

Surge protection device - TT-2/2- 24DC - 2838173

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Modular terminal block with three-stage surge protection for two signal wires with common reference potential, separate ground connection, nominal voltage: 24 V DC, for mounting on NS 35/7.5, terminal width: 6.2 mm, terminal height: 54.6 mm

Your advantages

- ✓ Versions with and without disconnect knife
- ✓ Protection of two signal wires with common reference potential
- ✓ Multi-stage modular terminal blocks with screw connection technology
- ✓ Disconnection of signal circuits by disconnect knife



Key Commercial Data

Packing unit	10 pc
GTIN	
GTIN	4017918172848

Technical data

Dimensions

Height	79.6 mm
Width	6.2 mm
Depth	54.6 mm

Ambient conditions

Ambient temperature (operation)	-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

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Technical data

General

Color	black
Standards for clearances and creepage distances	IEC 60664-1
Mounting type	DIN rail: 35 mm
Type	Double-level terminal block with PE foot – separate PE connection
Number of positions	2
Direction of action	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
Rated current	300 mA (40 °C)
Operating effective current I_C at U_C	$\leq 10 \mu A$ (per path)
Standby power consumption P_C	≤ 1430 mVA
Residual current I_{PE}	$\leq 10 \mu A$ (per path)
Nominal discharge current I_n (8/20) μs (line-earth)	5 kA
Pulse discharge current I_{imp} (10/350) μs	500 A
Total discharge current I_{total} (8/20) μs	10 kA
Nominal pulse current I_{an} (10/1000) μs (line-earth)	100 A
Output voltage limitation at 1 kV/ μs (line-earth) spike	≤ 50 V
Voltage protection level U_p (line-earth)	≤ 90 V (C2 - 10 kV / 5 kA)
	≤ 55 V (C1 - 1 kV/500 A)
	≤ 45 V (C3 - 10 A)
	≤ 50 V (C3 - 100 A)
	≤ 130 V (D1 - 500 A)
Response time t_A (line-earth)	≤ 1 ns
Input attenuation aE, asym.	0.4 dB (≤ 200 kHz / 50 Ω)
	0.1 dB (≤ 30 kHz/150 Ω)
Cut-off frequency f_g (3 dB), asym. (PE) in 50 Ohm system	typ. 1.5 MHz
Cut-off frequency f_g (3 dB), asym. (PE) in 150 Ohm system	typ. 550 kHz
Capacity (line-line)	≤ 4 nF
Resistance per path	6.6 $\Omega \pm 20$ %
Surge protection fault message	none
Max. required back-up fuse	315 mA (T/IEC 60127-2/3)
Impulse durability (line-earth)	C1 - 1 kV / 500 A
	C2 - 10 kV / 5 kA
	C3 - 100 A
	D1 - 500 A

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Technical data

Protective circuit

Alternating current carrying capacity (line-earth)	0.5 A - 1 s
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Connection data

Connection method	Screw connection
Connection method IN	Screw terminal blocks
Connection method OUT	Screw terminal blocks
Screw thread	M3
Tightening torque	0.8 Nm
Stripping length	8 mm
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section solid	0.2 mm ² ... 4 mm ²
Conductor cross section AWG	24 ... 14

Standards and Regulations

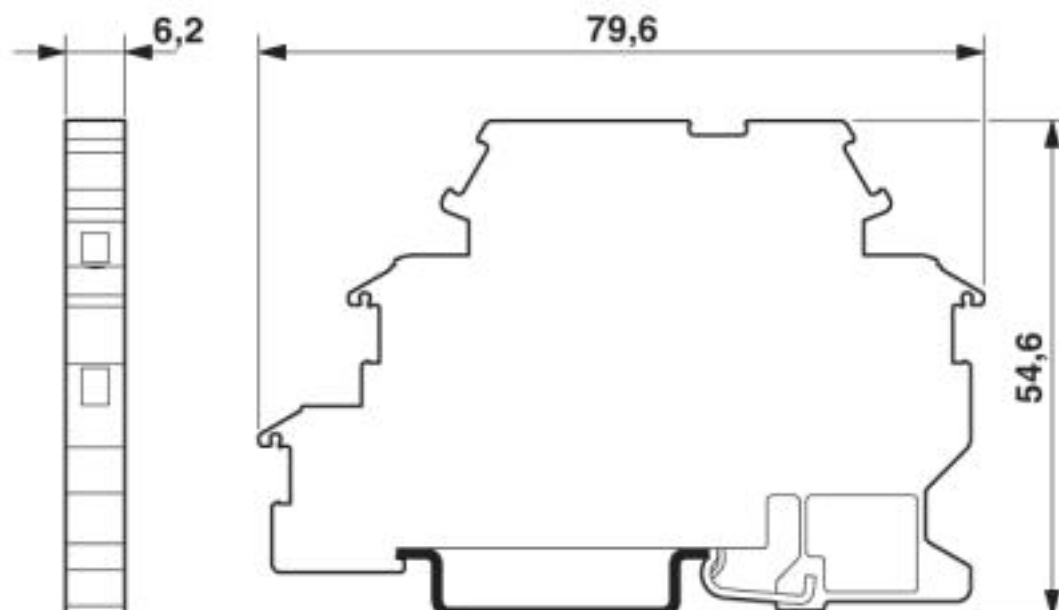
Standards/specifications	IEC 61643-21/A1 2008
	EN 61643-21/A1 2009

Environmental Product Compliance

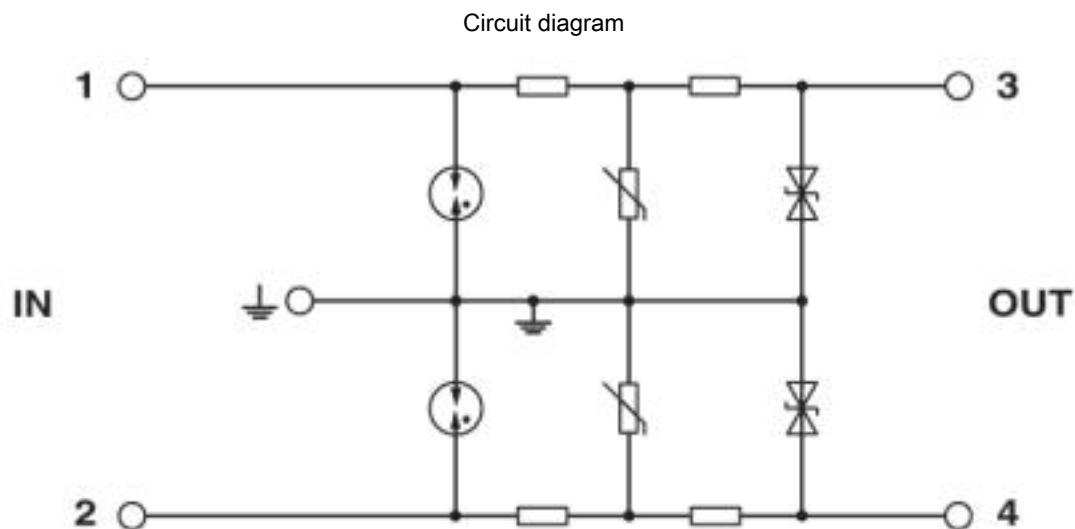
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Dimensional drawing



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Approvals

Approvals

Approvals

DNV GL / UL Listed / EAC / EAC

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approval details

DNV GL



<https://approvalfinder.dnvgl.com/>

TAE00001N7

UL Listed



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

FILE E 138168

EAC



EAC-Zulassung

EAC



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