| A2   | 690                | 32                  | Black | Back-Back   | P1012542F        | BBB32A2          | 6             |                                                     |
| A2   | 690                | 32                  | Black | Front-Back  | D230141F         | BFB32A2          | 6             |                                                     |
| A2   | 690                | 32                  | Green | Front-Front | Z1012551F        | BFF32A2G         | 6             |                                                     |
| A2   | 690                | 32                  | Green | Back-Back   | S1012545F        | BBB32A2G         | 6             |                                                     |
| A2   | 690                | 32                  | Green | Front-Back  | W1012548F        | BFB32A2G         | 6             |                                                     |
| A2   | 690                | 32                  | White | Front-Front | A1012552F        | BFF32A2W         | 6             | BNEUTRALA2                                          |
| A2   | 690                | 32                  | White | Back-Back   | T1012546F        | BBB32A2W         | 6             |                                                     |
| A2   | 690                | 32                  | White | Front-Back  | X1012549F        | BFB32A2W         | 6             |                                                     |
| A2   | 690                | 32                  | -     | -           | G239137J         | BNEUTRALA2       | 10            | -                                                   |
| A3   | 690                | 63                  | Black | Front-Front | F230143F         | BFF63A3          | 6             | BTSS42Vxx<br>BTSDS42Vxx<br>BTSDS42Vxxx<br>BTIS69Vxx |
| A3   | 690                | 63                  | Black | Back-Back   | V239103F         | BBB63A3          | 6             |                                                     |
| A3   | 690                | 63                  | Black | Front-Back  | G230144F         | BFB63A3          | 6             |                                                     |
| A3   | 690                | 63                  | Green | Front-Front | Z239107F         | BFF63A3G         | 6             |                                                     |
| A3   | 690                | 63                  | Green | Back-Back   | A239108F         | BBB63A3G         | 6             |                                                     |
| A3   | 690                | 63                  | Green | Front-Back  | B239109F         | BFB63A3G         | 6             |                                                     |
| A3   | 690                | 63                  | White | Front-Front | W239104F         | BFF63A3W         | 6             | BNEUTRALA3                                          |
| A3   | 690                | 63                  | White | Back-Back   | X239105F         | BBB63A3W         | 6             |                                                     |
| A3   | 690                | 63                  | White | Front-Back  | Y239106F         | BFB63A3W         | 6             |                                                     |
| A3   | 690                | 63                  | -     | -           | H239138J         | BNEUTRALA3       | 10            | -                                                   |
| A4   | 690                | 125                 | Black | Front-Front | H230145A         | BFF125A4         | 1             | BTSD42Vxxx<br>BTCP42Vxxx<br>BTCP69Vxxx              |
| A4   | 690                | 125                 | Black | Back-Back   | C239110A         | BBB125A4         | 1             |                                                     |
| A4   | 690                | 125                 | Black | Front-Back  | J230146A         | BFB125A4         | 1             |                                                     |
| A4   | 690                | 125                 | Green | Front-Front | K239117A         | BFF125A4G        | 1             |                                                     |
| A4   | 690                | 125                 | Green | Back-Back   | L239118A         | BBB125A4G        | 1             |                                                     |
| A4   | 690                | 125                 | Green | Front-Back  | M239119A         | BFB125A4G        | 1             |                                                     |
| A4   | 690                | 125                 | White | Front-Front | D239111A         | BFF125A4W        | 1             | BNEUTRALA4                                          |
| A4   | 690                | 125                 | White | Back-Back   | E239112A         | BBB125A4W        | 1             |                                                     |
| A4   | 690                | 125                 | White | Front-Back  | F239113A         | BFB125A4W        | 1             |                                                     |
| A4   | 690                | 125                 | -     | -           | J239139J         | BNEUTRALA4       | 10            | -                                                   |

# SURGE-TRAP® RANGE OVERVIEW

|              |                                                                                     | LOCATION                                                                       | TYPE ACCORDING TO IEC/EN 61643-11 | $I_{imp}$<br>(10/350 $\mu$ s) | $I_{max}$<br>(8/20 $\mu$ s) | $I_n$<br>(8/20 $\mu$ s) | $U_{oc}$<br>(1,2/50 $\mu$ s) |
|--------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------|-------------------------------|-----------------------------|-------------------------|------------------------------|
| STP T12      |    | Direct lightning impact exposure. AC                                           | Type 1 + 2                        | 12,5 kA<br>25 kA              | 50 kA<br>100 kA             | 20 kA<br>25 kA          | -                            |
| STP T2       |    | Second step of protection, induced overvoltages.                               | Type 2                            | -                             | 40 kA                       | 20 kA                   | -                            |
| STP EV       |    | Final stage (close to the EV charger)                                          | Type 1 + 2 + 3<br>Type 2 + 3      | 12,5 kA<br>-                  | 65 kA<br>50 kA              | 20 kA<br>20 kA          | 20 kA<br>20 kA               |
| STP T23      |  | Final stage of protection (fine)                                               | Type 2 + 3                        | -                             | 20 kA                       | 10 kA                   | 10 kV                        |
| STM T23 SLIM |  | Final stage of protection (compact)                                            | Type 2 + 3                        | -                             | 20 kA<br>6 kA               | 10 kA<br>3 kA           | 10 kV<br>6 kV                |
| STE T23 EMI  |  | Final stage of protection (EMI filter incl.)                                   | Type 2 + 3                        | -                             | 20 kA                       | 10 kA                   | 6 kV                         |
| STP T12 PV   |  | DC protection of highly exposed Photovoltaic systems, ESS. Incl. several MPPTs | Type 1 + 2                        | 5 kA                          | 40 kA                       | 20 kA<br>15 kA          | -                            |
| STP T2 PV    |  | Standard DC protection for Photovoltaic, ESS. Incl. several MPPTs              | Type 2                            | -                             | 40 kA                       | 20 kA<br>15 kA          | -                            |
| STS 485      |  | For RS485 lines in PV applications, etc.                                       | Type D1 & C2                      | 2,5 kA                        | 10 kA                       | 5 kA                    | -                            |

| SUPPLY VOLTAGE<br>UN (L-N/L-L)                                            | NETWORK CONFIGURATION | FORMAT                                  | STANDARDS                           | SPECIAL FEATURES                                                                                             | PAGES |
|---------------------------------------------------------------------------|-----------------------|-----------------------------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------|-------|
| 60 V<br>120/208 V<br>230/400 V<br>277/480 V<br>400/690 V                  | TNS, TNC, TT, IT      | DIN-rail mountable,<br>Pluggable format | IEC/EN 61643                        | ELV= Extra Low Voltage models available.<br>Multi-sparkgap<br>Reversible & coded cartridges                  | 74    |
| 48 V, 60 V<br>120/208 V<br>230/400 V<br>277/480 V<br>400/690 V<br>+ above | TNS, TNC, TT, IT      | DIN-rail mountable,<br>Pluggable format | IEC/EN 61643<br>UL 1449             | ELV= Extra Low Voltage models available.<br>Multi-sparkgap<br>Reversible & coded cartridges                  | 76    |
| 230 V<br>400 V                                                            | TT                    | DIN-rail mountable,<br>Pluggable format | IEC/EN 61643                        | Ideal for EV applications                                                                                    | 77    |
| 120/208 V<br>230/400 V<br>277/480 V<br>400 V                              | TNS, TNC, TT, IT      | DIN-rail mountable,<br>Pluggable format | IEC/EN 61643                        | PLC: Power Line Communication friendly solutions (LCF).<br>Reversible & coded cartridge                      | 78    |
| 120/208 V<br>230/400 V<br>277/480 V<br>400 V                              | Single phase TT, TNS  | DIN-rail mountable,<br>Monobloc format  | IEC/EN 61643                        | Ideal for limited spaces ( 1 module).                                                                        | 79    |
| 120 V, 230 V                                                              | Single phase TT, TNS  | DIN-rail mountable,<br>Monobloc format  | IEC/EN 61643                        | Filter attenuation up to 82dB (common mode) vs electromagnetic disturbances.<br>Rated current load up to 20A | 79    |
| 1060 VDC<br>1500 VDC                                                      | PV (DC side)          | DIN-rail mountable,<br>Pluggable format | EN 50539<br>IEC/EN 61643<br>UL 1449 | Iscpv= 10kA (no back-up fuse needed).<br>Reversible & coded cartridges                                       | 80    |
| 65 VDC<br>80 VDC<br>660 VDC<br>1060 VDC<br>1500 VDC                       | PV (DC side)          | DIN-rail mountable,<br>Pluggable format | EN 50539<br>IEC/EN 61643<br>UL 1449 | Iscpv= 10kA (no back-up fuse needed).<br>SCCR 100kA and 50kA.<br>Reversible & coded cartridges               | 81    |
| 6 V<br>12 V<br>24 V<br>48 V                                               | -                     | DIN-rail mountable,<br>Monobloc format  | IEC/EN 61643<br>UL 497B             | Operational bandwidth (fg) up to 10MHz                                                                       | 82    |

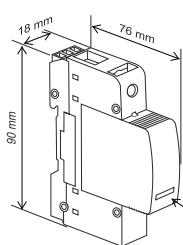
# SURGE-TRAP® TYPE 1+2 SPDS | STP T12 12.5

## STP T12 12.5

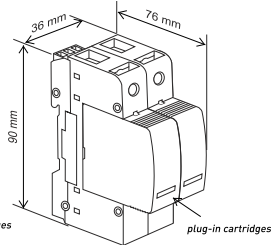
### Dimensions



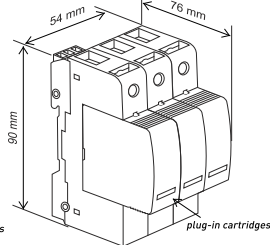
1 pole



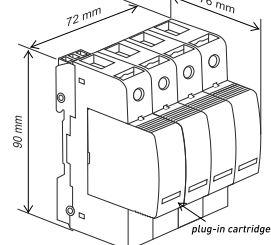
2 poles



3 poles



4 poles



### 1 pole

| REFERENCE NUMBER | CATALOGUE NUMBER   | SYSTEM TYPE | Un [Vac] | Uc [V] | Iimp (10/350) [kA] | Imax (8/20) [kA] | In (8/20) [kA] | Up@In (8/20) [kV] | REMOTE (M) | CARTRIDGE ID. |     |
|------------------|--------------------|-------------|----------|--------|--------------------|------------------|----------------|-------------------|------------|---------------|-----|
|                  |                    |             |          |        |                    |                  |                |                   |            | L             | N   |
| 83120102         | STPT12-12K275V-1P  | L-N (1Ph)   | 230      | 275    | 12.5               | 50               | 20             | ≤1.3              |            | C03           | -   |
| 83120103         | STPT12-12K275V-1PM | L-N (1Ph)   | 230      | 275    | 12.5               | 50               | 20             | ≤1.3              | ✓          | C03           | -   |
| 83120108         | STPT12-25K-N       | N-PE (N)    | Neutral  | 255    | 25                 | 50               | 25             | ≤1.5              |            | -             | C06 |
| 83120110         | STPT12-50K-N       | N-PE (N)    | Neutral  | 255    | 50                 | 50               | 50             | ≤1.5              |            | -             | C07 |

### 2 poles

| REFERENCE NUMBER | CATALOGUE NUMBER    | SYSTEM TYPE | Un [Vac] | Uc [V] | Iimp (10/350) [kA]      | Imax (8/20) [kA] | In (8/20) [kA] | Up@In (8/20) [kV]         | REMOTE (M) | CARTRIDGE ID. |     |
|------------------|---------------------|-------------|----------|--------|-------------------------|------------------|----------------|---------------------------|------------|---------------|-----|
|                  |                     |             |          |        |                         |                  |                |                           |            | L             | N   |
| 83120114         | STPT12-12K275V-2PG  | TT (1Ph+N)  | 230/-    | 275    | 12.5 (L-N)<br>25 (N-PE) | 50               | 20             | ≤1.3 (L-N)<br>≤1.5 (N-PE) |            | C03           | C06 |
| 83120115         | STPT12-12K275V-2PGM | TT (1Ph+N)  | 230/-    | 275    | 12.5 (L-N)<br>25 (N-PE) | 50               | 20             | ≤1.3 (L-N)<br>≤1.5 (N-PE) | ✓          | C03           | C06 |
| 83120120         | STPT12-12K275V-2P   | TNS (1Ph+N) | 230/-    | 275    | 12.5                    | 50               | 20             | ≤1.3                      |            | C03           |     |
| 83120121         | STPT12-12K275V-2PM  | TNS (1Ph+N) | 230/-    | 275    | 12.5                    | 50               | 20             | ≤1.3                      | ✓          | C03           |     |

ELV Extra Low Voltage, also for use in DC Photovoltaic self-consumption / off-grid applications.

### 3 poles

| REFERENCE NUMBER | CATALOGUE NUMBER   | SYSTEM TYPE | Un [Vac] | Uc [V] | Iimp (10/350) [kA] | Imax (8/20) [kA] | In (8/20) [kA] | Up@In (8/20) [kV] | REMOTE (M) | CARTRIDGE ID. |   |
|------------------|--------------------|-------------|----------|--------|--------------------|------------------|----------------|-------------------|------------|---------------|---|
|                  |                    |             |          |        |                    |                  |                |                   |            | L             | N |
| 83120130         | STPT12-12K275V-3P  | TNC (3Ph)   | -/400    | 275    | 12.5               | 50               | 20             | ≤1.3              |            | C03           | - |
| 83120131         | STPT12-12K275V-3PM | TNC (3Ph)   | -/400    | 275    | 12.5               | 50               | 20             | ≤1.3              | ✓          | C03           | - |

### 4 poles

| REFERENCE NUMBER | CATALOGUE NUMBER    | SYSTEM TYPE | Un [Vac] | Uc [V] | Iimp (10/350) [kA]      | Imax (8/20) [kA] | In (8/20) [kA] | Up@In (8/20) [kV]         | REMOTE (M) | CARTRIDGE ID. |     |
|------------------|---------------------|-------------|----------|--------|-------------------------|------------------|----------------|---------------------------|------------|---------------|-----|
|                  |                     |             |          |        |                         |                  |                |                           |            | L             | N   |
| 83120138         | STPT12-12K275V-4PG  | TT (3Ph+N)  | 230/400  | 275    | 12.5 (L-N)<br>50 (N-PE) | 50               | 20             | ≤1.3 (L-N)<br>≤1.5 (N-PE) |            | C03           | C07 |
| 83120139         | STPT12-12K275V-4PGM | TT (3Ph+N)  | 230/400  | 275    | 12.5 (L-N)<br>50 (N-PE) | 50               | 20             | ≤1.3 (L-N)<br>≤1.5 (N-PE) | ✓          | C03           | C07 |
| 83120144         | STPT12-12K275V-4P   | TNS (3Ph+N) | 230/400  | 275    | 12.5                    | 50               | 20             | ≤1.3                      |            | C03           |     |
| 83120145         | STPT12-12K275V-4PM  | TNS (3Ph+N) | 230/400  | 275    | 12.5                    | 50               | 20             | ≤1.3                      | ✓          | C03           |     |

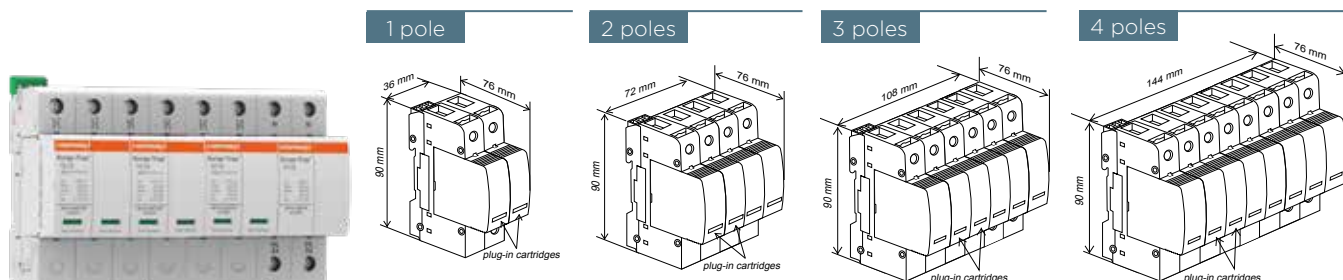
### Replacement cartridges

| REFERENCE NUMBER | CATALOGUE NUMBER | NETWORK   | Un [Vac] | Uc [V] | Iimp (10/350) [kA] | Imax (8/20) [kA] | In (8/20) [kA] | Up@In (8/20) [kV] | CARTRIDGE ID. |
|------------------|------------------|-----------|----------|--------|--------------------|------------------|----------------|-------------------|---------------|
| 83120002         | SP12-12K275V     | L-N (1Ph) | 230      | 275    | 12.5               | 50               | 20             | ≤1.3              | C03           |
| 83120005         | SP12-25K-N       | N-PE (N)  | Neutral  | 255    | 25                 | 50               | 25             | ≤1.5              | C06           |
| 83120006         | SP12-50K-N       | N-PE (N)  | Neutral  | 255    | 50                 | 50               | 50             | ≤1.5              | C07           |

# SURGE-TRAP® TYPE 1+2 SPDS | STP T12 25

## STP T12 25

### Dimensions



### 1 pole

| REFERENCE NUMBER | CATALOGUE NUMBER   | SYSTEM TYPE | Un [Vac] | Uc [V] | Iimp (10/350) [kA] | Imax (8/20) [kA] | In (8/20) [kA] | Up [kV] | REMOTE (M) | CARTRIDGE ID. |     |
|------------------|--------------------|-------------|----------|--------|--------------------|------------------|----------------|---------|------------|---------------|-----|
|                  |                    |             |          |        |                    |                  |                |         |            | L             | N   |
| 83120152         | STPT12-25K275V-1P  | L-N (1Ph)   | 230      | 275    | 25                 | 100              | 25             | ≤ 1,5   |            | C65           |     |
| 83120153         | STPT12-25K275V-1PM | L-N (1Ph)   | 230      | 275    | 25                 | 100              | 25             | ≤ 1,5   | ✓          | C65           |     |
| 83120166         | STPT12-100K-N      | N-PE (N)    | Neutral  | 255    | 100                | 100              | 50             | ≤ 1,5   |            |               | C66 |

### 2 poles

| REFERENCE NUMBER | CATALOGUE NUMBER    | SYSTEM TYPE | Un [Vac] | Uc [V] | Iimp (10/350) [kA] | Imax (8/20) [kA] | In (8/20) [kA] | Up [kV] | REMOTE (M) | CARTRIDGE ID. |     |
|------------------|---------------------|-------------|----------|--------|--------------------|------------------|----------------|---------|------------|---------------|-----|
|                  |                     |             |          |        |                    |                  |                |         |            | L             | N   |
| 83120156         | STPT12-25K275V-2P   | TNS (1Ph+N) | 230 / -  | 275    | 25                 | 100              | 25             | ≤ 1,5   |            | C65           |     |
| 83120157         | STPT12-25K275V-2PM  | TNS (1Ph+N) | 230 / -  | 275    | 25                 | 100              | 25             | ≤ 1,5   | ✓          | C65           |     |
| 83120154         | STPT12-25K275V-2PG  | TT (1Ph+N)  | 230 / -  | 275    | 25                 | 100              | 25             | ≤ 1,5   |            | C65           | C67 |
| 83120155         | STPT12-25K275V-2PGM | TT (1Ph+N)  | 230 / -  | 275    | 25                 | 100              | 25             | ≤ 1,5   | ✓          | C65           | C67 |

### 3 poles

| REFERENCE NUMBER | CATALOGUE NUMBER   | SYSTEM TYPE | Un [Vac] | Uc [V] | Iimp (10/350) [kA] | Imax (8/20) [kA] | In (8/20) [kA] | Up [kV] | REMOTE (M) | CARTRIDGE ID. |   |
|------------------|--------------------|-------------|----------|--------|--------------------|------------------|----------------|---------|------------|---------------|---|
|                  |                    |             |          |        |                    |                  |                |         |            | L             | N |
| 83120158         | STPT12-25K275V-3P  | TNC (3Ph)   | - / 400  | 275    | 25                 | 100              | 25             | ≤ 1,5   |            | C65           |   |
| 83120159         | STPT12-25K275V-3PM | TNC (3Ph)   | - / 400  | 275    | 25                 | 100              | 25             | ≤ 1,5   | ✓          | C65           |   |

### 4 poles

| REFERENCE NUMBER | CATALOGUE NUMBER    | SYSTEM TYPE | Un [Vac]  | Uc [V] | Iimp (10/350) [kA] | Imax (8/20) [kA] | In (8/20) [kA] | Up [kV] | REMOTE (M) | CARTRIDGE ID. |     |
|------------------|---------------------|-------------|-----------|--------|--------------------|------------------|----------------|---------|------------|---------------|-----|
|                  |                     |             |           |        |                    |                  |                |         |            | L             | N   |
| 83120160         | STPT12-25K275V-4P   | TNS (3Ph+N) | 230 / 400 | 275    | 25                 | 100              | 25             | ≤ 1,5   |            | C65           |     |
| 83120161         | STPT12-25K275V-4PM  | TNS (3Ph+N) | 230 / 400 | 275    | 25                 | 100              | 25             | ≤ 1,5   | ✓          | C65           |     |
| 83120150         | STPT12-25K275V-4PG  | TT (3Ph+N)  | 230 / 400 | 275    | 25                 | 100              | 25             | ≤ 1,5   |            | C65           | C66 |
| 83120151         | STPT12-25K275V-4PGM | TT (3Ph+N)  | 230 / 400 | 275    | 25                 | 100              | 25             | ≤ 1,5   | ✓          | C65           | C66 |

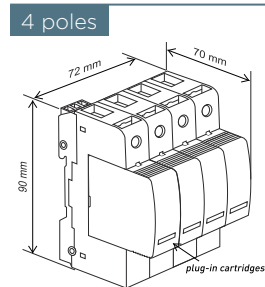
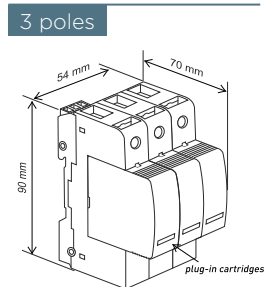
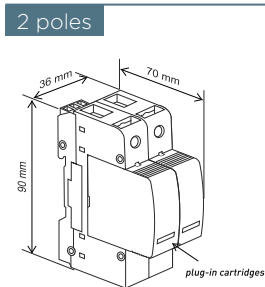
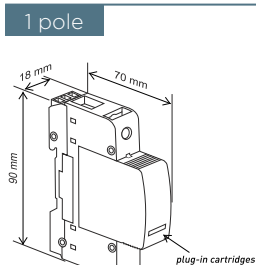
### Replacement cartridges

| REFERENCE NUMBER | CATALOGUE NUMBER | NETWORK   | Un [Vac] | Uc [V] | Iimp (10/350) [kA] | Imax (8/20) [kA] | In (8/20) [kA] | Up [kV] | CARTRIDGE ID. |
|------------------|------------------|-----------|----------|--------|--------------------|------------------|----------------|---------|---------------|
| 83120007         | SP12-25K275V     | L-N (1Ph) | 230      | 275    | 25                 | 100              | 25             | ≤ 1,5   | C65           |
| 83120009         | SP12-50K-2PN     | N-PE (N)  | Neutral  | 255    | 50                 | 100              | 25             | ≤ 1,5   | C66           |
| 83120008         | SP12-100K-N      | N-PE (N)  | Neutral  | 255    | 100                | 100              | 50             | ≤ 1,5   | C67           |

# SURGE-TRAP® TYPE 2 SPDS | STP T2 40

## STP T2 40

### Dimensions



### 1 pole

| REFERENCE NUMBER | CATALOGUE NUMBER  | SYSTEM TYPE | Un [VAC] | Uc [V] | Imax (8/20) [kA] | In (8/20) [kA] | Up@In (8/20) [kV] | REMOTE (M) | CARTRIDGE ID. |     |
|------------------|-------------------|-------------|----------|--------|------------------|----------------|-------------------|------------|---------------|-----|
|                  |                   |             |          |        |                  |                |                   |            | L             | N   |
| 83020106         | STPT2-40K275V-1P  | L-N (1Ph)   | 230      | 275    | 40               | 20             | ≤1.3              |            | C23           | -   |
| 83020107         | STPT2-40K275V-1PM | L-N (1Ph)   | 230      | 275    | 40               | 20             | ≤1.3              | √          | C23           | -   |
| 83020112         | STPT2-40K-N       | N-PE (N)    | Neutral  | 265    | 40               | 20             | ≤1.5              |            | -             | C27 |

### 2 poles

| REFERENCE NUMBER | CATALOGUE NUMBER   | SYSTEM TYPE | Un [VAC] | Uc [V] | Imax (8/20) [kA] | In (8/20) [kA] | Up@In (8/20) [kV]      | REMOTE (M) | CARTRIDGE ID. |     |
|------------------|--------------------|-------------|----------|--------|------------------|----------------|------------------------|------------|---------------|-----|
|                  |                    |             |          |        |                  |                |                        |            | L             | N   |
| 83020116         | STPT2-40K275V-2PG  | TT (1Ph+N)  | 230/-    | 275    | 40               | 20             | ≤1.3 (L-N) ≤1.5 (N-PE) |            | C23           | C27 |
| 83020117         | STPT2-40K275V-2PGM | TT (1Ph+N)  | 230/-    | 275    | 40               | 20             | ≤1.3 (L-N) ≤1.5 (N-PE) | √          | C23           | C27 |
| 83020122         | STPT2-40K275V-2P   | TNS (1Ph+N) | 230/-    | 275    | 40               | 20             | ≤1.3                   |            | C23           |     |
| 83020123         | STPT2-40K275V-2PM  | TNS (1Ph+N) | 230/-    | 275    | 40               | 20             | ≤1.3                   | √          | C23           |     |

ELV Extra Low Voltage, also for use in DC Photovoltaic self-consumption / off-grid applications.

### 3 poles

| REFERENCE NUMBER | CATALOGUE NUMBER  | SYSTEM TYPE | Un [VAC] | Uc [V] | Imax (8/20) [kA] | In (8/20) [kA] | Up@In (8/20) [kV] | REMOTE (M) | CARTRIDGE ID. |   |
|------------------|-------------------|-------------|----------|--------|------------------|----------------|-------------------|------------|---------------|---|
|                  |                   |             |          |        |                  |                |                   |            | L             | N |
| 83020134         | STPT2-40K275V-3P  | TNC (3Ph)   | -/400    | 275    | 40               | 20             | ≤1.3              |            | C23           | - |
| 83020135         | STPT2-40K275V-3PM | TNC (3Ph)   | -/400    | 275    | 40               | 20             | ≤1.3              | √          | C23           | - |

### 4 poles

| REFERENCE NUMBER | CATALOGUE NUMBER   | SYSTEM TYPE | Un [VAC] | Uc [V] | Imax (8/20) [kA] | In (8/20) [kA] | Up@In (8/20) [kV]      | REMOTE (M) | CARTRIDGE ID. |     |
|------------------|--------------------|-------------|----------|--------|------------------|----------------|------------------------|------------|---------------|-----|
|                  |                    |             |          |        |                  |                |                        |            | L             | N   |
| 83020146         | STPT2-40K275V-4PG  | TT (3Ph+N)  | 230/400  | 275    | 40               | 20             | ≤1.3 (L-N) ≤1.5 (N-PE) |            | C23           | C27 |
| 83020147         | STPT2-40K275V-4PGM | TT (3Ph+N)  | 230/400  | 275    | 40               | 20             | ≤1.3 (L-N) ≤1.5 (N-PE) | √          | C23           | C27 |
| 83020152         | STPT2-40K275V-4P   | TNS (3Ph+N) | 230/400  | 275    | 40               | 20             | ≤1.3                   |            | C23           |     |
| 83020153         | STPT2-40K275V-4PM  | TNS (3Ph+N) | 230/400  | 275    | 40               | 20             | ≤1.3                   | √          | C23           |     |

### Replacement cartridges

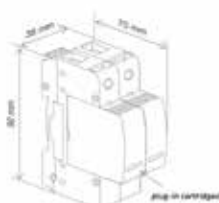
| REFERENCE NUMBER | CATALOGUE NUMBER | NETWORK   | Un [VAC] | Uc [V] | Imax (8/20) [kA] | In (8/20) [kA] | Up@In (8/20) [kV] | CARTRIDGE ID. |
|------------------|------------------|-----------|----------|--------|------------------|----------------|-------------------|---------------|
| 83020002         | SP2-40K275V      | L-N (1Ph) | 230      | 275    | 40               | 20             | ≤1.3              | C23           |
| 83020000         | SP2-40K-N        | N-PE (N)  | Neutral  | 265    | 40               | 20             | ≤1.5              | C27           |

# SURGE-TRAP® EV SPDS

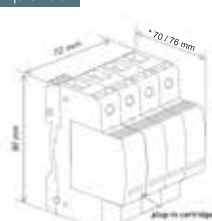
## STP EV

### Dimensions

2 poles



4 poles



\* T123 (76mm) / T23 (70mm)

## STP EV T123

4 poles

| REFERENCE NUMBER | CATALOGUE NUMBER         | SYSTEM TYPE | Un [Vac] | Uc [V]  | Iimp (10/350) [kA] | Imax (8/20) [kA] | In (8/20) [kA] | Uoc [kV] | Up@In (8/20) [kV]         | REMOTE (M) | CARTRIDGE ID. |     |
|------------------|--------------------------|-------------|----------|---------|--------------------|------------------|----------------|----------|---------------------------|------------|---------------|-----|
|                  |                          |             |          |         |                    |                  |                |          |                           |            | L             | N   |
| 83120263         | STPT123-12K275V-4PG-EV   | TT (3Ph+N)  | 230/400  | 255/275 | 12,5               | 65               | 20             | 20       | ≤1.3 (L-N)<br>≤1.5 (N-PE) |            | C10           | C12 |
| 83120264         | STPT123-12K275V-4PG-EV-M | TT (3Ph+N)  | 230/400  | 255/275 | 12,5               | 65               | 20             | 20       | ≤1.3 (L-N)<br>≤1.5 (N-PE) | ✓          | C10           | C12 |

### Replacement cartridges

| REFERENCE NUMBER | CATALOGUE NUMBER | SYSTEM TYPE | Un [Vac] | Uc [V] | Iimp (10/350) [kA] | Imax (8/20) [kA] | In (8/20) [kA] | Uoc [kV] | Up@In (8/20) [kV] | CARTRIDGE ID |
|------------------|------------------|-------------|----------|--------|--------------------|------------------|----------------|----------|-------------------|--------------|
| 83120030         | SP123-12K275V-EV | L-N (1Ph)   | 230      | 275    | 12,5               | 65               | 20             | 20       | ≤1.3              | C10          |
| 83120031         | SP123-50K-N-EV   | N-PE (N)    | Neutral  | 255    | 50                 | 65               | 50             | 20       | ≤1.5              | C12          |

## STP EV T23

2 poles

| REFERENCE NUMBER | CATALOGUE NUMBER        | SYSTEM TYPE | Un [Vac] | Uc [V] | Imax (8/20) [kA] | In (8/20) [kA] | Uoc [kV] | Up@In (8/20) [kV]         | REMOTE (M) | CARTRIDGE ID. |     |
|------------------|-------------------------|-------------|----------|--------|------------------|----------------|----------|---------------------------|------------|---------------|-----|
|                  |                         |             |          |        |                  |                |          |                           |            | L             | N   |
| 83020242         | STPT23-40K275V-2PG-EV   | TT (1Ph+N)  | 230/-    | 275    | 50               | 20             | 20       | ≤1.3 (L-N)<br>≤1.5 (N-PE) |            | C75           | C76 |
| 83020243         | STPT23-40K275V-2PG-EV-M | TT (1Ph+N)  | 230/-    | 275    | 50               | 20             | 20       | ≤1.3 (L-N)<br>≤1.5 (N-PE) | ✓          | C75           | C76 |

4 poles

| REFERENCE NUMBER | CATALOGUE NUMBER        | SYSTEM TYPE | Un [Vac] | Uc [V] | Imax (8/20) [kA] | In (8/20) [kA] | Uoc [kV] | Up@In (8/20) [kV]         | REMOTE (M) | CARTRIDGE ID. |     |
|------------------|-------------------------|-------------|----------|--------|------------------|----------------|----------|---------------------------|------------|---------------|-----|
|                  |                         |             |          |        |                  |                |          |                           |            | L             | N   |
| 83020209         | STPT23-40K275V-4PG-EV   | TT (3Ph+N)  | 230/400  | 275    | 50               | 20             | 20       | ≤1.3 (L-N)<br>≤1.5 (N-PE) |            | C75           | C76 |
| 83020210         | STPT23-40K275V-4PG-EV-M | TT (3Ph+N)  | 230/400  | 275    | 50               | 20             | 20       | ≤1.3 (L-N)<br>≤1.5 (N-PE) | ✓          | C75           | C76 |

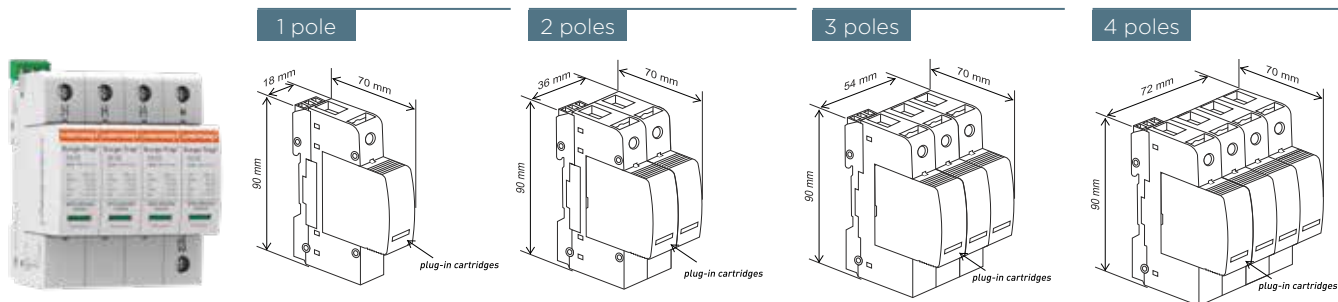
### Replacement cartridges

| REFERENCE NUMBER | CATALOGUE NUMBER | SYSTEM TYPE | Un [Vac] | Uc [V] | Imax (8/20) [kA] | In (8/20) [kA] | Uoc [kV] | Up@In (8/20) [kV] | CARTRIDGE ID |
|------------------|------------------|-------------|----------|--------|------------------|----------------|----------|-------------------|--------------|
| 83020024         | SP23-40K275V-EV  | L-N (1Ph)   | 230      | 275    | 50               | 20             | 20       | ≤1.3              | C75          |
| 83020025         | SP23-40K-N-EV    | N-PE (N)    | Neutral  | 265    | 50               | 50             | 20       | ≤1.5              | C76          |

# SURGE-TRAP® TYPE 2+3 SPDS | STP T23 20

## STP T23

### Dimensions



### 1 pole

| REFERENCE NUMBER | CATALOGUE NUMBER   | SYSTEM TYPE | Un [Vac] | Uc [V] | Imax (8/20) [kA] | In (8/20) [kA] | Uoc [kV] | Up@In (8/20) [kV] | REMOTE (M) | CARTRIDGE ID. |   |
|------------------|--------------------|-------------|----------|--------|------------------|----------------|----------|-------------------|------------|---------------|---|
|                  |                    |             |          |        |                  |                |          |                   |            | L             | N |
| 83230102         | STPT23-20K320V-1P  | L-N (1Ph)   | 230; 277 | 320    | 20               | 10             | 10       | ≤1.4              |            | C62           | - |
| 83230103         | STPT23-20K320V-1PM | L-N (1Ph)   | 230; 277 | 320    | 20               | 10             | 10       | ≤1.4              | √          | C62           | - |

### 2 poles

| REFERENCE NUMBER | CATALOGUE NUMBER    | SYSTEM TYPE | Un [Vac]     | Uc [V] | Imax (8/20) [kA] | In (8/20) [kA] | Uoc [kV] | Up@In (8/20) [kV]         | REMOTE (M) | CARTRIDGE ID. |     |
|------------------|---------------------|-------------|--------------|--------|------------------|----------------|----------|---------------------------|------------|---------------|-----|
|                  |                     |             |              |        |                  |                |          |                           |            | L             | N   |
| 83230112         | STPT23-20K320V-2PG  | TT (1Ph+N)  | 230/-; 277/- | 320    | 20               | 10             | 10       | ≤1.4 (L-N)<br>≤1.5 (N-PE) |            | C62           | C64 |
| 83230113         | STPT23-20K320V-2PGM | TT (1Ph+N)  | 230/-; 277/- | 320    | 20               | 10             | 10       | ≤1.4 (L-N)<br>≤1.5 (N-PE) | √          | C62           | C64 |
| 83230116         | STPT23-20K320V-2P   | TNS (1Ph+N) | 230/-; 277/- | 320    | 20               | 10             | 10       | ≤1.4                      |            | C62           |     |
| 83230117         | STPT23-20K320V-2PM  | TNS (1Ph+N) | 230/-; 277/- | 320    | 20               | 10             | 10       | ≤1.4                      | √          | C62           |     |

### 3 poles

| REFERENCE NUMBER | CATALOGUE NUMBER   | SYSTEM TYPE | Un [Vac]    | Uc [V] | Imax (8/20) [kA] | In (8/20) [kA] | Uoc [kV] | Up@In (8/20) [kV] | REMOTE (M) | CARTRIDGE ID. |   |
|------------------|--------------------|-------------|-------------|--------|------------------|----------------|----------|-------------------|------------|---------------|---|
|                  |                    |             |             |        |                  |                |          |                   |            | L             | N |
| 83230122         | STPT23-20K320V-3P  | TNC (3Ph)   | -400/-; 480 | 320    | 20               | 10             | 10       | ≤1.4              |            | C62           | - |
| 83230123         | STPT23-20K320V-3PM | TNC (3Ph)   | -400/-; 480 | 320    | 20               | 10             | 10       | ≤1.4              | √          | C62           | - |

### 4 poles

| REFERENCE NUMBER | CATALOGUE NUMBER    | SYSTEM TYPE | Un [Vac]         | Uc [V] | Imax (8/20) [kA] | In (8/20) [kA] | Uoc [kV] | Up@In (8/20) [kV]         | REMOTE (M) | CARTRIDGE ID. |     |
|------------------|---------------------|-------------|------------------|--------|------------------|----------------|----------|---------------------------|------------|---------------|-----|
|                  |                     |             |                  |        |                  |                |          |                           |            | L             | N   |
| 83230128         | STPT23-20K320V-4PG  | TT (3Ph+N)  | 230/400; 277/480 | 320    | 20               | 10             | 10       | ≤1.4 (L-N)<br>≤1.5 (N-PE) |            | C62           | C64 |
| 83230129         | STPT23-20K320V-4PGM | TT (3Ph+N)  | 230/400; 277/480 | 320    | 20               | 10             | 10       | ≤1.4 (L-N)<br>≤1.5 (N-PE) | √          | C62           | C64 |
| 83230132         | STPT23-20K320V-4P   | TNS (3Ph+N) | 230/400; 277/480 | 320    | 20               | 10             | 10       | ≤1.4                      |            | C62           |     |
| 83230133         | STPT23-20K320V-4PM  | TNS (3Ph+N) | 230/400; 277/480 | 320    | 20               | 10             | 10       | ≤1.4                      | √          | C62           |     |

### Replacement cartridges

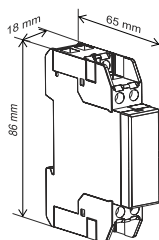
| REFERENCE NUMBER | CATALOGUE NUMBER | NETWORK   | Un [Vac] | Uc [V] | Imax (8/20) [kA] | In (8/20) [kA] | Uoc [kV] | Up@In (8/20) [kV] | CARTRIDGE ID. |
|------------------|------------------|-----------|----------|--------|------------------|----------------|----------|-------------------|---------------|
| 83230002         | SP23-20K320V     | L-N (1Ph) | 230; 277 | 320    | 20               | 10             | 10       | ≤1.4              | C62           |

# SURGE-TRAP® TYPE 2+3 SPDS | SLIM | EMI

## STM T23 SLIM

### Dimensions

2 poles



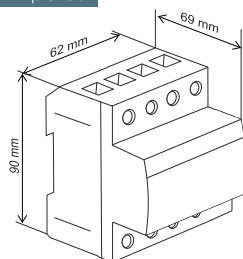
### 2 poles

| REFERENCE NUMBER | CATALOGUE NUMBER     | SYSTEM TYPE    | Un [Vac] | Uc [V] | I <sub>max</sub> (8/20) [kA] | In (8/20) [kA] | Uoc [kV] | Up@In (8/20) [kV]               | REMOTE (M) |
|------------------|----------------------|----------------|----------|--------|------------------------------|----------------|----------|---------------------------------|------------|
| 83230500         | STMT23-6K20V-SP-S    | TT/TNS (1Ph+N) | 12       | 20     | 6                            | 3              | 6        | ≤0.22 (L1-L2)<br>0.7 (L1/L2-PE) |            |
| 83230501         | STMT23-6K20V-SP-SM   | TT/TNS (1Ph+N) | 12       | 20     | 6                            | 3              | 6        | ≤0.22 (L1-L2)<br>0.7 (L1/L2-PE) | ✓          |
| 83230504         | STMT23-6K30V-SP-S    | TT/TNS (1Ph+N) | 24       | 30     | 6                            | 3              | 6        | ≤0.22 (L1-L2)<br>0.7 (L1/L2-PE) |            |
| 83230505         | STMT23-6K30V-SP-SM   | TT/TNS (1Ph+N) | 24       | 30     | 6                            | 3              | 6        | ≤0.22 (L1-L2)<br>0.7 (L1/L2-PE) | ✓          |
| 83230506         | STMT23-6K60V-SP-S    | TT/TNS (1Ph+N) | 48       | 60     | 6                            | 3              | 6        | ≤0.33 (L1-L2)<br>0.7 (L1/L2-PE) |            |
| 83230507         | STMT23-6K60V-SP-SM   | TT/TNS (1Ph+N) | 48       | 60     | 6                            | 3              | 6        | ≤0.33 (L1-L2)<br>0.7 (L1/L2-PE) | ✓          |
| 83230508         | STMT23-6K75V-SP-S    | TT/TNS (1Ph+N) | 60       | 75     | 6                            | 3              | 6        | ≤0.5 (L1-L2)<br>0.9 (L1/L2-PE)  |            |
| 83230509         | STMT23-6K75V-SP-SM   | TT/TNS (1Ph+N) | 60       | 75     | 6                            | 3              | 6        | ≤0.5 (L1-L2)<br>0.9 (L1/L2-PE)  | ✓          |
| 83230502         | STMT23-6K150V-SP-S   | TT/TNS (1Ph+N) | 120      | 150    | 6                            | 3              | 6        | ≤0.7 (L1-L2)<br>0.9 (L1/L2-PE)  |            |
| 83230503         | STMT23-6K150V-SP-SM  | TT/TNS (1Ph+N) | 120      | 150    | 6                            | 3              | 6        | ≤0.7 (L1-L2)<br>0.9 (L1/L2-PE)  | ✓          |
| 83230510         | STMT23-20K275V-SP-S  | TT/TNS (1Ph+N) | 230      | 275    | 20                           | 10             | 10       | ≤1.4 (L1-L2)<br>1.4 (L1/L2-PE)  |            |
| 83230511         | STMT23-20K275V-SP-SM | TT/TNS (1Ph+N) | 230      | 275    | 20                           | 10             | 10       | ≤1.4 (L1-L2)<br>1.4 (L1/L2-PE)  | ✓          |

## STE T23 EMI

### Dimensions

2 poles



### 2 poles

| REFERENCE NUMBER | CATALOGUE NUMBER   | SYSTEM TYPE    | Un [Vac] | Uc [V] | I <sub>max</sub> (8/20) [kA] | In (8/20) [kA] | Uoc [kV] | Up@In [kV] | IL [A] | REMOTE (M) |
|------------------|--------------------|----------------|----------|--------|------------------------------|----------------|----------|------------|--------|------------|
| 83230403         | STET23-20K275V-SPM | TT/TNS (1Ph+N) | 230      | 275    | 20                           | 10             | 6        | ≤1.2       | 20     | ✓          |

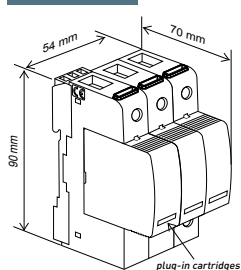
# SURGE-TRAP® DC TYPE 1+2 YPV PHOTOVOLTAIC SPD

## STP T12 PV

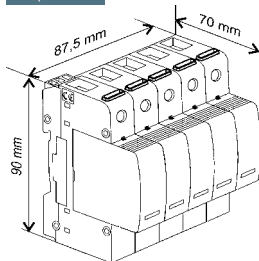
### Dimensions



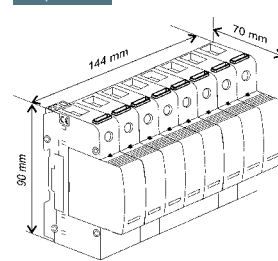
3 modules



5 poles



8 poles



### 3 poles

| REFERENCE NUMBER | CATALOG NUMBER      | SYSTEM TYPE | Ucpv [VDC] | Iscpv [kA] | Iimp (10/350) [kA] | Imax (8/20) [kA] | In (8/20) [kA] | Up@In (8/20) [kV] | REMOTE (M) | CARTRIDGE ID. L |
|------------------|---------------------|-------------|------------|------------|--------------------|------------------|----------------|-------------------|------------|-----------------|
| 83120167         | STPT12-5K1000V-YPV  | "Y" PV      | 1060       | 10         | 5                  | 40               | 20             | ≤ 4               |            | C43             |
| 83120168         | STPT12-5K1000V-YPVM | "Y" PV      | 1060       | 10         | 5                  | 40               | 20             | ≤ 4               | ✓          | C43             |
| 83120193         | STPT12-5K1500V-YPV  | "Y" PV      | 1500       | 10         | 5                  | 40               | 15             | ≤ 5               |            | C44             |
| 83120194         | STPT12-5K1500V-YPVM | "Y" PV      | 1500       | 10         | 5                  | 40               | 15             | ≤ 5               | ✓          | C44             |

### 5 poles

| REFERENCE NUMBER | CATALOG NUMBER       | SYSTEM TYPE | Ucpv [VDC] | Iscpv [kA] | Iimp (10/350) [kA] | Imax (8/20) [kA] | In (8/20) [kA] | Up@In (8/20) [kV] | REMOTE (M) | CARTRIDGE ID. L |
|------------------|----------------------|-------------|------------|------------|--------------------|------------------|----------------|-------------------|------------|-----------------|
| 83120192         | STPT12-5K1000V-5YPVM | 3+, 1-, 1PE | 1060       | 10         | 5                  | 40               | 20             | ≤ 4               | ✓          | C43             |

### 8 poles

| REFERENCE NUMBER | CATALOG NUMBER       | SYSTEM TYPE | Ucpv [VDC] | Iscpv [kA] | Iimp (10/350) [kA] | Imax (8/20) [kA] | In (8/20) [kA] | Up@In (8/20) [kV] | REMOTE (M) | CARTRIDGE ID. L |
|------------------|----------------------|-------------|------------|------------|--------------------|------------------|----------------|-------------------|------------|-----------------|
| 83120190         | STPT12-5K1000V-8YPVM | 6+, 1-, 1PE | 1060       | 10         | 5                  | 40               | 20             | ≤ 4               | ✓          | C43             |

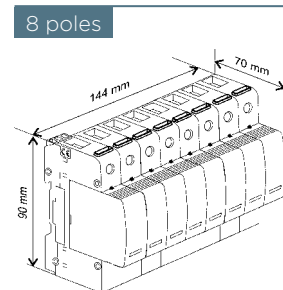
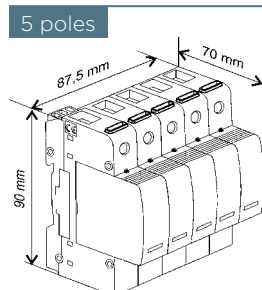
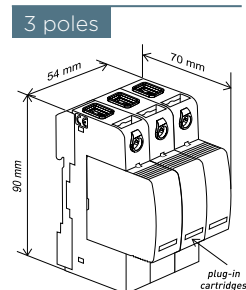
### Replacement cartridges

| REFERENCE NUMBER | CATALOG NUMBER  | NETWORK | Ucpv [VDC] | Iimp (10/350) [kA] | Imax (8/20) [kA] | In (8/20) @UP [kA] | Up@In (8/20) [kV] | CARTRIDGE ID. |
|------------------|-----------------|---------|------------|--------------------|------------------|--------------------|-------------------|---------------|
| 83120011         | SP12-5K1000V-PV | PV      | 530        | 5                  | 40               | 20                 | ≤ 2               | C43           |

# SURGE-TRAP® DC TYPE 2 YPV PHOTOVOLTAIC SPD

## STP T2 PV

### Dimensions



### 3 poles

| REFERENCE NUMBER | CATALOG NUMBER      | SYSTEM TYPE | Ucpv [VDC] | Iscpv [kA] | I <sub>max</sub> (8/20) [kA] | In (8/20) [kA] | Up@In (8/20) [kV] | REMOTE (M) | CARTRIDGE ID. L |
|------------------|---------------------|-------------|------------|------------|------------------------------|----------------|-------------------|------------|-----------------|
| 83020138         | STPT2-40K600V-YPV   | "Y" PV      | 660        | 10         | 40                           | 20             | ≤2.6              |            | C40             |
| 83020139         | STPT2-40K600V-YPVM  | "Y" PV      | 660        | 10         | 40                           | 20             | ≤2.6              | ✓          | C40             |
| 83020140         | STPT2-40K1000V-YPV  | "Y" PV      | 1060       | 10         | 40                           | 20             | ≤4                |            | C41             |
| 83020141         | STPT2-40K1000V-YPVM | "Y" PV      | 1060       | 10         | 40                           | 20             | ≤4                | ✓          | C41             |
| 83020158         | STPT2-40K1500V-YPV  | "Y" PV      | 1500       | 10         | 40                           | 15             | ≤5                |            | C42             |
| 83020159         | STPT2-40K1500V-YPVM | "Y" PV      | 1500       | 10         | 40                           | 15             | ≤5                | ✓          | C42             |

### 5 poles

| REFERENCE NUMBER | CATALOG NUMBER       | SYSTEM TYPE | Ucpv [VDC] | Iscpv [A] | I <sub>max</sub> (8/20) [kA] | In (8/20) [kA] | Up@In (8/20) [kV] | REMOTE (M) | CARTRIDGE ID. L |
|------------------|----------------------|-------------|------------|-----------|------------------------------|----------------|-------------------|------------|-----------------|
| 83020188         | STPT2-40K1000V-5YPVM | 3+, 1-, 1PE | 1060       | 10        | 40                           | 20             | 4                 | ✓          | C02             |

### 8 poles

| REFERENCE NUMBER | CATALOG NUMBER       | SYSTEM TYPE | Ucpv [VDC] | Iscpv [A] | I <sub>max</sub> (8/20) [kA] | In (8/20) [kA] | Up@In (8/20) [kV] | REMOTE (M) | CARTRIDGE ID. L |
|------------------|----------------------|-------------|------------|-----------|------------------------------|----------------|-------------------|------------|-----------------|
| 83020204         | STPT2-40K1000V-8YPVM | 6+, 1-, 1PE | 1060       | 10        | 40                           | 20             | 4                 | ✓          | C02             |

### Replacement cartridges

| REFERENCE NUMBER | CATALOG NUMBER  | NETWORK | Ucpv [VDC] | I <sub>max</sub> (8/20) [kA] | In (8/20) [kA] | Up@In (8/20) [kV] | CARTRIDGE ID. |
|------------------|-----------------|---------|------------|------------------------------|----------------|-------------------|---------------|
| 83020005         | SP2-40K600V-PV  | PV      | 330        | 40                           | 20             | ≤1.3              | C40           |
| 83020006         | SP2-40K1000V-PV | PV      | 530        | 40                           | 20             | ≤2                | C41           |
| 83020010         | SP2-40K1500V-PV | PV      | 750        | 40                           | 10             | ≤2,5              | C42           |

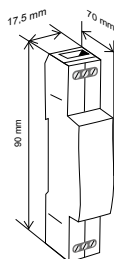
# SURGE-TRAP® SIGNAL LINE PHOTOVOLTAIC SPD

## STS 485

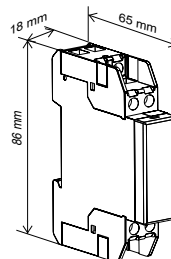
### Dimensions



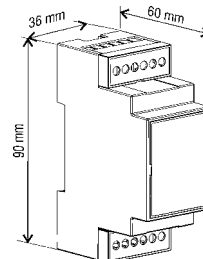
1 pole (2w)



1 pole (3w)



2 poles (4w)



### 1 pole

| REFERENCE NUMBER | CATALOG NUMBER | Un [V] | D1 (10/350) [kA] | I <sub>max</sub> (8/20) | C2 (8/20) [kA] | UP@In (8/20) [V] | f <sub>g</sub> [MHz] | PROTECTED WIRES | EOL INDICATION |
|------------------|----------------|--------|------------------|-------------------------|----------------|------------------|----------------------|-----------------|----------------|
| 83040111         | STS485-7V-2W   | 6      | 2,5              | 10                      | 5              | 10               | 1                    | 2               |                |
| 83040112         | STS485-16V-2W  | 12     | 2,5              | 10                      | 5              | 20               | 1,2                  | 2               |                |
| 83040113         | STS485-27V-2W  | 24     | 2,5              | 10                      | 5              | 40               | 4                    | 2               |                |
| 83040114         | STS485-56V-2W  | 48     | 2,5              | 10                      | 5              | 70               | 5                    | 2               |                |
| 83040110         | STS485-15V-3WI | 12     | 2,5              | 10                      | 5              | 45               | 10                   | 2+GND           | √              |

### 2 poles

| REFERENCE NUMBER | CATALOG NUMBER | Un [V] | D1 (10/350) [kA] | I <sub>max</sub> (8/20) | C2 (8/20) [kA] | UP@In (8/20) [V] | f <sub>g</sub> [MHz] | PROTECTED WIRES | EOL INDICATION |
|------------------|----------------|--------|------------------|-------------------------|----------------|------------------|----------------------|-----------------|----------------|
| 83040120         | STS485-5V-4WG  | 5      | 2,5              | 10                      | 10             | 30               | 60                   | 4+GND           |                |

# IEC SWITCH DISCONNECTORS

## IEC Switch Disconnectors – Front Operated



M163



M163DM



M633



M633DM



M100U3 - M125E3

### Switch Body

### Handles and Shafts



| AMPERE RATING (A)    | 16     | 25     | 40     | 63     | 80     | 100      | 125    |
|----------------------|--------|--------|--------|--------|--------|----------|--------|
| CAT. NUMBER BASE     | M163   | M253   | M403   | M633   | M803   | M100U3   | M125E3 |
| DOOR-MOUNTED VERSION | M163DM | M253DM | M403DM | M633DM | M803DM | M100U3DM |        |

#### DIRECT FRONT OPERATION LOCKING HANDLE

|  |      |      |      |       |       |       |       |
|--|------|------|------|-------|-------|-------|-------|
|  | HD40 | HD40 | HD40 | HD125 | HD125 | HD125 | HD125 |
|--|------|------|------|-------|-------|-------|-------|

#### EXTERNAL FRONT OPERATION

|                                               |        |        |        |        |        |        |        |
|-----------------------------------------------|--------|--------|--------|--------|--------|--------|--------|
| Selector Style<br>IP65, NEMA 1, 3R, 12        | HSBX   | HSBX   | HSBX   | HSBX   | HSBX   | HSBX   | HSBX   |
| Shaft Lengths: 85, 130, 180, 250<br>Ex. SA130 | SA_    | SA_    | SA_    | SA_    | SA_    | SA_    | SA_    |
| Door mounted version<br>(no shaft required)   | HSBPDM | HSBPDM | HSBPDM | HSBWDM | HSBWDM | HSBWDM | HSBWDM |
| Pistol Style<br>IP65, NEMA 1, 3R, 12          | HB45   | HB45   | HB45   | HB45   | HB45   | HB45   | HB45   |
| Shaft Lengths: 210, 290 Ex. SPA210            | SPA_   | SPA_   | SPA_   | SPA_   | SPA_   | SPA_   | SPA_   |

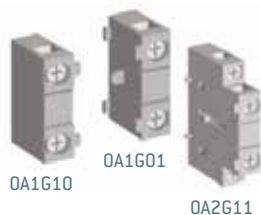
B=Black. Substitute 'R' for 'B' if a red handle is desired. Ex. HR65

### Accessories



4P40

4P80



OA1G10

OA1G01

OA2G11

#### FOURTH POLES

|                                           |      |      |      |      |      |       |       |
|-------------------------------------------|------|------|------|------|------|-------|-------|
| Limited to one additional pole per switch | 4P40 | 4P40 | 4P40 | 4P80 | 4P80 | 4P125 | 4P125 |
|-------------------------------------------|------|------|------|------|------|-------|-------|

#### NEUTRAL POLES

|                                           |      |      |      |      |      |       |       |
|-------------------------------------------|------|------|------|------|------|-------|-------|
| Limited to one additional pole per switch | NP40 | NP40 | NP40 | NP80 | NP80 | NP125 | NP125 |
|-------------------------------------------|------|------|------|------|------|-------|-------|

#### TERMINAL SHROUDS

|                                          |        |        |        |        |        |         |         |
|------------------------------------------|--------|--------|--------|--------|--------|---------|---------|
| 3-pole, 1 terminal shroud for 3 poles    | TS40-3 | TS40-3 | TS40-3 | TS63-3 | TS63-3 | TS125-3 | TS125-3 |
| 1 to 4-poles, 1 terminal shroud per pole | TS40-1 | TS40-1 | TS40-1 | TS63-1 | TS63-1 | TS125-1 | TS125-1 |

#### AUXILIARY CONTACTS

|                                 |        |        |        |        |        |        |        |
|---------------------------------|--------|--------|--------|--------|--------|--------|--------|
| NC left or right side mounting  | OA1G01 | OA1G01 | OA1G01 | OA1G01 | OA1G01 | OA1G01 | OA1G01 |
| NO left or right side mounting  | OA1G10 | OA1G10 | OA1G10 | OA1G10 | OA1G10 | OA1G10 | OA1G10 |
| NO+NC (Mounting on either side) | OA2G11 | OA2G11 | OA2G11 | OA2G11 | OA2G11 | OA2G11 | OA2G11 |

# IEC SWITCH DISCONNECTORS

## IEC Front and Side Operated



M200E30S



M630E03

### Switch Body

### Handles and Shafts



HD250



HB65

### Accessories



4P40

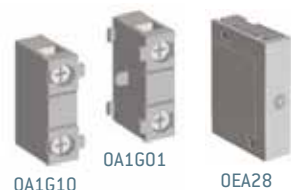
4P80

4P125



4P250

TS250-1



0A1G10

0A1G01

0EA28

| AMPERE RATING (A) | 200     | 250     | 315     | 400     | 630     | 800     |
|-------------------|---------|---------|---------|---------|---------|---------|
| CAT. NUMBER BASE  | M200E   | M250E   | M315E   | M400E   | M630E   | M800E   |
| 3 poles           | 03, 30S | 03, 30S | 03, 30S | 03, 30S | 03, 30S | 03, 30S |

| DIRECT FRONT OPERATION LOCKING HANDLE |       |       |       |       |       |       |
|---------------------------------------|-------|-------|-------|-------|-------|-------|
|                                       | HD250 | HD250 | HD400 | HD400 | HD800 | HD800 |

| EXTERNAL FRONT OPERATION                                                                      |           |           |        |        |        |        |
|-----------------------------------------------------------------------------------------------|-----------|-----------|--------|--------|--------|--------|
| Pistol Style NEMA 1, 3R, 12                                                                   | HB65/HB80 | HB65/HB80 | HB125  | HB125  | HB125  | HB125  |
| Pistol Type, right side operation                                                             | HB65S     | HB65S     | HB145S | HB145S | HB145S | HB145S |
| Shaft Lengths: 210, 290, 360, 430<br>Ex. SPA210<br>Shaft Lengths: 280, 325, 395<br>Ex. SFB325 | SPA_      | SPA_      | SFB_   | SFB_   | SFB_   | SFB_   |

B = Black. Substitute "R" for "B" if red handle is desired. Ex. HR80.

| FOURTH POLES |       |       |       |       |       |       |
|--------------|-------|-------|-------|-------|-------|-------|
|              | 4P250 | 4P250 | 4P400 | 4P400 | 4P800 | 4P800 |

| NEUTRAL POLES |       |       |       |       |       |       |
|---------------|-------|-------|-------|-------|-------|-------|
|               | NP250 | NP250 | NP400 | NP400 | NP800 | NP800 |

| TERMINAL SHROUDS |          |          |          |          |          |          |
|------------------|----------|----------|----------|----------|----------|----------|
| Kit for 3 poles  | TS250-13 | TS250-13 | TS400-13 | TS400-13 | TS800-13 | TS800-13 |
| Kit for 4 poles  | TS250-14 | TS250-14 | TS400-14 | TS400-14 | TS800-14 | TS800-14 |

Shorter terminal shrouds versions are also available if desired. Ex. TS250S-13 for switches up to 250A

| AUXILIARY CONTACTS          |        |        |        |        |        |        |
|-----------------------------|--------|--------|--------|--------|--------|--------|
| Normally Open               | 0A1G10 | 0A1G10 | 0A1G10 | 0A1G10 | 0A1G10 | 0A1G10 |
| Normally Closed             | 0A3G01 | 0A3G01 | 0A3G01 | 0A3G01 | 0A3G01 | 0A3G01 |
| Module for SF aux. contacts | 0EA28  | 0EA28  | 0EA28  | 0EA28  | 0EA28  | 0EA28  |

# IEC SWITCH DISCONNECTORS

## IEC Non-Fused switches, front-operated

| CAT. NUMBER | DESCRIPTION                 | REF. NUMBER |
|-------------|-----------------------------|-------------|
| M163        | IEC UL508 Switch 16A 3p     | A1043188    |
| M253        | IEC UL508 Switch 25A 3p     | B1043189    |
| M403        | IEC UL508 Switch 40A 3p     | C1043190    |
| M633        | IEC UL508 Switch 63A 3p     | D1043191    |
| M803        | IEC UL508 Switch 80A 3p     | E1043192    |
| M100U3      | IEC UL98 Switch 100A 3p     | F1043193    |
| M125E3      | IEC Switch 125A 3p          | G1043194    |
| M163DM      | IEC UL508 Switch 16A 3p DM  | E1043169    |
| M253DM      | IEC UL508 Switch 25A 3p DM  | F1043170    |
| M403DM      | IEC UL508 Switch 40A 3p DM  | K1043174    |
| M633DM      | IEC UL508 Switch 63A 3p DM  | M1043176    |
| M803DM      | IEC UL508 Switch 80A 3p DM  | N1043177    |
| M100U3DM    | IEC UL98 Switch 100A 3p DM  | P1043178    |
| M200E03     | IEC Switch 200A 3p 0+3 pos. | H1043195    |
| M250E03     | IEC Switch 250A 3p 0+3 pos. | K1043197    |
| M315E03     | IEC Switch 315A 3p 0+3 pos. | M1043199    |
| M400E03     | IEC Switch 400A 3p 0+3 pos. | P1043201    |
| M630E03     | IEC Switch 630A 3p 0+3 pos. | R1043203    |
| M800E03     | IEC Switch 800A 3p 0+3 pos. | T1043205    |

## IEC Non-Fused switches, side-operated

| CAT. NUMBER | DESCRIPTION                   | REF. NUMBER |
|-------------|-------------------------------|-------------|
| M200E30S    | IEC Switch 200A 3p R side op. | J1043196    |
| M250E30S    | IEC Switch 250A 3p R side op. | L1043198    |
| M315E30S    | IEC Switch 315A 3p R side op. | N1043200    |
| M400E30S    | IEC Switch 400A 3p R side op. | Q1043202    |
| M630E30S    | IEC Switch 630A 3p R side op. | S1043204    |
| M800E30S    | IEC Switch 800A 3p R side op. | V1043206    |

## Handles

| CAT. NUMBER | DESCRIPTION                     | REF. NUMBER |
|-------------|---------------------------------|-------------|
| HD40        | Handle direct Switch 40A        | L1043405    |
| HSBX        | Handle selector black           | M1043406    |
| HSRX        | Handle selector red             | N1043407    |
| HB45        | Handle black 45mm IP65 NEMA 3R  | L1043911    |
| HR45        | Handle red 45mm IP65 NEMA 3R    | Q1043915    |
| HD125       | Handle direct Switch 125A       | K1043404    |
| HD250       | Handle direct Switch 250A       | W1043391    |
| HD400       | Handle direct Switch 400A       | X1043392    |
| HD800       | Handle direct Switch 800A       | Y1043393    |
| HB65        | Handle black 65mm IP65 NEMA 3R  | W1043368    |
| HB65S       | Handle black 65mm Right Side    | A1044361    |
| HB80        | Handle black 80mm IP65 NEMA 3R  | Y1043370    |
| HB95        | Handle black 95mm IP65 NEMA 3R  | N1043913    |
| HB125       | Handle black 125mm IP65 NEMA 3R | A1043372    |
| HB145       | Handle black 145mm IP65 NEMA 3R | C1043374    |
| HB145S      | Handle black 145mm Right Side   | B1044362    |
| HB274       | Handle black 274mm IP65 NEMA 3R | D1043398    |
| HB330       | Handle black 330mm IP65 NEMA 3R | E1043399    |
| HR65        | Handle red 65mm IP65 NEMA 3R    | G1043378    |
| HR80        | Handle red 80mm IP65 NEMA 3R    | F1043400    |
| HR95        | Handle red 95mm IP65 NEMA 3R    | S1043917    |
| HR125       | Handle red 125mm IP65 NEMA 3R   | K1043381    |
| HR145       | Handle red 145mm IP65 NEMA 3R   | M1043383    |
| HR274       | Handle red 274mm IP65 NEMA 3R   | G1043401    |
| HR330       | Handle red 330mm IP65 NEMA 3R   | H1043402    |
| HSBPDM      | Handle Select black snap door   | X1044358    |
| HSBWDM      | Handle Select black screw door  | Y1044359    |
| HSRPDM      | Handle Select red snap door     | E1047792    |
| HSRWDM      | Handle Select red screw door    | D1047791    |

# IEC SWITCH DISCONNECTORS

## Shafts

| CAT. NUMBER | DESCRIPTION                    | REF. NUMBER |
|-------------|--------------------------------|-------------|
| SA85        | Shaft selector handle 6x6x85mm | J1043426    |
| SA105       | Shaft select. handle 6x6x105mm | K1043427    |
| SA120       | Shaft select. handle 6x6x120mm | L1043428    |
| SA130       | Shaft select. handle 6x6x130mm | M1043429    |
| SA180       | Shaft select. handle 6x6x180mm | N1043430    |
| SA250       | Shaft pistol handle 6x6x250mm  | R1043433    |
| SPA130      | Shaft pistol handle 6x6x130mm  | V1043919    |
| SPA210      | Shaft pistol handle 6x6x210mm  | P1043431    |
| SPA290      | Shaft pistol handle 6x6x290mm  | Q1043432    |
| SPA360      | Shaft pistol handle 6x6x360mm  | W1043920    |
| SPA430      | Shaft pistol handle 6x6x430mm  | X1043921    |
| SFB185      | Shaft SwitchFuse 12x12x185mm   | F1048897    |
| SFB280      | Shaft SwitchFuse 12x12x280mm   | F1043423    |
| SFB325      | Shaft SwitchFuse 12x12x325mm   | G1043424    |
| SFB395      | Shaft SwitchFuse 12x12x395mm   | H1043425    |

## Terminal Shrouds

| CAT. NUMBER | DESCRIPTION                   | REF. NUMBER |
|-------------|-------------------------------|-------------|
| TS40-1      | Term.shrd 40A switch 1p S     | B1043442    |
| TS40-3      | Term.shrd 40A switch 3p L     | C1043443    |
| TS63-1      | Term.shrd 63A switch 1p S     | D1043444    |
| TS63-3      | Term.shrd 63A switch 3p L     | E1043445    |
| TS125-1     | Term.shrd 125A switch 1p S    | F1043446    |
| TS125-3     | Term.shrd 25A switch 3p L     | G1043447    |
| TS250-13    | Term.shrd 250A switch 1p L /3 | P1043454    |
| TS250-14    | Term.shrd 250A switch 1p L /4 | A1043464    |
| TS400-13    | Term.shrd 400A switch 1p L /3 | Q1043455    |
| TS400-14    | Term.shrd 400A switch 1p L /4 | B1043465    |
| TS800-13    | Term.shrd 800A switch 1p L /3 | R1043456    |
| TS800-14    | Term.shrd 800A switch 1p L /4 | C1043466    |
| TS250S-13   | KIT 3 Term.shrd M250 1p S     | P1048905    |
| TS250S-14   | KIT 4 Term.shrd M250 1p S     | Q1048906    |
| TS400S-13   | KIT 3 Term.shrd M400 1p S     | R1048907    |
| TS400S-14   | KIT 4 Term.shrd M400 1p S     | S1048908    |
| TS800S-13   | KIT 3 Term.shrd M800 1p S     | T1048909    |
| TS800S-14   | KIT 4 Term.shrd M800 1p S     | V1048910    |

## Other Accessories

| CAT. NUMBER | DESCRIPTION                       | REF. NUMBER |
|-------------|-----------------------------------|-------------|
| 0A1G01      | Auxiliary Contact NC Right        | N1043476    |
| 0A1G10      | Auxiliary Contact NO left         | P1043477    |
| 0A2G11      | Aux. Contact NO+NC Switch 125A    | Q1043478    |
| 4P60        | Fourth pole for M60 NF switches   | T1043481    |
| 4P80        | Fourth pole for M80 NF switches   | V1043482    |
| 4P125       | Fourth pole for M125 switches     | W1043483    |
| NP40        | Neutral pole for M40 NF switches  | X1043484    |
| NP80        | Neutral pole for M80 NF switches  | Y1043485    |
| NP125       | Neutral pole for M125 switches    | Z1043486    |
| 0A1G01      | Auxiliary Contact NO Right        | N1043476    |
| 0A1G10      | Auxiliary Contact NC left         | P1043477    |
| 0A2G11      | Aux. Contact NO+NC Switch 125A    | Q1043478    |
| 0A3G01      | Aux.Contact NC Switch160-2500A    | R1043479    |
| 0A4B1C      | Aux.Contact 1+1 SF 40A            | K1043473    |
| 0SZ4        | Mounting plate 0A1G10/0A3G01      | L1043474    |
| 0EA28       | Module for SF aux. contacts       | M1043475    |
| 4P125       | Fourth pole for M125 NF switches  | W1043483    |
| 4P250       | Neutral pole for M250 NF switches | A1043487    |
| 4P400       | Neutral pole for M400 NF switches | B1043488    |
| 4P800       | Neutral pole for M800 NF switches | C1043489    |

# NOTES

Handwriting practice lines consisting of 20 horizontal dotted lines.



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