

Surge protection device - TT-SLKK5/ 48DC - 2794916

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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 DC, mounting on NS 35/7.5, terminal width: 6.2 mm, terminal height: 69 mm

The illustration shows version
TT-SLKK5/ 12 DC

Why buy this product

- ☒ 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
Minimum order quantity	1
Catalog page	Page 112 (TT-2011)
GTIN	 4 017918 072988
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) μ s	6.5 kA
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	69.5 mm
Length	66.5 mm

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Technical data

Protective circuit

IEC category	C1
IEC category	C2
IEC category	C3
VDE requirement class	C1
VDE requirement class	C2
VDE requirement class	C3
Nominal voltage UN	48 V DC
Maximum continuous operating voltage UC	65 V DC
Maximum continuous operating voltage UC	50 V AC
Maximum continuous voltage UC (wire-ground)	65 V DC
Maximum continuous voltage UC (wire-ground)	50 V AC
Nominal current IN	32 A (50°C)
Operating effective current IC at UC	≤ 100 µA
Ground conductor current IPE	≤ 100 µA
Nominal discharge surge current In (8/20) µs (Core-Earth)	2 kA
Total surge current (8/20) µs	6.5 kA
Max. discharge surge current I _{max} (8/20) µs maximum (Core-Earth)	6.5 kA
Nominal pulse current I _{an} (10/1000) µs (Core-Earth)	75 A
Output voltage limitation at 1 kV/µs (Core-Earth) spike	≤ 150 V
Output voltage limitation at 1 kV/µs (Core-Earth) static	≤ 125 V
Residual voltage at In, (conductor-ground)	≤ 240 V
Response time tA (Core-Earth)	≤ 25 ns
Cut-off frequency fg (3 dB, asym. (PE) in 150 Ohm system	Typ. 600 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
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	4 mm ²
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	4 mm ²
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

Approvals

CSA / UL Recognized / cUL Recognized / GOST / GOST / cULus Recognized

Ex Approvals

Approvals submitted

Approval details

CSA 	
mm²/AWG/kcmil	28-12
Nominal current IN	34 A
Nominal voltage UN	48 V

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Approvals

UL Recognized 	
mm²/AWG/kcmil	26-10
Nominal current I _N	30 A
Nominal voltage U _N	48 V

cUL Recognized 	
mm²/AWG/kcmil	26-12
Nominal current I _N	30 A
Nominal voltage U _N	48 V

GOST 	
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GOST 	
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cULus Recognized 	
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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

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Accessories

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



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

Marking

Marker pen - B-STIFT - 1051993



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

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, 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

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

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

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

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

Shield connection - SSA 3-6 - 2839295



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

Shield connection - SSA 5-10 - 2839512



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

Drawings

Circuit diagram

