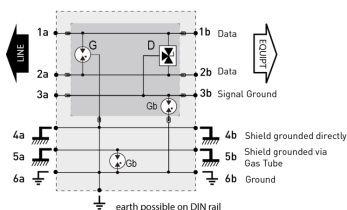
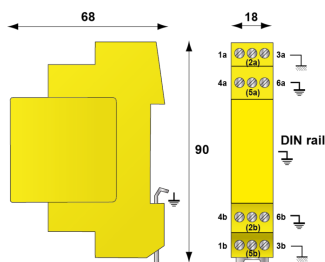


- ✦ High current data transmission
- ✦ Common mode and differential mode protection
- ✦ Data lines, including those isolated from Earth
- ✦ Compact DIN rail enclosure, high density protection
- ✦ Protection of shield wire
- ✦ Plug-out with line cut-off
- ✦ Location and test categories: D1, C2, C3
- ✦ IEC 61643-21 compliance



G: 3-electrode gas tube  
Gb: 2-electrode gas tube  
D: Clamping diode

#### Electrical Characteristics

|                                                                                                   |        |                                           |
|---------------------------------------------------------------------------------------------------|--------|-------------------------------------------|
| Network                                                                                           |        | Floating applications, E.g: RS232 / RS485 |
| Nominal line voltage                                                                              | Un     | 12 V                                      |
| Max. DC operating voltage                                                                         | Uc     | 15 Vdc                                    |
| Max. frequency, in the channel                                                                    | f max. | DC bis 3 MHz                              |
| Insertion loss                                                                                    |        | < 1 dB                                    |
| Max. discharge current<br>max. withstand @ 8/20 $\mu$ s, X-C (Line/Earth)                         | Imax   | 20 kA                                     |
| Protection Level<br>C3 (10/1000 $\mu$ s), 300 applications@10 A, X-X (Line/Line)                  | Up     | 30 V                                      |
| Protection level<br>C3 (10/1000 $\mu$ s), 300 applications@10 A, X-C (Line/Earth)                 | Up     | 650 V                                     |
| Impulse current<br>D1 (10/350 $\mu$ s), 2 applications, X-C (Line/Earth)                          | Iimp   | 5 kA                                      |
| Nominal Discharge Current<br>C2 (1.2/50 $\mu$ s / 8/20 $\mu$ s), 10 applications, X-X (Line/Line) | In     | 200 A                                     |
| Nominal discharge current<br>C2 (1.2/50 $\mu$ s / 8/20 $\mu$ s), 10 applications X-C (Line/Earth) | In     | 5 kA                                      |
| Max. Load current                                                                                 | IL     | 2,4 A                                     |
| Line resistance ( $\pm 10\%$ )                                                                    |        | 0,05 Ohm                                  |
| Capacitance<br>@1MHz, X-C (Line/Earth)                                                            | C      | < 50 pF                                   |

#### Mechanical Characteristics

|                                   |  |                                                         |
|-----------------------------------|--|---------------------------------------------------------|
| Technology                        |  | GDT+TVS diode                                           |
| SPD configuration                 |  | 1-pair+shielded                                         |
| Connection to Network             |  | By screw terminal: cross section 0.5-2.5mm <sup>2</sup> |
| Mounting                          |  | Symmetrical rail 35 mm (EN 60715)                       |
| Housing material                  |  | Thermoplastic UL94 V-0                                  |
| Operating and storage temperature |  | -40/+85°C                                               |
| Ingress Protection rating         |  | IP20 (NEMA 2)                                           |
| Failsafe mode                     |  | Short-circuit                                           |
| Disconnection indicator           |  | Transmission interrupt - default mode 2                 |
| Spare module(s)                   |  | DLAM-12-IS                                              |
| Dimensions                        |  | See diagram                                             |
| Weight                            |  | 0.087 kg                                                |

#### Standards

|                      |  |                            |
|----------------------|--|----------------------------|
| Standards compliance |  | IEC 61643-21 / EN 61643-21 |
| Part number          |  | 640152                     |