

2800982

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Surge protection, consisting of protective plug and base element, with integrated multi-stage status indicator on the module for four signal wires with common reference potential.

## 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	2800982
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL22
Product key	CL2151
Catalog page	Page 133 (C-4-2019)
GTIN	4046356665773
Weight per piece (including packing)	125.7 g
Weight per piece (excluding packing)	120.3 g
Customs tariff number	85363010
Country of origin	DE



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## Technical data

#### Notes

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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.

### Product properties

IEC test classification	C1
	C2
	C3
	D1
Туре	DIN rail module, two-section, divisible
Product type	Surge protection for MCR technology
Product family	PLUGTRAB IQ
Surge protection fault message	Optical, multi-stage

#### Insulation characteristics

Overvoltage category	III
Pollution degree	2

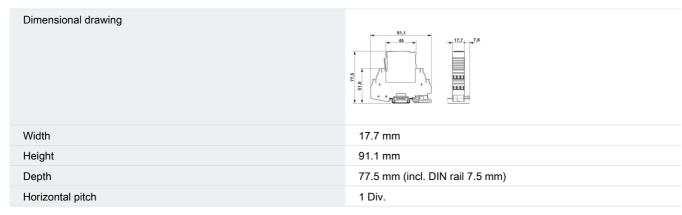
## Electrical properties

Nominal voltage U <sub>N</sub>	24 V DC

#### Connection data

Connection method	Screw connection
Screw thread	M3
Tightening torque	0.5 Nm
Conductor cross section flexible	0.2 mm <sup>2</sup> 2.5 mm <sup>2</sup>
Conductor cross section rigid	0.2 mm² 4 mm²
Conductor cross section AWG	24 12

### **Dimensions**





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## 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

## Protective circuit

Direction of action	Line-Line & Line-Signal Ground/Shield & optional Signal Ground/Shield-Earth Ground
Maximum continuous voltage U <sub>C</sub>	30 V DC
	21 V AC
Rated current	700 mA (50 °C)
Operating effective current $I_C$ at $U_C$	≤ 1 mA (per path)
Residual current I <sub>PE</sub>	≤ 1 mA (per path)
Nominal discharge current $I_n$ (8/20) $\mu$ s (line-ground)	10 kA
Pulse discharge current I <sub>imp</sub> (10/350) μs (line-earth)	2.5 kA
Total discharge current I <sub>total</sub> (8/20) μs	20 kA
Voltage protection level U <sub>p</sub> (line-earth)	≤ 75 V (C1 - 1 kV / 500 A)
	≤ 135 V (C2 - 10 kV / 5 kA)
	≤ 180 V (C2 - 10 kA)
	≤ 55 V (C3 - 25 A)
	≤ 60 V (C3 - 50 A)
Voltage protection level U <sub>p</sub> static (line-earth)	≤ 85 V (C2 - 10 kA)
Response time t <sub>A</sub> (line-earth)	≤ 1 ns
Input attenuation aE, asym.	typ. 0.3 dB (≤ 300 kHz / 150 Ω)
Cut-off frequency fg (3 dB), asym. (PE) in 150 $\Omega$ system	typ. 1.1 MHz
Capacity (Core-Earth)	typ. 2 nF
Resistance per path	1.2 Ω ±5 %
Surge protection fault message	Optical, multi-stage
Max. required back-up fuse	800 mA (FF)
Impulse durability (line-earth)	C1 - 1 kV / 500 A
	C2 - 10 kV / 5 kA
	C2 - 10 kA
	C3 - 50 A
	D1 - 2.5 kA
Pulse reset time (line-earth)	≤ 350 ms

## Environmental and real-life conditions

#### Ambient conditions



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Degree of protection	IP20
Ambient temperature (operation)	-40 °C 70 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
Altitude	≤ 4000 m (amsl)

## Standards and regulations

Standards/specifications	IEC 61643-21
Note	2000 + A1:2008, modified
Standards/specifications	EN 61643-21
Note	2001 + A1:2009
Standards/specifications	EN 61000-6-3
Note	2007 + A1:2011
Standards/specifications	EN 61000-6-2
Note	2005

#### Mounting

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Mounting type	DIN rail: 35 mm	



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## Classifications

### **ECLASS**

	ECLASS-11.0	27130807	
	ECLASS-13.0	27171501	
ETIM			
	ETIM 9.0	EC001625	
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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