

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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, 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 _N	24 V DC
Maximum continuous voltage U _C	30 V DC
	21 V AC
Rated current	10 A (40 °C)
Operating effective current I _C at U _C	≤ 5 μA
Residual current I _{PE}	≤ 2 µA
Nominal discharge current I _n (8/20) µs (line-line)	300 A
Nominal discharge current I _n (8/20) µs (line-earth)	5 kA
Pulse discharge current l _{imp} (10/350) µs (line-earth)	500 A
Total discharge current I _{total} (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 _n (line-line)	≤ 55 V
Residual voltage with Ian (10/1000) µs (line-line)	≤ 50 V
Voltage protection level U_p (line-line)	≤ 50 V (C1 - 500 V / 250 A)
Response time t _A (line-line)	≤ 1 ns
Response time t _A (line-earth)	≤ 100 ns
Input attenuation aE, sym.	typ. 0.1 dB (≤ 1 MHz / 50 Ω)
	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

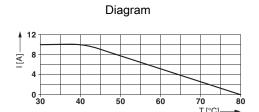
Standards and Regulations

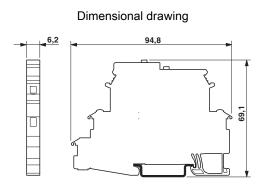
Standards/specifications	EN 61643-21 2001
	IEC 61643-21 2000

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"

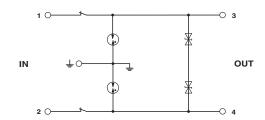
Drawings







Circuit diagram



Approvals

Approvals			
Approvals			
Approvals			
EAC / EAC / UL Listed / DNV	′ GL		
Ex Approvals			
Approval details			
EAC	EAC		EAC-Zulassung
EAC	EAC		RU C- DE.A*30.B01561
UL Listed	(ŪL)	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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