

## Surge protection device - TT-SLKK5/ 48AC - 2794961

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

The illustration shows version TT-SLKK5/ 12 DC

### Product Features

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



### Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	21.26 g
Custom tariff number	85363030
Country of origin	Germany

### Technical data

#### Environmental Product Compliance

#### Dimensions

Height	69.5 mm
Width	6.2 mm
Length	66.5 mm

#### Ambient conditions

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

#### General

Housing material	PA
Flammability rating according to UL 94	V2

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## Technical data

### General

Color	black
Mounting type	DIN rail: 35 mm
Type	Single-level terminal block – separate PE connection
Number of positions	1
Direction of action	Line-Earth Ground

### Protective circuit

IEC test classification	C1
	C2
	C3
VDE requirement class	C1
	C2
	C3
Nominal voltage $U_N$	48 V AC
Maximum continuous voltage $U_C$	85 V DC
	60 V AC
Maximum continuous voltage $U_C$ (wire-ground)	85 V DC
	60 V AC
Nominal current $I_N$	32 A (50 °C)
Operating effective current $I_C$ at $U_C$	$\leq 45 \mu\text{A}$
Residual current $I_{PE}$	$\leq 45 \mu\text{A}$
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$ (Core-Earth)	2 kA
Total surge current (8/20) $\mu\text{s}$	6.5 kA
Max. discharge current $I_{max}$ (8/20) $\mu\text{s}$ maximum (Core-Earth)	6.5 kA
Nominal pulse current $I_{an}$ (10/1000) $\mu\text{s}$ (Core-Earth)	75 A
Output voltage limitation at 1 kV/ $\mu\text{s}$ (Core-Earth) spike	$\leq 150 \text{ V}$
Output voltage limitation at 1 kV/ $\mu\text{s}$ (Core-Earth) static	$\leq 150 \text{ V}$
Residual voltage at $I_n$ (conductor-ground)	$\leq 265 \text{ V}$
Response time $t_A$ (Core-Earth)	$\leq 25 \text{ ns}$
Cut-off frequency $f_g$ (3 dB), asym. (PE) in 150 Ohm system	typ. 700 kHz

### 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

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### Connection data

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


CSA / UL Recognized / cUL Recognized / EAC / cULus Recognized


Ex Approvals

Approvals submitted

## Approval details

CSA 	
mm <sup>2</sup> /AWG/kcmil	28-12
Nominal current I <sub>N</sub>	34 A
Nominal voltage U <sub>N</sub>	48 V

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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### Approvals



### Drawings

Circuit diagram

