

2801286

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Surge protection, consisting of protective plug and base element, with integrated multi-stage status indicator on the module for three signal wires with common reference potential. For HF applications and telecommunications interfaces without supply voltage (up to 90 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	2801286
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL22
Product key	CL2153
Catalog page	Page 176 (C-4-2019)
GTIN	4046356766678
Weight per piece (including packing)	113.7 g
Weight per piece (excluding packing)	109.7 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 information 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 _N 5 V DC	
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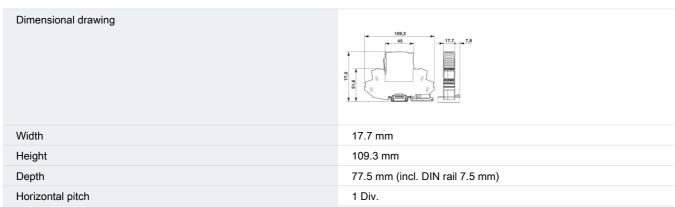
Connection data

Connection method	Push-in connection
Conductor cross section flexible	0.2 mm ² 2.5 mm ²
Conductor cross section rigid	0.2 mm² 4 mm²
Conductor cross section AWG	24 12

Interfaces

-	00.44
Transmission speed	90 Mpbs

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 _C	6 V DC
	4 V AC
Rated current	600 mA (40 °C)
Operating effective current I _C at U _C	≤ 800 µA (per path)
Residual current I _{PE}	≤ 800 µA (per path)
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 l _{imp} (10/350) µs (line-line)	2.5 kA
Pulse discharge current I _{imp} (10/350) µs (line-earth)	2.5 kA
Γotal discharge current I _{total} (8/20) μs	20 kA
/oltage protection level U _p (line-line)	≤ 90 V (C1 - 1 kV / 500 A)
	≤ 140 V (C2 - 10 kV / 5 kA)
	≤ 30 V (C3 - 25 A)
	≤ 30 V (C3 - 50 A)
/oltage protection level U _p (line-earth)	≤ 90 V (C1 - 1 kV / 500 A)
	≤ 140 V (C2 - 10 kV / 5 kA)
	≤ 30 V (C3 - 25 A)
	≤ 30 V (C3 - 50 A)
/oltage protection level U _p static (line-line)	≤ 45 V (C1 - 1 kV / 500 A)
/oltage protection level U _p static (line-earth)	≤ 45 V (C1 - 1 kV / 500 A)
Response time t _A (line-earth)	≤ 1 ns
Response time t _A (line-signalground)	≤ 1 ns
nput attenuation aE, sym.	typ. 0.3 dB (≤ 10 MHz/150 Ω)
nput attenuation aE, asym.	typ. 0.3 dB (≤ 10 MHz/150 Ω)
Cut-off frequency fg (3 dB), sym. in 150 Ω system	typ. 60 MHz
Cut-off frequency fg (3 dB), asym. (signal ground) in 150 Ω system	typ. 60 MHz
Capacity (Core-Core)	typ. 30 pF
Capacity (line-signalground)	typ. 30 pF
Resistance per path	1.2 Ω ±5 %



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Surge protection fault message	Optical, multi-stage
Max. required back-up fuse	600 mA (FF)
Impulse durability (line-line)	C1 - 1 kV / 500 A
	C2 - 10 kV / 5 kA
	C3 - 50 A
Impulse durability (line-earth)	C1 - 1 kV / 500 A
	C2 - 10 kV / 5 kA
	C3 - 50 A
	D1 - 2.5 kA
Pulse reset time (line-line)	≤ 10 ms
Pulse reset time (line-earth)	≤ 10 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)

Standards and regulations

Standards/specifications	IEC 61643-21
Note	2000 + A1:2008 + A2:2012
Standards/specifications	EN 61643-21
Note	2001 + A1:2009
Standards/specifications	EN 61000-6-2
Note	2007 + A1:2011
Standards/specifications	EN 61000-6-3
Note	2005

Mounting

Mounting type	DIN rail: 35 mm



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Classifications

ECLASS

	ECLASS-11.0	27130807		
	ECLASS-13.0	27171503		
ETIM				
	ETIM 9.0	EC001466		
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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