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Modular terminal block with three-stage surge protection for a floating double conductor, 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

#### **Product Features**

- Versions with and without disconnect knife
- Protection of a floating double wire
- 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	1 pc
Weight per Piece (excluding packing)	28.0 g
Country of origin	Germany

#### Technical data

#### **Dimensions**

Height	79.6 mm
Width	6.2 mm
Depth	54.6 mm

#### Ambient conditions

Ambient temperature (operation)	-40 °C 85 °C
Degree of protection	IP20

#### General



#### Technical data

#### 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 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
Rated current	300 mA (40°C)
Operating effective current I <sub>C</sub> at U <sub>C</sub>	≤ 10 µA
Standby power consumption P <sub>C</sub>	≤ 730 mVA
Residual current I <sub>PE</sub>	≤ 1 µA
Nominal discharge current I <sub>n</sub> (8/20) µs (Core-Core)	5 kA
Nominal discharge current I <sub>n</sub> (8/20) µs (Core-Earth)	5 kA
Pulse discharge current I <sub>imp</sub> (10/350) μs	500 A
Nominal pulse current lan (10/1000) µs (Core-Core)	100 A
Nominal pulse current Ian (10/1000) µs (Core-Earth)	100 A
Output voltage limitation at 1 kV/µs (Core-Core) spike	≤ 45 V
Output voltage limitation at 1 kV/µs (Core-Earth) spike	≤ 650 V
Voltage protection level U <sub>p</sub> (core-core)	≤ 70 V (C2 - 10 kV / 5 kA)
	≤ 55 V (C1 - 1 kV/500 A)
	≤ 45 V (C3 - 10 A)
	≤ 45 V (C3 - 100 A)
Voltage protection level U <sub>p</sub> (core-ground)	≤ 850 V (C2 - 10 kV / 5 kA)
	≤ 650 V (C1 - 1 kV/500 A)
	≤ 850 V (C3 - 10 A)
	≤ 900 V (C3 - 100 A)
	≤ 800 V (D1 - 500 A)
Response time tA (Core-Core)	≤ 1 ns



#### Technical data

#### Protective circuit

Response time tA (Core-Earth)	≤ 100 ns
Input attenuation aE, sym.	typ. 0.6 dB (≤ 500 kHz / 50 Ω)
	typ. 0.3 dB (≤ 160 kHz / 150 Ω)
Cut-off frequency fg (3 dB), sym. in 50 Ohm system	typ. 3 MHz
Cut-off frequency fg (3 dB), sym. in 150 Ohm system	typ. 1 MHz
Capacity (Core-Core)	≤ 4 nF
Resistance in series	3.7 Ω 10 %
Surge protection fault message	None
Max. required back-up fuse	315 mA (T/IEC 60127-2/3)
Impulse durability (conductor-conductor)	C1 - 1 kV/500 A
	C2 - 10 kV/5 kA
	C3 - 100 A
Impulse durability (conductor-ground)	C1 - 1 kV/500 A
	C2 - 10 kV/5 kA
	C3 - 100 A
	D1 - 500 A
Alternating current carrying capacity (conductor-conductor)	0.25 A/1s
Alternating current carrying capacity (conductor-ground)	0.25 A/1s
Pulse reset time (conductor-conductor)	≤ 400 ms, at U <sub>c</sub> and 330 mA
Pulse reset time (conductor-ground)	≤ 400 ms, at U <sub>c</sub> and 330 mA

#### Connection data

Connection method	Screw connection
Connection type IN	Screw terminal blocks
Connection type 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 12

#### Standards and Regulations

Standards/regulations	IEC 61643-21
	EN 61643-21



#### Classifications

#### eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27130801
eCl@ss 5.0	27130801
eCl@ss 5.1	27130801
eCl@ss 6.0	27130807
eCl@ss 7.0	27130807
eCl@ss 8.0	27130807
eCl@ss 9.0	27130807

#### **ETIM**

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000943
ETIM 5.0	EC000943

#### UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

#### Approvals

Approvals

Approvals

GL / UL Listed / EAC / EAC

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approvals submitted

Approval details



#### Approvals

GL
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UL Listed 🕦

EAC

EAC

#### Accessories

#### Accessories

End cover

End cover - D-DEK 1,5 BK - 2838995



Cover for setting the end of a TERMITRAB TT-2-PE... and TT-2/2 row of terminal blocks, color: black

#### Labeled terminal marker

Zack Marker strip, flat - ZBF 6,LGS:FORTL.ZAHLEN - 0808749



Zack Marker strip, flat, Strip, white, labeled, Printed horizontally: Consecutive numbers 1 - 10, 11 - 20, etc. up to 91 - 100, Mounting type: Snap into flat marker groove, for terminal block width: 6.2 mm, Lettering field: 5.15 x 6.15 mm

#### Marker pen

Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm



#### Accessories

#### Terminal marking

Zack Marker strip, flat - ZBF 6:UNBEDRUCKT - 0808710



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into flat marker groove, for terminal block width: 6.2 mm, Lettering field: 5.15 x 6.15 mm

Zack Marker strip, flat - ZBF 6/WH-100:UNBEDRUCKT - 0808736



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into flat marker groove, for terminal block width: 6.2 mm, Lettering field: 5.15 x 6.15 mm

#### Additional products

End cover - D-DEK 1,5 BK - 2838995



Cover for setting the end of a TERMITRAB TT-2-PE... and TT-2/2 row of terminal blocks, color: black

Shield connection - SSA 3-6 - 2839295



shield fast connections for conductor diameter 3 - 6 mm. Potential connection cable: 200 mm, black



#### Accessories

Shield connection - SSA 5-10 - 2839512



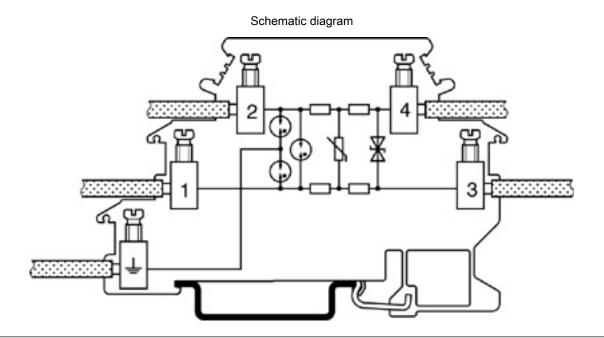
Shield fast connection for conductor diameters 5 - 10 mm. Potential connection cable: 200 mm, black

#### Drawings

# Dimensional drawing

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Circuit diagram



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