



## ELECTROTECHNICAL EQUIPMENT

9



### Standards:

- EN/CEI 60900
- EN/CEI 61010-2-31 (if applicable)
- EN/CEI 10020

### Insulated D8mm pin

Designed to connect up a variety of electrotechnical equipment (for example: Shunt devices, current tapplings, connection cables, etc.)

#### Technical characteristics:

- For application on contacts with hole diameter 8 mm (e.g. insulated terminals D8 mm, perforated insulation terminals or terminal strips)
- Spreader pin can be spread open up to a  $\varnothing$  of 8.5 mm
- Contact protection of the contact pin by means of a springy insulating sleeve
- Clamping device for connecting the conductor (max. 35 mm<sup>2</sup>) inside the pin
- Identification of terminals with phase colour coding
- Elbow form
- Protection against short circuits 8kA for 0,2 sec. or 1,3kA for 60 sec.
- For currents up to 200A for 60 min. or 250A for 15 min.
- Nominal voltage up to 600V AC / DC (50-60 Hz)
- Slip protection according to EN CEI 60900

| Description          | Order No. | Dimensions    | Weight |
|----------------------|-----------|---------------|--------|
| Pin D8 black neutral | 21011     | 110x105x30 mm | 160 g  |
| Pin D8 grey R        | 21014     | 110x105x30 mm | 160 g  |
| Pin D8 brown S       | 21013     | 110x105x30 mm | 160 g  |
| Pin D8 black T       | 21012     | 110x105x30 mm | 160 g  |
| Pin D8 blue N        | 21015     | 110x105x30 mm | 160 g  |



Strudy case - AB4712

### Connection cable with D8mm pin

Suitable for bridging a phase under load in LV systems (e.g. replacing / changing fuses, Connecting /disconnecting lines, etc.).

#### Technical characteristics:

- Connection by means of insulated spreader pins D8
- Flexible cable with double insulation according to IEC 228 standards
- Cable length 3 m
- Rated voltage of the cable up to U/U0 1.8 /3 kV
- Designed for a load of 200A for 60 min. or 250A for 15 min.
- Rated voltage up to 600V AC / DC (50-60Hz)
- Short-circuit strength 8kA for sec. or 1.3kA for 60 sec.

| Description      | Order No. | Color/Descrip. | Cable cross sect.  |
|------------------|-----------|----------------|--------------------|
| Connection cable | 21195     | black / L3     | 25 mm <sup>2</sup> |
| Connection cable | 21192     | blue / N       | 25 mm <sup>2</sup> |
| Connection cable | 21196     | brown / L2     | 25 mm <sup>2</sup> |
| Connection cable | 21197     | grey / L1      | 25 mm <sup>2</sup> |

#### Set equipment:

- Connection cable - 2119...
- Strudy case

Other lenghts on request



Clamp 10 - 95 mm<sup>2</sup> - 2103 1



Clamp 70 - 240 mm<sup>2</sup> - 2103 4



Phases identified



Sturdy case - 2103 0

### Insulated perforation clamp

Designed to connect up a variety of electrotechnical equipment (for example: Shunt devices, current tapplings, connection cables, etc.)

#### Technical characteristics:

- Connection by perforation of the insulating covering
- Size 10 - 95 for NS cables from 10 to approx. 95 mm<sup>2</sup> (outer diameter max. 16 mm)
- Size 95 - 240 for NS-cable up to 240 mm<sup>2</sup>
- **Note:** Maximum thickness of the insulation wall 3 mm
- Shock protection for the perforating point by spring loaded insulating sleeve
- Identification of terminals with phase colour coding, definable by grip rotation
- Nominal voltage up to 600V AC / DC (50-60Hz)
- Insulation and slip protection based on EN / IEC 60900: 2004
- Contact protection based on DIN EN 61010-034
- Connection socket D4mm according to DIN EN 61010-034 designed for one load by max. 16A (see picture D4)
- Connection socket D8 designed for a load of 200A for 60 min. or 250A 15 min.
- Rated voltage up to 600V AC / DC (50-60Hz)
- Slip protection according to EN CEI 60900

#### Standards:

EN/CEI 60900  
EN/CEI 61010-2-31  
EN/CEI 10020

| Description                        | Order No. | Dimensions    | Weight |
|------------------------------------|-----------|---------------|--------|
| Set 10-95                          | 21030     | 200x170x75 mm | 878 g  |
| Insulated perforation clamp 10-95  | 21033     | 175x35x42 mm  | 187 g  |
| Set 95-240                         | 21040     | 200x170x80 mm | 1300 g |
| Insulated perforation clamp 95-240 | 21034     | 185x38x50 mm  | 300 g  |

#### Set equipment:

- 4 insulated perforation clamps
- Sturdy case



Socket D4 mm for current take-off and electric measurements



Socket D8 mm with D8 Intercable plug for shunts and current take-off



### Set of D4mm adapter for measurement kit

Used to connect up test or measurement instruments and equipment on hex or cylindrical heads and threaded bars or pins.

#### Technical characteristics:

- D4mm contact hole in compliance with standards EN CEI 61010-2-31
- Permanent use up to 32A
- Insulated terminals with 600V/Cat. III operating voltages

#### Standards:

EN/CEI 60900  
EN/CEI 10020  
EN/CEI 61010-2-31

| Description             | Order No. | Dimensions    | Weight |
|-------------------------|-----------|---------------|--------|
| Set: Measurement kit D6 | 22305     | 345x265x65 mm | 1,8 kg |
| Case: empty             | 2209080   | 345x265x65 mm | -      |

Insulated clamp D4 mm  
2130 003



Insulated clamp D4 mm  
2130 002



Insulated clamp D4 mm  
2130 001



Insulated clamp D4 mm  
2130 005



Insulated clamp D4 mm  
2130 004





Model Version A



Model Version B

### Set adapters D8 mm for electrotechnical equipment

Adapter for current shunts and electrical measurements (e.g. shunts, current take-off devices, connection cables, measuring instruments, etc.) from hexagonal head bolts and socket head screws, studs, bolts and cylindrical plugs.

#### Technical characteristics:

- Connect the adapters or inserts using an insulated attachment handle
- Current capacity 200A for 60 min., 250A for 15 min.
- Nominal voltage up to 600 V AC / DC (50-60 Hz)

| Description                            | Order No. | Dimensions    |
|--|-----------|---------------|
| Set adapters with D6 (Vers. A) 1 pol.  | 22202     | 320x115x45 mm |
| Set adapters with D6 (Vers. A) 2 pol.  | 22204     | 320x115x45 mm |
| Set adapters with D6 (Vers. B) 3 pol.  | 22206     | 230x210x55 mm |
| Set adapters with D6 (Vers. B) 4 pol.  | 22208     | 230x210x55 mm |
| Set adapters with D6L (Vers. A) 1 pol. | 22212     | 320x115x45 mm |
| Set adapters with D6L (Vers. A) 2 pol. | 22214     | 320x115x45 mm |
| Set adapters with D6L (Vers. B) 3 pol. | 22216     | 230x210x55 mm |
| Set adapters with D6L (Vers. B) 4 pol. | 22218     | 230x210x55 mm |
| Version A empty: Transparent case      | D990112   | 320x115x45 mm |
| Version B empty: Rigid case            | AB22208   | 230x210x45 mm |

- Short circuit protection 8 kA for 0,2 sec. or 1,3 kA for 60 sec.
- Slip protection according to IEC 60900

#### Set equipment: (\*depending on the number of poles)

- 1 insulated grip - 2101 1
- \* insulated clamp - 2202 1
- \* Hex tightening inserts 13/17/19 mm - 2203 0...
- \* Standard tightening insert D6 - 2203 106 or 2104 106
- Rigid case A or B



Insulated grip D8 mm - 2201 1



Allows adjustment of the connection torque of 10Nm via a torque wrench



Insulated D8 mm clamp - 2202 1



### Protection ultra-rapid AC waR

• For screw fuse holder Item No. 073326

| Description                  | Order No. | Dimensions | Tension |
|------------------------------|-----------|------------|---------|
| Protection ultra-rapid AC aR | 07343081  | 27 x 60 mm | 12 A    |
|                              | 07343083  | 27 x 60 mm | 32 A    |
|                              | 07343086  | 27 x 60 mm | 63 A    |
|                              | 07343087  | 27 x 60 mm | 100 A   |
|                              | 07343088  | 27 x 60 mm | 125 A   |
|                              | 07343089  | 27 x 60 mm | 160 A   |
|                              | 07343090  | 27 x 60 mm | 200 A   |
|                              | 07343091  | 27 x 60 mm | 250 A   |



### Insulated grip

• For assembly of insulated terminals D4mm/D8mm  
• To standards EN/IEC 60900

| Description    | Order No. | Dimensions  | Weight |
|----------------|-----------|-------------|--------|
| Insulated grip | 22011     | 180 x 55 mm | 164 g  |



### Insulated D4mm clamp for electrical measurements

• Connector D4mm to standards DIN EN 61010-031 for maximum current 16A  
• Nominal voltage up to 600V AC / DC (50-60Hz)  
• Over-volt protection category III



| Description           | Order No. | Color        | Weight |
|-----------------------|-----------|--------------|--------|
| Insulated clamp D4 mm | 2130001   | black        | 62 g   |
| Insulated clamp D4 mm | 2130002   | green        | 64 g   |
| Insulated clamp D4 mm | 2130003   | red          | 63 g   |
| Insulated clamp D4 mm | 2130004   | blue         | 64 g   |
| Insulated clamp D4 mm | 2130005   | yellow/green | 62 g   |



### Standard D6 tightening insert

- For use only in combination with insulated terminals D4/D8
- The internal expansion mechanism guarantees perfect connection to the socket head screws
- Current load 200A for 60 min. or 250A for 15 min.
- Short circuit protection 8kA for 0,2 sec. or 1,3kA for 60 sec.

| Description | Order No. | Dimensions | Weight |
|-------------|-----------|------------|--------|
| Insert D6   | 2203106   | 21 x 19 mm | 18 g   |



### Hex tightening insert SW8-SW22 for insulated terminals

- For use only in combination with insulated terminals D4/D8
- The internal expansion mechanism guarantees perfect connection to the socket head screw
- Current load 200A for 60 min. or 250 A for 15 min.
- Short circuit protection 8kA for 0,2 sec. or 1,3kA for 60 sec.

| Description | Order No. | Hex wrench | Weight |
|-------------|-----------|------------|--------|
| Insert SW8  | 2203008   | SW8        | 16 g   |
| Insert SW10 | 2203010   | SW10       | 16 g   |
| Insert SW11 | 2203011   | SW11       | 16 g   |
| Insert SW13 | 2203013   | SW13       | 16 g   |
| Insert SW14 | 2203014   | SW14       | 12 g   |
| Insert SW16 | 2203016   | SW16       | 14 g   |
| Insert SW17 | 2203017   | SW17       | 14 g   |
| Insert SW18 | 2203018   | SW18       | 16 g   |
| Insert SW19 | 2203019   | SW19       | 28 g   |



### Tightening insert for allen screws

- For use only in combination with insulated terminals D4/D8
- The internal expansion mechanism guarantees perfect connection to the socket head screw
- Current load 200A for 60 min. or 250 A for 15 min.
- Short circuit protection 8kA for 0,2 sec. or 1,3kA for 60 sec..

| Description | Order No. | Size | Dimensions | Weight |
|-------------|-----------|------|------------|--------|
| Insert I-S8 | 2208080   | SW 8 | 35 x 20 mm | 24 g   |



### Insulated clamp D8mm

- For shunts, current take-off devices, connection cables, etc.
- Connection socket D8mm
- Max. current load 200A for 60 min. or 250A for 15 min.
- Short circuit protection 8kA for 0,2 sec. or 1,3kA for 60 sec.
- Nominal voltage up to 600V AC / DC (50-60Hz)

| Description           | Order No. | Dimensions | Weight |
|-----------------------|-----------|------------|--------|
| Insulated clamp D8 mm | 22021     | 45 x 39 mm | 60 g   |



### Insert for hexagonal socket screws with insulated shank

- For use only in combination with insulated terminals D4/D8
- The internal expansion mechanism guarantees perfect connection to the socket head screws
- Current load 200A for 60 min. or 250A for 15 min.
- Short circuit protection: SW 5 = 5kA for 0,2 sec.  
SW 6 = 6kA for 0,2 sec.  
SW 10 = 7kA for 0,2 sec.
- Shank insulation in plastic material

| Description   | Order No. | Size  | Dimensions | Weight |
|---------------|-----------|-------|------------|--------|
| Insert I-S5L  | 2208050   | SW 5  | 56 x 20 mm | 30 g   |
| Insert I-S6L  | 2208060   | SW 6  | 56 x 20 mm | 34 g   |
| Insert I-S10L | 2208100   | SW 10 | 56 x 20 mm | 40 g   |



### Insert for D8mm holes

- For use only in combination with insulated terminals D4/D8
- The internal expansion mechanism guarantees perfect connection to the socket head screws
- Current load 200A for 60 min. or 250A for 15 min.
- Short circuit protection 7kA for 0,2 sec.

| Description | Order No. | Dimensions | Weight       |
|-------------|-----------|------------|--------------|
| Adapter D8  | 2209080   | 8 mm       | approx. 40 g |



### Hex cap nut SW13

- Used to make contact with threaded bolts M8, M10, M12 using SW13
- To allow correct assembly and disassembly, use an adapter for cap nuts and an insulated handle
- Current load 200A for 60 min. or 250A for 15 min.
- Short circuit protection 8kA for 0,2 sec. or 1,3kA for 60 sec.

| Description           | Order No. | Inside thread | Weight |
|-----------------------|-----------|---------------|--------|
| Hex cap nut SW 13-M8  | 2206008   | M8            | 10 g   |
| Hex cap nut SW 13-M10 | 2208010   | M10           | 8 g    |
| Hex cap nut SW 13-M12 | 2208012   | M12           | 4 g    |



### Insulated hex cap nut SW13

- Use exclusively in combination with isolated handle (Item No. 22011) and Intercable cap nut SW13
- To fasten the SW13 cap nut on threaded rods and bolts
- Electrocutation protection through plastic bushing

| Description | Order No. | Dimensions | Weight |
|-------------|-----------|------------|--------|
| Hex cap nut | 22051     | -          | 38 g   |





### Magnetic adapter Ø 6,6 mm

Suitable for connecting measuring analyzers, e.g. for applications on machines, contact with magnet.

#### Technical characteristics:

- Overvoltage category 1000V CATIII / 600V CAT IV
- Completely isolated from touch
- Connection of measuring device by means of D4 mm socket
- Maximum current carrying capacity 4A

#### Standards:

IEC 61010-031

| Description    | Order No. | Dimensions  | Weight       |
|----------------|-----------|-------------|--------------|
| Magnet adapter | DA606/6,6 | 60x50x16 mm | approx. 18 g |



Clamp 10 - 95 mm<sup>2</sup> - 2105 0

⚡1000V

### Perforation alligator clip

Suitable for measuring voltage by means of perforation directly on the cable.

#### Technical characteristics:

- Connection of measuring tips by means of a hole, lockable via a fixing screw
- Low perforation of the insulation on the cable

#### Standards:

EN/CEI 61010-031

| Description                    | Order No. | Dimensions | Weight       |
|--------------------------------|-----------|------------|--------------|
| Clamp 10 - 95 mm <sup>2</sup>  | 21050     | -          | approx. 44 g |
| Clamp 50 - 300 mm <sup>2</sup> | 21051     | -          | approx. 52 g |



Clamp 50 - 300 mm<sup>2</sup> - 2105 1

⚡1000V

Example of use:

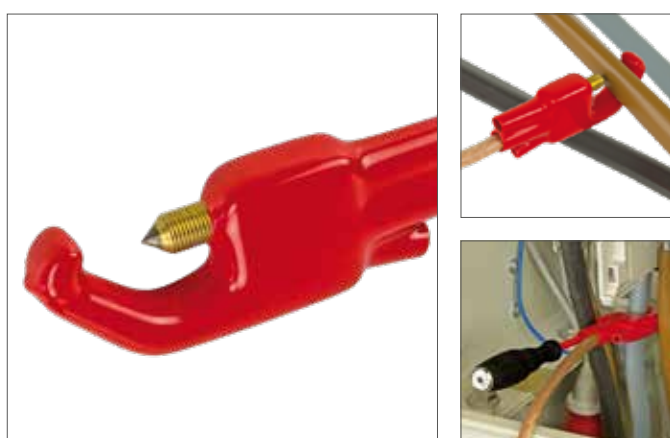




### PEN - Clamp compact for rails up to 10 mm

Very narrow insulated version for attaching to the PEN rail. Due to the clamping range up to 10 mm, it is ideally suited to the current rails.

| Description                               | Order No. | Weight |
|---|-----------|--------|
| PEN - Clamp compact for rails up to 10 mm | 07311102  | 100 g  |



### Insulated perforation clamp up to 240 mm<sup>2</sup>

Very slim and compact design, especially for cramped connection conditions in the distribution cabinet or house connection box.

| Description   | Order No. | Weight |
|---|-----------|--------|
| Insulated perforation clamp up to 240 mm <sup>2</sup> | 073474    | 140 g  |

### Adapter extension D8

Suitable as a connection element for bridging devices and current collecting devices, especially in hard-to-reach places in various cable distribution systems.

#### Technical characteristics:

- For currents of 200A for 60 min and/or 250A for 15 min
- Nominal voltage 600 V AC/DC (50-60 Hz)
- Protection against short circuit 8kA/0,2 sec.
- Extra flexible cable with double insulation, cable cross section 35 mm<sup>2</sup>
- Socket D8mm for connecting the spreading systems (ship lifting devices)
- Adapter D8 for holding all clamping inserts
- Can only be used with insulated handle - 2201 1

| Description       | Order No. | Length | Weight   |
|-------------------|-----------|--------|----------|
| Adapter extension | 21211     | 404 mm | ca. 24 g |

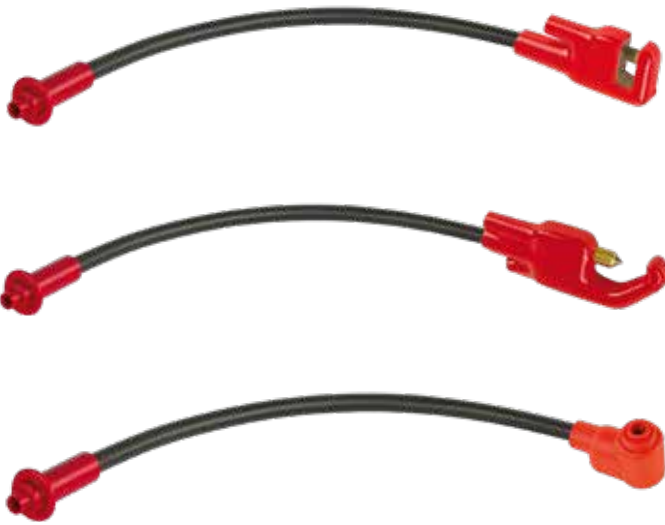
### Flexible connections for temporary connections 35 mm<sup>2</sup>

#### Application range:

- Input for current loads 63 amps at 230V AC
- Connection via insulated screw connector for 50 mm<sup>2</sup>

| Description   | Order No. | Cable length |
|---|-----------|--------------|
| Earthing screw cap E27 with cable and screw connector | 073333    | 400 mm       |
| Earthing screw cap E33 with cable and screw connector | 073334    | 400 mm       |





### Flexible connections for temporary connections 35 mm<sup>2</sup>

#### Application range:

- For shunt device, current collection set and connection cable
- For current loads 250A for 3 min or 150A continuous load at 230V AC
- Connection via socket for insulated expansion pin D8 mm
- Fastening with hexagon socket screw SW4 mm to PEN and perforation clamp (Allen screwdriver SW4 Nr.: 2115304)

| Description   | Order No. | Cable length |
|---|-----------|--------------|
| Isolated PEN terminal with cable and D8 connector for expanding pin     | 07332302  | 400 mm       |
| Insulated perforation clamp and D8 connection for expanding pin         | 073323    | 400 mm       |
| Insulated terminal D8 mm with cable and D8 connection for expansion pin | 073322    | 400 mm       |

### Flexible connections for temporary connections 35 mm<sup>2</sup>

#### Application range:

- For shunt device, current collection set and connection cable
- Taps with internal fuse Ultra Rapid AC 660V aR for current loads 250A for 3 min. or 150A continuous load at 230V AC
- Connection via socket for insulated expansion pin D8 mm
- Fuse must be ordered separately (No. 073430xx)

| Description                               | Order No. | Cable length |
|---|-----------|--------------|
| Screw securing holder with terminal D8 mm | 073325    | 400 mm       |



### Flexible connections for temporary connections 35 mm<sup>2</sup>

#### Application range:

- Connection cable (bypass) for connecting phase - phase or PEN - PEN
- For cable distribution systems for temporary bridging
- Taps with internal fuse Ultra Rapid AC 660V aR for current loads 250A for 3 min. or 150A continuous load at 230V AC
- Connection via D8m jack for adapter system for frame, clamp and V terminals Current load 250A for 15 min., 200A 60 min. and continuous load 150A, nominal voltage up to 600V AC / DC (50 - 60 Hz)
- Fuse must be ordered separately (No. 073430xx)

| Description   | Order No. | Cable length |
|---|-----------|--------------|
| Connecting cable with 2 perforation clamps and screw securing holder          | 073324    | 1500 mm      |
| Connecting cable with 2 perforation clamps                                    | 073327    | 1500 mm      |
| Connection cable with 2x D8 terminal 35 mm <sup>2</sup> and screw fuse holder | 073468    | 2000 mm      |





A= with pin

B= with bush  
cable terminal

C= with PEN  
connection terminal



### Current tapping device 230V

Designed for two-pole tapping of currents up to 16A to power electrical equipment.

#### Technical characteristics:

- Protection contact sockets IP44, 2x16A-230V
- Rubber cover insulation grade IP44
- 2 connection cables 16 mm<sup>2</sup>, length 1500 mm
- Connection cable with double insulation; nominal voltage U/U0 1,8/3kV
- Overload switch 16A characteristic C, short circuit current 25kA
- Differential switch 0,03A
- Nominal voltage 230V AC / DC (50-60Hz)
- Short circuit protection 8kA for 0,2 sec or 1,3kA for 60 sec

#### Set equipment:

- Current tapping device
- Plastic case to contain the device housing

#### Standards (Housing):

- EN 61009
- EN 60493/4
- IEC 309

| Description            | Order No. | Connection | Weight         |
|------------------------|-----------|------------|----------------|
| Current tapping device | 2320212   | 2 x A      | approx. 4,8 kg |
| Current tapping device | 2320213   | 2 x B      | approx. 4,8 kg |
| Current tapping device | -         | A + C      | approx. 4,8 kg |
| Current tapping device | -         | B + C      | approx. 4,8 kg |





### Current tapping device 380V/16A three phase current

4 pole device for current take-off up to 16A for supply of electro-technical device.

#### Technical characteristics:

- 5 pole CEE three-phase sockets (3pol + N + PE) 380V/16a IP44
- Rubber cover protection grade IP44
- 4 connection cables 16 mm<sup>2</sup>, length 1500 mm
- Connection cable with double insulation; nominal voltage U/U0 1,8/3 kV
- Overload switch 16A characteristic C, short circuit current 25 kA
- Differential switch 0,03A
- Nominal voltage 380/400V AC / DC (50-60Hz)
- Short circuit protection 8 kA for 0,2 sec. or 1,3 kA for 60 sec.

#### Set equipment:

- Current tapping device
- Plastic case to contain the device housing

#### Standards (Housing):

- EN 61009
- EN 60493/4
- IEC 309

| Description            | Order No. | Dimensions     | Connection | Weight       |
|------------------------|-----------|----------------|------------|--------------|
| Current tapping device | 2320221   | 500x380x190 mm | 3xB + 1xC  | approx. 8 kg |



### Single-pole Shunt device

For opening and closing circuit breaker bridges in lines under load in low voltage systems (e.g. to replace fuses, connect/disconnect electric connections etc).

#### Technical characteristics:

- Red LED to signal polarity inversion
- Connection by insulated plug D8mm
- Cover protection grade IP44
- Connection cable 16 mm<sup>2</sup>, Length 1500 mm
- Connection cable with double insulation; nominal tension U/U0 1,8/3 kV
- With fixed overload cut-out level
- Nominal automatic switch current 160A; short circuit current 25 kA,
- Current load 160A for 30 min.
- Nominal tension max. 600V AC / DC (50-60Hz)
- Short circuit protection 8 kA for 0,2 sec. or 1,3 kA for 60 sec.

#### Set equipment:

- Single-pole Shunt device
- Plastic case to contain the Shunt device

Assembly option accessories for insulated terminal D8 + dies or insulation perforation terminal see page .xxx

| Description  | Order No. | Dimensions     | Weight         |
|--------------|-----------|----------------|----------------|
| Shunt device | 21201160  | 430x310x120 mm | approx. 5,1 kg |



### Multi-pole Shunt device

Suitable for 3-pole bridging of external conductors under load in LV systems up to 230 / 400V AC - 50Hz (e.g. replacement / replacement of intact fuses or fuse strips, connection / disconnection of cables, etc.) without interrupting the power supply.

#### Technical characteristics:

- Protection against polarity inversion for correct phase connection
- Digital counter for number of operation cycles
- Connection by insulated pin D8 mm
- Cover protection grade IP44
- Connection cable 35 mm<sup>2</sup>, length 6x1.800 mm
- Connection cable with double insulation, nominal tension U/U0-470/750V
- Circuit-breaker T3N-250-TMD (ABB) with thermomagnetic overcurrent release (TMD) 3-pole, rated current 200A. Rated operational voltage 380-415V AC, breaking capacity ICU 36kA, utilization category A acc.
- Max current load (maximum duration of use) of the bridging device: Current load (maximum operating time) of the bridging device: 200A for 60 minutes or 250A for 15 minutes at an ambient temperature of -5° C / + 40° C
- Short circuit protection 8kA for 0,2 sec. or 1,3kA for 60 sec.
- Integrated meter in the electronics for determining the maintenance intervals
- Display showing the phases (load supply side), faults, hazard warnings and prompts
- Push button green: Push button with integrated green light which signals that everything has been connected correctly and that the bridging can now be started by activating the circuit breaker
- Button: to acknowledge the buzzer in case of error message (approx. 5 sec.), as well as to acknowledge the message "Expiry of max. recommended circuits"
- LED red: Attention error, see display.
- Buzzer: electronic buzzer which sounds in the event of a fault during the bridging (if contacting of a spreader pin faulty, voltage drop)
- Electronic polarity reversal protection

#### Set equipment:

- Three-pole bridging device with electronic reverse polarity protection
- Plastic case to contain the Shunt device

Assembly option accessories for insulated terminal D8 and dies or insulation perforation terminal: see page 215.

| Description  | Order No. | Dimensions     | Weight          |
|--------------|-----------|----------------|-----------------|
| Shunt 3-pole | 212703250 | 430x310x200 mm | approx. 19,1 kg |