Surge protection device - TAE-TRAB FM-NFN-AP - 2749628

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TAE outlet box (NFN) for surface mounting with surge protection for analog and digital telecommunications interfaces (VDSL up to 50 Mbps, on short paths (< 300 m) up to 100 Mbps)

Your advantages

- For surface mounting
- Three TAE6 slots
- Suitable for DSL (ADSL2+)
- Main areas of application: phone terminals, answering machines, modems, and fax machines
- For two N-coded and one F-coded termination device

Key Commercial Data

Packing unit	1 pc
GTIN	4 017918 108199
GTIN	4017918108199

Technical data

Dimensions

Height	27 mm
Width	65 mm
Depth	80 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 80 °C
Degree of protection	IP20

General

Housing material	ABS
Color	cream white
Standards for cearances and creepage distances	VDE 0110-1
	IEC 60664-1

Surge protection device - TAE-TRAB FM-NFN-AP - 2749628

Technical data

General

For country-specific use in	D
Mounting type	Surface/Wall mounting
Type	Socket for surface mounting
Direction of action	Line-Line & Line-Earth Ground

Protective circuit

IEC test classification	B2
	C1
	C2
	C3
	D1
VDE requirement class	B2
	C1
	C2
	C3
	D1
Nominal voltage U_N	60 V DC
Maximum continuous voltage U_C	185 V DC
Rated current	450 mA (≤ 40°C)
Operating effective current I_C at U_C	≤ 10 µA
Residual current I_{PE}	≤ 6 µA
Nominal discharge current I_n (8/20) µs (line-line)	5 kA
Nominal discharge current I_n (8/20) µs (line-earth)	5 kA
Total discharge current I_{total} (8/20) µs	10 kA
Total discharge current I_{total} (10/350) µs	5 kA
Max. discharge current I_{max} (8/20) µs maximum (line-line)	5 kA
Max. discharge current I_{max} (8/20) µs maximum (line-earth)	5 kA
Nominal pulse current Ian (10/1000) µs (line-line)	100 A
Nominal pulse current Ian (10/1000) µs (line-earth)	100 A
Nominal pulse current Ian (10/700) µs (line-line)	150 A
Nominal pulse current Ian (10/700) µs (line-earth)	150 A
Output voltage limitation at 1 kV/µs (line-line) spike	≤ 250 V
Output voltage limitation at 1 kV/µs (line-earth) spike	≤ 450 V
Output voltage limitation at 1 kV/µs (line-line) static	≤ 250 V
Output voltage limitation at 1 kV/µs (line-earth) static	≤ 450 V
Voltage protection level U_p (line-line)	≤ 250 V (C2 - 10 kV / 5 kA)
	≤ 250 V (C1 - 1 kV/500 A)
	≤ 250 V (B2 - 4 kV / 100 A)
Voltage protection level U_p (line-earth)	≤ 500 V (C2 - 10 kV / 5 kA)
	≤ 450 V (C1 - 1 kV/500 A)
	≤ 400 V (B2 - 4 kV / 100 A)

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Protective circuit

Response time t_A (line-line)	≤ 1 ns
Response time t_A (line-earth)	≤ 100 ns
Input attenuation aE, sym.	0.3 dB (≤ 1 MHz / 150 Ω)
	0.3 dB (≤ 400 kHz / 600 Ω)
Input attenuation aE, asym.	0.3 dB (≤ 400 kHz / 600 Ω)
Cut-off frequency fg (3 dB), sym. in 150 Ohm system	typ. 8 MHz
Cut-off frequency fg (3 dB), sym. in 600 Ohm system	typ. 2 MHz
Capacity (line-line)	typ. 200 pF (f = 1 MHz / VR = 0 V)
Capacity (line-earth)	typ. 15 pF (f = 1 MHz / VR = 0 V)
Resistance per path	2.2 Ω 10 %
Short-circuit current self-quenching	150 mA
Surge protection fault message	none
Impulse durability (line-line)	C2 - 10 kV / 5 kA
	C1 - 1 kV / 500 A
	B2 - 4 kV / 100 A
Impulse durability (line-earth)	C2 - 10 kV / 5 kA
	C1 - 1 kV / 500 A
	B2 - 4 kV / 100 A
	D1 - 2.5 kA
Alternating current carrying capacity (line-earth)	5 A - 1 s

Connection data

Connection method	Screw connection & TAE 6
Connection method IN	Screw terminal blocks
Connection method OUT	3x TAE-NFN
Connection technology	Screw connection
Screw thread	M3
Tightening torque	0.5 Nm
Stripping length	6 mm
Conductor cross section flexible	0.14 mm² ... 1.5 mm²
Conductor cross section solid	0.14 mm² ... 1.5 mm²
Conductor cross section AWG	26 ... 16

Connection, equipotential bonding

Connection method	Screw terminal block
Stripping length	6 mm
Tightening torque, min	0.5 Nm
Conductor cross section flexible min.	0.14 mm²
Conductor cross section flexible max.	1.5 mm²
Conductor cross section solid min.	0.14 mm²
Conductor cross section solid max.	1.5 mm²
Conductor cross section AWG min.	26

Surge protection device - TAE-TRAB FM-NFN-AP - 2749628

Technical data

Connection, equipotential bonding

Conductor cross section AWG max.	16

Standards and Regulations

Standards/regulations	IEC 61643-21
Standards/specifications	DIN EN 61643-21 2002
	IEC 61643-21 2000

Environmental Product Compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab “Downloads”, Category “Manufacturer's declaration”

Drawings

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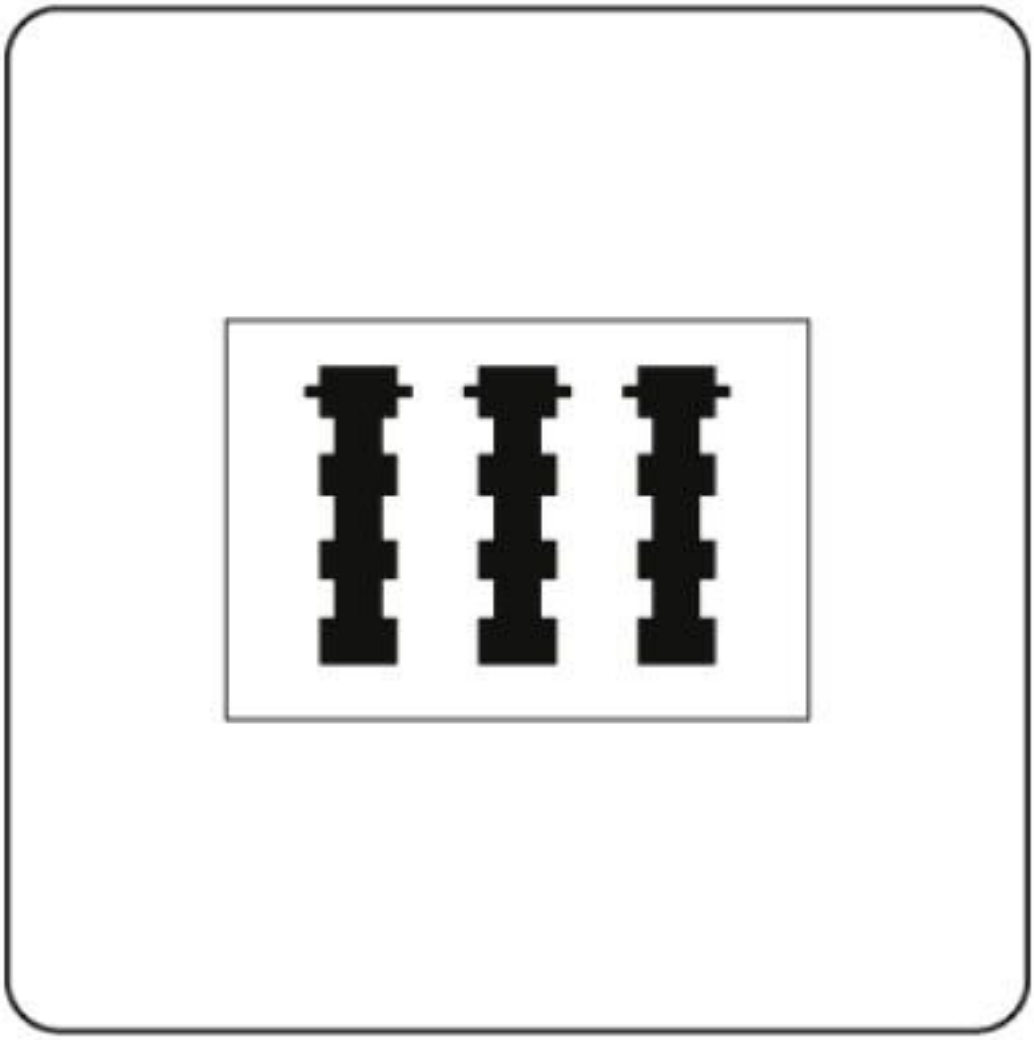
Product drawing



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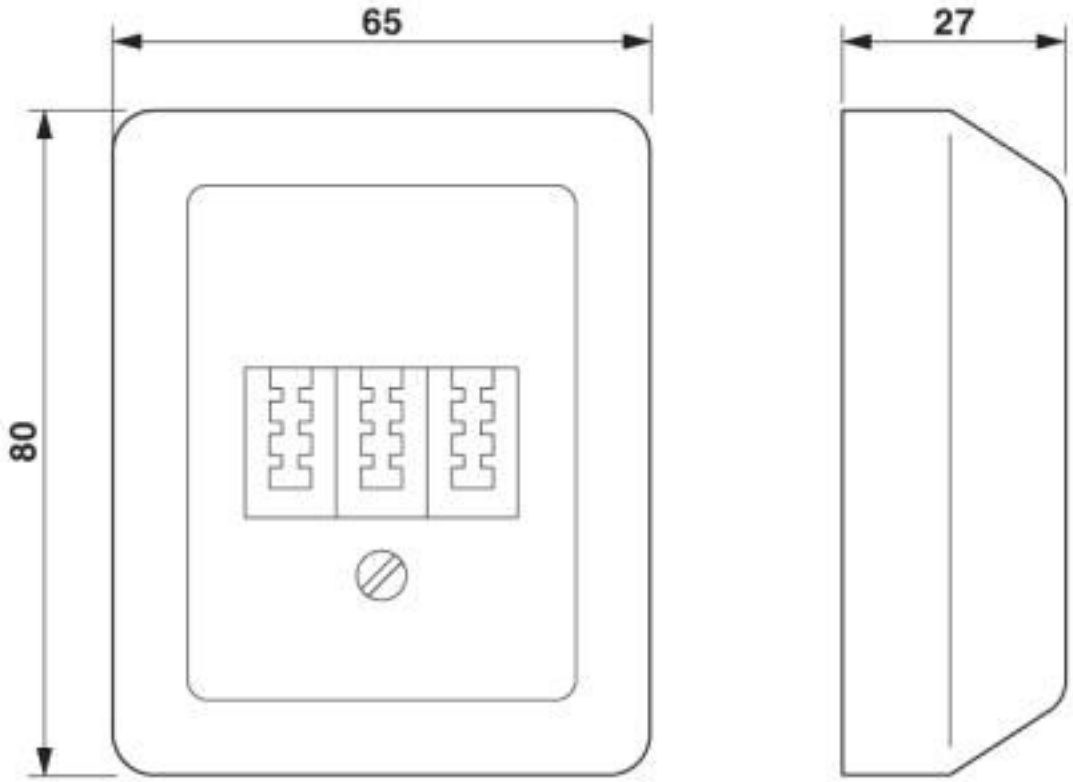
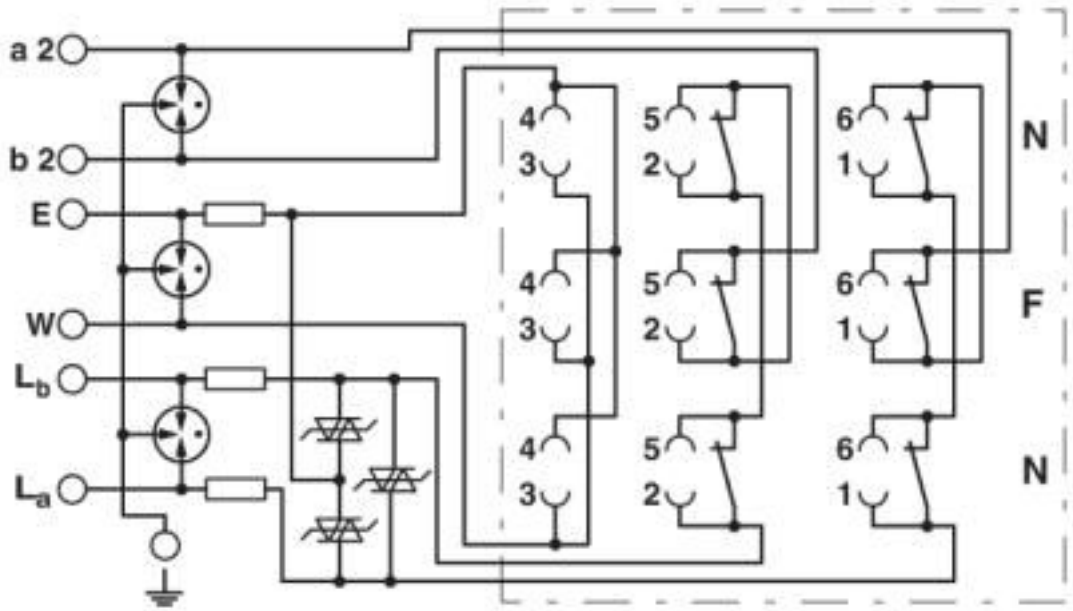
Dimensional drawing



Circuit diagram



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Classifications

eCl@ss

eCl@ss 10.0.1	27130807
eCl@ss 4.0	27130800
eCl@ss 4.1	27130800
eCl@ss 5.0	27130800
eCl@ss 5.1	27130800
eCl@ss 6.0	27130800
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
ETIM 6.0	EC000943
ETIM 7.0	EC000943

UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620
UNSPSC 18.0	39121620
UNSPSC 19.0	39121620
UNSPSC 20.0	39121620
UNSPSC 21.0	39121620

Approvals

Approvals

Approvals

EAC

Ex Approvals

Approval details

Surge protection device - TAE-TRAB FM-NFN-AP - 2749628

Approvals

EAC	EAC	RU C-DE.*09.B.00169

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