

# Low voltage fuse-rails

## NV fuse-rail sizes 00, 1, 2, 3

### Characteristics of LV NV fuse-rails

The LV NV fuse-rails are 3-pole bases of LV fuse-links, intended for busbar mounting. The LV NV fuse-rails comprises three single-pole connections in one unit. Each contact at an individual phase is connected to the phase on the busbar system. The other contacts are fitted with cable connecting terminals or intended for attachment of the following busbar system.

### Use

The LV NV fuse-rails are mainly used for cable distribution and power supply systems.

### Principle of operation

The LV NV fuse-rails are intended for insertion of LV fuse-links that are inserted and removed from the LV NV fuse-rails by means of a special handle (refer to Catalogue ETI - LV fuse-links, code number 4941111 and 4941100).

### Design of LV NV fuse-rails

The insulated supporting body is made of one piece, the material is polyester reinforced with glass fibres. A silver-plated contact system, fitted with tinned extinction chambers, ensures a low power dissipation, optimum thermal characteristics, and a high breaking capacity. The contact derived parts are intended for cable connections or for attachment of the next busbar system. All the live parts are protected against accidental contacts - in conformity with BVG A2. A special form of the contact part cover provides for safe insertion and removal of the LV fuse-links.

### Short description

The LV NV fuse-rails are manufactured in compliance with the DIN 43623 standard, and are mostly used for installation into cable distribution cabinets and power supply systems.

They are available in sizes of 00/160 A to 3/630 A. Covers provide insulation protection for all live parts.

All the LV NV fuse-rails are fitted with new, modern Delta contact systems allowing optimum pressure contact between the fuse cartridge and the LV NV fuse-rails, resulting in extremely low level of power dissipation and heating-up.

All standard insulated LV NV fuse-rails shown in the Catalogue are intended for general usage.

Upon request appropriate individual configurations can be designed - in such cases please contact our sales engineers, or call us to the factory.

### Advantages

- upper or lower cable connection - as required
- optimum pull contact
- simple installation
- modular design

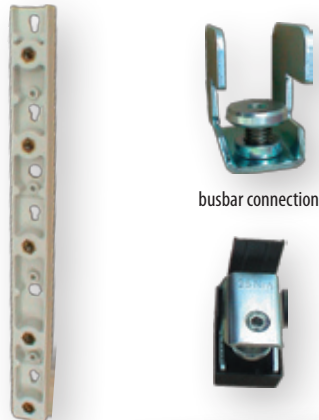


General LV NV fuse-rail table

| size | code No.  | busbar system | product designation | connection description        | protection cover           | weight [kg] | packaging [pcs] |
|------|-----------|---------------|---------------------|-------------------------------|----------------------------|-------------|-----------------|
| 00   | 001691015 | 100           | VL00/100 M8-2       | flat connection – screw M8    | /                          | 0,8         | 1/1             |
| 00   | 001691016 | 100           | VL00/100 SP.95-2    | prism 35 - 95 mm <sup>2</sup> | /                          | 0,8         | 1/1             |
| 00   | 001691020 | 185           | VL00 M8             | flat connection – screw M8    | /                          | 1,5         | 1/1             |
| 00   | 001691021 | 185           | VL00 SP.95          | V-clip 10-95 mm <sup>2</sup>  | /                          | 1,5         | 1/1             |
| 1    | 001691024 | 185           | VL1 M10             | screw M10                     | terminal compartment cover | 3,5         | 1/1             |
| 1    | 001693024 | 185           | VL1G M10            | screw M10                     | terminal compartment cover | 3,5         | 1/1             |
| 1    | 001691025 | 185           | VL1 SP.300          | V-clip 25-300 mm <sup>2</sup> | terminal compartment cover | 3,5         | 1/1             |
| 1    | 001693025 | 185           | VL1G SP.300         | V-clip 25-300 mm <sup>2</sup> | terminal compartment cover | 3,5         | 1/1             |
| 2    | 001691022 | 185           | VL2 M12             | screw M12                     | terminal compartment cover | 3,8         | 1/1             |
| 2    | 001693022 | 185           | VL2G M12            | screw M12                     | terminal compartment cover | 3,8         | 1/1             |
| 2    | 001691023 | 185           | VL2 SP.300 P        | V-clip 25-300 mm <sup>2</sup> | terminal cover             | 3,8         | 1/1             |
| 2    | 001693031 | 185           | VL2G SP.300         | V-clip 25-300 mm <sup>2</sup> | terminal compartment cover | 3,8         | 1/1             |
| 2    | 001691026 | 185           | VL2 SP.240          | V-clip 25-240 mm <sup>2</sup> | terminal compartment cover | 3,8         | 1/1             |
| 2    | 001693026 | 185           | VL2G SP.240         | V-clip 25-240 mm <sup>2</sup> | terminal compartment cover | 3,8         | 1/1             |
| 2    | 001691029 | 185           | VL2 M12x35          | screw M12x35                  | terminal compartment cover | 3,8         | 1/1             |
| 2    | 001693029 | 185           | VL2G M12x35         | screw M12x35                  | terminal compartment cover | 3,8         | 1/1             |
| 2    | 001691030 | 185           | VL2 SP.240 P        | V-clip 25-240 mm <sup>2</sup> | terminal cover             | 3,8         | 1/1             |
| 2    | 001691031 | 185           | VL2 SP.300          | V-clip 25-300 mm <sup>2</sup> | terminal compartment cover | 3,8         | 1/1             |
| 3    | 001691027 | 185           | VL3 M12             | screw M12                     | terminal compartment cover | 4,3         | 1/1             |
| 3    | 001691028 | 185           | VL3 SP.300          | V-clip 25-300 mm <sup>2</sup> | terminal compartment cover | 4,3         | 1/1             |

Table of accessories for LV NV fuse-rails

| type                                                   | code No.  | description                         | packaging [pcs] |
|--------------------------------------------------------|-----------|-------------------------------------|-----------------|
| busbar connection KS 00/5-10                           | 001691040 | busbar thickness 5-10mm             | 1/3             |
| busbar connection KS 00/10-15                          | 001691041 | busbar thickness 10-15mm            | 1/3             |
| busbar connection KS 123/10                            | 001692460 | busbar thickness 10mm               | 1/1             |
| protection covering of contact connections ZP 123/10HA | 001691045 | for sizes 1,2,3                     | 1/1             |
| busbar covering PZ 00/185                              | 001691046 | mounting thread M8                  | 1/1             |
| busbar covering PZ 00/100                              | 001691047 | mounting thread M8                  | 1/1             |
| busbar covering PZ 123/185                             | 001691048 | mounting thread M12                 | 1/1             |
| busbar support PP 100/185                              | 001691055 | for busbar system 100 mm and 185 mm | 1/1             |



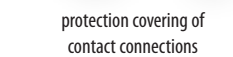
busbar connection



busbar support



busbar covering



protection covering of contact connections

**Busbar connection**

Busbar connections are used for drill-free direct contacting of the strip-fuseways on the busbars.

**Protection cover**

The terminal compartment and terminal covers provide probe-safe frontal protective covering of the terminal compartment.

**Busbarcover, screw-type**

The screw-type covers of 100 mm width are fixed at busbars with M12 thread or stud. The covers of 50 mm width are fixed on busbars or adapters with M8 thread.

**Busbar support**

The 3-pole busbar support is used for the fixing of flat bars at 100 mm and 185 mm distances.