

## Surge protection device - TT-SLKK5-S- 24DC - 2809607

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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: 24 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	1
Minimum order quantity	50
Catalog page	Page 112 (TT-2011)
GTIN	 4 017918 101282
Custom tariff number	85363030
Country of origin	GERMANY

### Technical data

#### General

Housing material	PA
Inflammability class according to UL 94	V2
Color	black
Total surge current (8/20) $\mu$ s	169 A
Ambient temperature (operation)	-40 °C ... 85 °C
Mounting type	DIN rail: 35 mm
Design	Single-level terminal block – separate PE connection
Degree of protection	IP20
Direction of action	Line-Earth Ground
Width	6.2 mm
Height	66.5 mm
Depth	69.5 mm

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### Technical data

#### Protective circuit

IEC category	C3
VDE requirement class	C3
Nominal voltage UN	24 V DC
Maximum continuous operating voltage UC	28.2 V DC
Maximum continuous operating voltage UC	20 V AC
Maximum continuous voltage UC (wire-ground)	28.2 V DC
Maximum continuous voltage UC (wire-ground)	20 V AC
Nominal current IN	32 A (50°C)
Operating effective current IC at UC	≤ 5 μA
Ground conductor current IPE	≤ 5 μA
Nominal discharge surge current In (8/20) μs (Core-Earth)	169 A
Total surge current (8/20) μs	169 A
Max. discharge surge current I <sub>max</sub> (8/20) μs maximum (Core-Earth)	169 A
Nominal pulse current I <sub>an</sub> (10/1000) μs (Core-Earth)	33 A
Output voltage limitation at 1 kV/μs (Core-Earth) spike	≤ 42 V
Output voltage limitation at 1 kV/μs (Core-Earth) static	≤ 41 V
Residual voltage at In, (conductor-ground)	≤ 59 V
Response time t <sub>A</sub> (Core-Earth)	≤ 1 ns
Cut-off frequency f <sub>g</sub> (3 dB), asym. (PE) in 150 Ohm system	Typ. 1.5 MHz
Capacity (Core-Earth)	1.35 nF
Message: Surge protection fault	None
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C3 (25 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

#### Connection, protective circuit

Standards/regulations	IEC 61643-21
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## Classifications

### eclass

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

### etim

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	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 / GOST / GOST / cULus Recognized

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#### Ex Approvals

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#### Approvals submitted

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### Approval details

UL Recognized 	
mm <sup>2</sup> /AWG/kcmil	26-10
Nominal current I <sub>N</sub>	30 A
Nominal voltage U <sub>N</sub>	24 V

# Surge protection device - TT-SLKK5-S- 24DC - 2809607

## Approvals

cUL Recognized	
mm <sup>2</sup> /AWG/kcmil	26-12
Nominal current I <sub>N</sub>	30 A
Nominal voltage U <sub>N</sub>	24 V



## Accessories

### Accessories

#### Assembly

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



Spacer plate, Length: 56 mm, Width: 2.5 mm, Height: 25 mm, Color: black

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



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

## Marking

## Surge protection device - TT-SLKK5-S- 24DC - 2809607

### Accessories

Marker pen - B-STIFT - 1051993



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

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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

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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

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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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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

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Zack marker strip - ZB 6,LGS:L1-N,PE - 1051414



Zack marker strip, 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

## Surge protection device - TT-SLKK5-S- 24DC - 2809607

### Accessories

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Zack marker strip - ZB 6,LGS:U-N - 1051430



Zack marker strip, 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

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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

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### 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

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



Spacer plate, Length: 56 mm, Width: 2.5 mm, Height: 25 mm, Color: black

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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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## Surge protection device - TT-SLKK5-S- 24DC - 2809607

### Accessories

Shield connection - SSA 5-10 - 2839512

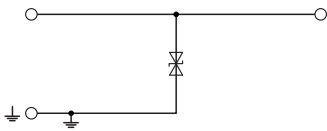


Shield fast connection for conductor diameters 5 - 10 mm. Potential connection cable: 200 mm, black

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### Drawings

Circuit diagram



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