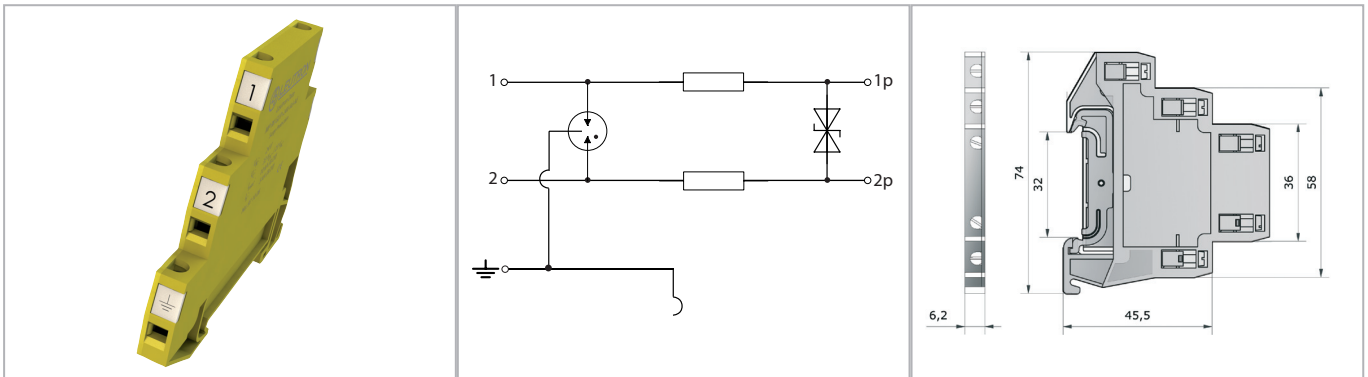


# Datasheet

## Surge protection for measuring systems and automatic control devices

### One-piece SPD with high discharge capability and low protection level for MCR applications



Terminal blocks with integrated surge protection can optimize the used space in a control cabinet and at the same time provide high level protection for terminal equipment and devices.

- Protective circuit for 2 signal lines without reference to ground potential
- Applicable at the boundaries LPZ 0B - 2 and higher
- Test standard: IEC 61643-21 / EN 61643-21
- Mounting on 35 mm DIN rail (EN 60715)
- 6.2 mm DIN rail module
- Earthing via DIN rail or connector

| Technical Data                                   |                  | MP RK GDT+24V-Ad-Ad                     |
|--|------------------|---|
| IEC category                                     |                  | C2 / C1 / C3                            |
| Nominal voltage DC                               | UN               | 24V=                                    |
| Max. continuous operating voltage (DC/AC)        | Uc               | 33/23 V                                 |
| Nominal current                                  | IL               | 0,5 A                                   |
| C2 nominal discharge current (8/20 μs) total     | I <sub>max</sub> | 10 kA                                   |
| C2 nominal discharge current (8/20 μs) per line  | I <sub>n</sub>   | 5 kA                                    |
| Protection level line-line at I <sub>n</sub> C2  | U <sub>p</sub>   | ≤ 59 V                                  |
| Protection level line-earth at I <sub>n</sub> C2 | U <sub>p</sub>   | ≤ 500 V                                 |
| Protection level line-line at 1 kV/μs C3         | U <sub>p</sub>   | ≤ 45 V                                  |
| Protection level line-Pg at 1 kV/μs C3           | U <sub>p</sub>   | ≤ 500 V                                 |
| Series resistance per line                       |                  | 2,2 Ω                                   |
| Max. operating frequency (-3 dB)                 | f <sub>G</sub>   | typ. 6,0 MHz                            |
| Conductor cross section (solid/stranded/AWG)     |                  | 0.2-4.0/0.2-2.5 mm <sup>2</sup> / 24-12 |
| Operating temperature range                      | TU               | -40 - +80 °C                            |
| Inflammability class according to UL 94          |                  | V0                                      |
| Degree of protection (IEC EN 60529)              |                  | IP 20                                   |
| Enclosure material / colour                      |                  | PA6 / yellow                            |
| Installation width                               |                  | 6,2 mm                                  |
| Mounting on                                      |                  | 35 mm DIN rail (EN 60715)               |

| Order Data  |                     |
|-------------|---------------------|
| Product     | MP RK GDT+24V-Ad-Ad |
| Article-No. | 97 10 06            |