

## SCHUKO socket with surge voltage protection

Art. no.: A521UF..

## SCHUKO socket with surge voltage protection

Art. no.: 521ZNAUF

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## Operating instructions

### 1 Safety instructions



Installation only by persons with appropriate electrotechnical knowledge and experience in the following areas:

- The "5 safety rules" to be observed are: disconnect; secure against reconnection; determine that no voltage is present; ground and short-circuit; cover or block off adjacent live parts
- Selection of suitable tools, measuring devices and, if necessary, personal protective equipment
- Evaluation of the measurement results
- Selection of the electrical installation material to ensure the shutdown conditions
- IP degrees of protection
- Installation of the electrical installation material
- Type of mains supply (TN system, IT system, TT system) and the resulting connection requirements (classic earthing, protective earthing, necessary additional measures, etc.)

Improper installation endangers your own life and the lives of users of the electrical system and there is a risk of serious damage to property, e.g. through fire. You are at risk of personal liability for personal injury and damage to property.

**Contact an electrical contractor!**

**Serious injuries, fire or property damage possible. Please read and follow manual fully.**

**To protect against high-energy surges, install multistage selective protection. Otherwise connected devices may be damaged.**

**These instructions are an integral part of the product, and must remain with the end customer.**

### 2 Device components

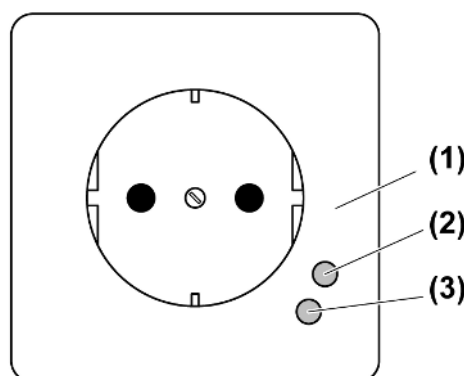


Figure 1: Device components

- (1) Socket outlet
- (2) Red light emitting diode = protection function not in operation
- (3) Red light emitting diode = mains voltage present

### 3 Intended use

- Type 3 fine protection for protecting electrical and electronic devices against transient power surges according to EN 61643-11
- For use only in combination with Type 1 coarse protection and Type 2 medium protection
- For use in TN, TT and IT systems
- Stationary installation indoors in appliance box according to DIN 49073.

### 4 Instructions for operation

- The device protects electrical and electronic devices against transient power surges.
- Failure of the protection function is indicated by an acoustic and visual signal.
- Keep cables between loads (5) and surge protection socket outlet (1) as short as possible, max. 4 m.
- Do not lay protected cables parallel to unprotected cables. There is a danger of surge voltage coupling.
- When performing insulation measurements on the system, all surge protection products should always be disconnected, because otherwise the test voltage will be limited by the protective modules, thus leading to incorrect measurements.

### 5 Information for electrically skilled persons

#### 5.1 Fitting and electrical connection



#### **DANGER!**

Electrical shock when live parts are touched.

Electrical shocks can be fatal.

Before carrying out work on the device or load, disengage all the corresponding circuit breakers. Cover up live parts in the working environment.

#### Connecting and fitting the device

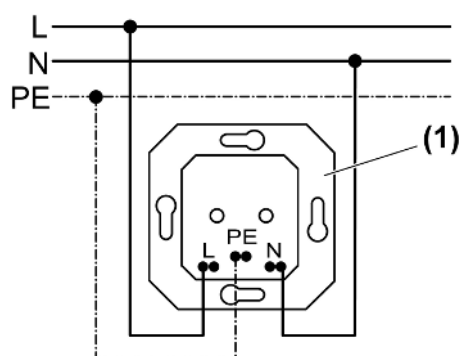


Figure 2: Connection diagram for single socket outlet

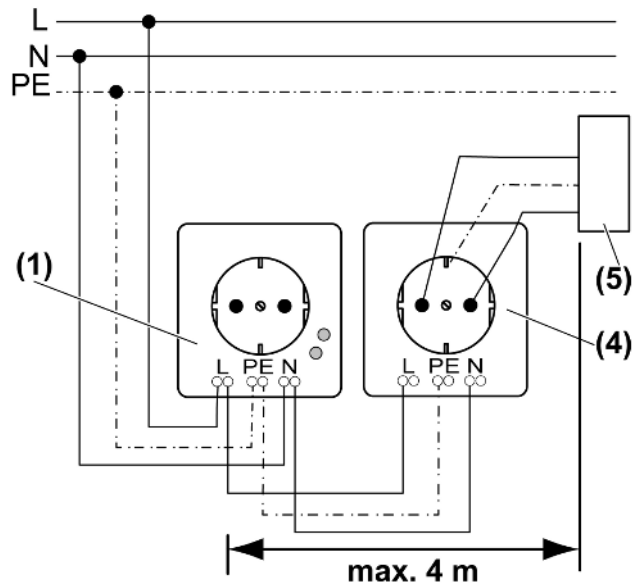


Figure 3: Connection diagram for socket outlet combination

- (1) Surge protection socket outlet
- (4) Socket outlet with normal design
- (5) Load

- Connect surge protection socket outlet according to connection diagram for single socket outlet (Figure 2) or connection diagram for socket outlet combination (Figure 3).
- i** The maximum continuous voltage (see Technical data) must not be exceeded. In multiple combinations, when a surge protection socket outlet is used the other socket outlets used in the combination are also protected in the normal design. For this the socket outlets have to be installed on the same conductor.
- Install overvoltage protection socket outlet in appliance box.
- Mount the cover and frame. Observe correct installation position. Otherwise the LED will not function.

## 6 Technical data

Overvoltage protection	Type 3 arrester (one port)
Rated voltage AC	AC 230 V ~ ( $\pm 10\%$ )
Mains frequency	50 / 60 Hz
Maximum continuous voltage	AC 255 V~ ( $U_C$ )
No-load voltage	4 kV ( $U_{OC}$ )
Rated load current	16 A ( $I_L$ )
Short circuit strength	1.5 kA ( $I_{SCCR}$ )
Protection level	
L/N	$\leq 1.25$ kV ( $U_P$ )
L/PE;N/PE	$\leq 1.25$ kV ( $U_P$ )
TOV characteristic	442 V/5 s/120 min ( $U_T$ )
Circuit breaker	max. 16 A (gG/C)
Ambient temperature	-5 ... +40 °C
Relative humidity	5 ... 95 % (no moisture condensation)
Clampable conductor cross-section	1.5 ... 2.5 mm <sup>2</sup>

- i** This device can protect connected loads only up to the protection level specified in the technical data. Surge voltages that are higher than that may still damage the connected devices. The same applies for devices that require a lower protection level. For this reason we accept no liability for any damage to the connected loads.

## 7 Troubleshooting

### **Acoustic signal sounds and red light emitting diode lights up.**

Overvoltage protection has failed due to high over voltage. The socket outlet continues to supply connected loads with mains voltage, but with no protection function.

Have the surge protection socket outlet exchanged by an electrically skilled person.

Pull the mains plug to cut off the acoustic signal. The signal tone will sound again when the plug is reinserted.

### **RCD protection switches trip.**

The discharge of high over voltages to earth by the overvoltage protection can cause RCD protection switches to trip.

Use RCD protection switches with a high peak withstand current.

## 8 Warranty

The warranty is provided in accordance with statutory requirements via the specialist trade.

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