

Strip type fuse-switch-disconnectors

NV strip type fuse-switch-disconnector sizes 00, 1, 2, 3

Characteristics of the NV strip type fuse-switch-disconnectors

The NV strip type fuse-switch-disconnectors are 3-pole bases of NV fuse cartridges, intended for busbar mounting. A NV strip type fuse-switch-disconnectors 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 NV strip type fuse-switch-disconnectors are mainly used for cable distribution and power supply systems, transformer systems, where they are connected when electric energy transmission is required. The following rated currents are available: 160 A, 250 A, 400 A, 630 A.

Principle of operation

The NV strip type fuse-switch-disconnectors are used in combination with NV fuse cartridges protecting the circuit against shorts. The upper part of the NV strip type fuse-switch-disconnectors with insulation class IP3X is provided with a separate test opening through which the live state can be tested according to DIN VDE 0680, part 5.

Design of the NV strip type fuse-switch-disconnectors

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 ensures a safe insertion and removal of the NV fuse cartridges.

Short description

The NV strip type fuse-switch-disconnectors are mostly used for installation into cable distribution cabinets and power supply systems - in accordance with IEC/EN 60439-1. The NV strip type fuse-switch-disconnectors have been tested in accordance with IEC/EN 60947-3. They are available for the sizes of fuse cartridges from 00 to 3, with both single-pole and 3-pole switching-on.

Advantages

- upper or lower cable connection - as required
- optimum pull contact
- direct connection
- double strip connection up to 1250 A
- universal cover
- high breaking capacity
- low power dissipation
- use of standard earthing connections
- modular construction

Main types of the NV strip type fuse-switch-disconnectors - characteristics

Basically, as shown, there are several types of the NV strip type fuse-switch-disconnectors:

- for a 3-pole switching-in
- for a single-pole switching-in
- for attachment directly to a busbar system
- with side contacts for a busbar system

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



General table of NV strip type fuse-switch-disconnector-single-pole switching-in

| size | code No. | busbar system | product designation | product designation | switch lever | weight [kg] | packaging [pcs] |
|------|-----------|---------------|---------------------|-------------------------------|-------------------|-------------|-----------------|
| 00 | 001692010 | 185 | SL00 1P M8 | flat connection - screw M8 | standard | 2,4 | 1/1 |
| 00 | 001692011 | 185 | SL00 1P M8 P | flat connection - screw M8 | retracable handle | 2,4 | 1/1 |
| 00 | 001692012 | 185 | SL00 1P SP.95 | V-clip 10-95 mm ² | standard | 2,4 | 1/1 |
| 1 | 001692110 | 185 | SL1 1P M10 | screw M10 | standard | 4,9 | 1/1 |
| 1 | 001694110 | 185 | SL1G 1P M10 | screw M10 | standard | 4,9 | 1/1 |
| 1 | 001692111 | 185 | SL1 1P SP.300 | V-clip 25-300 mm ² | standard | 4,9 | 1/1 |
| 1 | 001694111 | 185 | SL1G 1P SP.300 | V-clip 25-300 mm ² | standard | 4,9 | 1/1 |
| 1 | 001692112 | 185 | SL1 1P SP.240 | V-clip 25-240 mm ² | standard | 4,9 | 1/1 |
| 1 | 001694112 | 185 | SL1G 1P SP.240 | V-clip 25-240 mm ² | standard | 4,9 | 1/1 |
| 2 | 001692210 | 185 | SL2 1P M12 | screw M12 | standard | 4,9 | 1/1 |
| 2 | 001694210 | 185 | SL2G 1P M12 | screw M12 | standard | 4,9 | 1/1 |
| 2 | 001692211 | 185 | SL2 1P SP.300 | V-clip 25-300 mm ² | standard | 4,9 | 1/1 |
| 2 | 001694211 | 185 | SL2G 1P SP.300 | V-clip 25-300 mm ² | standard | 4,9 | 1/1 |
| 2 | 001692212 | 185 | SL2 1P SP.240 | V-clip 25-240 mm ² | standard | 4,9 | 1/1 |
| 2 | 001694212 | 185 | SL2G 1P SP.240 | v-CLIP 25-240 mm ² | standard | 4,9 | 1/1 |
| 3 | 001692310 | 185 | SL3 1P M12 | screw M12 | standard | 5,6 | 1/1 |
| 3 | 001692311 | 185 | SL3 1P SP.300 | V-clip 25-300 mm ² | standard | 5,6 | 1/1 |
| 3 | 001692312 | 185 | SL3 1P SP.240 | V-clip 25-240 mm ² | standard | 5,6 | 1/1 |

General table of NV strip type fuse-switch-disconnector-three-pole switching-in

| size | code No. | busbar system | product designation | connection description | weight [kg] | packaging [pcs] |
|------|-----------|---------------|---------------------|-------------------------------|-------------|-----------------|
| 00 | 001692034 | 100 | SL00/100 3P M8-2 | flat connection - screw M8 | 1 | 1/1 |
| 00 | 001692035 | 100 | SL00/100 3P SP.70-2 | V-clip 10-70 mm ² | 1 | 1/1 |
| 00 | 001692032 | 185 | SL00 3P M8 | flat connection - screw M8 | 2,4 | 1/1 |
| 00 | 001692033 | 185 | SL00 3P SP.95 | V-clip 10-95 mm ² | 2,4 | 1/1 |
| 1 | 001692130 | 185 | SL1 3P M10 | screw M10 | 4,9 | 1/1 |
| 1 | 001694130 | 185 | SL1G 3P M10 * | screw M10 | 4,9 | 1/1 |
| 1 | 001692131 | 185 | SL1 3P SP.300 | V-clip 25-300 mm ² | 4,9 | 1/1 |
| 1 | 001694131 | 185 | SL1G 3P SP.300* | V-clip 25-300 mm ² | 4,9 | 1/1 |
| 1 | 001692132 | 185 | SL1 3P SP.240 | V-clip 25-240 mm ² | 4,9 | 1/1 |
| 2 | 001692000 | 185 | SL2 3P SP.300 | V-clip 25-300 mm ² | 4,9 | 1/1 |
| 2 | 001694000 | 185 | SL2G 3P SP.300* | V-clip 25-300 mm ² | 4,9 | 1/1 |
| 2 | 001692230 | 185 | SL2 3P M12 | screw M12 | 4,9 | 1/1 |
| 2 | 001694230 | 185 | SL2GM12* | screw M12 | 4,9 | 1/1 |
| 2 | 001692231 | 185 | SL2 3P SP.240 | V-clip 25-240 mm ² | 4,9 | 1/1 |
| 3 | 001692330 | 185 | SL3 3P M12 | screw M12 | 5,6 | 1/1 |
| 3 | 001692331 | 185 | SL3 3P SP.300 | V-clip 25-300 mm ² | 5,6 | 1/1 |
| 3 | 001692332 | 185 | SL3 3P SP.240 | V-clip 25-240 mm ² | 5,6 | 1/1 |

**"Gamma" contact (make short - circuit current 80 kA)

NV strip type fuse-switch-disconnector with current transformer

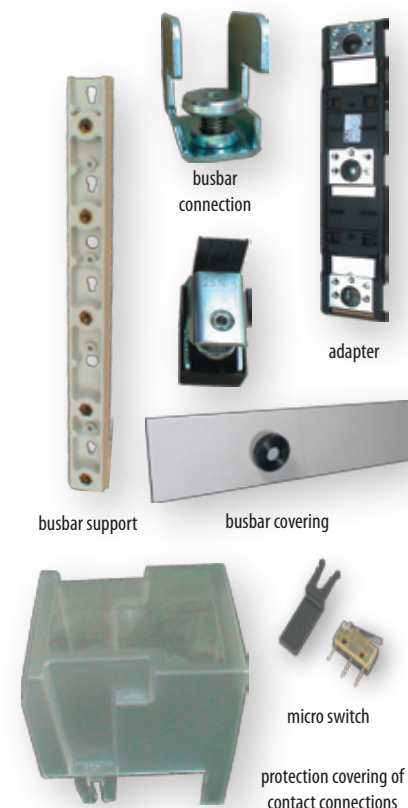
| size | code No. | busbar system | product designation | connection description | current transformer | weight [kg] | packaging [pcs] |
|------|-----------|---------------|------------------------------|------------------------------|---------------------|-------------|-----------------|
| 00 | 001693000 | 100 | SL00/100 3P M8 150/5 Kl.1 | flat connection, M8 | 150/5 class 1 | 1,7 | 1/1 |
| 1 | 001693010 | 185 | SL1 3P M10 250/5 Kl.1 | screw M10 | 250/5 class 1 | 3,1 | 1/1 |
| 2 | 001693020 | 185 | SL2 3P M12 400/5 Kl.1 | screw M12 | 400/5 class 1 | 4,6 | 1/1 |
| 3 | 001693030 | 185 | SL3 3P M12 600/5 Kl.1 | screw M12 | 600/5 class 1 | 4,6 | 1/1 |
| 00 | 001693040 | 100 | SL00/100 3P SP.70 150/5 Kl.1 | V-clip 10-70mm ² | 150/5 class 1 | 1,7 | 1/1 |
| 1 | 001693050 | 185 | SL1 3P SP.300 250/5 Kl.1 | V-clip 25-300mm ² | 250/5 class 1 | 3,1 | 1/1 |
| 2 | 001693060 | 185 | SL2 3P SP.300 400/5 Kl.1 | V-clip 25-300mm ² | 400/5 class 1 | 4,6 | 1/1 |
| 3 | 001693070 | 185 | SL3 3P SP.300 600/5 Kl.1 | V-clip 25-300mm ² | 600/5 class 1 | 4,6 | 1/1 |

Strip type fuse-switch-disconnectors

Table of accessories for NV strip type fuse-switch-disconnector

| 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 | for size 1,2,3 | 1/1 |
| adapter DA 185/185 42 | 001692411 | for system 185 mm height 42 mm | 1/1 |
| adapter DA 185/100 52 | 001692412 | for system 185/100mm, height 52 mm, for 2 x SL00 | 1/1 |
| protection covering of contact connections ZP 00 HA | 001692420 | for size 00 | 1/1 |
| protection covering of contact connections ZP 123/10HA | 001692421 | for size 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 |
| nameplate NP 00 | 001692430 | for size 00 | 1/1 |
| nameplate NP 123 | 001692431 | for size 1,2,3 | 1/1 |
| busbar support PP 100/185 | 001691055 | for systems 100 mm and 185 mm | 1/1 |
| Deriv. connection OP L | 001692440 | for size 1,2,3 | 1/1 |
| double connection DP 3x2 (6)* | 001692450 | for size 1,2,3 | 1/1 |
| double protection cover ZP 3x2/10HA* | 001692422 | for size 1,2,3 | 1/1 |
| double terminal connections SPD 2x3 3x300 | 001692423 | for size 1,2,3 | 1/1 |
| micro switch MST SL00/100 3p | 001691050 | open/close position of SL | 1/1 |
| micro switch MST SL00 3p | 001691051 | open/close position of SL | 1/1 |
| micro switch MST SL123 3p | 001691052 | open/close position of SL | 1/1 |

* accessories for assembling: SL 1250 (2 parallel connected fuse-switch-disconnectors)



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.

DOUBLE CONNECTOR

The connector kits are used for parallel switching of 2 strips.

DOUBLE TERMINAL CONNECTION

The kit for 1250 A allows 2 strips to be connected at the terminal and 3 or 4 cables per phase to be connected.

NAMEPLATE

The designation plate mount is plugged on the strips at the end face. It allows fitting of an additional designation plate. When fitted in switch boards, it can also be used as support for a system cover.

BUSBAR ADAPTERS

The adapters are required for combining different strip sizes, e.g. size 00 with sizes 1 to 3.

DERIVED CONNECTION

The derived connection enables fuse-protected temporary connections (worksite electrical supply) to size 1 to 3 LV NV strip-fuseways.