

## Surge protection device - TT-SLKK5-S- 12DC - 2809597

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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: 12 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

### Product Features

- 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 pc
Weight per Piece (excluding packing)	19.4 g
Custom tariff number	85363030
Country of origin	Germany

### Technical data

#### Environmental Product Compliance

#### 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
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### Technical data

#### General

Flammability rating according to UL 94	V2
Color	black
Mounting type	DIN rail: 35 mm
Type	Single-level terminal block – separate PE connection
Direction of action	Line-Earth Ground

#### Protective circuit

IEC test classification	C1
	C3
VDE requirement class	C3
Nominal voltage $U_N$	12 V DC
Maximum continuous voltage $U_C$	13.6 V DC
	9.5 V AC
Maximum continuous voltage $U_C$ (wire-ground)	13.6 V DC
	9.5 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)	346 A
Total surge current (8/20) $\mu\text{s}$	346 A
Max. discharge current $I_{max}$ (8/20) $\mu\text{s}$ maximum (Core-Earth)	346 A
Nominal pulse current $I_{an}$ (10/1000) $\mu\text{s}$ (Core-Earth)	67 A
Output voltage limitation at 1 kV/ $\mu\text{s}$ (Core-Earth) spike	$\leq 24$ V
Output voltage limitation at 1 kV/ $\mu\text{s}$ (Core-Earth) static	$\leq 19$ V
Residual voltage at $I_n$ (conductor-ground)	$\leq 29$ V
Response time $t_A$ (Core-Earth)	$\leq 1$ ns
Cut-off frequency $f_g$ (3 dB), asym. (PE) in 150 Ohm system	typ. 1 MHz
Capacity (Core-Earth)	2.35 nF
Surge protection fault message	None
Impulse durability (conductor-ground)	C1 (500 A/250 A)
	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

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### Technical data

#### Connection data

Stripping length	8 mm
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible 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 min.	24
Conductor cross section AWG max.	12

#### 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
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

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## Approvals

Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

Approvals submitted

## 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>	12 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>	12 V

EAC

cULus Recognized	
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## Drawings

## Surge protection device - TT-SLKK5-S- 12DC - 2809597

Circuit diagram

