

2906741

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Surge protection, consisting of protective plug and base element, with integrated status indicator and disconnect knife for two signal wires with common reference potential, e.g., Digital IN/OUT.

Your advantages

- · Space-saving and cost-saving with a narrow overall width of just 6 mm
- · Continuous monitoring of protective devices, plus mechanical status indicator with optional remote signaling
- Finding the right product for all possible requirements in MCR applications is easy, thanks to the complete range of products with customized features
- · Easy testing and documentation with CHECKMASTER 2 with pluggable protective modules
- The signal is not influenced during maintenance work, thanks to the impedance-neutral insertion and removal of protective plugs

Commercial data

Item number	2906741
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL23
Product key	CL2161
Catalog page	Page 128 (C-4-2019)
GTIN	4055626134734
Weight per piece (including packing)	47.6 g
Weight per piece (excluding packing)	40.89 g
Customs tariff number	85363010
Country of origin	DE



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Technical data

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	TERMITRAB complete
nsulation characteristics	
Overvoltage category	III
Pollution degree	2

Electrical properties

Nominal voltage U _N	24 V DC
Trommar voltago on	21120

Connection data

Connection method	Screw connection
Screw thread	M3
Tightening torque	0.5 Nm 0.6 Nm
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

Dimensions

Dimensional drawing	105,0
Width	6.2 mm +0.1 mm
Height	105.8 mm
Depth	100 mm (incl. DIN rail 7.5 mm)

Material specifications

Color (Base element)	gray (RAL 7042)
Color (Male connector)	light grey (RAL 7035)
Flammability rating according to UL 94	V-0
Insulating material	PBT
Housing material	PBT

Mechanical properties



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Mec	hanical	l data

Open side panel	No
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Protective circuit

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Direction of action	Line-Line & Line-Signal Ground/Shield & optional Signal Ground/Shield-Earth Ground
Maximum continuous voltage $U_{\mathbb{C}}$	30 V DC
	21 V AC
Rated current	600 mA (56 °C)
Operating effective current I _C at U _C	≤ 5 µA
Residual current I _{PE}	≤ 10 µA
Nominal discharge current I _n (8/20) µs (line-ground)	5 kA
Pulse discharge current l _{imp} (10/350) μs (line-earth)	0.5 kA
Total discharge current I _{total} (8/20) μs	10 kA
Voltage protection level U _p (line-earth)	≤ 140 V (C1 - 1 kV / 500 A)
	≤ 190 V (C2 - 10 kV / 5 kA)
	≤ 45 V (C3 - 25 A)
	≤ 50 V (C3 - 100 A)
Voltage protection level U _p static (line-earth)	≤ 55 V (C1 - 1 kV / 500 A)
	≤ 120 V (C2 - 10 kV / 5 kA)
Response time t _A (line-earth)	≤ 1 ns
Input attenuation aE, asym.	typ. 0.3 dB (≤ 270 kHz/150 Ω)
Cut-off frequency fg (3 dB), asym. (PE) in 150 Ω system	typ. 960 kHz
Capacity (Core-Earth)	typ. 2.2 nF
Resistance per path	1.65 Ω ±20 %
Surge protection fault message	optical
Max. required back-up fuse	630 mA (FF)
Impulse durability (line-earth)	C1 - 1 kV / 500 A
	C2 - 10 kV / 5 kA
	C3 - 100 A
	D1 - 500 A
Pulse reset time (line-earth)	≤ 300 ms
Additional technical data	
Max. total discharge current I total max (8/20) μs	20 kA (1x)

Environmental and real-life conditions

Ambient conditions

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



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Standards and regulations

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



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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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