


**TT-STTB-PE-12**

Order No.: 2858179

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2858179>

Spring-cage terminal block with PE foot and suppressor diode as fine surge protection, nominal voltage: 12 V DC, for mounting on NS 35/7.5

Commercial data	
GTIN (EAN)	 4 017918 877880
Note	Made-to-order
sales group	J300
Pack	25 pcs.
Customs tariff	85363010
Catalog page information	Page 105 (TT-2009)

## Product notes

WEEE/RoHS-compliant since:  
05/10/2006

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Technical data	
<b>General</b>	
Housing material	PA 6.6
Inflammability class acc. to UL 94	V0
Color	black

Standards for air and creepage distances	IEC 60664-1: 1992-10
	VDE 0110-1
Total surge current (8/20) $\mu$ s	245 A
Ambient temperature (operation)	-40 °C ... 85 °C
Mounting type	DIN rail: 35 mm
Design	Double-level terminal block with PE foot
Degree of protection	IP20
Direction of action	Line-Earth Ground
Width	6.20 mm
Height	47.50 mm
Length	83.50 mm

**Protective circuit**

IEC category	C3
VDE requirement class	C3
Nominal voltage $U_N$	12 V DC
Maximum continuous operating voltage $U_c$	18 V DC
	13 V AC
Maximum continuous voltage $U_c$ (wire-ground)	18 V DC
	13 V AC
Nominal current $I_N$	32 A ( $\leq 60^\circ\text{C}$ )
Operating effective current $I_c$ at $U_c$	$\leq 5 \mu\text{A}$
Ground conductor current $I_{PE}$	$\leq 5 \mu\text{A}$
Nominal discharge surge current $I_n$ (8/20) $\mu$ s (Core-Earth)	245 A
Total surge current (8/20) $\mu$ s	245 A
Max. discharge surge current $I_{max}$ (8/20) $\mu$ s maximum (Core-Core)	245 A
Max. discharge surge current $I_{max}$ (8/20) $\mu$ s maximum (Core-Earth)	245 A
Nominal pulse current $I_{an}$ (10/1000) $\mu$ s (Core-Core)	49 A
Nominal pulse current $I_{an}$ (10/1000) $\mu$ s (Core-Earth)	49 A
Output voltage limitation at 1 kV/ $\mu$ s (Core-Earth) static	$\leq 30$ V
Residual voltage at $I_n$ , (conductor-conductor)	$\leq 40$ V
Residual voltage at $I_n$ , (conductor-ground)	$\leq 40$ V

Residual voltage with I <sub>an</sub> (10/1000)μs (conductor-conductor)	≤ 30 V
Residual voltage with I <sub>an</sub> (10/1000)μs (conductor-ground)	≤ 30 V
Protection level U <sub>p</sub> (Core-Core)	28 V (C3 (25 A))
Response time t <sub>A</sub> (Core-Earth)	≤ 1 ns
Input attenuation a <sub>E</sub> , asym.	Typ. 0.1 dB (≤ 200 kHz/150 Ω)
Cut-off frequency f <sub>g</sub> (3 dB), asym. (PE) in 150 Ohm system	Typ. 1.5 MHz
Capacity (Core-Earth)	2.5 nF (With 1 MHz)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	C3 (25 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C3 (25 A)

**Connection data**

Connection method	Spring-cage connection
Connection type IN	Spring-cage
Connection type OUT	Spring-cage
Conductor cross section stranded min.	0.5 mm <sup>2</sup>
Conductor cross section stranded max.	4 mm <sup>2</sup>
Conductor cross section solid min.	0.5 mm <sup>2</sup>
Conductor cross section solid max.	6 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	20
Conductor cross section AWG/kcmil max	10

**Connection, protective circuit**

Standards/regulations	IEC 61643-21
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**Certificates / Approvals**



Certification

GOST

**Accessories**

Item	Designation	Description
<b>Assembly</b>		
3030747	ATP-STTB 4	Partition plate, Length: 88.7 mm, Width: 2 mm, Height: 53 mm, Color: gray

**General**

2858496	TT-D-STTB BK	End cover for TERMITRAB TT-STTB-..., width: 2.2 mm, color: Black
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**Marking**

1051993	B-STIFT	Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm
1051016	ZB 6,LGS:FORTL.ZAHLEN	Zack marker strip, 10-section, printed horizontally: with the numbers 1 - 10, 11 - 20 and so on up to 491 - 500, color: white
1051414	ZB 6,LGS:L1-N,PE	Zack strip, printed horizontally, strips with 10 labels, L1, L2, L3, N, PE, L1, L2, L3, N, PE, color: white
1051430	ZB 6,LGS:U-N	Zack strip, printed horizontally: 10-section, U, V, W, N, GND, U, V, W, N, GND, color: white
1050499	ZB 6:SO/CMS	Zack strip, 10-section, divisible, special printing, marking according to customer requirements
1051003	ZB 6:UNBEDRUCKT	Zack strip, unprinted, strips with 10 labels for individual labeling with M-PEN or CMS system, for terminal block width: 6.2 mm, color: white
0808749	ZBF 6,LGS:FORTL.ZAHLEN	Zack marker strip, flat, printed horizontally: 10-section, with the numbers 1 - 10, 11 - 20, and so on up to 91 - 100, color: white
0808736	ZBF 6/WH-100:UNBEDRUCKT	Zack strip, flat, unprinted: 10-section, for individual labeling with M-PEN or ZBF-T, large batch, sufficient for labeling 1000 terminal blocks, color: white
0808710	ZBF 6:UNBEDRUCKT	Zack strip, flat, unprinted: 10-section, for individual labeling with M-PEN or ZBF-T, sufficient for 100 terminal blocks, color: white

**Additional products**

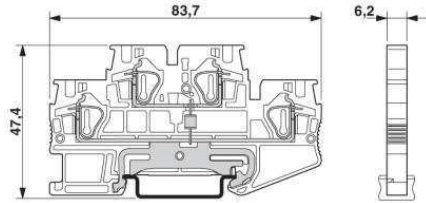
Item	Designation	Description
<b>Assembly</b>		
3030747	ATP-STTB 4	Partition plate, Length: 88.7 mm, Width: 2 mm, Height: 53 mm, Color: gray
2839295	SSA 3-6	shield fast connections for conductor diameter 3 - 6 mm. Potential connection cable: 200 mm, black
2839512	SSA 5-10	Shield fast connection for conductor diameters 5 - 10 mm. Potential connection cable: 200 mm, black

**General**

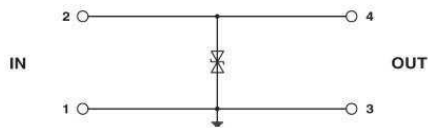
2858496	TT-D-STTB BK	End cover for TERMITRAB TT-STTB-..., width: 2.2 mm, color: Black
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**Diagrams/Drawings**

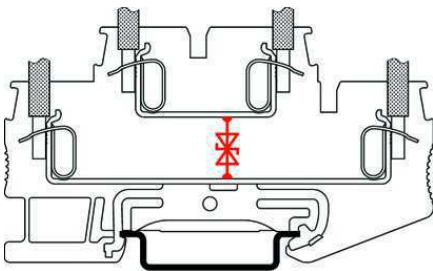
Dimensioned drawing



Circuit diagram



Schematic diagram



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