

2800769

Electrical number: 1621801

<https://www.phoenixcontact.com/no/products/2800769>

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Surge protective device, consisting of plug and base element, with integrated multi-stage status indicator on the module, for protecting a double wire for analog and digital telecommunications interfaces (VDSL up to 50 Mbps, on short paths (< 300 m) up to 100 Mbps).

Your advantages

- Predictive monitoring with 3-stage LED display
- Integration of the status message into the system controller via group remote signaling
- Install quickly and error-free with DIN rail connectors
- Maximum ease of maintenance, thanks to the 2-piece design
- Maximum protection for MCR applications with high discharge capacity

Commercial data

Item number	2800769
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	31BCL
Product key	CL2151
Catalog page	Page 187 (C-4-2019)
GTIN	4046356645072
Weight per piece (including packing)	109.6 g
Weight per piece (excluding packing)	78 g
Customs tariff number	85363010
Country of origin	DE

PT-IQ-1X2-TELE-UT - Surge protection device



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Technical data

Notes

General

Note	Remote signaling as well as the power supply of the DIN rail connector are established by snapping the module into place on the DIN rail connector.
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Product properties

IEC test classification	B2
	C1
	C2
	C3
	D1
VDE requirement class	B2
	C1
	C2
	C3
	D1
Type	DIN rail module, two-section, divisible
Product type	Surge protection for information technology
Product family	PLUGTRAB IQ
Surge protection fault message	Optical, multi-stage
Wire pairs per module	1

Insulation characteristics

Overvoltage category	III
Pollution degree	2

Electrical properties

Nominal voltage U_N	180 V DC
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Connection data

Connection method	Screw connection
Screw thread	M3
Tightening torque	0.5 Nm
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section rigid	0.2 mm ² ... 4 mm ²
Conductor cross section AWG	24 ... 12

Dimensions

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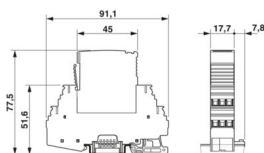


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Dimensional drawing



Width	17.7 mm
Height	91.1 mm
Depth	77.5 mm (incl. DIN rail 7.5 mm)
Horizontal pitch	1 Div.

Material specifications

Color	black (RAL 9005)
	black (RAL 9005)
Flammability rating according to UL 94	V-0
Housing material	PA 6.6

Mechanical properties

Mechanical data

Open side panel	No
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Protective circuit

Direction of action	Line-Line & Line-Earth Ground
Maximum continuous voltage U_C	180 V DC
Rated current	150 mA (25 °C)
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)	10 kA
Nominal discharge current I_n (8/20) μs (line-ground)	10 kA
Pulse discharge current I_{imp} (10/350) μs (line-earth)	2.5 kA
Total discharge current I_{total} (8/20) μs	20 kA
Voltage protection level U_p (line-line)	≤ 290 V (B2 - 100 A)
	≤ 290 V (C1 - 1 kV)
	≤ 290 V (C2 - 10 kV)
	≤ 300 V (C2 - 10 kA)
	≤ 290 V (C3 - 50 A)
Voltage protection level U_p (line-earth)	≤ 500 V (B2 - 100 A)
	≤ 600 V (C1 - 1 kV)
	≤ 600 V (C2 - 10 kV)
	≤ 650 V (C2 - 10 kA)
	≤ 700 V (C3 - 50 A)
Response time t_A (line-line)	≤ 1 ns
Response time t_A (line-earth)	≤ 100 ns

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Input attenuation aE, sym.	typ. 0.3 dB (≤ 5 MHz / 150 Ω)
Cut-off frequency f _g (3 dB), sym. in 150 Ω system	typ. 25 MHz
Capacity (Core-Core)	typ. 60 pF
Resistance per path	1.2 $\Omega \pm 5$ %
Surge protection fault message	Optical, multi-stage
Max. required back-up fuse	150 mA (slow-blow)
Impulse durability (line-line)	C1 - 500 A
	C2 - 10 kA
	C3 - 50 A
	B2 - 100 A
Impulse durability (line-earth)	C1 - 500 A
	C2 - 10 kA
	C3 - 50 A
	B2 - 100 A
	D1 - 2.5 kA
Pulse reset time (line-line)	≤ 30 ms

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	≤ 4000 m (amsl)
Permissible humidity (operation)	5 % ... 95 %

Standards and regulations

VDE requirement class	B2
	C1
	C2
	C3
	D1
Standards/specifications	IEC 61643-21
Note	2000 + A1:2008 + A2:2012
Standards/specifications	EN 61643-21
Note	2001 + A1:2009 + A2:2013
Standards/specifications	EN 61000-6-2
Note	2005
Standards/specifications	EN 61000-6-3
Note	2007 + A1:2011

Mounting

Mounting type	DIN rail: 35 mm
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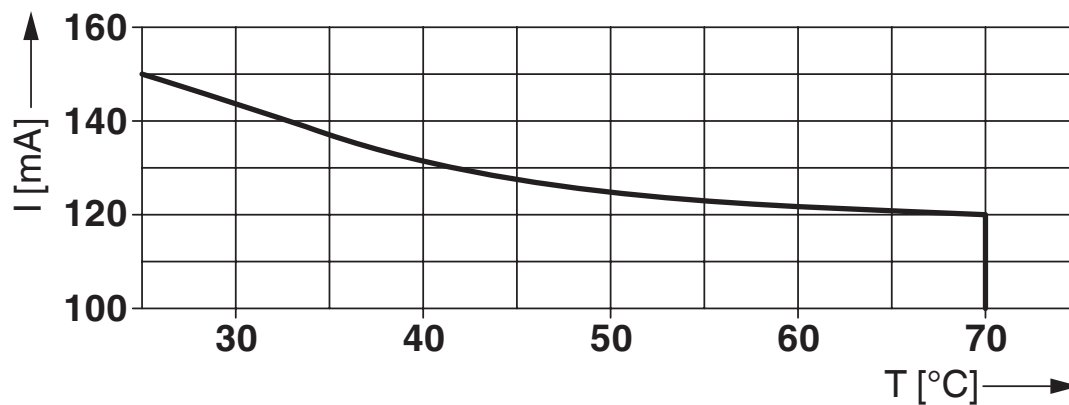
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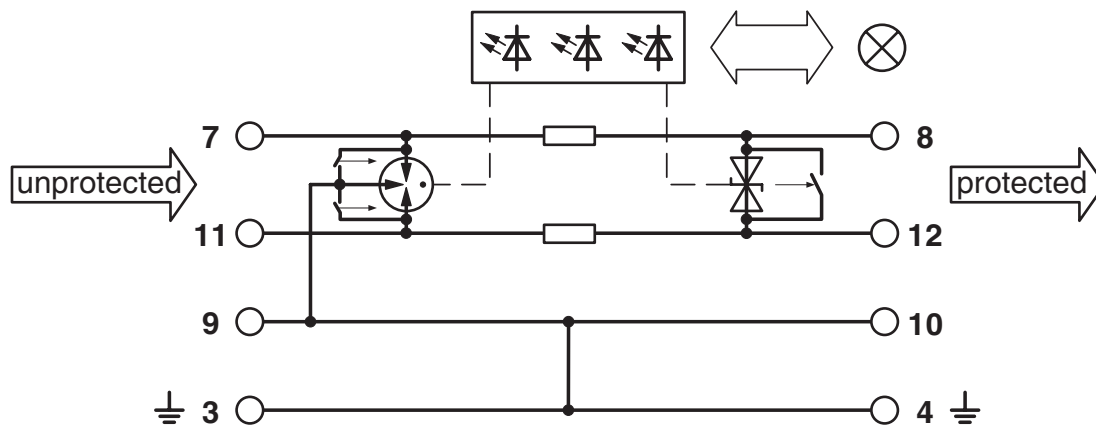
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Drawings

Diagram



Circuit diagram



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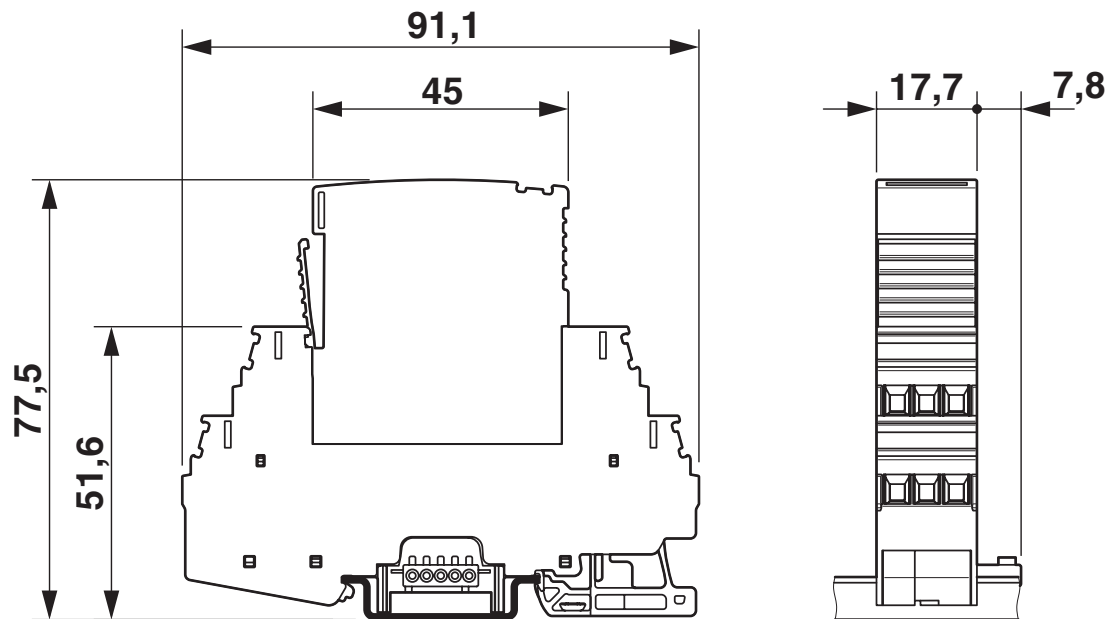
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Dimensional drawing



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Approvals

 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/no/products/2800769>



UL Listed

Approval ID: FILE E 477688



cUL Listed

Approval ID: FILE E 477688

Functional Safety

Approval ID: 13-04-032 R017 V4R0

cULus Listed

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Classifications

ECLASS

ECLASS-11.0	27130807
ECLASS-13.0	27171503

ETIM

ETIM 9.0	EC001466
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UNSPSC

UNSPSC 21.0	39121600
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Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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