



## Vertical fuse disconnects

Vertical fuse disconnects are designed to receive NH fuse links. Hinged fuse-carriers enable opening and closing operation in electric circuits under load conditions. Thereby, the fuse-link or solid link forms the moving contact. Both, single pole and three-pole switching is possible.

Vertical fuse disconnects are used in Transformer stations and cable distribution cabinets of public utilities as well as low voltage switchgear and controlgear assemblies acc. to IEC/EN 61439-1. Their closed design and high breaking capacity make them extremely reliable and powerful fuse-combination units.





### Product definition

Vertical fuse disconnects are three-pole fuse-switches for busbar mounting. They combine three single-pole fuse-switches longitudinally arranged in one unit. Each of the feeder terminals is directly connected to one phase of a three-phase busbar system. The outgoing terminals are equipped with terminals for cable conductors.

### Applications

Vertical fuse disconnects conform to the requirements of public utilities and industrial companies for power distribution boards in ring main units, transformer substations, cable distribution cabinets as well as main distribution boards. Vertical fuse disconnects having built-in current transformers are essential devices for efficient energy management. With built-in fuse monitoring function they ensure short reaction time even in decentralized power distribution systems.

### Product advantages

JEAN MÜLLER vertical fuse disconnects are available in sizes 00 to 3 for both single pole and three-pole switching operation. Product versions with built-in current transformers, feeder units up to 2000A rated current, and a wide range of specially designed products enable efficient and reliable power distribution.

### Insulation parts

All insulating parts are made of high mechanical strength polymers are resistant to breaking, self extinguishing and halogen-free. The fuse-base insulator for 185mm busbar systems, which supports the current carrying parts, is made of high stability glass fibre reinforced thermosetting polyester, according to power utility specifications.

### Current carrying parts

Silver-plated receiving contacts for DIN fuse-links ensure low power loss, optimum temperature behaviour and high breaking capacity. The tin-plated down leads are available with different types of terminals.

Thanks to the contact covers that provide safety from touch by the back of the hand, the products can be mounted on live busbar systems, provided the local safety rules allow for. The upper parts of vertical fuse disconnects including the fuse carriers can be easily mounted and fixed by means of turn-lock fasteners.

### Product versions/Accessories

The products prepared for current transformers can be equipped with specifically designed current transformers inserted in the base insulator. Current transformers are available for primary currents ranging from 50A to 1000A.

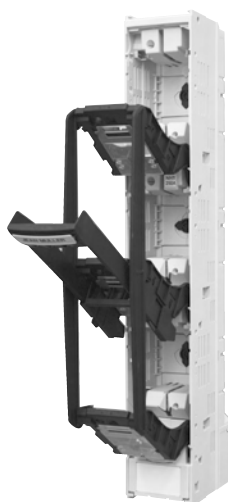
## Vertical fuse disconnects



SL00-3X3/100/F/HA



SL00-3X3/185/F



SL1G-3X3/3A  
SL2G-3X3/3A  
SL3-3X3/3A



SL3-3X3/1000HA



SL3-3X6/1250/HA



SL00-3X/100/F/HA



SL00-3X/185/F



SL1G-3X/3A  
SL2G-3X/3A  
SL3-3X/3A



SL3-3X/1000HA



SL3-3X/910/HA



SL3-3X2/1250/HA

**Terminal covers (sold separately) are required for all disconnects (refer to page 39)**

#### Vertical fuse disconnects 3 pole switching in one action

| Size | For Fuses         | Current Rating (A) | Switch width (mm) | Busbar Centre Spacing (mm) | Inclusions                            | Part No.          |
|------|-------------------|--------------------|-------------------|----------------------------|---------------------------------------|-------------------|
| 00   | DIN 000 & DIN00   | 160A               | 50 mm             | 100 mm                     | Terminal cover included               | SL00-3X3/100/F/HA |
| 00   | DIN 000 & DIN00   | 160A               | 50 mm             | 185 mm                     | -                                     | SL00-3X3/185/F    |
| 1    | DIN 1             | 250A               | 100 mm            | 185 mm                     | -                                     | SL1G-3X3/3A       |
| 2    | DIN 1 & 2         | 400A               | 100 mm            | 185 mm                     | -                                     | SL2G-3X3/3A       |
| 3    | DIN 1, 2 & 3      | 630A               | 100 mm            | 185 mm                     | -                                     | SL3-3X3/3A        |
| 3    | DIN3              | 910A               | 100mm             | 185mm                      | Terminal cover double length included | SL3-3X3/910/HA    |
|      | Solid Links       | 1000A              | 100 mm            | 185 mm                     | Terminal cover & solid links included | SL3-3X3/1000/HA   |
|      | DIN 2 & DIN 3 (2) | 1250A              | 200 mm            | 185 mm                     | Terminal cover double width included  | SL3-3X6/1250/HA   |
| 3    | DIN3              | 1600A              | 200mm             | 185mm                      | Terminal cover double width included  | SL3-3X6/2000/HA   |

#### Vertical fuse disconnects 3 pole individual pole switching

| Size | For Fuses          | Current Rating (A) | Switch width (mm) | Busbar Centre Spacing (mm) | Inclusions                            | Part No.         |
|------|--------------------|--------------------|-------------------|----------------------------|---------------------------------------|------------------|
| 00   | DIN 000 & DIN00    | 160A               | 50mm              | 100mm                      | Terminal cover included               | SL00-3X/100/F/HA |
| 00   | DIN 000 & DIN00    | 160A               | 50 mm             | 185 mm                     | -                                     | SL00-3X/185/F    |
| 1    | DIN 1              | 250A               | 100 mm            | 185 mm                     | -                                     | SL1G-3X/3A       |
| 2    | DIN 1 & 2          | 400A               | 100 mm            | 185 mm                     | -                                     | SL2G-3X/3A       |
| 3    | DIN 1, 2 & 3       | 630A               | 100 mm            | 185 mm                     | -                                     | SL3-3X/3A        |
| 3    | DIN3               | 910A               | 100mm             | 185mm                      | Terminal cover double length included | SL3-3X/910/HA    |
|      | Solid Links        | 1000A              | 100 mm            | 185 mm                     | Terminal cover & solid links included | SL3-3X/1000/HA   |
|      | DIN 2 & DIN 3 (2x) | 1250A              | 200mm             | 185 mm                     | Terminal cover double width included  | SL3-3X2/1250/HA  |
|      | DIN 2 & DIN 3 (2x) | 1600A              | 200mm             | 185 mm                     | Terminal cover double width included  | SL3-3X2/2000/HA  |

#### Vertical fuse buscouplers 3 pole switching in one action

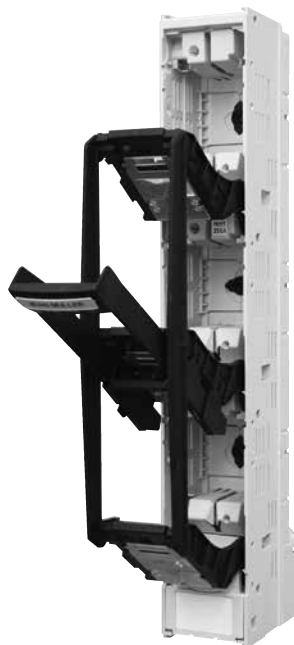
| Size | For Fuses   | Current Rating (A)       | Switch width (mm) | Busbar Centre Spacing (mm) | Inclusions | Part No.          |
|------|-------------|--------------------------|-------------------|----------------------------|------------|-------------------|
| 3    | Solid Links | 1000A (solid links only) | 100 mm            | 185 mm                     | -          | SLT3-3SL/3X3/1000 |

SL00 - refer to technical pages 40 & 41  
SL1 & SL2 - refer to technical page 42  
SL3 - refer to technical pages 44, 45 & 46  
Accessories - refer to pages 38 & 39

## Vertical fuse disconnects



REAR VIEW  
With CTS Fitted



SL1G-3X3/W/3A  
SL2G-3X3/W/3A  
SL3-3X3/W/3A



SL3-3X3/1000/W/HA



SL1G-3X/W/3A  
SL2G-3X/W/3A  
SL3-3X/W/3A



SL3-3X/1000/W/HA

**Terminal covers (sold separately) are required for all disconnects (refer to page 39)**

**Vertical fuse disconnects with CT mount facility - 3 pole switching in one action**

| Size | For Fuses   | Current Rating (A)          | Switch width (mm) | Busbar Centre Spacing (mm) | Part No.          |
|------|-------------|-----------------------------|-------------------|----------------------------|-------------------|
| 2    | DIN2        | 400                         | 100               | 185                        | SL2-3X3/W/3A      |
| 3    | DIN2 & DIN3 | 630                         | 100               | 185                        | SL3-3X3/W/3A      |
|      | Solid Links | 1000A<br>(Solid links only) | 100               | 185                        | SL3-3X3/1000/W/HA |

**Vertical fuse disconnects with CT mount facility - 3 pole individual pole switching**

| Size | For Fuses   | Current Rating (A)          | Switch width (mm) | Busbar Centre Spacing (mm) | Part No.         |
|------|-------------|-----------------------------|-------------------|----------------------------|------------------|
| 2    | DIN2        | 400                         | 100               | 185                        | SL2-3X/W/3A      |
| 3    | DIN2 & DIN3 | 630                         | 100               | 185                        | SL3-3X/W/3A      |
|      | Solid Links | 1000A<br>(Solid links only) | 100               | 185                        | SL3-3X/1000/W/HA |

**Current transformers for above class 1**

|  |  |  |  | Ratio  | Part No.       |
|--|--|--|--|--------|----------------|
|  |  |  |  | 250:5  | WKD51/1/250-5  |
|  |  |  |  | 400:5  | WKD51/1/400-5  |
|  |  |  |  | 600:5  | WKD51/1/600-5  |
|  |  |  |  | 1000:5 | WKD52/1/1000-5 |

# Vertical fuse disconnects

## POWER UTILITIES RANGE

### Vertical fuse disconnects with 3 pole switching in one action

| Size | For Fuses   | Current Rating (A) | Terminals | Switch width (mm) | Connection Capacity (mm2) | Part No.          |
|------|-------------|--------------------|-----------|-------------------|---------------------------|-------------------|
| 00   | DIN000 & 00 | 160                | M8 Bolt   | 50                | max. 95                   | PU-SL00-3X3/185/F |
| 1    | DIN1        | 250                | M10 Bolt  | 100               | max. 150                  | PU-SL1H-3X3/3A    |
| 2    | DIN1 & 2    | 400                | M12 Bolt  | 100               | max. 240                  | PU-SL2H-3X3/3A    |
| 3    | DIN1, 2 & 3 | 630                | M12 Bolt  | 100               | max. 300                  | PU-SL3-3X3/3A     |

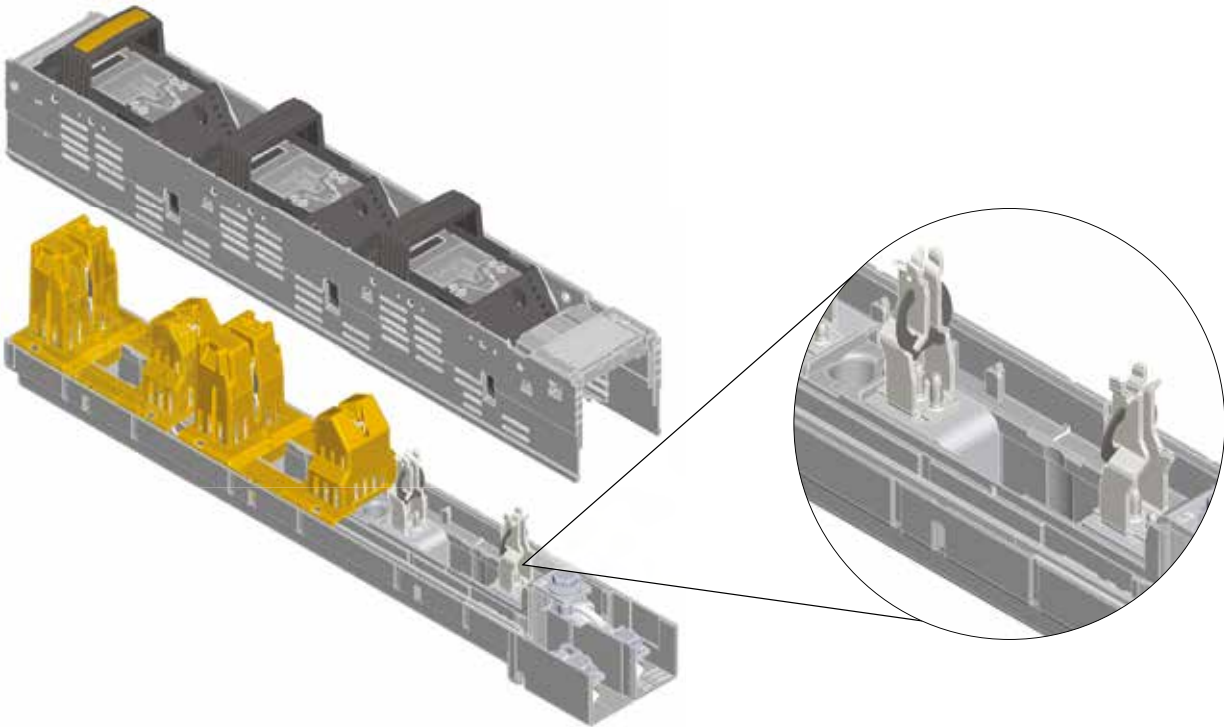
### Vertical fuse disconnects with 3 pole individual switching action

| Size | For Fuses   | Current Rating (A) | Terminals | Switch width (mm) | Connection Capacity (mm2) | Part No.         |
|------|-------------|--------------------|-----------|-------------------|---------------------------|------------------|
| 00   | DIN000 & 00 | 160                | M8 Bolt   | 50                | max. 95                   | PU-SL00-3X/185/F |
| 1    | DIN1        | 250                | M10 Bolt  | 100               | max. 150                  | PU-SL1H-3X/3A    |
| 2    | DIN1 & 2    | 400                | M12 Bolt  | 100               | max. 240                  | PU-SL2H-3X/3A    |
| 3    | DIN1, 2 & 3 | 630                | M12 Bolt  | 100               | max. 300                  | PU-SL3-3X/3A     |



PU

SL00 - refer to technical pages 40 &41  
 SL1H & SL2H - refer to technical page 43  
 SL3 - refer to technical page 44  
 Accessories - refer to pages 38 & 39



## Universal measuring devices



UMG96RM

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Part No. |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 3 phase display indicating:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | UMG96RM  |
| <ul style="list-style-type: none"> <li>- voltage, L-L, L-N, max values, min values</li> <li>- current L1, L2, L3, N, average, max, MDI</li> <li>- frequency and power factor</li> <li>- real power, W per phase, sum &amp; max</li> <li>- apparent power, VA per phase, sum &amp; max</li> <li>- reactive power, VAR per phase, sum &amp; max</li> <li>- energy kWh total and kVARh total</li> <li>- total harmonic distortion</li> <li>- 2x digital outputs</li> <li>- RS485 interface</li> <li>- data memory</li> </ul> |          |



## MDI metering - complete solutions

| 3 Phase metering using UMG96RMmeter                                                                                                                                                                                                                                                                                  | Part No.      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| The following three items are all that is needed to construct a fully metered vertical disconnect.                                                                                                                                                                                                                   |               |
| Vertical disconnect from page 35                                                                                                                                                                                                                                                                                     | SL*-3X*/W/3A  |
| Current transformers from page 35 (3x reqd)                                                                                                                                                                                                                                                                          | WKD51/1/***-5 |
| UMG96RM mounted in an IP65 enclosure<br>Enclosure dimensions 130 x 130 x 100mm<br>A bracket on the enclosure provides easy mounting on the top of the disconnect.<br>The meter is fully wired for connection to the CTs and to the three phase supply and neutral. The phase connections are wired through 5A fuses. | UMG96RM/ENCL  |

# Vertical fuse disconnects

## Accessories



| Description |                             | For Mounting on | Part No. |
|-------------|-----------------------------|-----------------|----------|
| Prism clamp |                             |                 |          |
|             | 10-70 mm <sup>2</sup> Al/Cu | SL00            | P0070    |



|               |                           |      |     |
|---------------|---------------------------|------|-----|
| Clip terminal |                           |      |     |
|               | 1,5-70 mm <sup>2</sup> Cu | SL00 | S00 |



|                              |                              |       |             |
|------------------------------|------------------------------|-------|-------------|
| Direct terminal clamp KM2G.. |                              |       |             |
|                              | 50-300 mm <sup>2</sup> Al/Cu | SL1-3 | KM2G/AF3040 |



|                       |                              |       |       |
|-----------------------|------------------------------|-------|-------|
| Direct terminal clamp |                              |       |       |
|                       | 70-240 mm <sup>2</sup> Al/Cu | SL1-3 | K2G/A |



|                       |                                           |       |             |
|-----------------------|-------------------------------------------|-------|-------------|
| Direct terminal clamp |                                           |       |             |
|                       | 2 conductors 50-120 mm <sup>2</sup> Al/Cu | SL1-3 | K2HG/2/AF30 |

|                       |                                            |       |              |
|-----------------------|--------------------------------------------|-------|--------------|
| Direct terminal clamp |                                            |       |              |
|                       | 2 conductors 120-185 mm <sup>2</sup> Al/Cu | SL1-3 | KV2HG/2/WF30 |



|                 |                                       |  |       |
|-----------------|---------------------------------------|--|-------|
| Cover for clamp |                                       |  |       |
|                 | For V-type box clamp type KM2G        |  | HRV   |
|                 | For clamp type K2G/A, K2HG/ and KV2HG |  | HR-K2 |

## Accessories



| Description                   | For Mounting on | Part No.                      |
|-------------------------------|-----------------|-------------------------------|
| <b>CT Mounting block</b>      |                 |                               |
| CT Block SL 123 Empty         | SL1, SL2, SL3   | WB-SL-123                     |
| WB-SL-123 Connect Block WKD52 | SL1, SL2, SL3   | WB-SL-123 Connect Block WKD52 |
| WB-SL-123 Wiring loom WKD51   | SL1, SL2, SL3   | WB-SL-123 Wiring loom WKD51   |
| Mounting aid CT Block SL 123  | SL1, SL2, SL3   | WB-SL-HOOK                    |



|                                            |          |                |  |
|--------------------------------------------|----------|----------------|--|
| <b>Terminal cover</b>                      |          |                |  |
| For SL00-185 + PU-SL00                     | SL00/185 | HA-SL00/185    |  |
| For SL123 + PU-SL123                       | SL1-3    | HA-SL123/10    |  |
| For SL3-3X/1000<br>Extended depth+ PU-SL3x | SL3      | HA220-SL123/10 |  |
| Double width terminal cover                | SL3      | HA220-SL3x2/10 |  |



|                                                               |       |                             |  |
|---------------------------------------------------------------|-------|-----------------------------|--|
| <b>Terminal extension kit</b>                                 |       |                             |  |
| Terminal for 2x300mm <sup>2</sup> + PU (3 Pieces)             | SL1-3 | VS-SL3/1000                 |  |
| Terminal kit for ganged disconnect 3 x 300mm +PU              | SL1-3 | VS-SL3x2                    |  |
| For connection of 4 x 240mm <sup>2</sup><br>Ganged disconnect | SL3   | VS-SL3/4x240mm <sup>2</sup> |  |
| For connection of 1 x 400mm <sup>2</sup>                      | SL3   | VS-SL3/400QMM               |  |



|                                          |         |                   |  |
|------------------------------------------|---------|-------------------|--|
| <b>Handle connecting kit</b>             |         |                   |  |
| For ganged disconnect (1x handle Joiner) | SL3     | VBS-SL3X6(2)      |  |
| Isolator label                           | SL1,2+3 | Isolator-lab      |  |
| Joining Kit (3x handles connection link) |         | VBS-SL3 Kit       |  |
| Joining Kit to make SL3-3X2/1250         | SL3     | VS-SL3/1250VBS/HA |  |



|                                               |  |         |  |
|-----------------------------------------------|--|---------|--|
| <b>Fuse cover with symbol "Do not switch"</b> |  |         |  |
| Size 00                                       |  | SZ00-R  |  |
| Size 1-3                                      |  | SZ123-R |  |



|                     |        |       |  |
|---------------------|--------|-------|--|
| <b>Cover holder</b> |        |       |  |
| Set of 4 blocks     | SL00-3 | AH-SL |  |



|                              |         |                 |  |
|------------------------------|---------|-----------------|--|
| <b>Switch Posi Indicator</b> |         |                 |  |
| For Vert 3x3 only            | SL1,2+3 | EV-SL123/3x3/10 |  |

# Vertical fuse disconnects - Technical Information

## NH strip-type fuse-switch-disconnectors – Technical data

| Type                       |                                                                      |                        |                |                  | SL00/100                       |                                                                                     | SL00/185                       |                                                                |  |
|----------------------------|----------------------------------------------------------------------|------------------------|----------------|------------------|--------------------------------|-------------------------------------------------------------------------------------|--------------------------------|----------------------------------------------------------------|--|
| Electrical characteristics | According to standard                                                |                        |                |                  | DIN EN 60947-3                 |                                                                                     |                                |                                                                |  |
|                            | For NH fuse-links acc. to DIN VDE 0636-2                             |                        |                | Size             |                                | 000/00                                                                              |                                | 000/00                                                         |  |
|                            | Rated operational voltage                                            |                        |                | U <sub>e</sub>   | V                              | AC690                                                                               |                                | AC690                                                          |  |
|                            | Rated operational current <sup>1)</sup>                              |                        |                | I <sub>e</sub>   | A                              | 160                                                                                 |                                | 160                                                            |  |
|                            | Conv. free air thermal current with fuse-links                       |                        |                | I <sub>th</sub>  | A                              | 160                                                                                 |                                | 160                                                            |  |
|                            | Conv. free air thermal current with solid-links                      |                        |                | I <sub>th</sub>  | A                              | 210                                                                                 |                                | 210                                                            |  |
|                            | Rated frequency                                                      |                        |                | f                | Hz                             | 50-60                                                                               |                                | 50-60                                                          |  |
|                            | Rated insulation voltage                                             |                        |                | U <sub>i</sub>   | V                              | AC800                                                                               |                                | AC800                                                          |  |
|                            | Total power loss at I <sub>th</sub> (without fuse-links)             |                        |                | P <sub>v</sub>   | W                              | 18                                                                                  |                                | 23                                                             |  |
|                            | Power loss at 80% I <sub>th</sub> (without fuse-links) <sup>2)</sup> |                        |                | P <sub>v</sub>   | W                              | 11.5                                                                                |                                | 14.7                                                           |  |
|                            | Rated impulse withstand voltage                                      |                        |                | U <sub>imp</sub> | kV                             | 8                                                                                   |                                | 8                                                              |  |
|                            | Utilization category                                                 |                        |                | -                | -                              | AC-22B (160A/400V)<br>AC-22B (160A/500V)<br>AC-22B (100A/690V)<br>DC21B (160A/250V) |                                | AC-23B (160A/400V)<br>AC-23B (160A/500V)<br>AC-22B (160A/690V) |  |
|                            | Rated conditional short-circuit current <sup>3)</sup>                |                        |                | I <sub>cc</sub>  | kA                             | 80                                                                                  |                                | 100kA (690V)<br>120kA (500V)                                   |  |
|                            | Max. permis. power loss per fuse-link                                |                        |                | P <sub>a</sub>   | W                              | 12                                                                                  |                                | 12                                                             |  |
| Cable terminal             | Flat terminal                                                        | Bolt diameter          | -              | -                | M8                             |                                                                                     | M8                             |                                                                |  |
|                            |                                                                      | Cable lug              | -              | mm <sup>2</sup>  | 1 x 10-95<br>(max. 25mm width) |                                                                                     | 1 x 10-95<br>(max. 25mm width) |                                                                |  |
|                            |                                                                      | Flat bar               | -              | mm               | 20 x10                         |                                                                                     | 20 x10                         |                                                                |  |
|                            |                                                                      | Tightening torque      | M <sub>a</sub> | Nm               | 12-15                          |                                                                                     | 12-15                          |                                                                |  |
|                            | Clamp                                                                | Clamping cross-section | -              | mm <sup>2</sup>  | S00                            | ○ : 1.5-70 Cu/<br>□ : 6 x 9 x 0.8                                                   | S00                            | ○ : 1.5-70 Cu/<br>□ : 6 x 9 x 0.8                              |  |
|                            |                                                                      | Tightening torque      | -              | Nm               |                                | 2.6                                                                                 |                                | 2.6                                                            |  |
|                            |                                                                      | Clamping cross-section | -              | mm <sup>2</sup>  | P00-70                         | 10-70 Al/Cu                                                                         | P00-70                         | 10-70 Al/Cu                                                    |  |
|                            |                                                                      | Tightening torque      | -              | Nm               |                                | 2.6                                                                                 |                                | 2.6                                                            |  |

Annotation: ○ = Round conductor □ = Strip conductor

| Type                 |                                                         |                        |                  |                 | SL00/100                   |                                     | SL00/185 |                             |
|----------------------|---------------------------------------------------------|------------------------|------------------|-----------------|----------------------------|-------------------------------------|----------|-----------------------------|
| Cable terminal       | Clamp                                                   | Clamping cross-section | -                | mm <sup>2</sup> | KU00                       | 10-95 Al/Cu <sup>5)</sup>           | KU00     | 10-95 Al/Cu <sup>5)</sup>   |
|                      |                                                         | Tightening torque      | -                | Nm              |                            | 10                                  |          | 15                          |
|                      |                                                         | Clamping cross-section | -                | mm <sup>2</sup> | F70                        | ○ : 1.5-70 Cu/<br>□ : 6 x 9 x 0.8Cu | KRO      | 16-95 re/rm<br>35-150 se/sm |
|                      |                                                         | Tightening torque      | -                | Nm              |                            | 2.6                                 |          | 20Nm                        |
|                      |                                                         | Clamping cross-section | -                | mm <sup>2</sup> | KM00                       | 16-95 Al/Cu                         | KM00     | 16-95 Al/Cu                 |
|                      |                                                         | Tightening torque      | -                | Nm              |                            | 10                                  |          | 10                          |
| Degree of protection | Front side, device fitted with clamp and lateral covers | Operating condition    | -                | -               | IP30                       |                                     | IP30     |                             |
|                      |                                                         | Switching element open | -                | -               | IP10                       |                                     | IP10     |                             |
| Operating conditions | Ambient temperature <sup>4)</sup>                       |                        | T <sub>amb</sub> | °C              | -25 to +70                 |                                     |          |                             |
|                      | Rated operating mode                                    |                        | -                | -               | Uninterrupted duty         |                                     |          |                             |
|                      | Actuation                                               |                        | -                | -               | Dependent manual operation |                                     |          |                             |
|                      | Mounting position                                       |                        | -                | -               | Vertical, horizontal       |                                     |          |                             |
|                      | Altitude                                                |                        | -                | m               | Up to 2000                 |                                     |          |                             |
|                      | Pollution degree                                        |                        | -                | -               | 3                          |                                     |          |                             |
|                      | Overvoltage category                                    |                        | -                | -               | III                        |                                     | IV       |                             |

1) In case of mounting of several units in low voltage switchgear-combinations, please consider rated diversity factors acc. to DIN EN 61439.

2) Reference value for replacement of devices acc. to DIN EN 61439-1 clause 10.10.4.2.

3) Type tested with NH fuse-links characteristic gG.

4) 35°C Normal temperature, above 35°C up to 70°C with reduces operating current.

5) No verification of non-deterioration acc. to IEC 60269-2 for Al-conductors.

# Vertical fuse disconnects - Technical Information

## NH strip-type fuse-switch-disconnectors – Technical data

| Type                       |                                                                      |                        |                |                  | SL1G            |                                                                                                  | SL2G            |                                                                                                  |  |  |
|----------------------------|----------------------------------------------------------------------|------------------------|----------------|------------------|-----------------|--------------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------|--|--|
| Electrical characteristics | According to standard                                                |                        |                |                  | DIN EN 60947-3  |                                                                                                  |                 |                                                                                                  |  |  |
|                            | For NH fuse-links acc. to DIN VDE 0636-2                             |                        |                | Size             |                 | 1                                                                                                |                 | 2                                                                                                |  |  |
|                            | Rated operational voltage                                            |                        |                | U <sub>e</sub>   | V               | AC690                                                                                            |                 | AC690                                                                                            |  |  |
|                            | Rated operational current <sup>1)</sup>                              |                        |                | I <sub>e</sub>   | A               | 250                                                                                              |                 | 400                                                                                              |  |  |
|                            | Conv. free air thermal current with fuse-links                       |                        |                | I <sub>th</sub>  | A               | 250                                                                                              |                 | 400                                                                                              |  |  |
|                            | Conv. free air thermal current with solid-links                      |                        |                | I <sub>th</sub>  | A               | 400                                                                                              |                 | 630                                                                                              |  |  |
|                            | Rated frequency                                                      |                        |                | -                | Hz              | 50-60                                                                                            |                 | 50-60                                                                                            |  |  |
|                            | Rated insulation voltage                                             |                        |                | U <sub>i</sub>   | V               | AC1000                                                                                           |                 | AC1000                                                                                           |  |  |
|                            | Total power loss at I <sub>th</sub> (without fuse-links)             |                        |                | P <sub>v</sub>   | W               | 23                                                                                               |                 | 54                                                                                               |  |  |
|                            | Power loss at 80% I <sub>th</sub> (without fuse-links) <sup>2)</sup> |                        |                | P <sub>v</sub>   | W               | 14.7                                                                                             |                 | 34.6                                                                                             |  |  |
|                            | Rated impulse withstand voltage                                      |                        |                | U <sub>imp</sub> | kV              | 12                                                                                               |                 | 12                                                                                               |  |  |
|                            | Utilization category                                                 |                        |                | -                | -               | AC-23B (250A/400V)<br>AC-22B (250A/500V)<br>AC-21B (250A/690V)<br>Only 3x3:<br>DC21B (250A/440V) |                 | AC-23B (400A/400V)<br>AC-22B (400A/500V)<br>AC-21B (400A/690V)<br>Only 3x3:<br>DC21B (400A/440V) |  |  |
|                            | Rated conditional short-circuit current <sup>3)</sup>                |                        |                | I <sub>cc</sub>  | kA              | 80                                                                                               |                 |                                                                                                  |  |  |
|                            | Max. permis. power loss per fuse-link                                |                        |                | P <sub>a</sub>   | W               | 32                                                                                               |                 | 45                                                                                               |  |  |
| Cable terminal             | Flat terminal                                                        | Bolt diameter          | -              | -                | M10             |                                                                                                  | M12             |                                                                                                  |  |  |
|                            |                                                                      | Cable lug              | -              | mm <sup>2</sup>  | 1 x 25-185      |                                                                                                  | 1 x 25-300      |                                                                                                  |  |  |
|                            |                                                                      | Flat bar               | -              | mm               | 30 x10          |                                                                                                  | 30 x10          |                                                                                                  |  |  |
|                            |                                                                      | Tightening torque      | M <sub>a</sub> | Nm               | 30-35           |                                                                                                  | 35-40           |                                                                                                  |  |  |
|                            | Clamp                                                                | Clamping cross-section | -              | mm <sup>2</sup>  | KM2G-F          | 25-240                                                                                           | KM2G-F          | 25-240                                                                                           |  |  |
|                            |                                                                      |                        | -              | mm <sup>2</sup>  | RM300           | 25-300                                                                                           | RM300           | 25-300                                                                                           |  |  |
|                            |                                                                      | Tightening torque      | -              | Nm               | -               | 32                                                                                               | -               | 32                                                                                               |  |  |
|                            |                                                                      |                        | -              | Nm               | RM300:<br>25-70 | 12                                                                                               | RM300:<br>25-70 | 12                                                                                               |  |  |
| Degree of protection       | Front side, device fitted with clamp and lateral covers              | Operating condition    | -              | -                | IP30            |                                                                                                  | IP30            |                                                                                                  |  |  |
|                            |                                                                      | Switching element open | -              | -                | IP10            |                                                                                                  | IP10            |                                                                                                  |  |  |
| Operating conditions       | Ambient temperature <sup>4)</sup>                                    |                        |                | T <sub>amb</sub> | °C              | -25 to +70                                                                                       |                 |                                                                                                  |  |  |
|                            | Rated operating mode                                                 |                        |                | -                | -               | Uninterrupted duty                                                                               |                 |                                                                                                  |  |  |
|                            | Actuation                                                            |                        |                | -                | -               | Dependent manual operation                                                                       |                 |                                                                                                  |  |  |
|                            | Mounting position                                                    |                        |                | -                | -               | Vertical, horizontal                                                                             |                 |                                                                                                  |  |  |
|                            | Altitude                                                             |                        |                | -                | m               | Up to 2000                                                                                       |                 |                                                                                                  |  |  |
|                            | Pollution degree                                                     |                        |                | -                | -               | 3                                                                                                |                 |                                                                                                  |  |  |
|                            | Overvoltage category                                                 |                        |                | -                | -               | IV                                                                                               |                 |                                                                                                  |  |  |

1) In case of mounting of several units in low voltage switchgear-combinations, please consider rated diversity factors acc. to DIN EN 61439.

2) Reference value for replacement of devices acc. to DIN EN 61439-1 clause 10.10.4.2.

3) Type tested with NH fuse-links characteristic gG.

4) 35°C Normal temperature, above 35°C up to 70°C with reduces operating current.

| Type                       |                                                                      |                        | SL1H             |                 |                                                                | SL2H   |                                                                |        |  |
|----------------------------|----------------------------------------------------------------------|------------------------|------------------|-----------------|----------------------------------------------------------------|--------|----------------------------------------------------------------|--------|--|
| Electrical characteristics | According to standard                                                |                        |                  |                 | DIN EN 60947-3                                                 |        |                                                                |        |  |
|                            | For NH fuse-links acc. to DIN VDE 0636-2                             |                        | Size             |                 | 1                                                              |        | 2                                                              |        |  |
|                            | Rated operational voltage                                            |                        | U <sub>e</sub>   | V               | AC690                                                          |        | AC690                                                          |        |  |
|                            | Rated operational current <sup>1)</sup>                              |                        | I <sub>e</sub>   | A               | 250                                                            |        | 400                                                            |        |  |
|                            | Conv. free air thermal current with fuse-links                       |                        | I <sub>th</sub>  | A               | 250                                                            |        | 400                                                            |        |  |
|                            | Conv. free air thermal current with solid-links                      |                        | I <sub>th</sub>  | A               | 400                                                            |        | 400                                                            |        |  |
|                            | Rated frequency                                                      |                        | -                | Hz              | 50-60                                                          |        | 50-60                                                          |        |  |
|                            | Rated insulation voltage                                             |                        | U <sub>i</sub>   | V               | AC1000                                                         |        | AC1000                                                         |        |  |
|                            | Total power loss at I <sub>th</sub> (without fuse-links)             |                        | P <sub>v</sub>   | W               | 29                                                             |        | 73                                                             |        |  |
|                            | Power loss at 80% I <sub>th</sub> (without fuse-links) <sup>2)</sup> |                        | P <sub>v</sub>   | W               | 18.6                                                           |        | 46.7                                                           |        |  |
|                            | Rated impulse withstand voltage                                      |                        | U <sub>imp</sub> | kV              | 12                                                             |        | 12                                                             |        |  |
|                            | Utilization category                                                 |                        | -                | -               | AC-23B (250A/400V)<br>AC-22B (250A/500V)<br>AC-21B (250A/690V) |        | AC-23B (400A/400V)<br>AC-22B (400A/500V)<br>AC-21B (400A/690V) |        |  |
|                            | Rated conditional short-circuit current <sup>3)</sup>                |                        | I <sub>cc</sub>  | kA              | 120                                                            |        |                                                                |        |  |
|                            | Max. permis. power loss per fuse-link                                |                        | P <sub>a</sub>   | W               | 23                                                             |        | 34                                                             |        |  |
| Cable terminal             | Flat terminal                                                        | Bolt diameter          | -                | -               | M10                                                            |        | M12                                                            |        |  |
|                            |                                                                      | Cable lug              | -                | mm <sup>2</sup> | 1 x 25-150                                                     |        | 1 x 25-240                                                     |        |  |
|                            |                                                                      | Flat bar               | -                | mm              | 30 x10                                                         |        | 30 x10                                                         |        |  |
|                            |                                                                      | Tightening torque      | M <sub>a</sub>   | Nm              | 30-35                                                          |        | 35-40                                                          |        |  |
|                            | Clamp                                                                | Clamping cross-section | -                | mm <sup>2</sup> | KM2G-F                                                         | 25-240 | KM2G-F                                                         | 25-240 |  |
|                            |                                                                      |                        | -                | mm <sup>2</sup> | RM300                                                          | 25-300 | RM300                                                          | 25-300 |  |
|                            |                                                                      | Tightening torque      | -                | Nm              | -                                                              | 32     | -                                                              | 32     |  |
|                            |                                                                      |                        | -                |                 | RM300: 25-70                                                   | 12     | RM300: 25-70                                                   | 12     |  |
| Degree of protection       | Front side, device fitted with clamp and lateral covers              | Operating condition    | -                | -               | IP30                                                           |        | IP30                                                           |        |  |
|                            |                                                                      | Switching element open | -                | -               | IP10                                                           |        | IP10                                                           |        |  |
| Operating conditions       | Ambient temperature <sup>4)</sup>                                    |                        | T <sub>amb</sub> | °C              | -25 to +70                                                     |        |                                                                |        |  |
|                            | Rated operating mode                                                 |                        | -                | -               | Uninterrupted duty                                             |        |                                                                |        |  |
|                            | Actuation                                                            |                        | -                | -               | Dependent manual operation                                     |        |                                                                |        |  |
|                            | Mounting position                                                    |                        | -                | -               | Vertical, horizontal                                           |        |                                                                |        |  |
|                            | Altitude                                                             |                        | -                | m               | Up to 2000                                                     |        |                                                                |        |  |
|                            | Pollution degree                                                     |                        | -                | -               | 3                                                              |        |                                                                |        |  |
|                            | Overvoltage category                                                 |                        | -                | -               | IV                                                             |        |                                                                |        |  |

1) In case of mounting of several units in low voltage switchgear-combinations, please consider rated diversity factors acc. to DIN EN 61439.

2) Reference value for replacement of devices acc. to DIN EN 61439-1 clause 10.10.4.2.

3) Type tested with NH fuse-links characteristic gG.

4) 35°C Normal temperature, above 35°C up to 70°C with reduces operating current.

# Vertical fuse disconnects - Technical Information

## NH strip-type fuse-switch-disconnectors – Technical data

| Type                       |                                                                      |                        |                |                  | SL3             |                                                                                                        | SL3/910A         |                                           |  |
|----------------------------|----------------------------------------------------------------------|------------------------|----------------|------------------|-----------------|--------------------------------------------------------------------------------------------------------|------------------|-------------------------------------------|--|
| Electrical characteristics | According to standard                                                |                        |                |                  | DIN EN 60947-3  |                                                                                                        |                  |                                           |  |
|                            | For NH fuse-links acc. to DIN VDE 0636-2                             |                        |                | Size             |                 | 3                                                                                                      |                  | 3                                         |  |
|                            | Rated operational voltage                                            |                        |                | U <sub>e</sub>   | V               | AC690                                                                                                  |                  | AC400                                     |  |
|                            | Rated operational current <sup>1)</sup>                              |                        |                | I <sub>e</sub>   | A               | 630                                                                                                    |                  | 910                                       |  |
|                            | Conv. free air thermal current with fuse-links                       |                        |                | I <sub>th</sub>  | A               | 630                                                                                                    |                  | 910                                       |  |
|                            | Conv. free air thermal current with solid-links                      |                        |                | I <sub>th</sub>  | A               | 800                                                                                                    |                  | 1250                                      |  |
|                            | Rated frequency                                                      |                        |                | -                | Hz              | 50-60                                                                                                  |                  | 50-60                                     |  |
|                            | Rated insulation voltage                                             |                        |                | U <sub>i</sub>   | V               | AC1000                                                                                                 |                  | AC690                                     |  |
|                            | Total power loss at I <sub>th</sub> (without fuse-links)             |                        |                | P <sub>v</sub>   | W               | 115                                                                                                    |                  | 155                                       |  |
|                            | Power loss at 80% I <sub>th</sub> (without fuse-links) <sup>2)</sup> |                        |                | P <sub>v</sub>   | W               | 73.6                                                                                                   |                  | 99.2                                      |  |
|                            | Rated impulse withstand voltage                                      |                        |                | U <sub>imp</sub> | kV              | 12                                                                                                     |                  | 8                                         |  |
|                            | Utilization category                                                 |                        |                | -                | -               | AC-23B (630A/400V)<br>AC-22B (630A/500V)<br>AC-21B (630A/690V)<br>Nur / Only 3x3:<br>DC21B (500A/440V) |                  | AC-22B (1250A/400V)<br>AC-22B (910A/400V) |  |
|                            | Rated conditional short-circuit current                              |                        |                | I <sub>cc</sub>  | kA              | 120 <sup>3)</sup>                                                                                      |                  | 80                                        |  |
|                            | Rated short-time withstand current                                   |                        |                | I <sub>cw</sub>  | kA              | 10/15kA/1s <sup>4)</sup>                                                                               |                  | 10/15kA/1s <sup>4)</sup>                  |  |
|                            | Max. permis. power loss per fuse-link                                |                        |                | P <sub>a</sub>   | W               | 48                                                                                                     |                  | 61                                        |  |
| Cable terminal             | Flat terminal                                                        | Bolt diameter          | -              | -                | M12             |                                                                                                        | 2 x M12          |                                           |  |
|                            |                                                                      | Cable lug              | -              | mm <sup>2</sup>  | 1 x 25-300      | Width max.<br>43mm                                                                                     | 2 x 300, 3 x 185 |                                           |  |
|                            |                                                                      | Flat bar               | -              | mm               | 30 x10          |                                                                                                        | 80 x10           |                                           |  |
|                            |                                                                      | Tightening torque      | M <sub>a</sub> | Nm               | 35-40           |                                                                                                        | 35-40            |                                           |  |
|                            | Clamp                                                                | Clamping cross-section | -              | mm <sup>2</sup>  | KM2G            | 25-150/<br>185-300                                                                                     | -                | -                                         |  |
|                            |                                                                      |                        | -              | mm <sup>2</sup>  | KM2G-F          | 25-240                                                                                                 | -                | -                                         |  |
|                            |                                                                      |                        | -              | mm <sup>2</sup>  | RM300           | 25-300                                                                                                 | -                | -                                         |  |
|                            |                                                                      | Tightening torque      | -              | -                | -               | 32                                                                                                     | -                | 32                                        |  |
|                            |                                                                      |                        | -              | Nm               | RM300:<br>25-70 | 12                                                                                                     | RM300:<br>25-70  | 12                                        |  |
| -                          |                                                                      |                        | -              | -                | -               | -                                                                                                      | -                |                                           |  |
| Degree of protection       | Front side, device fitted with clamp and lateral covers              | Operating condition    | -              | -                | IP30            |                                                                                                        | IP30             |                                           |  |
|                            |                                                                      | Switching element open | -              | -                | IP10            |                                                                                                        | IP10             |                                           |  |
| Operating conditions       | Ambient temperature <sup>5)</sup>                                    |                        |                | T <sub>amb</sub> | °C              | -25 to +70                                                                                             |                  |                                           |  |
|                            | Rated operating mode                                                 |                        |                | -                | -               | Uninterrupted duty                                                                                     |                  |                                           |  |
|                            | Rated operating mode                                                 |                        |                | -                | -               | Dependent manual operation                                                                             |                  |                                           |  |
|                            | Mounting position                                                    |                        |                | -                | -               | Vertical, horizontal                                                                                   |                  |                                           |  |
|                            | Altitude                                                             |                        |                | -                | m               | Up to 2000                                                                                             |                  |                                           |  |
|                            | Pollution degree                                                     |                        |                | -                | -               | 3                                                                                                      |                  |                                           |  |
|                            | Overvoltage category                                                 |                        |                | -                | -               | IV                                                                                                     |                  |                                           |  |

1) In case of mounting of several units in low voltage switchgear-combinations, please consider rated diversity factors acc. to DIN EN 61439.

2) Reference value for replacement of devices acc. to DIN EN 61439-1 clause 10.10.4.2.

3) Type tested at AC420V with NH fuse-links 630A/500V characteristic gG, at AC725V with NH fuse-links 500A/690V characteristic gG.

4) 1-pole/3-pole switchable.

5) 35°C Normal temperature, above 35°C up to 70°C with reduces operating current.

| Type                       |                                                                      | SL3/1000-TM            |                  |                 | SL3/1250                                                        |                                                                   |
|----------------------------|----------------------------------------------------------------------|------------------------|------------------|-----------------|-----------------------------------------------------------------|-------------------------------------------------------------------|
| Electrical characteristics | According to standard                                                |                        |                  | DIN EN 60947-3  |                                                                 |                                                                   |
|                            | For NH fuse-links acc. to DIN VDE 0636-2                             |                        | Size             |                 | 3                                                               | 3                                                                 |
|                            | Rated operational voltage                                            |                        | U <sub>e</sub>   | V               | AC690                                                           | AC690                                                             |
|                            | Rated operational current <sup>1)</sup>                              |                        | I <sub>e</sub>   | A               | 1000                                                            | 1250                                                              |
|                            | Conv. free air thermal current with fuse-links                       |                        | I <sub>th</sub>  | A               | 630                                                             | 1250                                                              |
|                            | Conv. free air thermal current with solid-links                      |                        | I <sub>th</sub>  | A               | 1000                                                            | 1600                                                              |
|                            | Rated frequency                                                      |                        | -                | Hz              | 50-60                                                           | 50-60                                                             |
|                            | Rated insulation voltage                                             |                        | U <sub>i</sub>   | V               | AC1000                                                          | AC1000                                                            |
|                            | Total power loss at I <sub>th</sub> (without fuse-links)             |                        | P <sub>v</sub>   | W               | 275                                                             | 215                                                               |
|                            | Power loss at 80% I <sub>th</sub> (without fuse-links) <sup>2)</sup> |                        | P <sub>v</sub>   | W               | 176                                                             | 138                                                               |
|                            | Rated impulse withstand voltage                                      |                        | U <sub>imp</sub> | kV              | 12                                                              | 12                                                                |
|                            | Utilization category                                                 |                        | -                | -               | AC-22B (1000A/400V)<br>AC-22B (800A/500V)<br>AC-21B (630A/690V) | AC-22B (1250A/400V)<br>AC-22B (1250A/500V)<br>AC-21B (1250A/690V) |
|                            | Rated conditional short-circuit current                              |                        | I <sub>cc</sub>  | kA              | 120 <sup>3)</sup>                                               | 80                                                                |
|                            | Rated short-time withstand current                                   |                        | I <sub>cw</sub>  | kA              | 10/15/25/1s <sup>4)</sup>                                       | 20/25/46/1s <sup>4)</sup>                                         |
|                            | Max. permis. power loss per fuse-link                                |                        | P <sub>a</sub>   | W               | 51                                                              | 48                                                                |
| Cable terminal             | Flat terminal                                                        | Bolt diameter          | -                | -               | 2 x M12                                                         | 3 x M12                                                           |
|                            |                                                                      | Cable lug              | -                | mm <sup>2</sup> | 2 x 300, 3 x 120                                                | 3 x 300, 4 x 185                                                  |
|                            |                                                                      | Flat bar               | -                | mm              | 80 x10                                                          | -                                                                 |
|                            |                                                                      | Tightening torque      | M <sub>a</sub>   | Nm              | 35-40                                                           | 35-40                                                             |
| Degree of protection       | Front side, device fitted with clamp and lateral covers              | Operating condition    | -                | -               | IP30                                                            | IP30                                                              |
|                            |                                                                      | Switching element open | -                | -               | IP10                                                            | IP10                                                              |
| Operating conditions       | Ambient temperature <sup>5)</sup>                                    |                        | T <sub>amb</sub> | °C              | -25 to +70                                                      |                                                                   |
|                            | Rated operating mode                                                 |                        | -                | -               | Uninterrupted duty                                              |                                                                   |
|                            | Rated operating mode                                                 |                        | -                | -               | Dependent manual operation                                      |                                                                   |
|                            | Mounting position                                                    |                        | -                | -               | Vertical, horizontal                                            |                                                                   |
|                            | Altitude                                                             |                        | -                | m               | Up to 2000                                                      |                                                                   |
|                            | Pollution degree                                                     |                        | -                | -               | 3                                                               |                                                                   |
|                            | Overvoltage category                                                 |                        | -                | -               | IV                                                              |                                                                   |

1) In case of mounting of several units in low voltage switchgear-combinations, please consider rated diversity factors acc. to DIN EN 61439.

2) Reference value for replacement of devices acc. to DIN EN 61439-1 clause 10.10.4.2.

3) Type tested at AC420V with NH fuse-links 630A/500V characteristic gG, at AC725V with NH fuse-links 500A/690V characteristic gG.

4) 1-pole/3-pole switchable/with additional interlock.

5) 35°C Normal temperature, above 35°C up to 70°C with reduces operating current.

# Vertical fuse disconnects - Technical Information

## NH strip-type fuse-switch-disconnectors – Technical data

| Type                       |                                                                      |                        |                  |                 | SL3/1600-TM                                                       | SL3/2000-TM               |
|----------------------------|----------------------------------------------------------------------|------------------------|------------------|-----------------|-------------------------------------------------------------------|---------------------------|
| Electrical characteristics | According to standard                                                |                        |                  |                 | DIN EN 60947-3                                                    |                           |
|                            | For NH fuse-links acc. to DIN VDE 0636-2                             |                        | Size             |                 | 3                                                                 | 3                         |
|                            | Rated operational voltage                                            |                        | U <sub>e</sub>   | V               | AC690                                                             | AC400                     |
|                            | Rated operational current <sup>1)</sup>                              |                        | I <sub>e</sub>   | A               | 1600                                                              | 2000                      |
|                            | Conv. free air thermal current with fuse-links                       |                        | I <sub>th</sub>  | A               | 1250                                                              | gG 1600/gTr 1444          |
|                            | Conv. free air thermal current with solid-links                      |                        | I <sub>th</sub>  | A               | 1600                                                              | 2000                      |
|                            | Rated frequency                                                      |                        | -                | Hz              | 50-60                                                             | 50-60                     |
|                            | Rated insulation voltage                                             |                        | U <sub>i</sub>   | V               | AC1000                                                            | AC690                     |
|                            | Total power loss at I <sub>th</sub> (without fuse-links)             |                        | P <sub>v</sub>   | W               | 350                                                               | 375                       |
|                            | Power loss at 80% I <sub>th</sub> (without fuse-links) <sup>2)</sup> |                        | P <sub>v</sub>   | W               | 224                                                               | 240                       |
|                            | Rated impulse withstand voltage                                      |                        | U <sub>imp</sub> | kV              | 12                                                                | 8                         |
|                            | Utilization category                                                 |                        | -                | -               | AC-22B (1600A/400V)<br>AC-22B (1600A/500V)<br>AC-21B (1250A/690V) | AC-22B (2000A/400V)       |
|                            | Rated conditional short-circuit current <sup>3)</sup>                |                        | I <sub>cc</sub>  | kA              | 80                                                                | 50                        |
|                            | Rated short-time withstand current                                   |                        | I <sub>cw</sub>  | kA              | 20/25/46/1s <sup>4)</sup>                                         | 20/25/46/1s <sup>4)</sup> |
|                            | Max. permis. power loss per fuse-link                                |                        | P <sub>a</sub>   | W               | 48                                                                | 51                        |
| Cable terminal             | Flat terminal                                                        | Bolt diameter          | -                | -               | 3 x M12                                                           | 4 x M12                   |
|                            |                                                                      | Cable lug              | -                | mm <sup>2</sup> | 3 x 300, 4 x 185                                                  | 4 x 300                   |
|                            |                                                                      | Flat bar               | -                | mm              | -                                                                 | -                         |
|                            |                                                                      | Tightening torque      | M <sub>a</sub>   | Nm              | 35-40                                                             | 35-40                     |
| Degree of protection       | Front side, device fitted with clamp and lateral covers              | Operating condition    | -                | -               | IP30                                                              | IP30                      |
|                            |                                                                      | Switching element open | -                | -               | IP10                                                              | IP10                      |
| Operating conditions       | Ambient temperature <sup>5)</sup>                                    |                        | T <sub>amb</sub> | °C              | -25 to +70                                                        |                           |
|                            | Rated operating mode                                                 |                        | -                | -               | Uninterrupted duty                                                |                           |
|                            | Rated operating mode                                                 |                        | -                | -               | Dependent manual operation                                        |                           |
|                            | Mounting position                                                    |                        | -                | -               | Vertical, horizontal                                              |                           |
|                            | Altitude                                                             |                        | -                | m               | Up to 2000                                                        |                           |
|                            | Pollution degree                                                     |                        | -                | -               | 3                                                                 |                           |
|                            | Overvoltage category                                                 |                        | -                | -               | IV                                                                |                           |

1) In case of mounting of several units in low voltage switchgear-combinations, please consider rated diversity factors acc. to EN 61439-1.

2) Reference value for replacement of devices acc. to DIN EN 61439-1 clause 10.10.4.2.

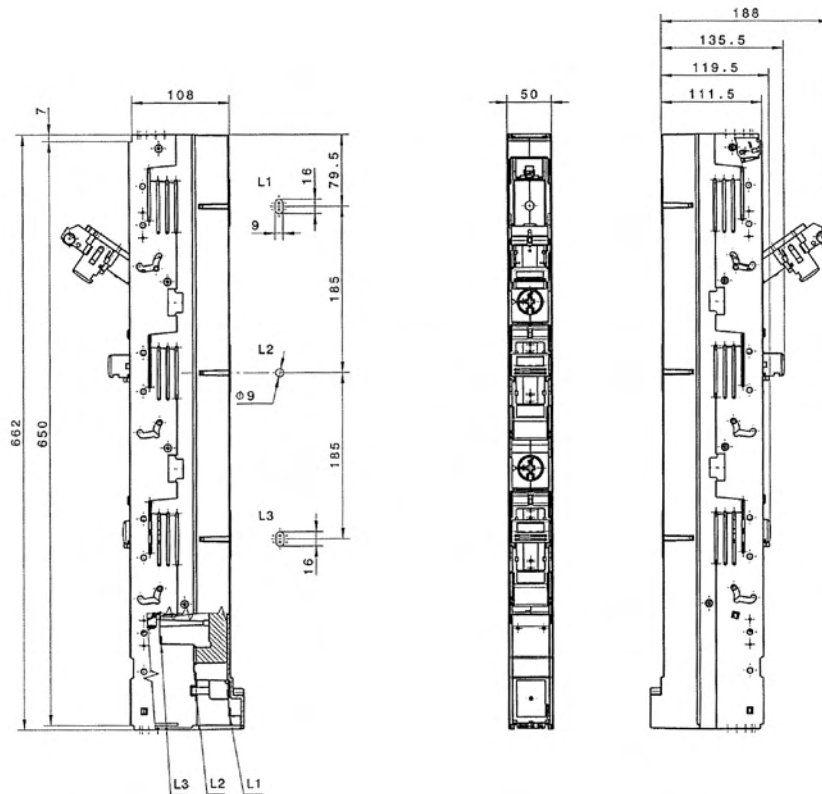
3) Type tested with NH fuse-links characteristic gG.

4) 1-pole/3-pole switchable/with additional interlock.

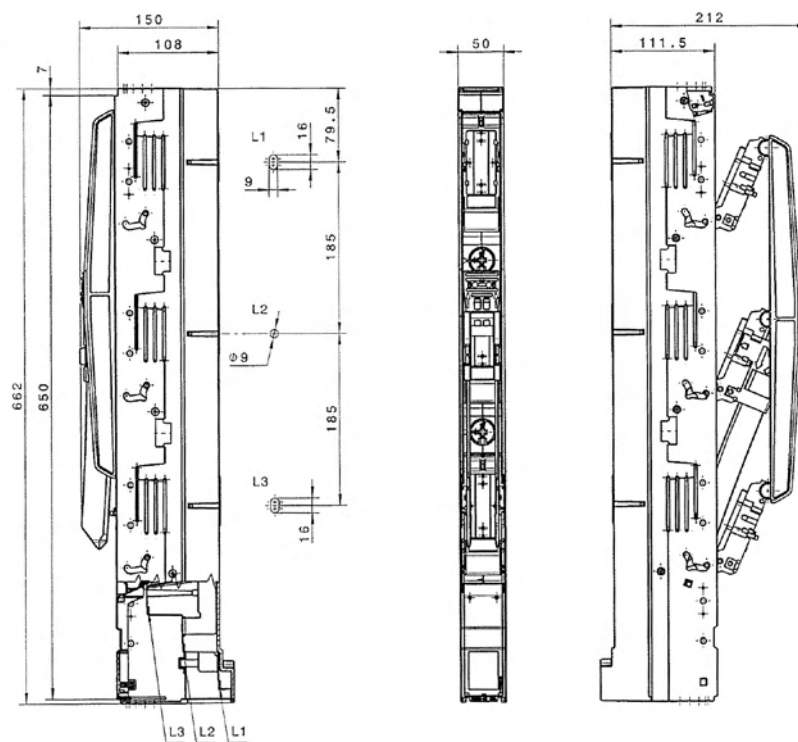
5) 35°C Normal temperature, above 35°C up to 70°C with reduces operating current.

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SL00-3X/185/F  
PU-SL00-3X/185/F



SL00-3X3/185/F  
PU-SL00-3X3/185/F



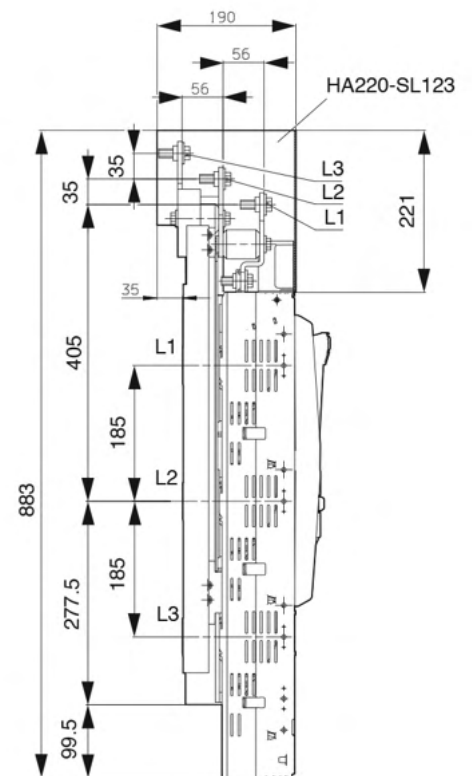
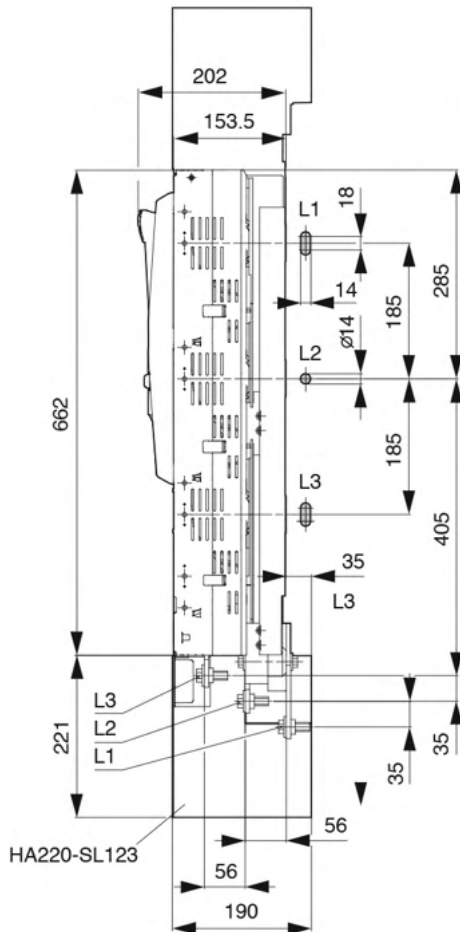
SL1G-3X/3A  
SL2G-3X3/3A  
SL2G-3X/3A  
SL2G-3X3/3A  
SL3-3X/3A  
SL3-3X3/3A

SL1G-3X/W/3A  
SL2G-3X3/W/3A  
SL2G-3X/W/3A  
SL2G-3X3/W/3A  
SL3-3X/W/3A  
SL3-3X3/W/3A

PU-SL1H-3X/3A  
 PU-SL1H-3X3/3A  
 PU-SL2H-3X/3A  
 PU-SL2H-3X3/3A  
 PU-SL3H-3X/3A  
 PU-SL3H-3X3/3A



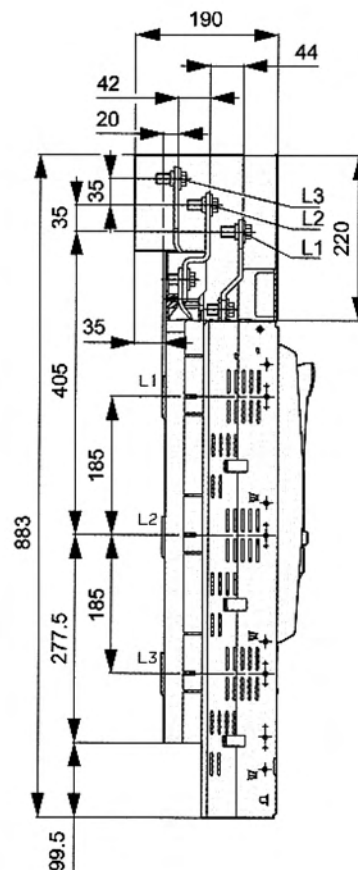
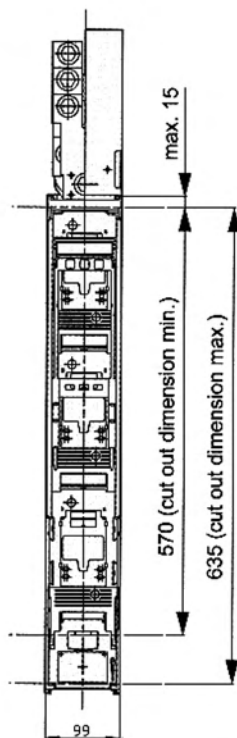
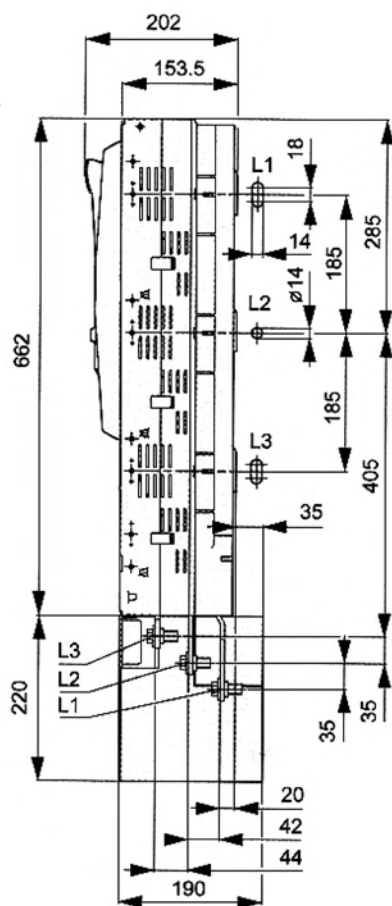
SL3-3X/910/HA  
SL3-3X3/910/HA



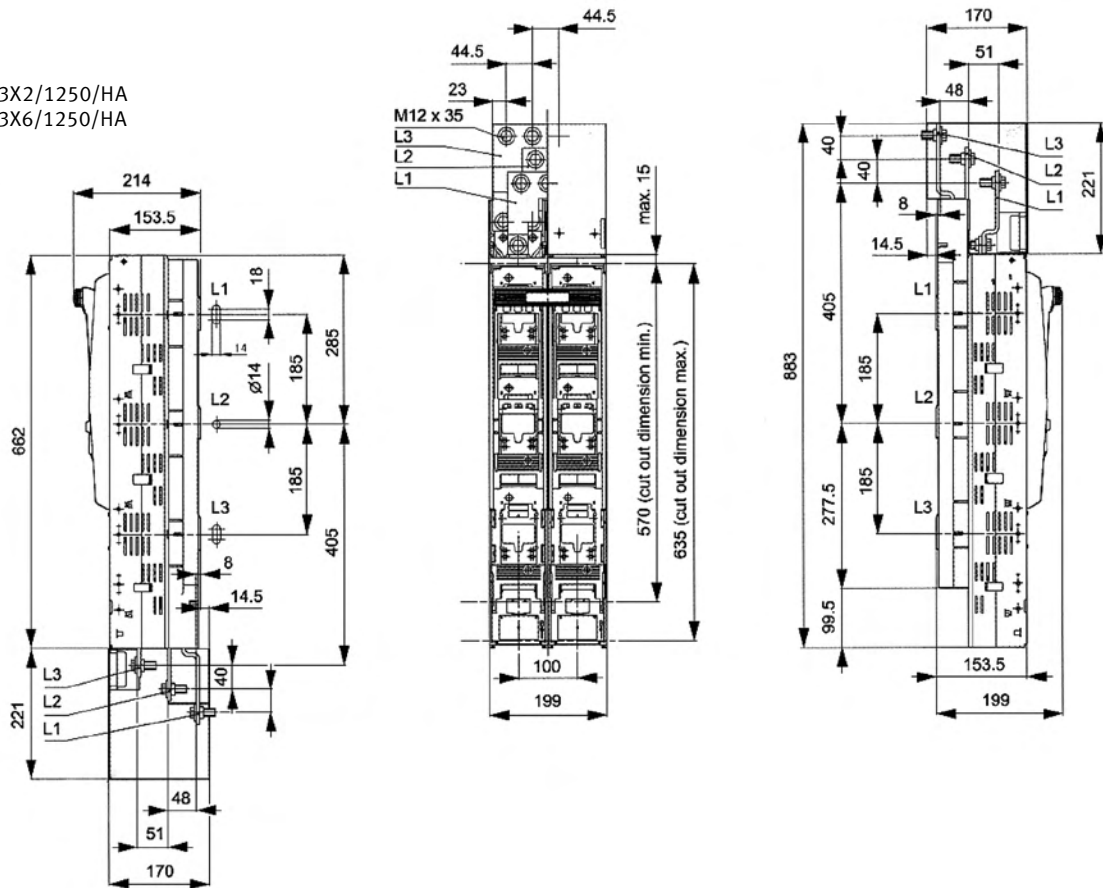
# Vertical fuse disconnects - Dimensions

SL3-3X/1000/HA  
SL3-3X3/1000/HA

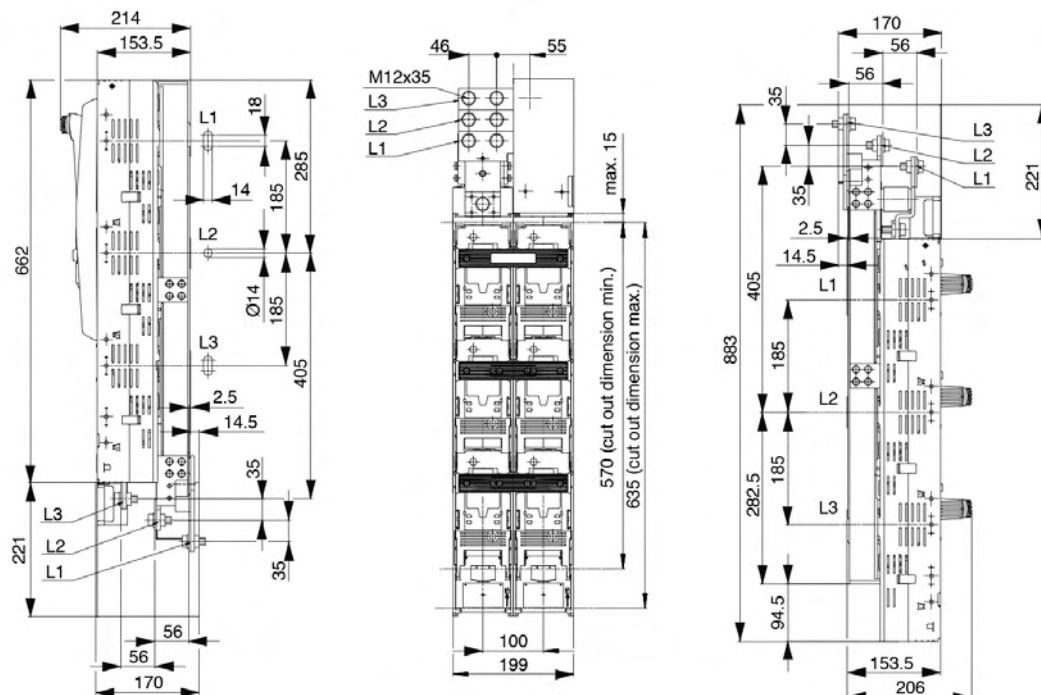
SL3-3X/1000/W/HA  
SL3-3X3/1000/W/HA



SL3-3X2/1250/HA  
SL3-3X6/1250/HA



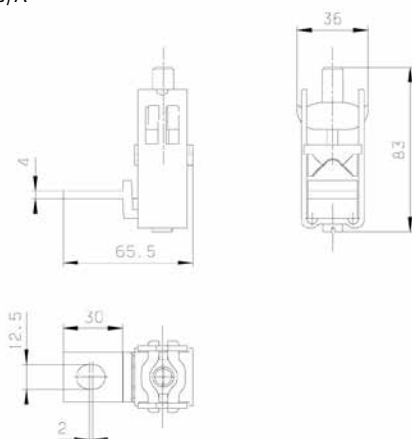
SL3-3X2/2000/HA  
SL3-3X6/2000/HA



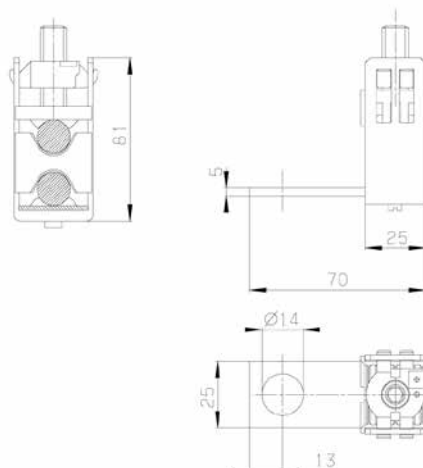
# Vertical fuse disconnects - Dimensions

## Vertical disconnect accessories

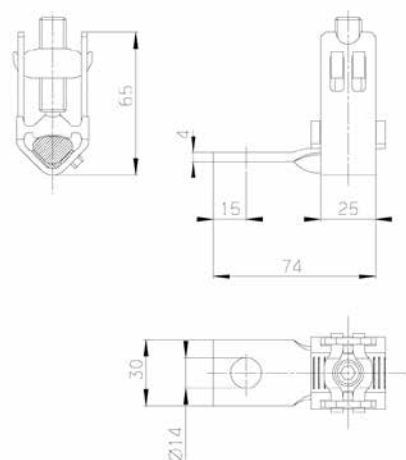
### Terminals with connecting lugs K2G/A



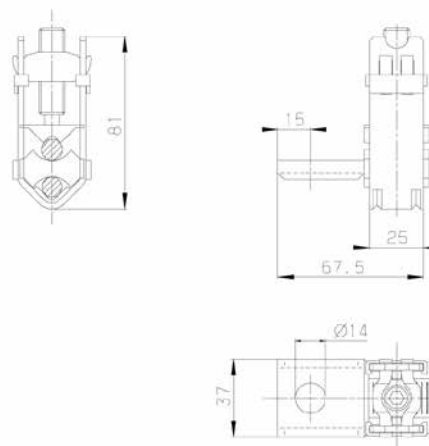
### K2HG/2/AF30



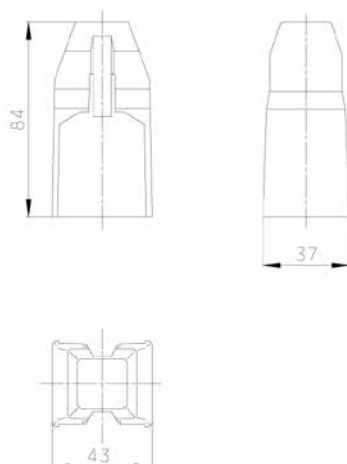
### KM2G/AF3040



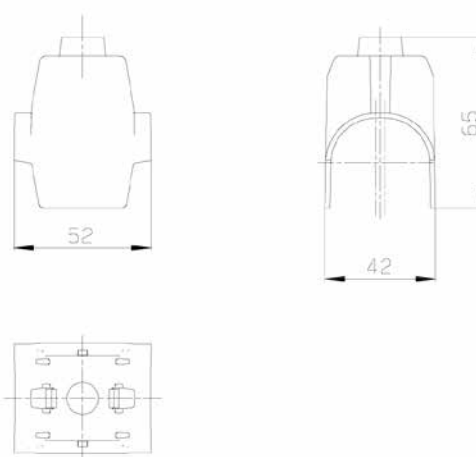
### KV2HG/2/AF30



### Covers for terminals with connecting lugs HR

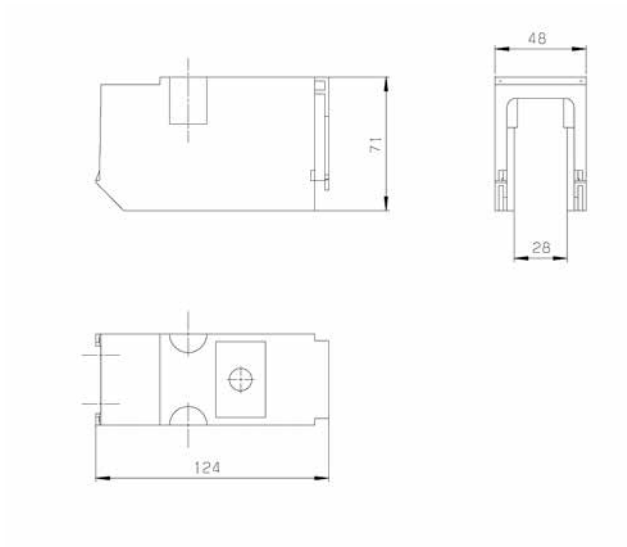


### HRV

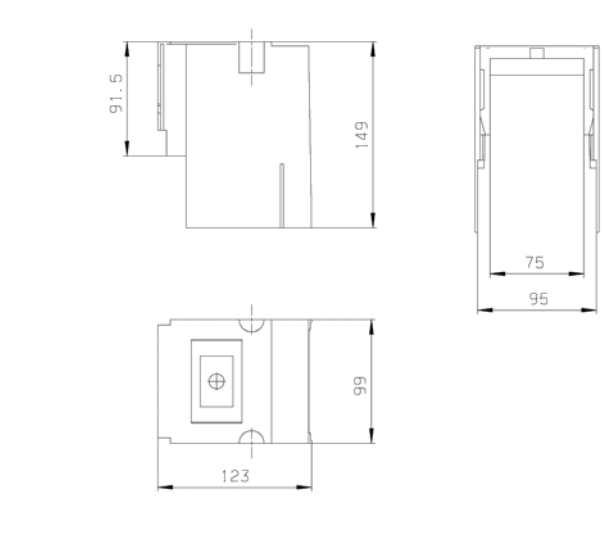


## Terminal covers

HA-SL00/185



HA-SL123/10



HA220-SL123/10

