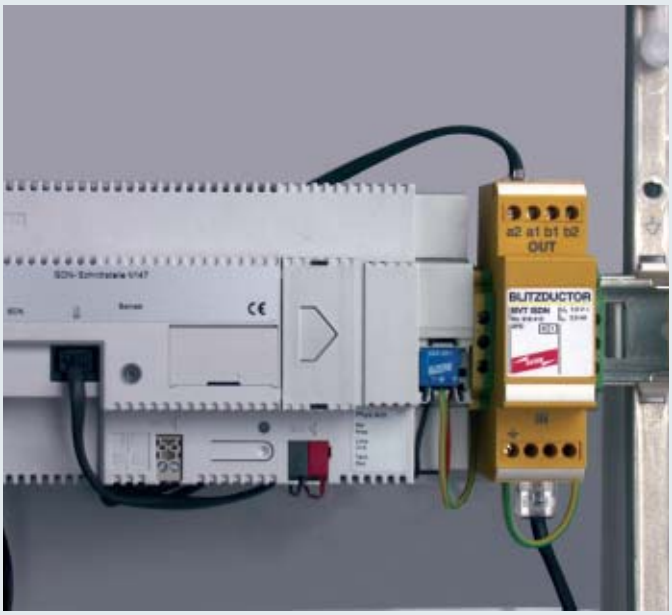
BLITZDUCTOR® VT
Surge Arrester



Surge arrester for terminal telecommunication equipment and telephone systems with RJ plug-in connection for DIN rail mounting.

- **Ideal for DIN rail mountable modems or gateways**
- **Easy installation thanks to RJ sockets**
- **Adaptable to the environment of the installation thanks to additional screw terminals**

Surge arrester as DIN rail mountable device for terminal telecommunication equipment and telephone systems with RJ plug-in connection for DIN rail mounting. They are often used in installations upstream of residential gateways (TK/EiB interface) or for protection of industrial modems for DIN rail mounting.

RJ sockets and screw terminals at the input and output of BVT TC 1 allow an especially universal use. For example for installation upstream of NTBA's with screw wiring or screw/plug-in connection upstream of modems and telecommunication systems.

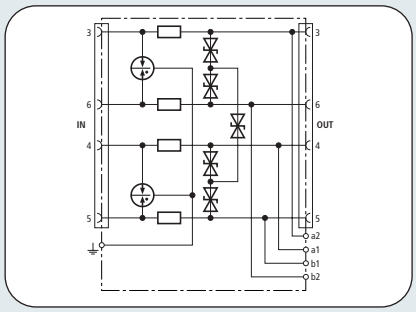
BLITZDUCTOR® VT TC1

The SPD for DIN rail mounting was developed for installation-friendly protection of the S_0 input of residential gateways. The integrated distribution function at the protected output allows the wiring of two protected outgoing ISDN bus circuits.

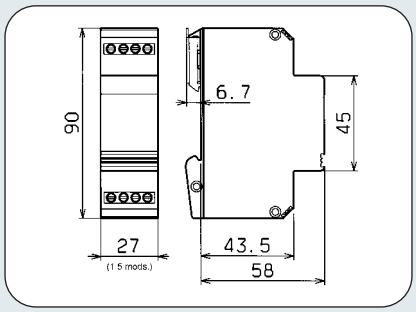
BLITZDUCTOR® VT ISDN

BVT ISDN

- RJ45 sockets
- Additional screw terminals for the ISDN lines
- For use according to the lightning protection zones concept at boundaries 0_B – 2 and higher



Energy-coordinated ISDN 4-wire protective circuit with additional protection of the remote power supply.



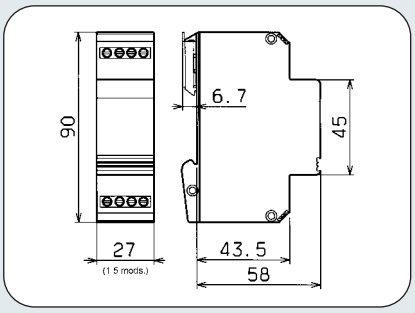
Dimension drawing BVT ISDN

For ISDN S_0 buses with RJ45 connections. The additional screw terminal connection at the protected output allows a double wiring of the S_0 bus (distribution function).

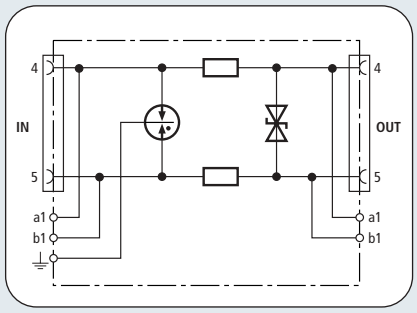
	BVT ISDN
Nominal voltage U_N	5 V
Nominal voltage pa-pa U_N	40 V
Max. continuous dc voltage U_C	7.5 V
Max. continuous dc voltage pa-pa U_C	60 V
Nominal current I_L	200 mA
C2 Total nominal discharge current (8/20) I_n	10 kA
C2 Nominal discharge current (8/20) per line I_n	2.5 kA
Voltage protection level line-line at I_n C2 U_p	≤ 30 V
Voltage protection level line-PG at I_n C2 U_p	≤ 600 V
Voltage protection level pa-pa at I_n C2 U_p	≤ 130 V
Voltage protection level line-line at 1 kV/µs C3 U_p	≤ 17 V
Voltage protection level line-PG at 1 kV/µs C3 U_p	≤ 600 V
Voltage protection level pa-pa at 1 kV/µs C3 U_p	≤ 100 V
Coordination characteristics KK	X/1
Series impedance per line	1.0 Ohm
Bandwidth line-line f_G	1.7 MHz
Capacity line-line C	≤ 3.3 nF
Capacity line-PG C	≤ 15 pF
Capacity pa-pa C	≤ 600 pF
Response time line-line t_a	≤ 1 ns
Response time line-PG t_a	≤ 100 ns
Response time pa-pa t_a	≤ 1 ns
Operating temperature range	-40°C...+80°C
Degree of protection	IP 10
Mounting on	35 mm DIN rail acc. to EN 60715
Connection input/output	RJ45/RJ45 or terminals
Pinning	3/6, 4/5
Cross-sectional area, solid	0.08 - 2.5 mm²
Cross-sectional area, flexible	0.08 - 2.5 mm²
Earthing via	terminal
Enclosure material	thermoplastic, UL 94- V-0
Colour	yellow
Test standards	IEC 61643-21

Ordering information	
Type	BVT ISDN
Part No.	918 410
Packing unit	1 pc(s)

BLITZDUCTOR® VT
BVT TC



Dimension drawing BVT TC



Energy-coordinated protective circuit, free of leakage currents to earth.

- **RJ sockets, compatible with RJ12 pins**
- **Additional screw terminals for the a/b lines**
- **For use according to the lightning protection zones concept at boundaries 0_B – 2 and higher**

For a/b lines, ISDN U_{k0} or ADSL with RJ45 connections and additional screw terminal connections. The pinning of the RJ45 sockets is compatible with RJ11/12. The parallel screw terminals are more robust than the RJ45 sockets and increase I_n to 10 kA.

	BVT TC 1
Nominal voltage U_N	130 V
Max. continuous dc voltage U_C	170 V
Nominal current I_L	200 mA
C2 Total nominal discharge current (8/20) I_n	5 kA
C2 Nominal discharge current (8/20) per line I_n	2.5 kA
Voltage protection level line-line at I_n C2 U_p	≤ 275 V
Voltage protection level line-PG at I_n C2 U_p	≤ 600 V
Voltage protection level line-line at 1 kV/µs C3 U_p	≤ 240 V
Voltage protection level line-PG at 1 kV/µs C3 U_p	≤ 600 V
Coordination characteristics KK	X/2
Series impedance per line	4.7 Ohm
Bandwidth line-line f_G	17 MHz
Capacity line-line C	≤ 300 pF
Capacity line-PG C	≤ 15 pF
Response time line-line t_a	≤ 1 ns
Response time line-PG t_a	≤ 100 ns
Operating temperature range	-40°C...+80°C
Degree of protection	IP 10
Mounting on	35 mm DIN rail acc. to EN 60715
Connection input/output	RJ45 or terminals / RJ45 or terminals
Pinning	4/5
Cross-sectional area, solid	0.08 - 2.5 mm²
Cross-sectional area, flexible	0.08 - 2.5 mm²
Earthing via	screw terminal
Enclosure material	thermoplastic, UL 94 V-0
Colour	yellow
Test standards	IEC 61643-21

Ordering information	
Type	BVT TC 1
Part No.	918 411
Packing unit	1 pc(s)

wieland

Electrical
Connections

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e-mail: sales@wielandinc.com

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Fax: (905) 829-8413
e-mail: oakville@wielandinc.com

On the Internet:
www.wielandelectric.ca

Toll Free 1-800-wieland

Product Range

DIN rail terminal blocks
- with screw connection
- with spring connection
- with IDC connection

Terminal blocks for electrical installations
- with screw connection
- with spring connection

Lighting and appliance terminals
Terminal strips

PC board connectors
- modular/pluggable
- insulated headers
- rising cage clamp/ plug connectors
- TOP connection
- Spring connection
- electronics housings

Electronics components
- relay modules
- solid-state modules
- interface modules
- function modules
- Power Supplies

Fieldbus components
- motor starter
- power bus
- distributed I/Os

Systems for electrical installation
- Mains connectors
- Bus connectors
- Compact connectors
- Low voltage connectors
- Flat cable systems
- Distribution systems
- EIB switching devices

Multipole connectors
Multipole adapter
EExi
Data cablefeed-through
Connectors with mixed contacts