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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.

#### **Product Features**

- ✓ Versions with and without disconnect knife
- Trotection 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	1 pc
Weight per Piece (excluding packing)	28.0 GRM
Custom tariff number	85363010
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 80 °C
Degree of protection	IP20

#### General



## Technical data

#### General

Housing material	PA 6.6
Inflammability class according to UL 94	V0
Color	black
Standards for air 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 operating voltage U <sub>C</sub>	30 V DC
	21 V AC
Maximum continuous voltage UC (wire-wire)	30 V DC
	21 V AC
Nominal current I <sub>N</sub>	10 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 (Core-Core)	300 A
Nominal discharge current I <sub>n</sub> (8/20) µs (Core-Earth)	5 kA
Total surge current (8/20) μs	10 kA
Nominal pulse current lan (10/1000) µs (Core-Core)	60 A
Nominal pulse current lan (10/1000) µs (Core-Earth)	100 A
Impulse discharge current (10/350)#μs, peak value l <sub>imp</sub>	500 A
Output voltage limitation at 1 kV/µs (Core-Core) spike	≤ 45 V
Output voltage limitation at 1 kV/µs (Core-Earth) spike	≤ 700 V
Voltage protection level U <sub>P</sub> (Core-Core)	≤ 50 V (C1 - 500 V / 250 A)
	≤ 45 V (C3 - 10 A)
	≤ 50 V (C3 - 25 A)
Voltage protection level U <sub>P</sub> (Core-Earth)	≤ 900 V (C2 - 10 kV / 5 kA)
	≤ 650 V (C1 - 1 kV/500 A)
	≤ 850 V (C3 - 25 A)
	≤ 850 V (D1 - 500 A)



## Technical data

#### Protective circuit

≤ 1 ns			
≤ 100 ns			
typ. 0 dB ( $\leq$ 1 MHz / 50 $\Omega$ )			
typ. 0 dB ( $\leq$ 200 kHz / 150 $\Omega$ )			
typ. 6 MHz			
typ. 2.2 MHz			
4 nF			
10 A (T/IEC 60127-2/3)			
C1 - 500 V / 250 A			
C3 - 25 A			
C1 - 1 kV/500 A			
C2 - 10 kV/5 kA			
C3 (25 A)			
D1 (500 A)			
1A - 1s			
1 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 mm²		
Conductor cross section stranded max.	2.5 mm <sup>2</sup>		
Conductor cross section solid min.	0.2 mm²		
Conductor cross section solid max.	4 mm²		
Conductor cross section AWG/kcmil min.	24		
Conductor cross section AWG/kcmil max	14		

### 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

#### **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

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Approvals

GOST / GL / UL Listed

Ex Approvals

Approvals submitted

#### Approval details



### Approvals

GOST 🕑

GL

UL Listed 🕦

#### 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

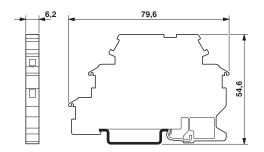
Zack Marker strip, flat - ZBF 6/WH-100:UNBEDRUCKT - 0808736



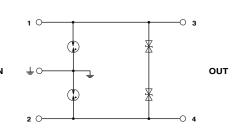
Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into flat marker groove, for terminal block width: 6.2 mm, Lettering field: 5.15 x 6.15 mm

### **Drawings**

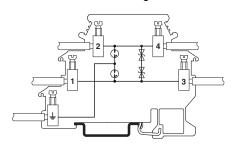
#### Dimensioned drawing



#### Circuit diagram



#### Schematic diagram





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