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## 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.

### Why buy this product

- ✓ 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 STK
GTIN	 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 / VR= 0 V)
Capacity (line-earth)	typ. 5 pF (f= 1 MHz / VR= 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

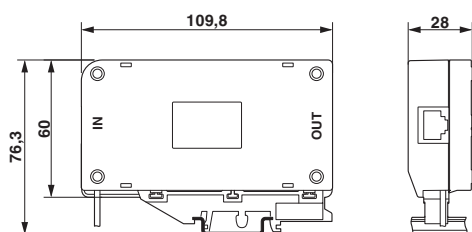
Connection method	Cable connection
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### Standards and Regulations

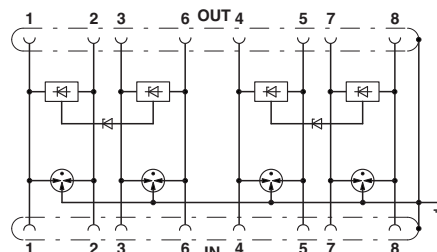
Standards/specifications	IEC 61643-21/A1 2008
	GB/T 18802.21 2004
	EN 61643-21/A1 2009
	IEC 61643-21 2000

## 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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