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Double-level modular terminal block with two-stage surge protection for one two-wire impedance-sensitive signal circuit, disconnect knife on both signal paths, separate ground connection, nominal voltage: 24 V DC.

### Why buy this product

- ✓ Versions with and without disconnect knife
- Protection of a floating double wire in which the introduction of additional resistors for decoupling the protection stages leads to problems
- Multi-stage modular terminal blocks with screw connection technology
- ☑ Disconnection of signal circuits by disconnect knife



# **Key Commercial Data**

Packing unit	14 STK
GTIN	4 046356 160186
GTIN	4046356160186

#### Technical data

### Dimensions

Height	94.8 mm
Width	6.2 mm
Depth	69.1 mm

### Ambient conditions

Ambient temperature (operation)	-40 °C 80 °C
Altitude	≤ 2000 m (amsl (above mean sea level))
Degree of protection	IP20 (with end cover)

#### General

Housing material	PA 6.6
Flammability rating according to UL 94	V-0



## Technical data

### General

Color	jet black RAL 9005
Mounting type	DIN rail: 35 mm
Туре	Double-level terminal block with PE foot – separate PE connection
Number of positions	2
Direction of action	Line-Line & Line-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
	21 V AC
Rated current	10 A (40 °C)
Operating effective current I <sub>C</sub> at U <sub>C</sub>	≤ 5 µA
Residual current I <sub>PE</sub>	≤ 2 µA
Nominal discharge current I <sub>n</sub> (8/20) µs (line-line)	300 A
Nominal discharge current I <sub>n</sub> (8/20) µs (line-earth)	5 kA
Pulse discharge current I <sub>imp</sub> (10/350) μs (line-earth)	500 A
Total discharge current I <sub>total</sub> (8/20) µs	10 kA
Nominal pulse current lan (10/1000) µs (line-line)	60 A
Nominal pulse current lan (10/1000) µs (line-earth)	100 A
Output voltage limitation at 1 kV/µs (line-line) spike	≤ 45 V
Output voltage limitation at 1 kV/µs (line-earth) spike	≤ 650 V
Output voltage limitation at 1 kV/µs (line-line) static	≤ 45 V
Output voltage limitation at 1 kV/µs (line-earth) static	≤ 650 V
Residual voltage at I <sub>n</sub> (line-line)	≤ 55 V
Residual voltage with Ian (10/1000) µs (line-line)	≤ 50 V
Voltage protection level U <sub>p</sub> (line-line)	≤ 50 V (C1 - 500 V / 250 A)
Response time t <sub>A</sub> (line-line)	≤ 1 ns
Response time t <sub>A</sub> (line-earth)	≤ 100 ns
Input attenuation aE, sym.	typ. 0.1 dB ( $\leq$ 1 MHz / 50 $\Omega$ )
	typ. 0.1 dB (≤ 400 kHz / 150 Ω)
Cut-off frequency fg (3 dB), sym. in 50 Ohm system	typ. 7 MHz
Cut-off frequency fg (3 dB), sym. in 150 Ohm system	typ. 2 MHz
Capacity (line-line)	< 2.5 nF
Resistance in series	< 5 mΩ
Surge protection fault message	none
Max. required back-up fuse	10 A (gL/gG/C)
Impulse durability (line-line)	C1 - 500 V / 250 A

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## Technical data

### Protective circuit

	C3 - 25 A
Impulse durability (line-earth)	C2 - 10 kV/5 kA
	D1 - 500 A

### Connection data

Connection method	Screw connection
Connection method IN	Screw terminal blocks
Connection method OUT	Screw terminal blocks
Screw thread	M3
Tightening torque	0.6 Nm
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 14

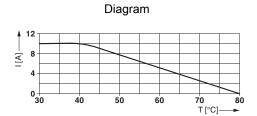
## Standards and Regulations

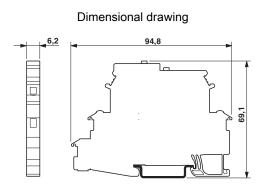
Standards/specifications	EN 61643-21 2001
	IEC 61643-21 2000

# **Environmental Product Compliance**

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

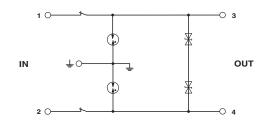
# Drawings







### Circuit diagram



#### Approvals

Approvals			
Approvals			
Approvals			
EAC / EAC / UL Listed / DNV	'GL		
Ex Approvals			
Approval details			
EAC	ERC		EAC-Zulassung
EAC	ERC		RU C- DE.A*30.B01561
UL Listed	UL	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 138168

DNV GL	http://exchange.dnv.com/tari/	TAE00001N7
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