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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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

















## **Key Commercial Data**

Packing unit	10 STK
GTIN	4 046356 769204
GTIN	4046356769204

#### Technical data

#### **Dimensions**

Height	100 mm
Width	6.2 mm
Depth	63.5 mm (incl. DIN rail 7.5 mm)

#### Ambient conditions

Ambient temperature (operation)	-40 °C 80 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
Altitude	≤ 2000 m
Degree of protection	IP20

#### General

Housing material	PA 6.6
Flammability rating according to UL 94	V-0
Color	black
Standards for cearances and creepage distances	IEC 60664-1
Mounting type	DIN rail: 35 mm
Туре	Double-level terminal block



## Technical data

#### General

Number of positions	2
Direction of action	Line-Line & Line-Earth Ground

#### Protective circuit

IEC test classification	C1
	C2
	C3
	D1
VDE requirement class	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	6 A (40 °C)
Operating effective current I <sub>C</sub> at U <sub>C</sub>	≤ 1 µA
Residual current I <sub>PE</sub>	≤ 1 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	500 A (per path)
Total discharge current I <sub>total</sub> (8/20) µs	5 kA
Nominal pulse current lan (10/1000) µs (line-line)	25 A
Nominal pulse current Ian (10/1000) µs (line-earth)	50 A
Output voltage limitation at 1 kV/µs (line-line) spike	≤ 45 V
Output voltage limitation at 1 kV/µs (line-earth) spike	≤ 800 V
Output voltage limitation at (8/20) µs (line-line)	≤ 50 V (at 300 A)
Output voltage limitation at (8/20) µs (line-earth)	≤ 750 V (at 500 A)
	≤ 1.25 kV (at 5 kA)
Residual voltage at I <sub>n</sub> (line-line)	≤ 50 V (at 300 A)
Residual voltage at I <sub>n</sub> (line-earth)	≤ 750 V (at 500 A)
	≤ 1.25 kV (at 5 kA)
Residual voltage with Ian (10/1000) µs (line-line)	≤ 45 V (at 25 A)
Residual voltage with Ian (10/1000) µs (line-earth)	≤ 1.1 kV (at 50 A)
Voltage protection level U <sub>p</sub> (line-line)	≤ 50 V (C1 - 0,6 kV / 300 A)
	≤ 45 V (C3 - 25 A)
	≤ 45 V (1 kV/µs)
Voltage protection level U <sub>p</sub> (line-earth)	≤ 1.25 kV (C2 - 10 kV / 5 kA)
	≤ 1.1 kV (C3 - 50 A)
	≤ 750 V (C1 - 1 kV/500 A)
	≤ 800 V (1 kV/µs)
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## Technical data

#### Protective circuit

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. 0.3 dB (330 kHz/150 Ω)
	typ. 0.3 dB (1.1 kHz / 50 Ω)
Cut-off frequency fg (3 dB), sym. in 50 Ohm system	typ. 3.3 MHz
Cut-off frequency fg (3 dB), sym. in 150 Ohm system	typ. 1 MHz
Capacity (line-line)	≤ 2 nF
Surge protection fault message	none
Max. required back-up fuse	6.3 A (T/IEC 60127-2/3)
Impulse durability (line-line)	C1 - 0,6 kV / 300 A
	C3 - 25 A
Impulse durability (line-earth)	C2 - 10 kV/5 kA
	D1 - 500 A
	C1 - 1 kV/500 A
	C3 - 50 A
Pulse reset time (line-earth)	≤ 700 ms, at U <sub>c</sub> and 10 A
Overload failure mode (line-line)	Mode 2

#### Connection data

Connection method	Spring-cage connection
Connection method IN	Spring-cage
Connection method OUT	Spring-cage
Conductor cross section flexible	0.2 mm² 2.5 mm²
Conductor cross section solid	0.2 mm² 4 mm²
Conductor cross section AWG	24 12

#### Connection, equipotential bonding

Connection method	Spring-cage connection
Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	2.5 mm <sup>2</sup>
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	4 mm²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12

## Standards and Regulations

Standards/specifications	IEC 61643-21/A1 2008
	EN 61643-21/A1 2009

#### **Environmental Product Compliance**

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally friendly use period: unlimited = EFUP-e

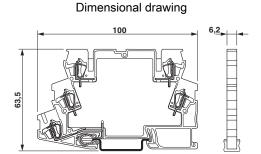


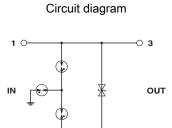
#### Technical data

**Environmental Product Compliance** 

No hazardous substances above threshold values

## Drawings





## Approvals

Approvals

Approvals

UL Listed / DNV GL

Ex Approvals

#### Approval details

**UL Listed** 



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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