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

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

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

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 STK
GTIN	4 017918 101299

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
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	C3
VDE requirement class	C3

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Technical data

Protective circuit

Nominal voltage U_N	48 V DC
Maximum continuous 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	≤ 5 µA
Residual current I_{PE}	≤ 5 µA
Nominal discharge current I_n (8/20) µs (Core-Earth)	90 A
Total surge current (8/20) µs	90 A
Max. discharge current I_{max} (8/20) µs maximum (Core-Earth)	90 A
Nominal pulse current Ian (10/1000) µs (Core-Earth)	17.7 A
Output voltage limitation at 1 kV/µs (Core-Earth) spike	≤ 81 V
Output voltage limitation at 1 kV/µs (Core-Earth) static	≤ 79 V
Residual voltage at I_n (conductor-ground)	≤ 111 V
Response time tA (Core-Earth)	≤ 1 ns
Cut-off frequency fg (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 flexible min.	0.2 mm²
Conductor cross section flexible max.	4 mm²
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	4 mm²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12

Standards and Regulations

Standards/regulations	IEC 61643-21

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

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

Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

Approvals submitted

Approval details

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

Approvals

UL Recognized

mm²/AWG/kcmil	26-10
Nominal current IN	30 A
Nominal voltage UN	48 V

cUL Recognized

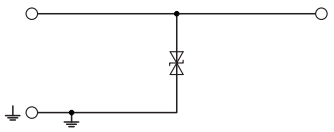
mm²/AWG/kcmil	26-12
Nominal current IN	30 A
Nominal voltage UN	48 V

EAC

cULus Recognized

Drawings

Circuit diagram



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Product	Code	Reference	Product link
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