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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 _N	5 V DC
Maximum continuous operating voltage U _C	6 V DC
	4 V AC
Nominal current I _N	600 mA (up to 40 °C)
Operating effective current I _C at U _C	≤ 800 μA (per system)
Residual current I _{PE}	≤ 10 µA
Nominal discharge current I _n (8/20) µs (Core-Core)	10 kA
Nominal discharge current I _n (8/20) µs (Core-Earth)	10 kA
Total surge current (8/20) µs	20 kA
Impulse discharge current (10/350)#µs, peak value I _{imp}	2.5 kA
Voltage protection level U _P (Core-Core)	≤ 90 V (C1 - 1 kV/500 A)
	≤ 30 V (C3 - 25 A)
	≤ 140 V (C2 - 10 kV / 5 kA)
Voltage protection level U _P (Core-Earth)	≤ 900 V (C3 - 25 A)
	≤ 900 V (C2 - 10 kV / 5 kA)
	≤ 900 V (C3 - 25 A)
Voltage protection level U _P (Core-GND)	≤ 90 V (C1 - 1 kV/500 A)
	≤ 140 V (C1 - 1 kV/500 A)



Technical data

Protective circuit

	≤ 30 V (C3 - 25 A)
Voltage protection level U _P static (core-core)	≤ 45 V (C1 - 1 kV/500 A)
Voltage protection level U _P static (core-GND)	≤ 45 V (C1 - 1 kV/500 A)
Response time tA (Core-Core)	≤ 1 ns
Response time tA (Core-Earth)	≤ 1 ns
	≤ 100 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)	≤ 10 ms
Pulse reset time tr in acc. with IEC 61643-21 (Core-Earth)	≤ 10 ms
Pulse reset time tr in acc. with IEC 61643-21 (Core-GND)	≤ 10 ms
Overload failure mode as per IEC 61643-21 (plug)	Mode 2
Overload failure mode as per IEC 61643-21 (GND-Ground base element)	Mode 2

Connection data

Connection method	Screw connection
Connection type IN	Screw terminal blocks



Technical data

Connection data

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
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

Approvals

UL Listed

Ex Approvals

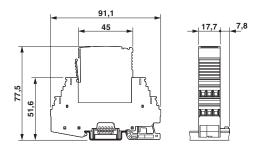
Approvals submitted

Approval details

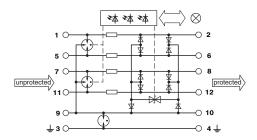


Drawings

Dimensioned drawing



Circuit diagram



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