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Surge protection with integrated status indicator and knife disconnection for three signal wires with common reference potential. For HF applications and telecommunications interfaces without supply voltage (up to 90 Mbps). Indirect grounding via gas-filled surge arrester.

#### Why buy this product

- Space-saving installation due to the narrow overall width of 6.2 mm
- Signaling without additional auxiliary power, thanks to the mechanical status indicator
- Optional remote signaling module monitors up to 40 items, without additional wiring
- Quick and tool-free installation of surge protective devices, thanks to Push-in connection technology
- Signal circuits easily interrupted for maintenance work, thanks to vertical knife disconnection
- Safe behavior in the event of overload, thanks to the integrated disconnect device
- Grounded or insulated shield grounding, thanks to the third terminal point on the surge protective device



















# **Key Commercial Data**

Packing unit	1
GTIN	4 055626 145679
GTIN	4055626145679
Custom tariff number	85363010

#### Technical data

#### **Dimensions**

Height	105.8 mm
	105.8 mm
Width	6.2 mm
Depth	83.5 mm

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# Technical data

#### Ambient conditions

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

#### General

Housing material	PBT
Flammability rating according to UL 94	V-0
Color	traffic grey A RAL 7042
Mounting type	DIN rail: 35 mm
Design	Rail-mountable module, one-piece
Direction of action	Line-Line & Line-Signal Ground/Shield & optional Signal Ground/Shield- Earth Ground

#### Protective circuit

IEC test classification	C1
	C2
	C3
	D1
Nominal voltage U <sub>N</sub>	24 V DC
Maximum continuous voltage U <sub>C</sub>	30 V DC
Rated current	600 mA (40 °C)
Operating effective current I <sub>C</sub> at U <sub>C</sub>	≤ 5 µA
Residual current I <sub>PE</sub>	≤ 1 µA
Nominal discharge current I <sub>n</sub> (8/20) µs (Core-Core)	5 kA
Nominal discharge current I <sub>n</sub> (8/20) µs (core-earth)	5 kA
Nominal discharge current I <sub>n</sub> (8/20) µs (core-GND)	5 kA
Pulse discharge current I <sub>imp</sub> (10/350) μs (core-ground)	0.5 kA
Pulse discharge current I <sub>imp</sub> (10/350) μs (core-GND)	0.5 kA
Total discharge current I <sub>total</sub> (8/20) μs	10 kA
Voltage protection level U <sub>p</sub> (core-core)	≤ 150 V (C1 - 1 kV/500 A)
	≤ 275 V (C2 - 10 kV / 5 kA)
	≤ 45 V (C3 - 25 A)
	≤ 55 V (C3 - 100 A)
Voltage protection level U <sub>p</sub> (core-ground)	≤ 750 V (C1 - 1 kV/500 A)
	≤ 750 V (C2 - 10 kV / 5 kA)
	≤ 110 V (C3 - 25 A)
	≤ 1.2 kV (C3 - 100 A)
Voltage protection level U <sub>p</sub> (core-GND)	≤ 80 V (C1 - 1 kV/500 A)

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# Technical data

#### Protective circuit

	≤ 125 V (C2 - 10 kV / 5 kA)
	≤ 45 V (C3 - 25 A)
	≤ 55 V (C3 - 100 A)
Voltage protection level U <sub>p</sub> static (core-core)	≤ 75 V (C1 - 1 kV/500 A)
	≤ 120 V (C2 - 10 kV / 5 kA)
Voltage protection level U <sub>p</sub> static (core-ground)	≤ 750 V (C1 - 1 kV/500 A)
	≤ 750 V (C2 - 10 kV / 5 kA)
Voltage protection level U <sub>p</sub> static (core-GND)	≤ 75 V (C1 - 1 kV/500 A)
	≤ 120 V (C2 - 10 kV / 5 kA)
Response time tA (core-core)	≤ 1 ns
Response time tA (core-earth)	≤ 1 ns
	≤ 100 ns
Input attenuation aE, sym.	typ. 0.3 dB (≤ 8.7 MHz / 150 Ω)
Input attenuation aE, asym.	typ. 0.3 dB (≤ 10.5 MHz / 150 Ω)
Cut-off frequency fg (3 dB), sym. in 150 Ohm system	typ. 60 MHz
Cut-off frequency fg (3 dB), asym. (GND) in 150 Ohm system	typ. 60 MHz
Capacity (core-core)	typ. 32 pF
Capacity (Core-GND)	typ. 32 pF
Resistance in series	1.65 Ω ±20 %
Surge protection fault message	optical
Max. required back-up fuse	630 mA (FF)
Impulse durability (conductor-conductor)	C1 - 1 kV/500 A
	C2 - 10 kV/5 kA
	C3 - 100 A
Impulse durability (conductor-ground)	C1 - 1 kV/500 A
	C2 - 10 kV/5 kA
	C3 - 100 A
	D1 - 500 A
Impulse durability (conductor-GND)	C1 - 1 kV/500 A
	C2 - 10 kV/5 kA
	C3 - 100 A
	D1 - 500 A
Pulse reset time (conductor-conductor)	≤ 600 ms
Pulse reset time (conductor-ground)	≤ 30 ms
Pulse reset time (conductor-GND)	≤ 600 ms

#### Connection data

Connection method	Push-in connection

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### Technical data

#### Connection data

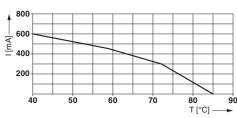
Connection method IN	Push-in connection
Connection method OUT	Push-in connection
Stripping length	8 mm
Conductor cross section flexible	0.2 mm² 2.5 mm²
Conductor cross section solid	0.2 mm² 4 mm²
Conductor cross section AWG	24 12

#### Standards and Regulations

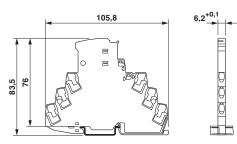
Standards/specifications	IEC 61643-21 2000 + corrigendum 2001 + A1:2008, modified + A2:2012
	EN 61643-21 2001 + A1:2009 + A2:2013

# Drawings

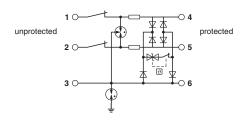




#### Dimensional drawing



#### Circuit diagram



### Approvals

#### Approvals

Approvals

**UL** Listed

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# Approvals

Ex Approvals

Approval details

**UL** Listed



http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm

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