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Modular terminal block with two-stage surge protection for two signal wires with common reference potential, disconnect knife on both signal paths, separate ground connection, nominal voltage: 24 V DC

#### **Product Features**

- ✓ 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	1 pc
Weight per Piece (excluding packing)	32.85 GRM
Custom tariff number	85363010
Country of origin	Germany

## Technical data

#### **Dimensions**

Height	92 mm
Width	6.2 mm
Depth	66.45 mm

### Ambient conditions

Ambient temperature (operation)	-40 °C 80 °C
Degree of protection	IP20

#### General



## Technical data

## General

Housing material	PA 6.6	
Inflammability class according to UL 94	V2	
Color	black	
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-Earth Ground	

## Protective circuit

IEC test classification	C1	
	C2	
	C3	
	D1	
Nominal voltage U <sub>N</sub>	24 V DC	
	17 V AC	
Maximum continuous operating voltage U <sub>C</sub>	30 V DC	
	21 V AC	
Maximum continuous voltage U <sub>C</sub> (wire-ground)	30 V DC	
	21 V AC	
Nominal current I <sub>N</sub>	300 mA (40°C)	
Operating effective current I <sub>C</sub> at U <sub>C</sub>	≤ 5 µA (per path)	
Residual current I <sub>PE</sub>	≤ 10 µA (per path)	
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	
Total surge current (8/20) μs	10 kA	
Total surge current (10/350) µs	1 kA	
Max. discharge current I <sub>max</sub> (8/20) µs maximum (Core-Earth)	5 kA	
Nominal pulse current lan (10/1000) µs (Core-Earth)	30 A	
Impulse discharge current (10/350)#μs, peak value l <sub>imp</sub>	500 A (per path)	
Output voltage limitation at 1 kV/µs (Core-Earth) spike	≤ 45 V	
Output voltage limitation at 1 kV/µs (Core-Earth) static	≤ 45 V	
Residual voltage at I <sub>n</sub> , (conductor-ground)	≤ 45 V	
Residual voltage with Ian (10/1000)µs (conductor-ground)	≤ 50 V	
Voltage protection level U <sub>P</sub> (Core-Earth)	≤ 85 V (C2 (10 kV/5 kA))	
	≤ 55 V (C1 (500 V/250 A))	
Response time tA (Core-Earth)	≤1 ns	
Input attenuation aE, asym.	0.5 dB (≤ 1.5 MHz / 50 Ω)	



## Technical data

## Protective circuit

	$0.2 \text{ dB} (\le 400 \text{ kHz} / 150 \Omega)$		
Cut-off frequency fg (3 dB), asym. (PE) in 50 Ohm system	typ. 6 MHz		
Cut-off frequency fg (3 dB), asym. (PE) in 150 Ohm system	typ. 2.5 MHz		
Capacity (Core-Earth)	typ. 2.5 nF		
Resistance in series	4.7 Ω ±20 %		
	4.7 Ω		
Max. required back-up fuse	315 mA (e.g. T in acc. with IEC 127-2/III)		
Surge current resistance (conductor-ground)	C2 - 10 kV/5 kA		
	D1 (500 A)		
Alternating current carrying capacity (conductor-ground)	5 A - 1 s		

## Connection data

Connection method	Screw connection
Connection type IN	Screw terminal blocks
Connection type OUT	Screw terminal blocks
Screw thread	M3
Tightening torque	0.8 Nm
Stripping length	8 mm
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	14

## Standards and Regulations

Standards/regulations	IEC 61643-21
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## 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



## Classifications

**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	
GOST / GOST	
Ex Approvals	
Approvals submitted	
Approval details	
GOST 🚭	

Accessories

Accessories



#### Accessories

End cover

End cover - TT-D-2-PE-M-BK - 2920654



End cover for TERMITRAB TT-2-PE-M-... and TT-2/2-M-...

#### 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 for terminal blocks - ZB 6,LGS:U-N - 1051430



Marker for terminal blocks, Strip, white, labeled, can be labeled with: Plotter, Printed horizontally: U, V, W, N, GND, U, V, W, N, GND, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 6.15 x 10.5 mm

#### Zack marker strip - ZB 6,LGS:FORTL.ZAHLEN - 1051016



Zack marker strip, Strip, white, labeled, can be labeled with: Plotter, Printed horizontally: Consecutive numbers 1 - 10, 11 - 20, etc. up to 491 - 500, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 6.15 x 10.5 mm

Marker pen



#### Accessories

Marker pen - B-STIFT - 1051993



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

#### 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

Zack marker strip - ZB 6:UNBEDRUCKT - 1051003



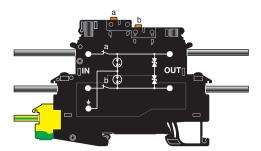
Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 6.15 x 10.5 mm

## Drawings

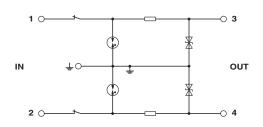


# Dimensioned drawing 94,8 94,8

Schematic diagram







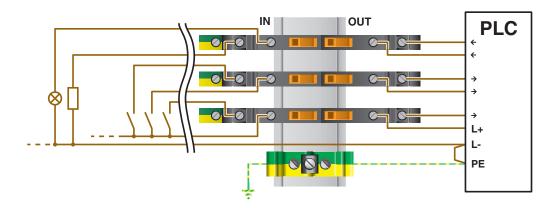
Catalog photo



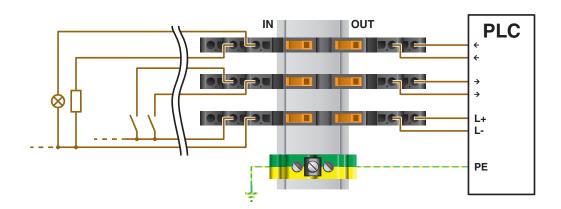
Figure may contain other products.



## Application drawing



## Application drawing



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