

## Surge protection device - TT-SLKK5-S- 48DC - 2809610

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Modular terminal block with suppressor diode as surge voltage protection between clamping connector and DIN rail, separate ground connection, nominal voltage: 48 V DC, mounting on NS 35/7.5, terminal width: 6.2 mm, terminal height: 69 mm


The illustration shows version TT-SLKK5-S- 5 DC

### Why buy this product

- ✓ Modular terminal blocks with screw connection technology
- ✓ Protective element between the feed-through terminal block and the metal mounting foot



### Key commercial data

Packing unit	50 pc
GTIN	 4 017918 101299
Weight per Piece (excluding packing)	19.3 g
Custom tariff number	85363030
Country of origin	Germany

### Technical data

#### Dimensions

Height	66.5 mm
Width	6.2 mm
Depth	69.5 mm

#### Ambient conditions

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

#### General

Housing material	PA
Inflammability class according to UL 94	V2
Color	black
Mounting type	DIN rail: 35 mm

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## Technical data

### General

Type	Single-level terminal block – separate PE connection
Direction of action	Line-Earth Ground

### Protective circuit

IEC test classification	C3
VDE requirement class	C3
Nominal voltage $U_N$	48 V DC
Maximum continuous operating voltage $U_C$	53 V DC
	37 V AC
Maximum continuous voltage $U_C$ (wire-ground)	53 V DC
	37 V AC
Nominal current $I_N$	32 A (50 °C)
Operating effective current $I_C$ at $U_C$	$\leq 5 \mu\text{A}$
Residual current $I_{PE}$	$\leq 5 \mu\text{A}$
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$ (Core-Earth)	90 A
Total surge current (8/20) $\mu\text{s}$	90 A
Max. discharge current $I_{max}$ (8/20) $\mu\text{s}$ maximum (Core-Earth)	90 A
Nominal pulse current $I_{an}$ (10/1000) $\mu\text{s}$ (Core-Earth)	17.7 A
Output voltage limitation at 1 kV/ $\mu\text{s}$ (Core-Earth) spike	$\leq 81 \text{ V}$
Output voltage limitation at 1 kV/ $\mu\text{s}$ (Core-Earth) static	$\leq 79 \text{ V}$
Residual voltage at $I_n$ , (conductor-ground)	$\leq 111 \text{ V}$
Response time $t_A$ (Core-Earth)	$\leq 1 \text{ ns}$
Cut-off frequency $f_g$ (3 dB), asym. (PE) in 150 Ohm system	typ. 4 MHz
Capacity (Core-Earth)	0.85 nF
Surge protection fault message	None
Impulse durability (conductor-ground)	C3 - 10 A

### Connection data

Connection method	Screw connection
Connection type IN	Screw terminal blocks
Connection type OUT	Screw terminal blocks
Screw thread	M3
Tightening torque	0.5 Nm
Stripping length	8 mm
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	4 mm <sup>2</sup>
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	4 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12

### Standards and Regulations

# Surge protection device - TT-SLKK5-S- 48DC - 2809610

## Technical data

### 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

### 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

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#### Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

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#### Ex Approvals

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#### Approvals submitted

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#### Approval details

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## Approvals

UL Recognized	
mm <sup>2</sup> /AWG/kcmil	26-10
Nominal current I <sub>N</sub>	30 A
Nominal voltage U <sub>N</sub>	48 V

cUL Recognized	
mm <sup>2</sup> /AWG/kcmil	26-12
Nominal current I <sub>N</sub>	30 A
Nominal voltage U <sub>N</sub>	48 V

EAC
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cULus Recognized	
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## Accessories

### Accessories

#### End cover

End cover - D-UKK 3/5 BK - 2770228



End cover, Length: 56 mm, Width: 2.5 mm, Height: 66.5 mm, 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

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### Accessories

Marker for terminal blocks - ZB 6,LGS:L1-N,PE - 1051414



Marker for terminal blocks, Strip, white, labeled, can be labeled with: Plotter, Horizontal: L1, L2, L3, N, PE, L1, L2, L3, N, PE, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 6.15 x 10.5 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

Marker pen - B-STIFT - 1051993



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

### Partition plate

Spacer plate - DP-UKK 3/5 BK - 2770833



Spacer plate, to compensate for level offsets, Length: 56 mm, Width: 2.5 mm, Height: 25 mm, Color: black

### Terminal marking

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### Accessories

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

### Additional products

End cover - D-UKK 3/5 BK - 2770228



End cover, Length: 56 mm, Width: 2.5 mm, Height: 66.5 mm, Color: black

Spacer plate - DP-UKK 3/5 BK - 2770833



Spacer plate, to compensate for level offsets, Length: 56 mm, Width: 2.5 mm, Height: 25 mm, Color: black

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## Accessories

Shield connection - SSA 3-6 - 2839295



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

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Shield connection - SSA 5-10 - 2839512



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

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## Drawings

Circuit diagram

