

Surge protection device - D-LAN-CAT.5-FP - 2800723

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Fine surge protection in accordance with Class D (CAT5), 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.

Product Features

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



Key commercial data

| | |
|--------------------------------------|-----------|
| Packing unit | 1 pc |
| Weight per Piece (excluding packing) | 180.0 GRM |
| Custom tariff number | 85363010 |
| Country of origin | China |

Technical data

Dimensions

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|--------|-----------------------------|
| Height | 110 mm |
| | 75 mm (incl. NS 35 adapter) |
| Width | 28 mm |
| Depth | 60 mm |

Ambient conditions

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

General

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|------------------|-----|
| Housing material | ABS |
|------------------|-----|

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Technical data

General

| | |
|---|---|
| Inflammability class according to UL 94 | V0 |
| Color | gray |
| Standards for clearances and creepage distances | IEC 60664 |
| 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 |
| | C1 |
| VDE requirement class | B2 |
| | C1 |
| Maximum continuous voltage U_C | ± 5 V DC |
| Maximum continuous voltage U_C (wire-wire) | ± 5 V DC (± 57 V DC / PoE+) |
| Nominal current I_N | ≤ 1.5 A (25 °C) |
| Operating effective current I_C at U_C | ≤ 600 μ A |
| Nominal discharge current I_n (8/20) μ s (Core-Core) | 350 A |
| Nominal discharge current I_n (8/20) μ s (Core-Earth) | 350 A |
| Nominal pulse current I_{an} (10/700) μ s (Core-Core) | ≤ 25 A |
| Nominal pulse current I_{an} (10/700) μ s (Core-Earth) | ≤ 25 A |
| Output voltage limitation at 1 kV/ μ s (Core-Core) spike | ≤ 25 V |
| | ≤ 90 V (PoE) |
| Output voltage limitation at 1 kV/ μ s (Core-Earth) spike | ≤ 750 V |
| Output voltage limitation at 1 kV/ μ s (Core-Core) static | ≤ 25 V |
| Output voltage limitation at 1 kV/ μ s (Core-Earth) static | ≤ 750 V |
| Residual voltage at I_n , (conductor-conductor) | ≤ 35 V (C1 - 350 A) |
| | ≤ 110 V (C1 - 350 A) |
| Residual voltage at I_n , (conductor-ground) | ≤ 700 V (C1 - 350 A) |
| Voltage protection level U_p (core-core) | ≤ 20 V (B2 - 1 kV/25 A) |
| | ≤ 90 V (B2 - 1 kV/25 A - PoE) |
| | ≤ 35 V (C1 - 700 V/350 A) |
| | ≤ 110 V (C1 - 700 V/350 A - PoE) |
| Voltage protection level U_p (core-ground) | ≤ 700 V (B2 - 1 kV/25 A) |
| | ≤ 700 V (C1 - 700 V/350 A) |
| Response time t_A (Core-Core) | ≤ 1 ns |
| Response time t_A (Core-Earth) | ≤ 100 ns |

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Technical data

Protective circuit

| | |
|---|---------------------------------|
| Input attenuation aE, sym. | ≤ 1 dB (100 MHz/100 Ω) |
| Near-end crosstalk attenuation | ≤ 63.3 dB (1 MHz/100 Ω) |
| | ≤ 43.6 dB (16 MHz/100 Ω) |
| | ≤ 30.1 dB (100 MHz/100 Ω) |
| Cut-off frequency fg (3 dB), sym. in 100 Ohm system | > 100 MHz |
| Capacity (Core-Core) | typ. 15 pF (f= 1 MHz / VR= 0 V) |
| Capacity (Core-Earth) | typ. 5 pF (f= 1 MHz / VR= 0 V) |
| Impulse durability (conductor-conductor) | B2 (1 kV/25 A) |
| | C1 (700 V/350 A) |
| Impulse durability (conductor-ground) | B2 (1 kV/25 A) |
| | C1 (700 V/350 A) |

Connection data

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

Connection, equipotential bonding

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

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27140201 |
| eCl@ss 4.1 | 27140201 |
| eCl@ss 5.0 | 27130801 |
| eCl@ss 5.1 | 27130801 |
| eCl@ss 6.0 | 27130807 |
| eCl@ss 7.0 | 27130807 |

ETIM

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|----------|----------|
| ETIM 3.0 | EC000943 |
| ETIM 4.0 | EC000943 |
| ETIM 5.0 | EC000943 |

UNSPSC

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| UNSPSC 6.01 | 30212010 |
| UNSPSC 7.0901 | 39121610 |
| UNSPSC 11 | 39121610 |

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Classifications

UNSPSC

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|--------------|----------|
| UNSPSC 12.01 | 39121610 |
| UNSPSC 13.2 | 39121620 |

Approvals

Approvals

Approvals

UL Listed / EAC / EAC

Ex Approvals

Approvals submitted

Approval details

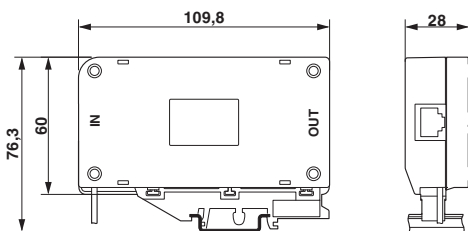
UL Listed

EAC

EAC

Drawings

Dimensional drawing



Circuit diagram

