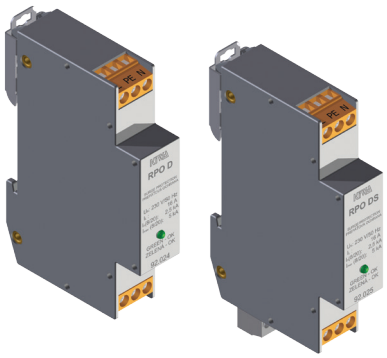
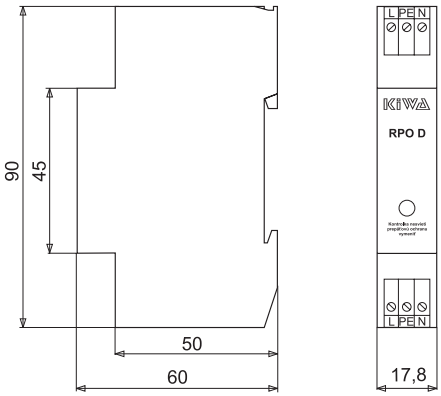
# DISTRIBUTION BOX OVERVOLTAGE PROTECTION

## RPO D, RPO DS

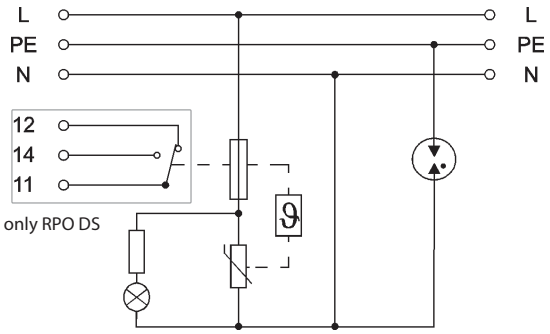
- Usage as 3rd level ( T3, fine protection) in 3-level overvoltage protection concept
- It decreases overvoltage and reduces overvoltage wave energy caused by induction and switching processes in the connected low voltage network
- Installation on 35 mm DIN rail
- Protection against the transverse and longitudinal overvoltage (L/N, L/PE, N/PE)
- Protective effect provided by a varistor combined with spark gap
- Optical and remote signalling of operation state



## DIMENSIONS




## CONNECTION DIAGRAM




## TECHNICAL PARAMETERS

| TYPE | | 230 V AC | 115 V AC | 48 V AC/DC | 24 V AC/DC | 12 V AC/DC |
|---|---|---|---|---|---|---|
| Max. operation voltage | $U_c$ | 280 V AC | 115 V AC | 48 V AC/DC | 24 V AC/DC | 12 V AC/DC |
| Nominal voltage | $U_n$ | 230 V AC | 115 V AC | 48 V AC/DC | 24 V AC/DC | 12 V AC/DC |
| Rated load current | $I_L$ | 16 A | 16 A | 16 A | 16 A | 16 A |
| Nominal discharge current (8/20) | $I_n$ | 2,5 kA | 2,5 kA | 2,5 kA | 1 kA | 1 kA |
| Maximum discharge current (8/20) | $I_{max}$ | 5 kA | 5 kA | 5 kA | 2 kA | 2 kA |
| Open circuit voltage | $U_{oc}$ | 4 kV | 4 kV | 4 kV | 4 kV | 4 kV |
| Voltage protection level at $I_{max}$ | | | | | | |
| L(N)/PE | $U_p$ | ≤1,5 kV | ≤0,8 kV | ≤1,1 kV | ≤0,8 kV | ≤0,8 kV |
| L/N | $U_p$ | ≤1,2 kV | ≤0,7 kV | ≤0,4 kV | ≤0,2 kV | ≤0,12 kV |
| Response time | | | | | | |
| L/N | $t_A$ | < 25 ns | | | | |
| L(N)/PE | $t_A$ | < 100 ns | | | | |
| Prospective short-circuit current of a power supply | $I_p$ | 6 $kA_{ef}$ | | | | |
| Overcurrent protection gL/gG | | ≤16 A with disconnection characteristic B, C, D | | | | |
| Status indication of TDD (Thermic Disconnecting Device) | | green (OK) | | | | |
| Mounting on profiled DIN rail | | 35 x 7,5 mm | | | | |

## PRODUCT SPECIFICATION

| TYPE | Order number | | | | |
|---|---|---|---|---|---|
| | 230 V AC | 115 V AC | 48 V AC/DC | 24 V AC/DC | 12 V AC/DC |
| RPO D | 92.024 | 92.081 | 92.083 | 92.082 | 92.160 |
| RPO DS | 92.025 | 92.084 | 92.086 | 92.085 | 92.161 |