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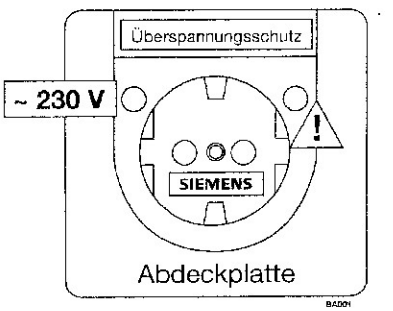
Installation and operating instructions for the overvoltage protection module for DELTA®-(SCHUKO) socket-outlet

1. Technical Data		
Rated voltage	U_n	230 V / 50 Hz
Maximum permissible operating voltage	U_c	280 V / 50 Hz
Nominal discharge current (8/20)	i_{sn}	3 kA [L(N) / PE] and [L/N] 5 kA [L and N / PE]
Limiting discharge current (8/20)	i_{smax}	6 kA [L(N) / PE] and [L/N] 10 kA [L and N / PE]
Combined impulse	U_{oc}	6 kV [L(N) / PE] and [L/N] 10 kV [L and N / PE]
Protective level at 2.5 kA (8/20)	U_{sp}	< 1.5 kV [L(N) / PE] or [L/N]
Response time	t_A	25 ns [L/N] / 100 ns [L(N) / PE]
Back-up fuse / Circuit-breaker		max. 16 A gL/gG or B 16 A or C 16 A
Monitoring / fault display Green lamp on: Red lamp on:		Integrated voltage present overvoltage protection faulty



2. Application

The overvoltage protection module in combination with a DELTA-(SCHUKO) socket-outlet is a socket-outlet with earthing contact with integrated overvoltage protection. It is designed in accordance with DIN VDE 0675, Part 6 / Draft 11.89 and E DIN VDE 0675, Part 6/A1/1996-03 in conformance with requirement class D, and its purpose is to protect against overvoltages in the area of overvoltage category II according to DIN VDE 0110, Part 1.

3. Safety precautions

The overvoltage protection module must only be installed by a qualified electrician.

It is not permitted to use the overvoltage protection module in damp locations.

Use of the overvoltage protection module is only permissible within the scope of the technical data indicated here. In the event of loads above the indicated values, for example, resulting from a direct strike of lightning, the overvoltage protection module and the connected end device may be destroyed.

Attention:

Opening the overvoltage protection module or any other kind of interference with it is not permitted and will result in termination of the warranty.

4. Installation notes

The overvoltage protection module can be snapped onto DELTA-(SCHUKO) socket-outlets. The conversion kit has to be used for modifying a (SCHUKO) socket-outlet to overvoltage protection. Pay attention to the correct position of the frame to ensure that lamps are not covered up.

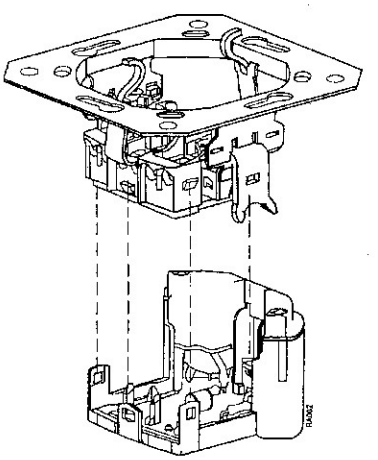
5. Function/fault display, maintenance

The overvoltage protection module has an integrated monitoring device with optical display for the fault condition:

If the **green** lamp is on (line indication):
Ready for operation

If the **red** lamp is on:
Overvoltage protection faulty.

Note:
Power supply is still present (green lamp on). Have the overvoltage protection module changed by a qualified electrician!



6. Insulation measurement

According to DIN VDE 0100, Part 610/04.94, in power systems up to 500 V operating voltage, it is only necessary to measure the insulation of all active conductors to earth with a measuring direct voltage of 500 V.

If insulation measurement is carried out in accordance with DIN VDE 0100, Part 610/04.94, the surge arrester does not influence the insulation measurement in this case either (apart from old TN-C systems).

7. Comments

If the overvoltage protection module is backed up by residual current protective devices, the earth-leakage circuit-breaker could trip in some circumstances. In such a case, energize the earth-leakage circuit-breaker again. This will not affect the protective function of the overvoltage protection module.
With suitable overvoltage protection in an electrical system, false tripping of earth-leakage circuit-breakers is not to be expected.