

## Surge protection device - D-LAN-CAT.5-HC - 2800763

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Surge protection in acc. with Class D (CAT.5), for token ring, ISDN, DS1, Ethernet, and Power over Ethernet (PoE) "Mode A" and "Mode B". RJ45 attachment plug with separate grounding cable and snap-on foot for NS 35 DIN rails.

### Your advantages

- ✓ Reliable transmission speeds up to 1 Gbps
- ✓ Protective adapter for eight signal paths via RJ45 connector
- ✓ Suitable for category 5 data networks

RoHS

### Key Commercial Data

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 1 pc                                                                                                    |
| GTIN         | <br>4 046356 730280 |
| GTIN         | 4046356730280                                                                                           |

### Technical data

#### Dimensions

|        |                             |
|--------|-----------------------------|
| Height | 110 mm                      |
| Width  | 28 mm                       |
| Depth  | 60 mm (incl. NS 35 adapter) |

#### Ambient conditions

|                                 |                  |
|---------------------------------|------------------|
| Ambient temperature (operation) | -40 °C ... 85 °C |
| Degree of protection            | IP20             |

#### General

|                                                 |            |
|-------------------------------------------------|------------|
| Housing material                                | PC+ABS     |
| Flammability rating according to UL 94          | V-0        |
| Color                                           | gray       |
| Standards for clearances and creepage distances | VDE 0110-1 |
|                                                 | IEC 60664  |

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## Technical data

### General

|                     |                                                         |
|---------------------|---------------------------------------------------------|
| Mounting type       | Connection-specific attachment plug and DIN rail, 35 mm |
| Type                | Attachment plug for DIN rail mounting                   |
| Number of positions | 8                                                       |
| Direction of action | Line-Line & Line-Ground/Shield                          |

### Protective circuit

|                                                                      |                                       |
|----------------------------------------------------------------------|---------------------------------------|
| IEC test classification                                              | B2                                    |
|                                                                      | C2                                    |
|                                                                      | D1                                    |
| VDE requirement class                                                | B2                                    |
|                                                                      | C2                                    |
|                                                                      | D1                                    |
| Maximum continuous voltage $U_C$                                     | $\pm 5$ V DC                          |
| Maximum continuous voltage $U_C$ (wire-wire)                         | $\pm 5$ V DC ( $\pm 57$ V DC / PoE+)  |
| Nominal current $I_N$                                                | $\leq 1.5$ A (25 °C)                  |
| Operating effective current $I_C$ at $U_C$                           | $\leq 600$ $\mu$ A                    |
| Nominal discharge current $I_n$ (8/20) $\mu$ s (line-line)           | 350 A                                 |
|                                                                      | 350 A (per signal pair)               |
| Nominal discharge current $I_n$ (8/20) $\mu$ s (line-earth)          | 2 kA (per signal pair)                |
| Pulse discharge current $I_{imp}$ (10/350) $\mu$ s (line-earth)      | 1 kA (per signal pair)                |
| Max. discharge current $I_{max}$ (8/20) $\mu$ s maximum (line-earth) | 10 kA (per signal pair)               |
| Nominal pulse current $I_{an}$ (10/700) $\mu$ s (line-line)          | $\leq 25$ A                           |
| Nominal pulse current $I_{an}$ (10/700) $\mu$ s (line-earth)         | $\leq 100$ A                          |
| Nominal pulse current $I_{an}$ (10/700) $\mu$ s (line-line)          | $\leq 25$ A (per signal pair)         |
| Nominal pulse current $I_{an}$ (10/700) $\mu$ s (line-earth)         | $\leq 100$ A (per signal pair)        |
| Output voltage limitation at 1 kV/ $\mu$ s (line-line) spike         | $\leq 25$ V                           |
|                                                                      | $\leq 90$ V (PoE)                     |
| Output voltage limitation at 1 kV/ $\mu$ s (line-earth) spike        | $\leq 750$ V                          |
| Residual voltage at $I_n$ (line-line)                                | $\leq 35$ V                           |
|                                                                      | $\leq 110$ V (PoE)                    |
| Residual voltage at $I_n$ (line-earth)                               | $\leq 850$ V (per signal pair)        |
| Voltage protection level $U_p$ (line-line)                           | $\leq 20$ V (B2 - 1 kV / 25 A)        |
|                                                                      | $\leq 90$ V (B2 - 1 kV / 25 A - PoE)  |
|                                                                      | $\leq 35$ V (700 V / 350 A)           |
|                                                                      | $\leq 110$ V (700 V / 350 A - PoE)    |
| Voltage protection level $U_p$ (line-earth)                          | $\leq 700$ V (B2 - 4 kV / 100 A)      |
|                                                                      | $\leq 850$ V (C2 - 4 kV / 2 kA)       |
| Response time $t_A$ (line-line)                                      | $\leq 1$ ns                           |
| Response time $t_A$ (line-earth)                                     | $\leq 100$ ns                         |
| Input attenuation aE, sym.                                           | $\leq 0.5$ dB (100 MHz/100 $\Omega$ ) |

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## Technical data

### Protective circuit

|                                                        |                                                  |
|--------------------------------------------------------|--------------------------------------------------|
|                                                        | $\leq 1$ dB (100 MHz/100 $\Omega$ /Link Class E) |
| Near-end crosstalk attenuation                         | typ. 63 dB (1 MHz/100 $\Omega$ /Link Class E)    |
|                                                        | typ. 43 dB (16 MHz/100 $\Omega$ /Link Class E)   |
|                                                        | typ. 30 dB (100 MHz/100 $\Omega$ /Link Class E)  |
|                                                        | $> 40$ dB (100 MHz/100 $\Omega$ )                |
| Cut-off frequency $f_g$ (3 dB), sym. in 100 Ohm system | $> 100$ MHz                                      |
| Capacity (line-line)                                   | typ. 15 pF ( $f = 1$ MHz / $V_R = 0$ V)          |
| Capacity (line-earth)                                  | typ. 5 pF ( $f = 1$ MHz / $V_R = 0$ V)           |
| Impulse durability (line-line)                         | B2 - 1 kV / 25 A                                 |
| Impulse durability (line-earth)                        | B2 - 4 kV / 100 A                                |
|                                                        | C2 - 4 kV/2 kA                                   |
|                                                        | D1 - 1kA                                         |

### Connection data

|                       |             |
|-----------------------|-------------|
| Connection method     | RJ45        |
| Connection method IN  | RJ45 socket |
| Connection method OUT | RJ45 socket |

### Connection, equipotential bonding

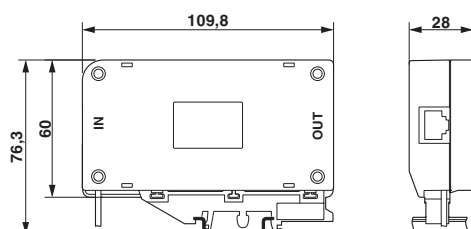
|                   |                  |
|-------------------|------------------|
| Connection method | Cable connection |
|-------------------|------------------|

### Standards and Regulations

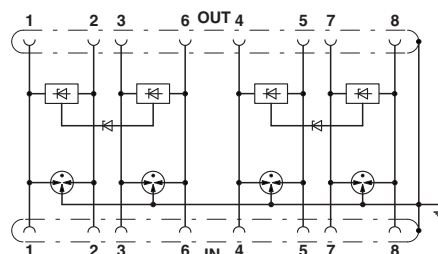
|                          |                      |
|--------------------------|----------------------|
| Standards/specifications | IEC 61643-21/A1 2008 |
|                          | GB/T 18802.21 2004   |
|                          | EN 61643-21/A1 2009  |
|                          | IEC 61643-21 2000    |

## Drawings

Dimensional drawing



Circuit diagram



## Approvals

### Approvals

## Surge protection device - D-LAN-CAT.5-HC - 2800763

### Approvals

Approvals

UL Listed

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Ex Approvals

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### Approval details

UL Listed



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

FILE E 138168

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