

DT-TELE-WM-RJ45-PT-I - Surge protection device



1464188

<https://www.phoenixcontact.com/de/produkte/1464188>

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Surge protection with status indicator for analog and digital telecommunications interfaces (VDSL up to 250 Mbps, G.fast up to 1.5 Gbps) in a surface-mounted housing. Alternatively, it can be snapped onto a DIN rail. Integrated overload protection (power-cross). Connection: RJ45 (RJ12) and push-in.

Your advantages

- Easy installation in cabinets and on the wall with screw mounting or by snapping it onto a DIN rail
- Precise function monitoring with the status indicator on the device
- No restriction of data transmission even at high speeds
- Tests by Deutsche Telekom confirm compatibility with VDSL, vectoring VDSL, super-vectoring VDSL (SVVDSL), and G.fast
- Safe response in the event of overload (power-cross) due to an integrated disconnect mechanism and electronic current limiter

Commercial data

Item number	1464188
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	K1 - Überspannungsschutz
Product key	CL3221
GTIN	4063151856779
Weight per piece (including packing)	113,9 g
Weight per piece (excluding packing)	111,8 g
Customs tariff number	85363030
Country of origin	DE

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Technical data

Product properties

Product family	DATATRAB
IEC test classification	B2
	C1
	C2
	C3
	D1
Type	DIN rail module, one-piece

Data management status

Article revision	03
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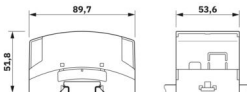
Insulation characteristics

Overvoltage category	III (≤ 2000 m (amsl))
	II (≤ 4000 m amsl)
Pollution degree	2

Connection data

Connection method	Push-in connection
Conductor cross section flexible	0.2 mm ² ... 1.5 mm ²
Conductor cross section rigid	0.2 mm ² ... 1.5 mm ²
Conductor cross section AWG	24 ... 16

Dimensions

Dimensional drawing	
Width	53.6 mm
Height	89.7 mm
Depth	51.8 mm

Material specifications

Color	gray (RAL 7042)
	black (RAL 9005)
Flammability rating according to UL 94	V-0
Insulating material	PC
Housing material	PC

Mechanical properties

Mechanical data

Open side panel	No
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Protective circuit

Maximum continuous voltage U_C	60 V DC
Rated current	200 mA (30 V DC, 70 °C)
	100 mA (> 30 V DC)
Operating effective current I_C at U_C	$\leq 1 \mu A$
Residual current I_{PE}	$\leq 1 \mu A$
Nominal discharge current I_n (8/20) μs (line-line)	5 kA (Terminal)
Nominal discharge current I_n (8/20) μs (line-ground)	10 kA (Terminal)
Pulse discharge current I_{imp} (10/350) μs (line-earth)	1.5 kA (Terminal)
Total discharge current I_{total} (8/20) μs	12 kA (Terminal)
Voltage protection level U_p (line-line)	≤ 1.3 kV (B2 - 4 kV / 100 A)
	≤ 1.4 kV (C1 - 2 kV / 1 kA)
	≤ 1.4 kV (C2 - 10 kV / 5 kA)
	≤ 1 kV (C3 - 15 A)
Voltage protection level U_p (line-earth)	≤ 0.8 kV (B2 - 4 kV / 100 A)
	≤ 950 V (C1 - 2 kV / 1 kA)
	≤ 950 kV (C2 - 10 kV / 5 kA)
	≤ 0.9 kV (C3 - 15 A)
	≤ 1.05 kV (C3 - 100 A)
Response time t_A (line-line)	≤ 100 ns
Response time t_A (line-earth)	≤ 100 ns
Input attenuation aE, sym.	typ. 1 dB (≤ 40 MHz/150 Ω)
Cut-off frequency f_g (3 dB), sym. in 150 Ω system	typ. 100 MHz
Capacity (Core-Core)	typ. 10 pF
Resistance per path	6 Ω
Surge protection fault message	optical
Impulse durability (line-line)	B2 - 4 kV / 100 A
	C1 - 2 kV / 1 kA
	C2 - 10 kV / 5 kA, terminal
	C2 - 3 kV / 1.5 kA, RJ45
	C3 - 100 A
Impulse durability (line-earth)	B2 - 4 kV / 100 A
	C1 - 2 kV / 1 kA
	C2 - 10 kV / 5 kA, terminal
	C2 - 3 kV / 1.5 kA, RJ45
	C3 - 100 A
	D1 - 1,5 kA, Terminal
Pulse reset time (line-line)	≤ 10 ms ($U_C = 30$ V, $I_L = 200$ mA)
	≤ 50 ms ($U_C = 60$ V, $I_L = 100$ mA)
Pulse reset time (line-earth)	≤ 10 ms ($U_C = 30$ V, $I_L = 200$ mA)
	≤ 100 ms ($U_C = 60$ V, $I_L = 100$ mA)

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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	≤ 4000 m (amsl)
Permissible humidity (operation)	5 % ... 95 %

Standards and regulations

Standards/specifications	IEC 61643-21
Note	2000 + corrigendum 2001 + A1:2008, modified + A2:2012

EN 61643-21

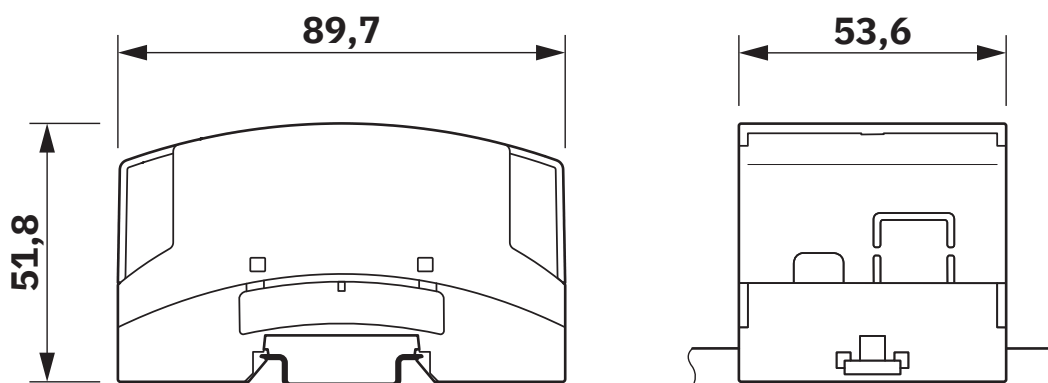
Standards/specifications	EN 61643-21
Note	2001 + A1:2009 + A2:2013

Mounting

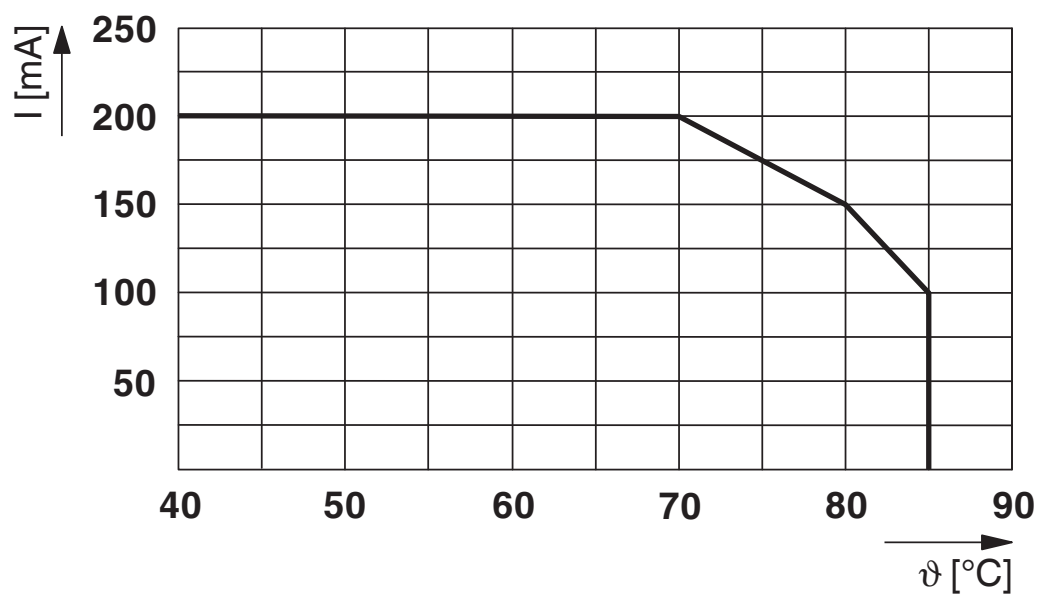
Mounting type	DIN rail: TH 35 - 7.5 mm
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Drawings

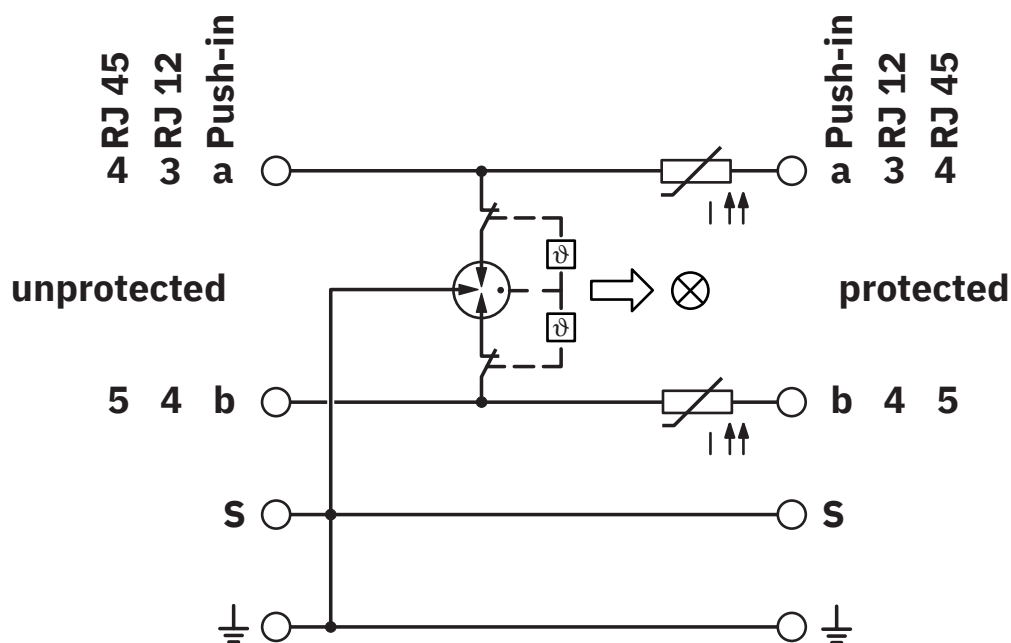
Dimensional drawing



Diagram



Circuit diagram



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Classifications

ECLASS

ECLASS-11.0	27130807
ECLASS-13.0	27171503

Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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Accessories

SSA 3-6 - Shield connection

2839295

<https://www.phoenixcontact.com/de/produkte/2839295>

Shield fast connection for 3 ... 6 mm cable diameter. Potential connecting cable:
200 mm, 1 mm², color: black



X-PEN 0,35 - Marker pen

0811228

<https://www.phoenixcontact.com/de/produkte/0811228>

Marker pen without ink cartridge, for manual labeling of markers, labeling
extremely wipe-proof, line thickness 0.35 mm



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