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Surge protection, consisting of protective plug and base element, with integrated multi-stage status indicator on the module for five signal wires. For HF applications and telecommunications interfaces without supply voltage (up to 90 Mbps).

#### **Product Features**

- ✓ Surge protection system
- Multi-level state monitoring
- Collective message about supply and remote module
- System supplied via DIN rail bus
- For HF applications, thanks to high transmission speeds
- Maximum ease of maintenance thanks to the two-piece design
- Codable plug
- ☑ Base element remains an integral part of the installation





### Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	140.0 GRM
Custom tariff number	85363010
Country of origin	Germany

#### Technical data

#### **Dimensions**

Height	91 mm
Width	17.7 mm
Depth	77.5 mm
Horizontal pitch	1 Div.



# Technical data

#### Ambient conditions

Ambient temperature (operation)	-40 °C 70 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
Degree of protection	IP20

#### General

Housing material	PA 6.6
Inflammability class according to UL 94	V0
Color	black
Standards for air and creepage distances	IEC 60664-1
Mounting type	DIN rail: 35 mm
Туре	DIN rail module, two-section, divisible
Direction of action	Line-Line & Line-Signal Ground/Shield & optional Signal Ground/Shield- Earth Ground
Transmission speed	90 MBit/s

#### Protective circuit

IEC test classification	C1
	C2
	C3
	D1
Nominal voltage U <sub>N</sub>	24 V DC
Maximum continuous operating voltage U <sub>C</sub>	15 V DC
	10 V AC
Nominal current I <sub>N</sub>	600 mA (up to 40 °C)
Operating effective current I <sub>C</sub> at U <sub>C</sub>	≤ 100 µA (per system)
Residual current I <sub>PE</sub>	≤ 100 μA (per system)
Nominal discharge current I <sub>n</sub> (8/20) μs (Core-Core)	10 kA
Nominal discharge current I <sub>n</sub> (8/20) μs (Core-Earth)	10 kA
Total surge current (8/20) µs	20 kA
Impulse discharge current (10/350)#µs, peak value I <sub>imp</sub>	2.5 kA
Voltage protection level U <sub>P</sub> (Core-Core)	≤ 90 V (C1 - 1 kV/500 A)
	≤ 40 V (C3 - 25 A)
	≤ 145 V (C2 - 10 kV / 5 kA)
Voltage protection level U <sub>P</sub> (Core-Earth)	≤ 90 V (C1 - 1 kV/500 A)
	≤ 145 V (C2 - 10 kV / 5 kA)
	≤ 40 V (C3 - 25 A)
Voltage protection level U <sub>P</sub> static (core-core)	≤ 55 V (C1 - 1 kV/500 A)
Voltage protection level U <sub>P</sub> static (core-ground)	≤ 55 V (C1 - 1 kV/500 A)



# Technical data

#### Protective circuit

Response time tA (Core-Core)	≤ 1 ns
Response time tA (Core-Earth)	≤ 1 ns
Input attenuation aE, sym.	typ. 0.3 dB (≤ 15 MHz / 150 Ω)
Cut-off frequency fg (3 dB), sym. in 150 Ohm system	> 60 MHz
Capacity (Core-Core)	typ. 30 pF
Capacity (Core-GND)	typ. 30 pF
Resistance in series	1.2 Ω ±5 %
Surge protection fault message	Optical, multi-stage
Max. required back-up fuse	0.6 A (FF)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	C1 (1 kV/500 A)
	C2 (10 kV/5 kA)
	C2 (10 kA)
	C3 - 25 A
	C3 (50 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C1 (1 kV / 500 A)
	C2 (10 kV / 5 kA)
	C2 (10 kA)
	C3 (25 A)
	C3 (50 A)
	D1 - 2,5 kA
Surge carrying capacity in acc. with IEC 61643-21 (Core-GND)	C1 (1 kV/500 A)
	C2 (10 kV/5 kA)
	C2 (10 kA)
	C3 (25 A)
	C3 (50 A)
Pulse reset time tr in acc. with IEC 61643-21 (Core-Core)	≤ 15 ms
Pulse reset time tr in acc. with IEC 61643-21 (Core-Earth)	≤ 15 ms
Pulse reset time tr in acc. with IEC 61643-21 (Core-GND)	≤ 15 ms
Overload failure mode as per IEC 61643-21 (plug)	Mode 2

#### Connection data

Connection method	Screw connection
Connection type IN	Screw terminal blocks
Connection type OUT	Screw terminal blocks
Tightening torque	0.5 Nm
Stripping length	8 mm
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	4 mm²



#### Technical data

#### Connection data

Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12

#### Connection, equipotential bonding

Connection method	NS 35 DIN rail or connection terminal block

## Classifications

#### eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27130801
eCl@ss 5.0	27130801
eCl@ss 5.1	27130801
eCl@ss 6.0	27130807
eCl@ss 7.0	27130807
eCl@ss 8.0	27130807

#### **ETIM**

ETIM 3.0	EC000943
ETIM 4.0	EC000943
ETIM 5.0	EC000943

#### UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

## Approvals

#### Approvals

Approvals

UL Listed

Ex Approvals



## Approvals

Approvals submitted

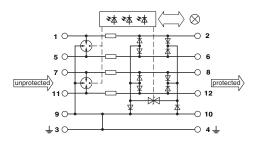
Approval details



## **Drawings**

# Dimensioned drawing

#### Circuit diagram



#### Application drawing

