

Pluggable, universal two-pole lightning current/surge arrester for IT systems. German Patent.
 Arrester module and base part have to be ordered separately.

- Optimised discharge capacity for max. availability
- Max. safety due to extremely low protection levels
- Easy installation and maintenance
- For universal use because of base part and different arrester modules

BLITZDUCTOR® CT is a pluggable, universal two-pole lightning current/surge arrester in a modular terminal block system for max. requirements on the availability of measuring and control circuits, bus systems, alarm systems and telecommunication systems. The coordinated arresters of the Yellow/Line family can be used as

- lightning current arresters
- combined (i.e. lightning current/surge) arresters
- surge arresters

They provide a permanently high impulse current discharge capacity (min. 10x test impulse) and protect the terminal equipment with extremely low protection levels that are supported by the low-impedance structure of the device. The protective circuit is integrated in the arrester module only and not in the base part. This allows to disconnect and remove all relevant components of the cable run for testing. Corresponding arrester test units can also be provided.

A wide range of accessories makes the use of BLITZDUCTOR® CT very comfortable. Components for easy marking, for earthing shields or reserved cables or for easy testing of the cables complete the arrester programme.



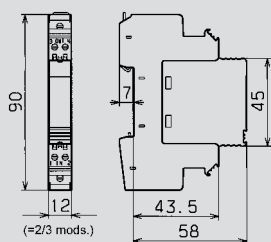
BLITZDUCTOR® CT

BLITZDUCTOR® CT mounted completely. Two-part construction with universal base part and application-specific arrester module in space-saving design for DIN rail mounting.



Base part

Universal base part for all arrester modules. Optimises storage, allows prewiring and facilitates service. No signal interruption when exchanging the modules thanks to capacitive and inductive contacts in the base part.



Dimension drawing

Dimension drawing of BLITZDUCTOR® CT base part with plugged-in arrester module. Width: 2/3 mods., suitable for modular distribution boards.



3 performance categories

BCT MOD B 110:

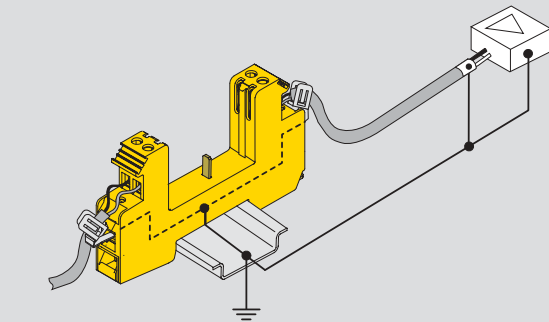
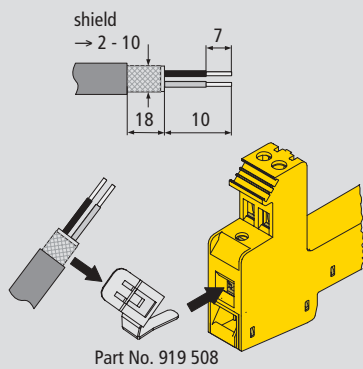
Lightning current arrester module for high partial lightning currents, mostly in combination with BCT MOD M... as protection for terminal systems

BCT MOD B ...:

Combined arrester module (i.e. lightning current/surge arrester module) for high partial lightning currents and surges with low limiting protection for terminal systems

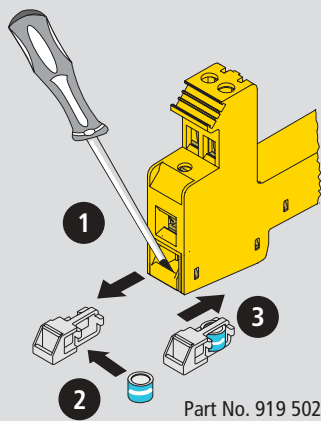
BCT MOD M ...:

Surge arrester module with low limiting protection for terminal systems



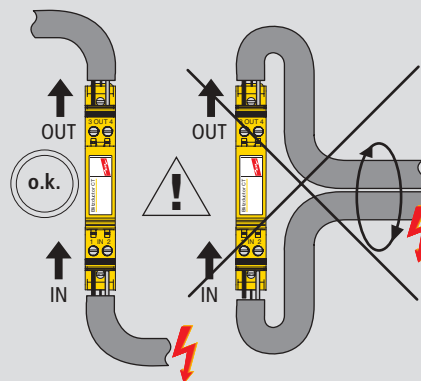
The shield terminals integrated in the base part are connected directly to the DIN rail. Especially for bus systems an EMC spring terminal should be used for an extensive connection of cable shields.

Shield connection



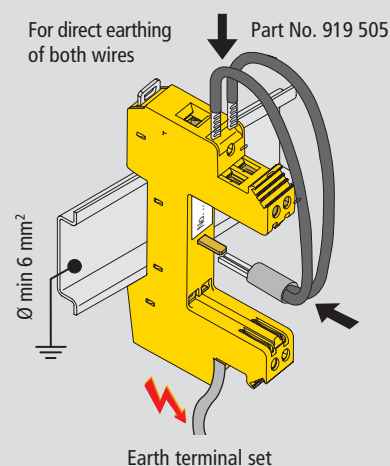
If both sides of the cable shield cannot be earthed directly for technical reasons, unilateral indirect shield earthing could be advantageous. Furnishing the insert of the base part with gas discharge tube GDT 90 prevents upcoming compensating currents. Transient impulse currents on the shield, however, are discharged via the indirect shield earthing.

Indirect shield earthing



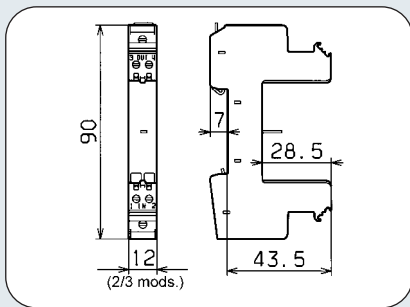
The unprotected cables have always to be assigned the base part terminals 1 and 2 (IN). In order not to reduce the protective effect, protected and unprotected cables have to be laid separately.

Note on wiring

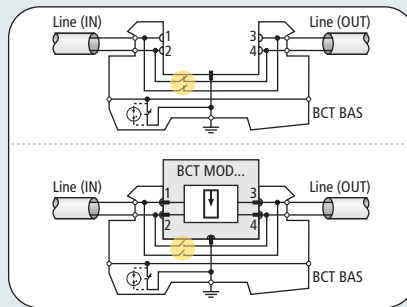


In case of a stranded cable, reserved wires should be contacted and earthed. If the reserved wires are connected with the base parts, earth terminal sets (Part No. 919 505) should be used. This reserves the space for a retrofitted arrester module and the cables can be easily integrated in the equipotential bonding.

Earth terminal set



Dimension drawing BCT BAS



Basic circuit diagram with and without plugged-in module



Base part for use as universal feed-through terminal for supporting the arrester module without signal interruption. The arrester module is safely earthed via the supporting foot of the DIN rail by means of a snap-on device. Allows direct or indirect shield earthing

- Universal unit for all types of arrester modules
- Plug-in and removal without signal interruption
- Patent insert for indirect shield earthing

| BCT BAS | |
|----------------------------------|--------------------------------------|
| Max. continuous dc voltage U_c | 350 V |
| Max. continuous ac voltage U_c | 250 V |
| Nominal current I_n | 10 A |
| Operating temperature range | -40°C...+80°C |
| Degree of protection | IP 20 |
| Mounting on | 35 mm DIN rail according to EN 60715 |
| Connection input / output | screw/screw |
| Cross-sectional area, solid | 0.08 - 4 mm ² (shield) |
| Cross-sectional area, flexible | 0.08 - 2.5 mm ² |
| Tightening torque (terminals) | 0.5 Nm / 0.8 Nm (shield) |
| Earthing via | 35 mm DIN rail acc. to EN 60715 |
| Enclosure material | polyamide PA 6.6 |
| Colour | yellow |
| Approvals, Certifications | CSA |
| Ordering information | |
| Type | BCT BAS |
| Part No. | 919 506 |
| Packing unit | 1 pc(s) |

Accessory Part for BLITZDUCTOR® CT Base Part

Test/Disconnection Plug

Plugged in once, the module interrupts the run of the connected cables and leads them to 5 test sockets to the front side of the test/disconnection plug. This allows to carry out measurements in the installation without removing the lines from the base part



| Type | BCT MOD PTS | |
|-------------|---|----------|
| Design | like arrester module | |
| Accessories | 2 measuring circuits, 1 m long (plug Ø1 mm, socket Ø4 mm) | |
| Type | PU pc(s) | Part No. |
| BCT MOD PTS | 1 | 919 504 |

Gas Discharge Tube

Gas discharge tube with lightning current carrying capability for inserting into the base part and establishing an indirect shield earthing. The SPD can be retrofitted or exchanged any time and is mostly used at risks of leakage pickups



| Type | GDT 90 | |
|---|------------|----------|
| D1 Lightning impulse current carrying capability (10/350) | 5 kA | |
| Design | h 8 x 6 mm | |
| Type | PU pc(s) | Part No. |
| GDT 90 | 1 | 919 502 |

Accessory Part for BLITZDUCTOR® CT Base Part

Earth Terminal Set

The earth terminal set consists of a prewired flexible cable with a plug and two connector sleeves. Its function is direct earthing of cable wires not been used before but already connected with the base part



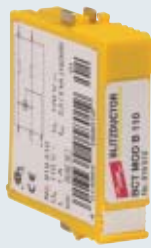
| Type | EKS BCT | |
|---------|---------------------|----------|
| Design | approx. 125 mm long | |
| Type | PU pc(s) | Part No. |
| EKS BCT | 1 | 919 505 |

EMC Spring Terminal

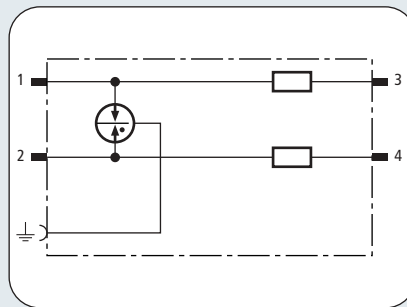
EMC spring terminal, tested with lightning currents, for screwing into the shield terminals in the base part. Provides a permanent shield contact especially for bus cables at min. installation work



| Type | EFK BCT | |
|---|-----------|----------|
| D1 Lightning impulse current carrying capability (10/350) | 5 kA | |
| Clamping range | 2 - 10 mm | |
| Type | PU pc(s) | Part No. |
| EFK BCT | 10 | 919 508 |

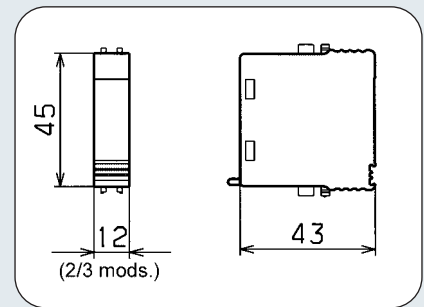


- For nearly all kinds of applications
- Integrated decoupling elements to downstream arresters
- For use according to the lightning protection zones concept at boundaries 0_A – 1 and higher



The integrated decoupling allows an energy-coordinated use to downstream surge arresters without considering the cable length.

Lightning current arrester module for nearly all kinds of applications. Generally in connection with downstream BCT MOD M ... surge arresters.



Dimension drawing BCT MOD B

BCT MOD B 110

| | |
|--|--------------------------|
| Nominal voltage U_N | 110 V |
| Max. continuous dc voltage U_c | 170 V |
| Max. continuous ac voltage U_c | 130 V |
| Nominal current I_L | 1 A |
| D1 Total impulse current (10/350) I_{imp} | 5 kA |
| D1 Lightning impulse current (10/350) per line I_{imp} | 2.5 kA |
| C2 Total nominal discharge current (8/20) I_n | 20 kA |
| C2 Nominal discharge current (8/20) per line I_n | 20 kA |
| Voltage protection level at 1 kV/ μ s C3 U_p | ≤ 700 V |
| Voltage protection level line-PG at 1 kV/ μ s C3 U_p | ≤ 600 V |
| Coordination characteristics KK | XX/X |
| Series impedance per line | 0.4 Ohm |
| Bandwidth line-line f_G | 140 MHz |
| Bandwidth Ad-PG f_G | 130 MHz |
| Capacitance line-line C | ≤ 6 pF |
| Capacitance line-PG C | ≤ 8 pF |
| Response time line-line t_a | ≤ 100 ns |
| Response time line-PG t_a | ≤ 100 ns |
| Operating temperature range | -40°C...+80°C |
| Degree of protection (plugged) | IP 20 |
| Pluggable into | base part |
| Earthing via | base part |
| Enclosure material | polyamide PA 6.6 |
| Colour | yellow |
| Test standards | VDE 0845-2, IEC 61643-21 |
| Approvals, Certifications | CSA |

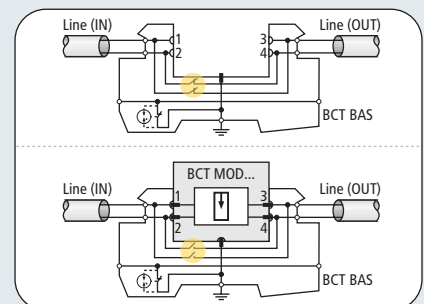
| | |
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| Ordering information | |
| Type | BCT MOD B 110 |
| Part No. | 919 510 |
| Packing unit | 1 pc(s) |



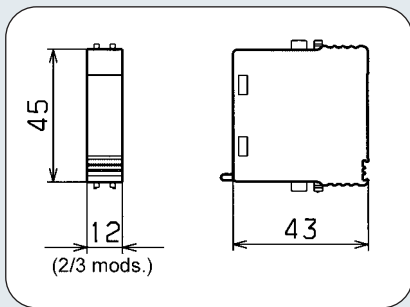
BCT BAS

Base part for use as universal feed-through terminal for supporting the arrester module without signal interruption. The arrester module is safely earthed via the supporting foot of the DIN rail by means of a snap-on device. Allows direct or indirect shield earthing

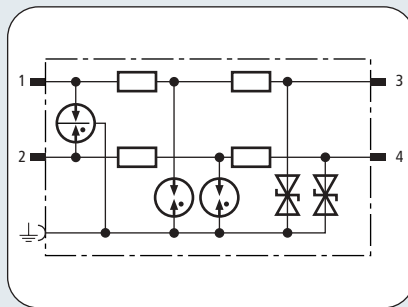
| | | | |
|--------------------------------|-----------------------------------|-----------------|--|
| Type | BCT BAS | | |
| Cross-sectional area, solid | 0.08 - 4 mm ² (shield) | | |
| Cross-sectional area, flexible | 0.08 - 2.5 mm ² | | |
| Enclosure material | polyamide PA 6.6 | | |
| Type | PU pc(s) | Part No. | |
| BCT BAS | 1 | 919 506 | |



Basic circuit diagram with and without plugged-in module



Dimension drawing BCT MOD BE 5 – BE 60



2 upstream protective stages of the gas discharge tube minimise the decoupling impedance to the diodes

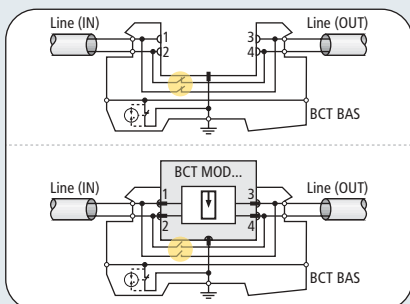


- Optimal protection
- Minimal series impedance
- For use according to the lightning protection zones concept at boundaries $O_A - 2$ and higher

Combined lightning current and surge arrester module for protection of 2 single wires with common reference potential as well as unbalanced interfaces.

| BCT MOD ... | BE 5 | BE 12 | BE 15 | BE 24 | BE 30 | BE 48 | BE 60 |
|--|--------------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Nominal voltage U_N | 5 V | 12 V | 15 V | 24 V | 30 V | 48 V | 60 V |
| Max. continuous dc voltage U_c | 6.0 V | 14.5 V | 17.8 V | 26.8 V | 34.8 V | 55.1 V | 65 V |
| Max. continuous ac voltage U_c | 4.2 V | 10.2 V | 12.5 V | 18.9 V | 24.5 V | 38.9 V | 50 V |
| Nominal current I_L | 1 A | 1 A | 1 A | 1 A | 1 A | 1 A | 1 A |
| D1 Total impulse current (10/350) I_{imp} | 5 kA | 5 kA | 5 kA | 5 kA | 5 kA | 5 kA | 5 kA |
| D1 Lightning imp. current (10/350) per line I_{imp} | 2.5 kA | 2.5 kA | 2.5 kA | 2.5 kA | 2.5 kA | 2.5 kA | 2.5 kA |
| C2 Total nominal discharge current (8/20) I_n | 20 kA | 20 kA | 20 kA | 20 kA | 20 kA | 20 kA | 20 kA |
| C2 Nom. discharge current (8/20) per line I_n | 20 kA | 20 kA | 20 kA | 20 kA | 20 kA | 20 kA | 20 kA |
| Voltage prot. level line-line at I_{imp} D1 U_p | ≤ 30 V | ≤ 60 V | ≤ 70 V | ≤ 90 V | ≤ 110 V | ≤ 150 V | ≤ 200 V |
| Voltage prot. level line-PG at I_{imp} D1 U_p | ≤ 17 V | ≤ 30 V | ≤ 35 V | ≤ 45 V | ≤ 55 V | ≤ 75 V | ≤ 100 V |
| Voltage prot. level at $1 \text{ kV}/\mu\text{s}$ C3 U_p | ≤ 16 V | ≤ 36 V | ≤ 50 V | ≤ 70 V | ≤ 95 V | ≤ 150 V | ≤ 180 V |
| Voltage prot. level line-PG at $1 \text{ kV}/\mu\text{s}$ C3 U_p | ≤ 8 V | ≤ 19 V | ≤ 25 V | ≤ 35 V | ≤ 50 V | ≤ 75 V | ≤ 90 V |
| Coordination characteristics KK | XX/1 | XX/1 | XX/1 | XX/1 | XX/1 | XX/1 | XX/1 |
| Series impedance per line | 1.4 Ohm | 1.9 Ohm | 2.2 Ohm | 2.2 Ohm | 2.2 Ohm | 2.2 Ohm | 2.2 Ohm |
| Bandwidth Ad-PG f_c | 1.6 MHz | 2.9 MHz | 3.8 MHz | 5.4 MHz | 7.7 MHz | 8.7 MHz | 10.9 MHz |
| Capacitance line-line C | ≤ 3 nF | ≤ 1 nF | ≤ 0.9 nF | ≤ 0.7 nF | ≤ 0.6 nF | ≤ 0.3 nF | ≤ 0.3 nF |
| Capacitance line-PG C | ≤ 5 nF | ≤ 2 nF | ≤ 1.8 nF | ≤ 1.3 nF | ≤ 1.1 nF | ≤ 0.6 nF | ≤ 0.6 nF |
| Response time line-line t_a | ≤ 1 ns | ≤ 1 ns | ≤ 1 ns | ≤ 1 ns | ≤ 1 ns | ≤ 1 ns | ≤ 1 ns |
| Response time line-PG t_a | ≤ 1 ns | ≤ 1 ns | ≤ 1 ns | ≤ 1 ns | ≤ 1 ns | ≤ 1 ns | ≤ 1 ns |
| Operating temperature range | -40°C...+80°C | -40°C...+80°C | -40°C...+80°C | -40°C...+80°C | -40°C...+80°C | -40°C...+80°C | -40°C...+80°C |
| Degree of protection (plugged) | IP 20 | IP 20 | IP 20 | IP 20 | IP 20 | IP 20 | IP 20 |
| Pluggable into | base part | base part | base part | base part | base part | base part | base part |
| Earthing via | base part | base part | base part | base part | base part | base part | base part |
| Enclosure material | polyamide PA 6.6 | polyamide PA 6.6 | polyamide PA 6.6 | polyamide PA 6.6 | polyamide PA 6.6 | polyamide PA 6.6 | polyamide PA 6.6 |
| Colour | yellow | yellow | yellow | yellow | yellow | yellow | yellow |
| Test standards | VDE 0845-2, IEC 61643-21 | | | | | | |
| Approvals, Certifications | CSA | CSA | CSA | CSA | CSA | CSA | CSA |

| Ordering information | | | | | | | |
|----------------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Type | BCT MOD BE 5 | BCT MOD BE 12 | BCT MOD BE 15 | BCT MOD BE 24 | BCT MOD BE 30 | BCT MOD BE 48 | BCT MOD BE 60 |
| Part No. | 919 620 | 919 621 | 919 622 | 919 623 | 919 624 | 919 625 | 919 626 |
| Packing unit | 1 pc(s) | 1 pc(s) | 1 pc(s) | 1 pc(s) | 1 pc(s) | 1 pc(s) | 1 pc(s) |



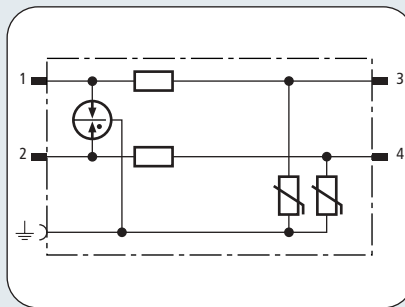
Basic circuit diagram with and without plugged-in module

BCT BAS

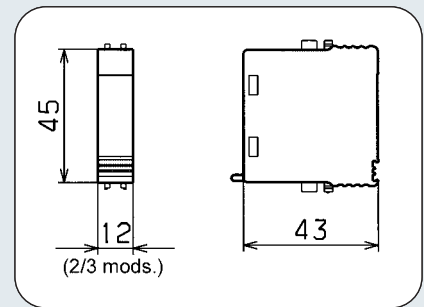
Base part for use as universal feed-through terminal for supporting the arrester module without signal interruption. The arrester module is safely earthed via the supporting foot of the DIN rail by means of a snap-on device. Allows direct or indirect shield earthing

| Type | | BCT BAS | |
|--------------------------------|----------|-----------------------------------|--|
| Cross-sectional area, solid | | 0.08 - 4 mm ² (shield) | |
| Cross-sectional area, flexible | | 0.08 - 2.5 mm ² | |
| Enclosure material | | polyamide PA 6.6 | |
| Type | PU pc(s) | Part No. | |
| BCT BAS | 1 | 919 506 | |





Using powerful varistors minimises the decoupling impedance to the gas discharge tube.



Dimension drawing BCT MOD BE 110

- Optimal protection
- Minimal series impedance
- For use according to the lightning protection zones concept at boundaries 0_A – 2 and higher

Combined lightning current and surge arrester module for protecting 2 single wires with common reference potential as well as unbalanced interfaces.

BCT MOD BE 110

| | |
|--|--------------------------|
| Nominal voltage U_N | 110 V |
| Max. continuous dc voltage U_c | 170 V |
| Max. continuous ac voltage U_c | 130 V |
| Nominal current I_L | 1 A |
| D1 Total impulse current (10/350) I_{imp} | 5 kA |
| D1 Lightning impulse current (10/350) per line I_{imp} | 2.5 kA |
| C2 Total nominal discharge current (8/20) I_n | 20 kA |
| C2 Nominal discharge current (8/20) per line I_n | 20 kA |
| Voltage protection level line-line at I_{imp} D1 U_p | ≤ 600 V |
| Voltage protection level line-PG at I_{imp} D1 U_p | ≤ 300 V |
| Voltage protection level at 1 kV/μs C3 U_p | ≤ 520 V |
| Voltage protection level line-PG at 1 kV/μs C3 U_p | ≤ 260 V |
| Coordination characteristics KK | XX/2 |
| Series impedance per line | 0.4 Ohm |
| Bandwidth Ad-PG f_G | 24.0 MHz |
| Capacitance line-line C | ≤ 0.2 nF |
| Capacitance line-PG C | ≤ 0.4 nF |
| Response time line-line t_a | ≤ 25 ns |
| Response time line-PG t_a | ≤ 25 ns |
| Operating temperature range | -40°C...+80°C |
| Degree of protection (plugged) | IP 20 |
| Pluggable into | base part |
| Earthing via | base part |
| Enclosure material | polyamide PA 6.6 |
| Colour | yellow |
| Test standards | VDE 0845-2, IEC 61643-21 |
| Approvals, Certifications | CSA |

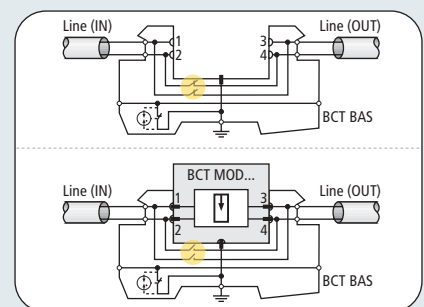
| | |
|-----------------------------|----------------|
| Ordering information | |
| Type | BCT MOD BE 110 |
| Part No. | 919 627 |
| Packing unit | 1 pc(s) |



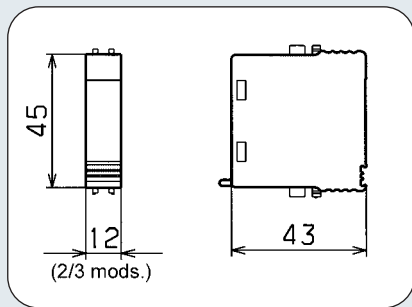
BCT BAS

Base part for use as universal feed-through terminal for supporting the arrester module without signal interruption. The arrester module is safely earthed via the supporting foot of the DIN rail by means of a snap-on device. Allows direct or indirect shield earthing

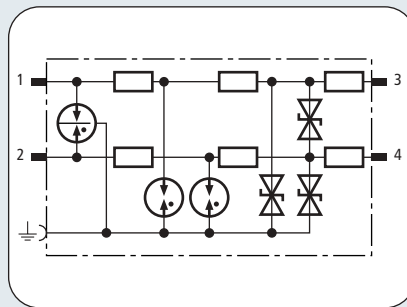
| | | | |
|--------------------------------|-----------------------------------|-------------|--|
| Type | BCT BAS | | |
| Cross-sectional area, solid | 0.08 - 4 mm ² (shield) | | |
| Cross-sectional area, flexible | 0.08 - 2.5 mm ² | | |
| Enclosure material | polyamide PA 6.6 | | |
| Type | PU | Part | |
| BCT BAS | 1 | 919 506 | |



Basic circuit diagram with and without plugged-in module



Dimension drawing BCT MOD BE C 5 – BE C 30



The resistors at the output of the circuit protect optocoupler and protective diodes within the terminal device against overloads.



- Optimal protection levels
- Additional decoupling to the terminal equipment
- For use according to the lightning protection zones concept at boundaries $0_A - 2$ and higher

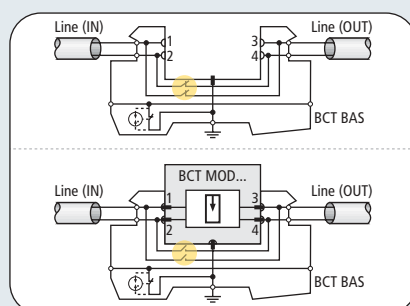
Combined lightning current and surge arrester module for protection of balanced interfaces with protective diode circuit at the input, current loops (TTY) and optocoupler inputs.

| | BCT MOD BE C 5 | BCT MOD BE C 12 | BCT MOD BE C 24 | BCT MOD BE C 30 |
|--|--------------------------|--------------------------|--------------------------|--------------------------|
| Nominal voltage U_N | 5 V | 12 V | 24 V | 30 V |
| Max. continuous dc voltage U_c | 6.0 V | 14.5 V | 26.8 V | 34.8 V |
| Max. continuous ac voltage U_c | 4.2 V | 10.2 V | 18.9 V | 24.5 V |
| Nominal current I_L | 0.1 A | 0.1 A | 0.1 A | 0.1 A |
| D1 Total impulse current (10/350) I_{imp} | 5 kA | 5 kA | 5 kA | 5 kA |
| D1 Lightning impulse current (10/350) per line I_{imp} | 2.5 kA | 2.5 kA | 2.5 kA | 2.5 kA |
| C2 Total nominal discharge current (8/20) I_n | 20 kA | 20 kA | 20 kA | 20 kA |
| C2 Nominal discharge current (8/20) per line I_n | 20 kA | 20 kA | 20 kA | 20 kA |
| Voltage protection level line-line at I_{imp} D1 U_p | ≤ 10 V | ≤ 20 V | ≤ 40 V | ≤ 50 V |
| Voltage protection level line-PG at I_{imp} D1 U_p | ≤ 18 V | ≤ 25 V | ≤ 45 V | ≤ 55 V |
| Voltage protection level at 1 kV/ μ s C3 U_p | ≤ 8 V | ≤ 19 V | ≤ 35 V | ≤ 50 V |
| Voltage protection level line-PG at 1 kV/ μ s C3 U_p | ≤ 8 V | ≤ 19 V | ≤ 35 V | ≤ 50 V |
| Coordination characteristics KK | XX/1 | XX/1 | XX/1 | XX/1 |
| Series impedance per line | 7.0 Ohm | 13.9 Ohm | 24.2 Ohm | 29.2 Ohm |
| Bandwidth line-line f_G | 0.4 MHz *) | 0.85 MHz *) | 0.85 MHz *) | 1.0 MHz *) |
| Capacitance line-line C | ≤ 8 nF | ≤ 3 nF | ≤ 2 nF | ≤ 1.5 nF |
| Capacitance line-PG C | ≤ 8 nF | ≤ 3 nF | ≤ 2 nF | ≤ 1.5 nF |
| Response time line-line t_a | ≤ 1 ns | ≤ 1 ns | ≤ 1 ns | ≤ 1 ns |
| Response time line-PG t_a | ≤ 1 ns | ≤ 1 ns | ≤ 1 ns | ≤ 1 ns |
| Operating temperature range | -40°C...+80°C | -40°C...+80°C | -40°C...+80°C | -40°C...+80°C |
| Degree of protection (plugged) | IP 20 | IP 20 | IP 20 | IP 20 |
| Pluggable into | base part | base part | base part | base part |
| Earthing via | base part | base part | base part | base part |
| Enclosure material | polyamide PA 6.6 | polyamide PA 6.6 | polyamide PA 6.6 | polyamide PA 6.6 |
| Colour | yellow | yellow | yellow | yellow |
| Test standards | VDE 0845-2, IEC 61643-21 | VDE 0845-2, IEC 61643-21 | VDE 0845-2, IEC 61643-21 | VDE 0845-2, IEC 61643-21 |
| Approvals, Certifications | CSA | CSA | CSA | CSA |

Ordering information

| Type | BCT MOD BE C 5 | BCT MOD BE C 12 | BCT MOD BE C 24 | BCT MOD BE C 30 |
|--------------|----------------|-----------------|-----------------|-----------------|
| Part No. | 919 660 | 919 661 | 919 662 | 919 663 |
| Packing unit | 1 pc(s) | 1 pc(s) | 1 pc(s) | 1 pc(s) |

*) measured in a 100 Ω system



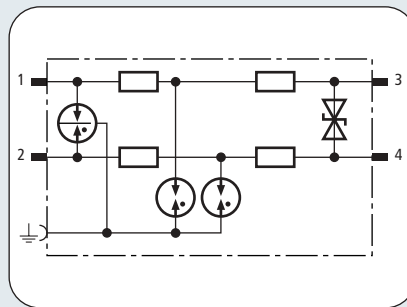
Basic circuit diagram with and without plugged-in module

BCT BAS

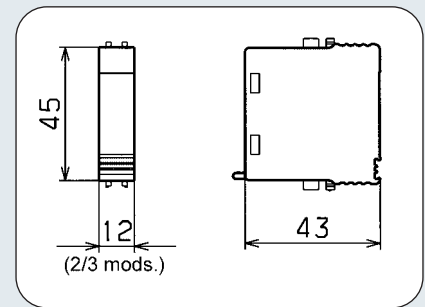
Base part for use as universal feed-through terminal for supporting the arrester module without signal interruption. The arrester module is safely earthed via the supporting foot of the DIN rail by means of a snap-on device. Allows direct or indirect shield earthing

| Type | BCT BAS | |
|--------------------------------|-----------------------------------|----------|
| Cross-sectional area, solid | 0.08 - 4 mm ² (shield) | |
| Cross-sectional area, flexible | 0.08 - 2.5 mm ² | |
| Enclosure material | polyamide PA 6.6 | |
| Type | PU pc(s) | Part No. |
| BCT BAS | 1 | 919 506 |





2 upstream protective stages of the gas discharge tube minimise the decoupling impedance to the diodes



Dimension drawing BCT MOD BD 5 – BD 60

- Optimal protection
- Minimal series impedance
- For use according to the lightning protection zones concept at boundaries 0_A – 2 and higher

Combined lightning current and surge arrester module for protection of balanced interfaces with electrical isolation.

| BCT MOD ... | BD 5 | BD 12 | BD 15 | BD 24 | BD 30 | BD 48 | BD 60 |
|---|--------------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Nominal voltage U _N | 5 V | 12 V | 15 V | 24 V | 30 V | 48 V | 60 V |
| Max. continuous dc voltage U _c | 6.0 V | 14.5 V | 17.8 V | 26.8 V | 34.8 V | 55.1 V | 65 V |
| Max. continuous ac voltage U _c | 4.2 V | 10.2 V | 12.5 V | 18.9 V | 24.5 V | 38.9 V | 50 V |
| Nominal current I _L | 1 A | 1 A | 1 A | 1 A | 1 A | 1 A | 1 A |
| D1 Total impulse current (10/350) I _{imp} | 5 kA | 5 kA | 5 kA | 5 kA | 5 kA | 5 kA | 5 kA |
| D1 Lightning imp. current (10/350) per line I _{imp} | 2.5 kA | 2.5 kA | 2.5 kA | 2.5 kA | 2.5 kA | 2.5 kA | 2.5 kA |
| C2 Total nom. discharge current (8/20) I _n | 20 kA | 20 kA | 20 kA | 20 kA | 20 kA | 20 kA | 20 kA |
| C2 Nom. discharge current (8/20) per line I _n | 20 kA | 20 kA | 20 kA | 20 kA | 20 kA | 20 kA | 20 kA |
| Voltage prot. level line-line at I _{imp} D1 U _p | ≤ 10 V | ≤ 20 V | ≤ 25 V | ≤ 40 V | ≤ 50 V | ≤ 80 V | ≤ 100 V |
| Voltage prot. level line-PG at I _{imp} D1 U _p | ≤ 700 V | ≤ 700 V | ≤ 700 V | ≤ 700 V | ≤ 700 V | ≤ 700 V | ≤ 700 V |
| Voltage prot. level at 1 kV/μs C3 U _p | ≤ 8 V | ≤ 19 V | ≤ 24 V | ≤ 35 V | ≤ 50 V | ≤ 75 V | ≤ 90 V |
| Voltage prot. level line-PG at 1 kV/μs C3 U _p | ≤ 600 V | ≤ 600 V | ≤ 600 V | ≤ 600 V | ≤ 600 V | ≤ 600 V | ≤ 600 V |
| Coordination characteristics KK | XX/1 | XX/1 | XX/1 | XX/1 | XX/1 | XX/1 | XX/1 |
| Series impedance per line | 1.4 Ohm | 1.9 Ohm | 2.2 Ohm | 2.2 Ohm | 2.2 Ohm | 2.2 Ohm | 2.2 Ohm |
| Bandwidth line-line f _G | 1.0 MHz | 3.1 MHz | 3.8 MHz | 5.3 MHz | 5.8 MHz | 8.6 MHz | 10.0 MHz |
| Capacitance line-line C | ≤ 5 nF | ≤ 2 nF | ≤ 1.8 nF | ≤ 1.3 nF | ≤ 0.9 nF | ≤ 0.6 nF | ≤ 0.6 nF |
| Capacitance line-PG C | ≤ 7 pF | ≤ 7 pF | ≤ 7 pF | ≤ 7 pF | ≤ 7 pF | ≤ 7 pF | ≤ 7 pF |
| Response time line-line t _a | ≤ 1 ns | ≤ 1 ns | ≤ 1 ns | ≤ 1 ns | ≤ 1 ns | ≤ 1 ns | ≤ 1 ns |
| Response time line-PG t _a | ≤ 100 ns | ≤ 100 ns | ≤ 100 ns | ≤ 100 ns | ≤ 100 ns | ≤ 100 ns | ≤ 100 ns |
| Operating temperature range | -40°C...+80°C | -40°C...+80°C | -40°C...+80°C | -40°C...+80°C | -40°C...+80°C | -40°C...+80°C | -40°C...+80°C |
| Degree of protection (plugged) | IP 20 | IP 20 | IP 20 | IP 20 | IP 20 | IP 20 | IP 20 |
| Pluggable into | base part | base part | base part | base part | base part | base part | base part |
| Earthing via | base part | base part | base part | base part | base part | base part | base part |
| Enclosure material | polyamide PA 6.6 | polyamide PA 6.6 | polyamide PA 6.6 | polyamide PA 6.6 | polyamide PA 6.6 | polyamide PA 6.6 | polyamide PA 6.6 |
| Colour | yellow | yellow | yellow | yellow | yellow | yellow | yellow |
| Test standards | VDE 0845-2, IEC 61643-21 | | | | | | |
| Approvals, Certifications | CSA | CSA | CSA | CSA | CSA | CSA | CSA |

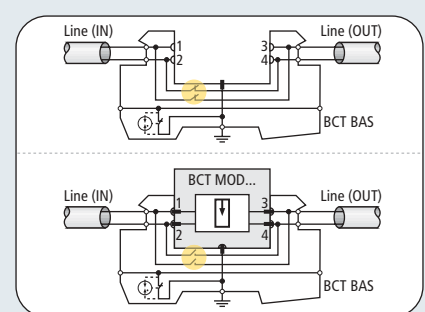
| Ordering information | | | | | | | |
|----------------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Type | BCT MOD BD 5 | BCT MOD BD 12 | BCT MOD BD 15 | BCT MOD BD 24 | BCT MOD BD 30 | BCT MOD BD 48 | BCT MOD BD 60 |
| Part No. | 919 640 | 919 641 | 919 642 | 919 643 | 919 644 | 919 645 | 919 646 |
| Packing unit | 1 pc(s) | 1 pc(s) | 1 pc(s) | 1 pc(s) | 1 pc(s) | 1 pc(s) | 1 pc(s) |



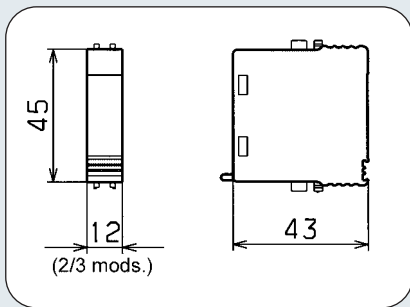
BCT BAS

Base part for use as universal feed-through terminal for supporting the arrester module without signal interruption. The arrester module is safely earthed via the supporting foot of the DIN rail by means of a snap-on device. Allows direct or indirect shield earthing

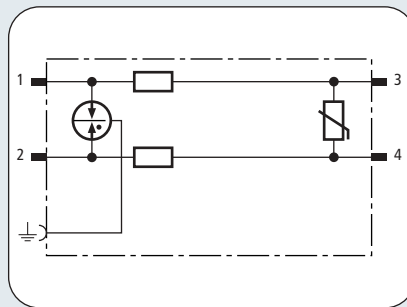
| | | |
|--------------------------------|-----------------------------------|-----------------|
| Type | BCT BAS | |
| Cross-sectional area, solid | 0.08 - 4 mm ² (shield) | |
| Cross-sectional area, flexible | 0.08 - 2.5 mm ² | |
| Enclosure material | polyamide PA 6.6 | |
| Type | PU pc(s) | Part No. |
| BCT BAS | 1 | 919 506 |



Basic circuit diagram with and without plugged-in module



Dimension drawing BCT MOD BD 110/BD 250



Using the powerful varistor minimises the decoupling impedance to the gas discharge tube.

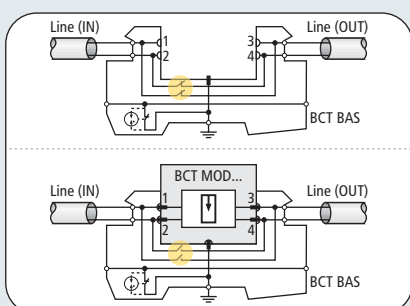


- Optimal protection
- Minimal series impedance
- For use according to the lightning protection zones concept at boundaries $O_A - 2$ and higher

Combined lightning current and surge arrester module for protection of balanced interfaces with electrical isolation, telecommunication.

| | BCT MOD BD 110 | BCT MOD BD 250 |
|--|--------------------------|--------------------------|
| Nominal voltage U_N | 110 V | 250 V |
| Max. continuous dc voltage U_c | 170 V | 280 V |
| Max. continuous ac voltage U_c | 130 V | 190 V |
| Nominal current I_L | 1 A | 1 A |
| D1 Total impulse current (10/350) I_{imp} | 5 kA | 5 kA |
| D1 Lightning impulse current (10/350) per line I_{imp} | 2.5 kA | 2.5 kA |
| C2 Total nominal discharge current (8/20) I_n | 20 kA | 20 kA |
| C2 Nominal discharge current (8/20) per line I_n | 20 kA | 20 kA |
| Voltage protection level line-line at I_{imp} D1 U_p | ≤ 300 V | ≤ 590 V |
| Voltage protection level line-PG at I_{imp} D1 U_p | ≤ 700 V | — |
| Voltage protection level at 1 kV/ μ s C3 U_p | ≤ 260 V | ≤ 490 V |
| Voltage protection level line-PG at 1 kV/ μ s C3 U_p | ≤ 600 V | ≤ 700 V |
| Coordination characteristics KK | XX/2 | XX/2 |
| Series impedance per line | 0.4 Ohm | 0.4 Ohm |
| Bandwidth line-line f_G | 9.0 MHz | 15.0 MHz |
| Capacitance line-line C | ≤ 0.6 nF | ≤ 0.4 nF |
| Capacitance line-PG C | ≤ 10 pF | ≤ 10 pF |
| Response time line-line t_a | ≤ 25 ns | ≤ 25 ns |
| Response time line-PG t_a | ≤ 100 ns | ≤ 100 ns |
| Operating temperature range | -40°C...+80°C | -40°C...+80°C |
| Degree of protection (plugged) | IP 20 | IP 20 |
| Pluggable into | base part | base part |
| Earthing via | base part | base part |
| Enclosure material | polyamide PA 6.6 | polyamide PA 6.6 |
| Colour | yellow | yellow |
| Test standards | VDE 0845-2, IEC 61643-21 | VDE 0845-2, IEC 61643-21 |
| Approvals, Certifications | CSA | CSA |

| Ordering information | | |
|----------------------|----------------|----------------|
| Type | BCT MOD BD 110 | BCT MOD BD 250 |
| Part No. | 919 647 | 919 649 |
| Packing unit | 1 pc(s) | 1 pc(s) |



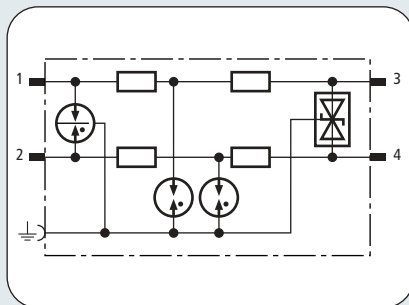
Basic circuit diagram with and without plugged-in module

BCT BAS

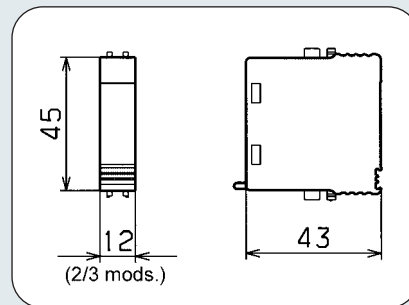
Base part for use as universal feed-through terminal for supporting the arrester module without signal interruption. The arrester module is safely earthed via the supporting foot of the DIN rail by means of a snap-on device. Allows direct or indirect shield earthing

| Type | | BCT BAS | |
|--------------------------------|--|-----------------------------------|----------|
| Cross-sectional area, solid | | 0.08 - 4 mm ² (shield) | |
| Cross-sectional area, flexible | | 0.08 - 2.5 mm ² | |
| Enclosure material | | polyamide PA 6.6 | |
| Type | | PU pc(s) | Part No. |
| BCT BAS | | 1 | 919 506 |





Combining several diodes to one matrix minimises the capacity of the protective circuit.



Dimension drawing BCT MOD BD HF

- Optimal protection
- Minimal self-capacitance
- For use according to the lightning protection zones concept at boundaries 0_A – 2 and higher

Combined lightning current and surge arrester module for protection of high-frequency bus systems or video transmissions.

BCT MOD BD HF 5

| | |
|--|--------------------------|
| Nominal voltage U_N | 5 V |
| Max. continuous dc voltage U_c | 6.0 V |
| Max. continuous ac voltage U_c | 4.2 V |
| Nominal current I_L | 0.1 A |
| D1 Total impulse current (10/350) I_{imp} | 5 kA |
| D1 Lightning impulse current (10/350) per line I_{imp} | 2.5 kA |
| C2 Total nominal discharge current (8/20) I_n | 20 kA |
| C2 Nominal discharge current (8/20) per line I_n | 20 kA |
| Voltage protection level line-line at I_{imp} D1 U_p | ≤ 11 V |
| Voltage protection level line-PG at I_{imp} D1 U_p | ≤ 20 V |
| Voltage protection level at 1 kV/μs C3 U_p | ≤ 10 V |
| Voltage protection level line-PG at 1 kV/μs C3 U_p | ≤ 10 V |
| Coordination characteristics KK | XX/1 |
| Series impedance per line | 1.4 Ohm |
| Bandwidth line-line f_G | 100 MHz |
| Capacitance line-line C | ≤ 20 pF |
| Capacitance line-PG C | ≤ 40 pF |
| Response time line-line t_a | ≤ 1 ns |
| Response time line-PG t_a | ≤ 1 ns |
| Operating temperature range | -40°C...+80°C |
| Degree of protection (plugged) | IP 20 |
| Pluggable into | base part |
| Earthing via | base part |
| Enclosure material | polyamide PA 6.6 |
| Colour | yellow |
| Test standards | VDE 0845-2, IEC 61643-21 |
| Approvals, Certifications | CSA |

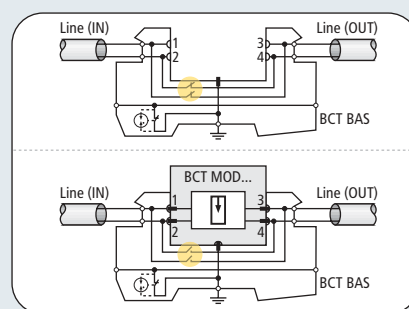
| | |
|-----------------------------|-----------------|
| Ordering information | |
| Type | BCT MOD BD HF 5 |
| Part No. | 919 670 |
| Packing unit | 1 pc(s) |



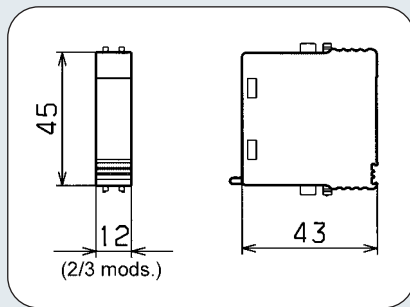
BCT BAS

Base part for use as universal feed-through terminal for supporting the arrester module without signal interruption. The arrester module is safely earthed via the supporting foot of the DIN rail by means of a snap-on device. Allows direct or indirect shield earthing

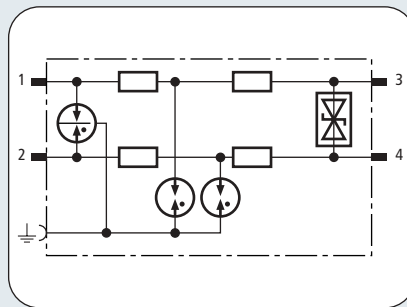
| | | | |
|--------------------------------|-----------------------------------|-------------|--|
| Type | BCT BAS | | |
| Cross-sectional area, solid | 0.08 - 4 mm ² (shield) | | |
| Cross-sectional area, flexible | 0.08 - 2.5 mm ² | | |
| Enclosure material | polyamide PA 6.6 | | |
| Type | PU | Part | |
| BCT BAS | 1 | 919 506 | |



Basic circuit diagram with and without plugged-in module



Dimension drawing BCT MOD BD HFD



Combining several diodes to one matrix mini-mises the capacity of the protective circuit.

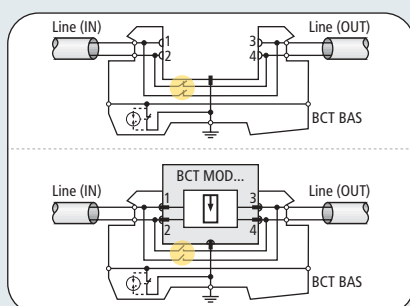


Combined lightning current and surge arrester module for protection of electrically isolated high-frequency bus systems or telecommunication transmissions.

- Optimal protection
- Minimal self-capacitance
- For use according to the lightning protection zones concept at boundaries $O_A - 2$ and higher

| | BCT MOD BD HFD 5 | BCT MOD BD HFD 24 |
|--|--------------------------|-------------------|
| Nominal voltage U_N | 5 V | 24 V |
| Max. continuous dc voltage U_c | 6.0 V | 26.8 V |
| Max. continuous ac voltage U_c | 4.2 V | 18.9 V |
| Nominal current I_L | 0.1 A | 0.1 A |
| D1 Total impulse current (10/350) I_{imp} | 5 kA | 5 kA |
| D1 Lightning impulse current (10/350) per line I_{imp} | 2.5 kA | 2.5 kA |
| C2 Total nominal discharge current (8/20) I_n | 20 kA | 20 kA |
| C2 Nominal discharge current (8/20) per line I_n | 20 kA | 20 kA |
| Voltage protection level line-line at I_{imp} D1 U_p | ≤ 15 V | ≤ 60 V |
| Voltage protection level line-PG at I_{imp} D1 U_p | ≤ 700 V | ≤ 700 V |
| Voltage protection level at 1 kV/ μ s C3 U_p | ≤ 10 V | ≤ 40 V |
| Voltage protection level line-PG at 1 kV/ μ s C3 U_p | ≤ 600 V | ≤ 600 V |
| Coordination characteristics KK | XX/1 | XX/1 |
| Series impedance per line | 1.4 Ohm | 1.4 Ohm |
| Bandwidth line-line f_G | 100 MHz | 100 MHz |
| Capacitance line-line C | ≤ 20 pF | ≤ 30 pF |
| Capacitance line-PG C | ≤ 7 pF | ≤ 15 pF |
| Response time line-line t_a | ≤ 1 ns | ≤ 1 ns |
| Response time line-PG t_a | ≤ 100 ns | ≤ 100 ns |
| Operating temperature range | -40°C...+80°C | -40°C...+80°C |
| Degree of protection (plugged) | IP 20 | IP 20 |
| Pluggable into | base part | base part |
| Earthing via | base part | base part |
| Enclosure material | polyamide PA 6.6 | polyamide PA 6.6 |
| Colour | yellow | yellow |
| Test standards | VDE 0845-2, IEC 61643-21 | IEC 61643-21 |
| Approvals, Certifications | CSA | — |

| Ordering information | | |
|----------------------|------------------|-------------------|
| Type | BCT MOD BD HFD 5 | BCT MOD BD HFD 24 |
| Part No. | 919 671 | 919 675 |
| Packing unit | 1 pc(s) | 1 pc(s) |



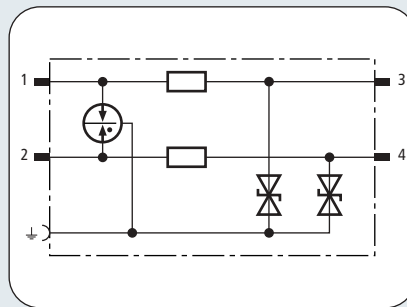
Basic circuit diagram with and without plugged-in module

BCT BAS

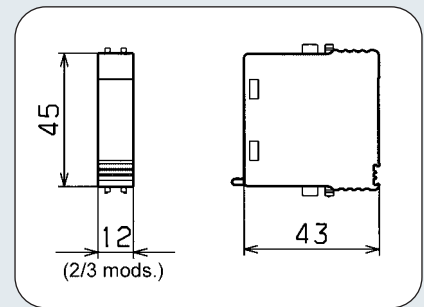
Base part for use as universal feed-through terminal for supporting the arrester module without signal interruption. The arrester module is safely earthed via the supporting foot of the DIN rail by means of a snap-on device. Allows direct or indirect shield earthing

| Type | | BCT BAS | |
|--------------------------------|----|-----------------------------------|----------|
| Cross-sectional area, solid | | 0.08 - 4 mm ² (shield) | |
| Cross-sectional area, flexible | | 0.08 - 2.5 mm ² | |
| Enclosure material | | polyamide PA 6.6 | |
| Type | PU | pc(s) | Part No. |
| BCT BAS | | 1 | 919 506 |





Energy-coordinated gas discharge tubes and diodes connected to earth.



Dimension drawing BCT MOD ME 5 – ME 60 (2/3 mods.)

- Powerful standard protection
- Minimal series impedance
- For use according to the lightning protection zones concept at boundaries 0_B – 2 and higher

Surge arrester module for protection of 2 single wires with common reference potential as well as unbalanced interfaces.

| BCT MOD ... | ME 5 | ME 12 | ME 15 | ME 24 | ME 30 | ME 48 | ME 60 |
|---|--------------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Nominal voltage U _N | 5 V | 12 V | 15 V | 24 V | 30 V | 48 V | 60 V |
| Max. continuous dc voltage U _c | 6.0 V | 14.5 V | 17.8 V | 26.8 V | 34.8 V | 55.1 V | 65 V |
| Max. continuous ac voltage U _c | 4.2 V | 10.2 V | 12.5 V | 18.9 V | 24.5 V | 38.9 V | 50 V |
| Nominal current I _L | 1 A | 1 A | 1 A | 1 A | 1 A | 1 A | 1 A |
| C2 Total nom. discharge current (8/20) I _n | 10 kA | 10 kA | 10 kA | 10 kA | 10 kA | 10 kA | 10 kA |
| C2 Nom. discharge current (8/20) per line I _n | 10 kA | 10 kA | 10 kA | 10 kA | 10 kA | 10 kA | 10 kA |
| Voltage prot. level line-line at I _n C2 U _p | ≤ 50 V | ≤ 70 V | ≤ 85 V | ≤ 100 V | ≤ 130 V | ≤ 200 V | ≤ 240 V |
| Voltage prot. level line-PG at I _n C2 U _p | ≤ 45 V | ≤ 60 V | ≤ 70 V | ≤ 80 V | ≤ 80 V | ≤ 120 V | ≤ 150 V |
| Voltage prot. level at 1 kV/μs C3 U _p | ≤ 16 V | ≤ 38 V | ≤ 50 V | ≤ 70 V | ≤ 95 V | ≤ 150 V | ≤ 180 V |
| Voltage prot. level line-PG at 1 kV/μs C3 U _p | ≤ 8 V | ≤ 19 V | ≤ 25 V | ≤ 35 V | ≤ 50 V | ≤ 75 V | ≤ 90 V |
| Coordination characteristics KK | x/1 | X/1 | X/1 | X/1 | X/1 | X/1 | X/1 |
| Series impedance per line | 1 Ohm | 1.5 Ohm | 1.8 Ohm | 1.8 Ohm | 1.8 Ohm | 1.8 Ohm | 1.8 Ohm |
| Bandwidth Ad-PG f _G | 1.6 MHz | 2.9 MHz | 4.1 MHz | 5.6 MHz | 7.0 MHz | 9.3 MHz | 10.0 MHz |
| Capacitance line-line C | ≤ 3 nF | ≤ 1 nF | ≤ 0.9 nF | ≤ 0.7 nF | ≤ 0.6 nF | ≤ 0.3 nF | ≤ 0.3 nF |
| Capacitance line-PG C | ≤ 5 nF | ≤ 2 nF | ≤ 1.8 nF | ≤ 1.3 nF | ≤ 1.1 nF | ≤ 0.6 nF | ≤ 0.6 nF |
| Response time line-line t _a | ≤ 1 ns | ≤ 1 ns | ≤ 1 ns | ≤ 1 ns | ≤ 1 ns | ≤ 1 ns | ≤ 1 ns |
| Response time line-PG t _a | ≤ 1 ns | ≤ 1 ns | ≤ 1 ns | ≤ 1 ns | ≤ 1 ns | ≤ 1 ns | ≤ 1 ns |
| Operating temperature range | -40°C...+80°C | -40°C...+80°C | -40°C...+80°C | -40°C...+80°C | -40°C...+80°C | -40°C...+80°C | -40°C...+80°C |
| Degree of protection (plugged) | IP 20 | IP 20 | IP 20 | IP 20 | IP 20 | IP 20 | IP 20 |
| Pluggable into | base part | base part | base part | base part | base part | base part | base part |
| Earthing via | base part | base part | base part | base part | base part | base part | base part |
| Enclosure material | polyamide PA 6.6 | polyamide PA 6.6 | polyamide PA 6.6 | polyamide PA 6.6 | polyamide PA 6.6 | polyamide PA 6.6 | polyamide PA 6.6 |
| Colour | yellow | yellow | yellow | yellow | yellow | yellow | yellow |
| Test standards | VDE 0845-2, IEC 61643-21 | | | | | | |
| Approvals, Certifications | CSA | CSA | CSA | CSA | CSA | CSA | CSA |

Ordering information

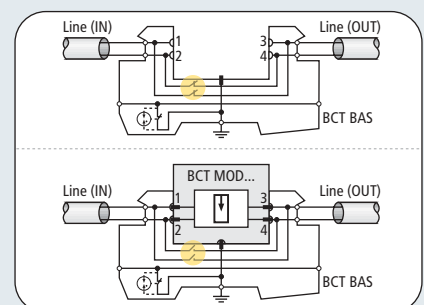
| Type | BCT MOD ME 5 | BCT MOD ME 12 | BCT MOD ME 15 | BCT MOD ME 24 | BCT MOD ME 30 | BCT MOD ME 48 | BCT MOD ME 60 |
|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Part No. | 919 520 | 919 521 | 919 522 | 919 523 | 919 524 | 919 525 | 919 526 |
| Packing unit | 1 pc(s) | 1 pc(s) | 1 pc(s) | 1 pc(s) | 1 pc(s) | 1 pc(s) | 1 pc(s) |



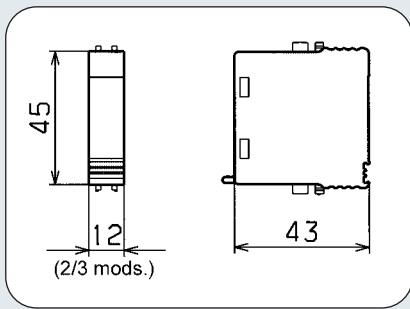
BCT BAS

Base part for use as universal feed-through terminal for supporting the arrester module without signal interruption. The arrester module is safely earthed via the supporting foot of the DIN rail by means of a snap-on device. Allows direct or indirect shield earthing

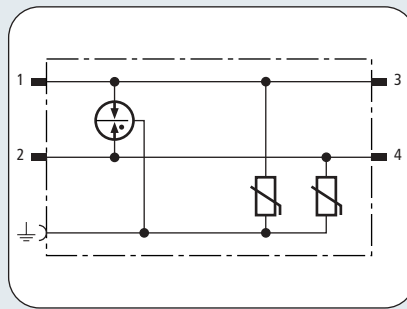
| Type | BCT BAS | | |
|--------------------------------|-----------------------------------|----------|--|
| Cross-sectional area, solid | 0.08 - 4 mm ² (shield) | | |
| Cross-sectional area, flexible | 0.08 - 2.5 mm ² | | |
| Enclosure material | polyamide PA 6.6 | | |
| Type | PU pc(s) | Part No. | |
| BCT BAS | 1 | 919 506 | |



Basic circuit diagram with and without plugged-in module



Dimension drawing BCT MOD ME 110



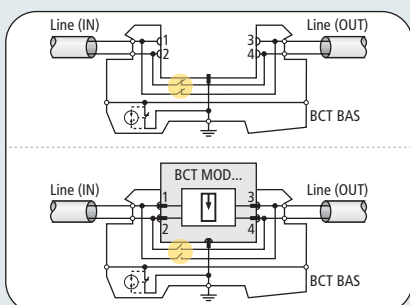
Using powerful varistors no longer requires the decoupling to the gas discharge tube.



- **Powerful standard protection**
- **Minimal series impedance**
- **For use according to the lightning protection zones concept at boundaries $O_B - 2$ and higher**

Surge arrester module for protection of 2 single wires with common reference potential as well as unbalanced interfaces.

| BCT MOD ME 110 | |
|--|--------------------------|
| Nominal voltage U_N | 110 V |
| Max. continuous dc voltage U_c | 170 V |
| Max. continuous ac voltage U_c | 130 V |
| Nominal current I_L | 1 A |
| C2 Total nominal discharge current (8/20) I_n | 20 kA |
| C2 Nominal discharge current (8/20) per line I_n | 10 kA |
| Voltage protection level line-line at I_n C2 U_p | ≤ 730 V |
| Voltage protection level line-PG at I_n C2 U_p | ≤ 400 V |
| Voltage protection level at 1 kV/ μ s C3 U_p | ≤ 520 V |
| Voltage protection level line-PG at 1 kV/ μ s C3 U_p | ≤ 260 V |
| Coordination characteristics KK | X/2 |
| Bandwidth Ad-PG f_G | 24.0 MHz |
| Capacitance line-line C | ≤ 0.2 nF |
| Capacitance line-PG C | ≤ 0.4 nF |
| Response time line-line t_a | ≤ 25 ns |
| Response time line-PG t_a | ≤ 25 ns |
| Operating temperature range | -40°C...+80°C |
| Degree of protection (plugged) | IP 20 |
| Pluggable into | base part |
| Earthing via | base part |
| Enclosure material | polyamide PA 6.6 |
| Colour | yellow |
| Test standards | VDE 0845-2, IEC 61643-21 |
| Approvals, Certifications | CSA |
| Ordering information | |
| Type | BCT MOD ME 110 |
| Part No. | 919 527 |
| Packing unit | 1 pc(s) |



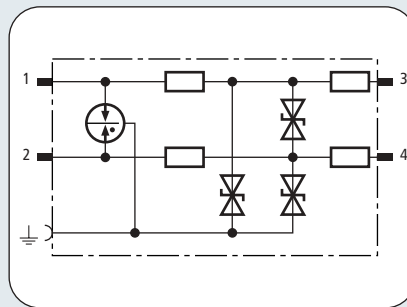
Basic circuit diagram with and without plugged-in module

BCT BAS

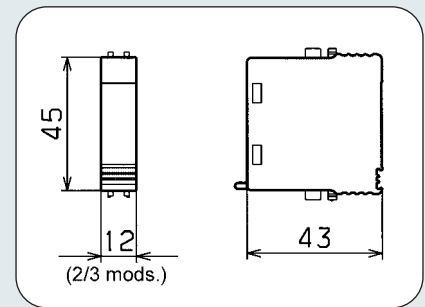
Base part for use as universal feed-through terminal for supporting the arrester module without signal interruption. The arrester module is safely earthed via the supporting foot of the DIN rail by means of a snap-on device. Allows direct or indirect shield earthing

| Type | BCT BAS | |
|--------------------------------|-----------------------------------|-----------------|
| Cross-sectional area, solid | 0.08 - 4 mm ² (shield) | |
| Cross-sectional area, flexible | 0.08 - 2.5 mm ² | |
| Enclosure material | polyamide PA 6.6 | |
| Type | PU pc(s) | Part No. |
| BCT BAS | 1 | 919 506 |





The resistors at the output of the circuit protect optocoupler and protective diodes within the terminal equipment against overloads.



Dimension drawing BCT MOD ME C 5 – ME C 30

- Optimal protection levels
- Additional decoupling to the terminal equipment
- For use according to the lightning protection zones concept at boundaries 0_B – 2 and higher

Surge arrester module for protection of balanced interfaces with fine protective circuit at the input, current loops (TTY) or optocoupler inputs.

| | BCT MOD ME C 5 | BCT MOD ME C 12 | BCT MOD ME C 24 | BCT MOD ME C 30 |
|--|--------------------------|--------------------------|--------------------------|--------------------------|
| Nominal voltage U _N | 5 V | 12 V | 24 V | 30 V |
| Max. continuous dc voltage U _c | 6.0 V | 14.5 V | 26.8 V | 34.8 V |
| Max. continuous ac voltage U _c | 4.2 V | 10.2 V | 18.9 V | 24.5 V |
| Nominal current I _L | 0.1 A | 0.1 A | 0.1 A | 0.1 A |
| C2 Total nominal discharge current (8/20) I _n | 10 kA | 10 kA | 10 kA | 10 kA |
| C2 Nominal discharge current (8/20) per line I _n | 10 kA | 10 kA | 10 kA | 10 kA |
| Voltage protection level line-line at I _n C2 U _p | ≤ 17 V | ≤ 40 V | ≤ 65 V | ≤ 85 V |
| Voltage protection level line-PG at I _n C2 U _p | ≤ 43 V | ≤ 50 V | ≤ 75 V | ≤ 80 V |
| Voltage protection level at 1 kV/μs C3 U _p | ≤ 8 V | ≤ 19 V | ≤ 36 V | ≤ 50 V |
| Voltage protection level line-PG at 1 kV/μs C3 U _p | ≤ 8 V | ≤ 19 V | ≤ 36 V | ≤ 50 V |
| Coordination characteristics KK | X/1 | X/1 | X/1 | X/1 |
| Series impedance per line | 6.6 Ohm | 13.5 Ohm | 23.8 Ohm | 28.8 Ohm |
| Bandwidth line-line f _G | 0.4 MHz *) | 0.85 MHz *) | 0.85 MHz *) | 1.0 MHz *) |
| Capacitance line-line C | ≤ 8 nF | ≤ 3 nF | ≤ 2 nF | ≤ 2 nF |
| Capacitance line-PG C | ≤ 8 nF | ≤ 3 nF | ≤ 2 nF | ≤ 2 nF |
| Response time line-line t _a | ≤ 1 ns | ≤ 1 ns | ≤ 1 ns | ≤ 1 ns |
| Response time line-PG t _a | ≤ 1 ns | ≤ 1 ns | ≤ 1 ns | ≤ 1 ns |
| Operating temperature range | -40°C...+80°C | -40°C...+80°C | -40°C...+80°C | -40°C...+80°C |
| Degree of protection (plugged) | IP 20 | IP 20 | IP 20 | IP 20 |
| Pluggable into | base part | base part | base part | base part |
| Earthing via | base part | base part | base part | base part |
| Enclosure material | polyamide PA 6.6 | polyamide PA 6.6 | polyamide PA 6.6 | polyamide PA 6.6 |
| Colour | yellow | yellow | yellow | yellow |
| Test standards | VDE 0845-2, IEC 61643-21 | VDE 0845-2, IEC 61643-21 | VDE 0845-2, IEC 61643-21 | VDE 0845-2, IEC 61643-21 |
| Approvals, Certifications | CSA | CSA | CSA | CSA |

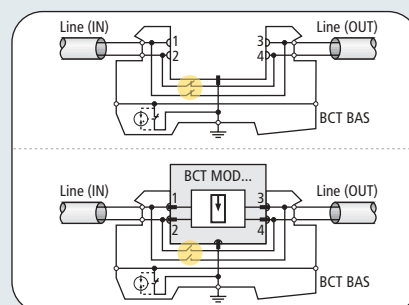
| Ordering information | | | | |
|----------------------|----------------|-----------------|-----------------|-----------------|
| Type | BCT MOD ME C 5 | BCT MOD ME C 12 | BCT MOD ME C 24 | BCT MOD ME C 30 |
| Part No. | 919 560 | 919 561 | 919 562 | 919 563 |
| Packing unit | 1 pc(s) | 1 pc(s) | 1 pc(s) | 1 pc(s) |



BCT BAS

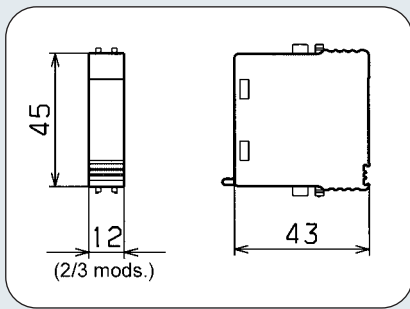
Base part for use as universal feed-through terminal for supporting the arrester module without signal interruption. The arrester module is safely earthed via the supporting foot of the DIN rail by means of a snap-on device. Allows direct or indirect shield earthing

| Type | BCT BAS | | |
|--------------------------------|-----------------------------------|----------|--|
| Cross-sectional area, solid | 0.08 - 4 mm ² (shield) | | |
| Cross-sectional area, flexible | 0.08 - 2.5 mm ² | | |
| Enclosure material | polyamide PA 6.6 | | |
| Type | PU | Part No. | |
| BCT BAS | 1 | 919 506 | |

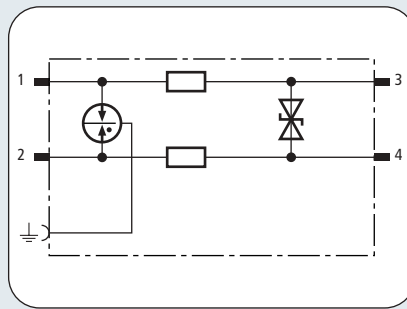


Basic circuit diagram with and without plugged-in module

*) measured in a 100 Ω system



Dimension drawing BCT MOD MD 5 – MD 60



Protective circuit, free of leakage currents to earth, energy-coordinated.



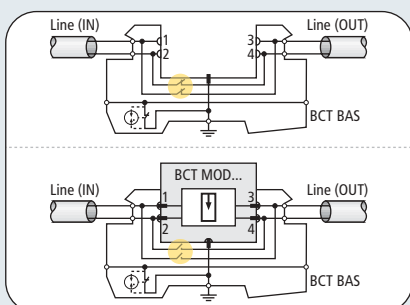
- **Powerful standard protection**
- **Minimal series impedance**
- **For use according to the lightning protection zones concept at boundaries $O_B - 2$ and higher**

Surge arrester module for protection of balanced interfaces with electrical isolation.

| BCT MOD ... | MD 5 | MD 12 | MD 15 | MD 24 | MD 30 | MD 48 | MD 60 |
|--|--------------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Nominal voltage U_N | 5 V | 12 V | 15 V | 24 V | 48 V | 48 V | 60 V |
| Max. continuous dc voltage U_c | 6.0 V | 14.5 V | 17.8 V | 26.8 V | 34.8 V | 55.1 V | 65.0 V |
| Max. continuous ac voltage U_c | 4.2 V | 10.2 V | 12.5 V | 18.9 V | 24.5 V | 38.9 V | 50.0 V |
| Nominal current I_L | 1 A | 1 A | 1 A | 1 A | 1 A | 1 A | 1 A |
| C2 Total nom. discharge current (8/20) I_n | 10 kA | 10 kA | 10 kA | 10 kA | 10 kA | 10 kA | 10 kA |
| C2 Nom. discharge current (8/20) per line I_n | 10 kA | 10 kA | 10 kA | 10 kA | 10 kA | 10 kA | 10 kA |
| Voltage prot. level line-line at I_n C2 U_p | ≤ 15 V | ≤ 27 V | ≤ 32 V | ≤ 45 V | ≤ 60 V | ≤ 85 V | ≤ 110 V |
| Voltage prot. level line-PG at I_n C2 U_p | ≤ 700 V | ≤ 700 V | ≤ 700 V | ≤ 700 V | ≤ 700 V | ≤ 700 V | ≤ 700 V |
| Voltage prot. level at $1 \text{ kV}/\mu\text{s}$ C3 U_p | ≤ 8 V | ≤ 19 V | ≤ 24 V | ≤ 35 V | ≤ 50 V | ≤ 75 V | ≤ 90 V |
| Voltage prot. level line-PG at $1 \text{ kV}/\mu\text{s}$ C3 U_p | ≤ 600 V | ≤ 600 V | ≤ 600 V | ≤ 600 V | ≤ 600 V | ≤ 600 V | ≤ 600 V |
| Coordination characteristics KK | X/1 | X/1 | X/1 | X/1 | X/1 | X/1 | X/1 |
| Series impedance per line | 1.0 Ohm | 1.5 Ohm | 1.8 Ohm | 1.8 Ohm | 1.8 Ohm | 1.8 Ohm | 1.8 Ohm |
| Bandwidth line-line f_G | 1.0 MHz | 3.0 MHz | 4.0 MHz | 5.3 MHz | 6.0 MHz | 9.0 MHz | 11.0 MHz |
| Capacitance line-line C | ≤ 5 nF | ≤ 2 nF | ≤ 1.8 nF | ≤ 1.3 nF | ≤ 0.9 nF | ≤ 0.6 nF | ≤ 0.6 nF |
| Capacitance line-PG C | ≤ 6 pF | ≤ 6 pF | ≤ 6 pF | ≤ 6 pF | ≤ 6 pF | ≤ 6 pF | ≤ 6 pF |
| Response time line-line t_a | ≤ 1 ns | ≤ 1 ns | ≤ 1 ns | ≤ 1 ns | ≤ 1 ns | ≤ 1 ns | ≤ 1 ns |
| Response time line-PG t_a | ≤ 100 ns | ≤ 100 ns | ≤ 100 ns | ≤ 100 ns | ≤ 100 ns | ≤ 100 ns | ≤ 100 ns |
| Operating temperature range | -40°C...+80°C | -40°C...+80°C | -40°C...+80°C | -40°C...+80°C | -40°C...+80°C | -40°C...+80°C | -40°C...+80°C |
| Degree of protection (plugged) | IP 20 | IP 20 | IP 20 | IP 20 | IP 20 | IP 20 | IP 20 |
| Pluggable into | base part | base part | base part | base part | base part | base part | base part |
| Earthing via | base part | base part | base part | base part | base part | base part | base part |
| Enclosure material | polyamide PA 6.6 | polyamide PA 6.6 | polyamide PA 6.6 | polyamide PA 6.6 | polyamide PA 6.6 | polyamide PA 6.6 | polyamide PA 6.6 |
| Colour | yellow | yellow | yellow | yellow | yellow | yellow | yellow |
| Test standards | VDE 0845-2, IEC 61643-21 | | | | | | |
| Approvals, Certifications | CSA | CSA | CSA | CSA | CSA | CSA | CSA |

Ordering information

| Type | BCT MOD MD 5 | BCT MOD MD 12 | BCT MOD MD 15 | BCT MOD MD 24 | BCT MOD MD 30 | BCT MOD MD 48 | BCT MOD MD 60 |
|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Part No. | 919 540 | 919 541 | 919 542 | 919 543 | 919 544 | 919 545 | 919 546 |
| Packing unit | 1 pc(s) | 1 pc(s) | 1 pc(s) | 1 pc(s) | 1 pc(s) | 1 pc(s) | 1 pc(s) |



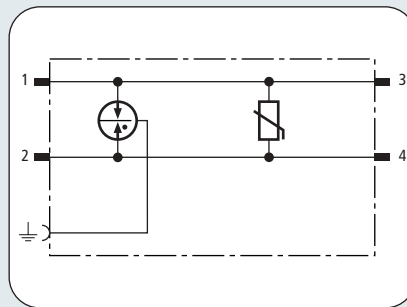
Basic circuit diagram with and without plugged-in module

BCT BAS

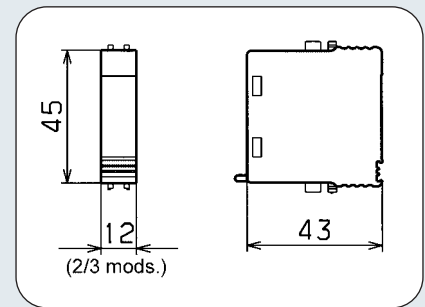
Base part for use as universal feed-through terminal for supporting the arrester module without signal interruption. The arrester module is safely earthed via the supporting foot of the DIN rail by means of a snap-on device. Allows direct or indirect shield earthing

| Type | | BCT BAS | |
|--------------------------------|----------|-----------------------------------|--|
| Cross-sectional area, solid | | 0.08 - 4 mm ² (shield) | |
| Cross-sectional area, flexible | | 0.08 - 2.5 mm ² | |
| Enclosure material | | polyamide PA 6.6 | |
| Type | PU pc(s) | Part No. | |
| BCT BAS | 1 | 919 506 | |





Using a powerful varistor no longer requires the decoupling to the gas discharge tube.



Dimension drawing BCT MOD MD 110/MD 250

- **Powerful standard protection**
- **No series impedance**
- **For use according to the lightning protection zones concept at boundaries at $O_B - 2$ and higher**

Surge arrester module for protection of balanced interfaces with electrical isolation, telecommunication.

| | BCT MOD MD 110 | BCT MOD MD 250 |
|--|--------------------------|--------------------------|
| Nominal voltage U_N | 110 V | 250 V |
| Max. continuous dc voltage U_c | 170 V | 280 V |
| Max. continuous ac voltage U_c | 130 V | 190 V |
| Nominal current I_L | 1 A | 1 A |
| C2 Total nominal discharge current (8/20) I_n | 20 kA | 20 kA |
| C2 Nominal discharge current (8/20) per line I_n | 10 kA | 10 kA |
| Voltage protection level line-line at I_n C2 U_p | ≤ 360 V | ≤ 630 V |
| Voltage protection level line-PG at I_n C2 U_p | ≤ 700 V | — |
| Voltage protection level at 1 kV/ μ s C3 U_p | ≤ 260 V | ≤ 490 V |
| Voltage protection level line-PG at 1 kV/ μ s C3 U_p | ≤ 600 V | ≤ 700 V |
| Coordination characteristics KK | X/2 | X/2 |
| Bandwidth line-line f_G | 11.0 MHz | 15.0 MHz |
| Capacitance line-line C | ≤ 0.7 nF | ≤ 0.4 nF |
| Capacitance line-PG C | ≤ 6 pF | ≤ 10 pF |
| Response time line-line t_a | ≤ 25 ns | ≤ 25 ns |
| Response time line-PG t_a | ≤ 100 ns | ≤ 100 ns |
| Operating temperature range | -40°C...+80°C | -40°C...+80°C |
| Degree of protection (plugged) | IP 20 | IP 20 |
| Pluggable into | base part | base part |
| Earthing via | base part | base part |
| Enclosure material | polyamide PA 6.6 | polyamide PA 6.6 |
| Colour | yellow | yellow |
| Test standards | VDE 0845-2, IEC 61643-21 | VDE 0845-2, IEC 61643-21 |
| Approvals, Certifications | CSA | CSA |

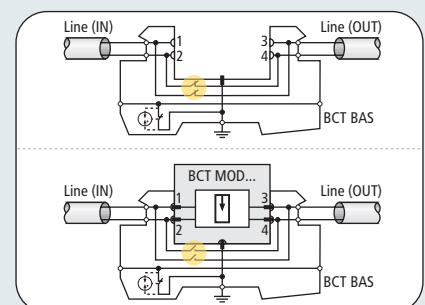
| Ordering information | | |
|----------------------|----------------|----------------|
| Type | BCT MOD MD 110 | BCT MOD MD 250 |
| Part No. | 919 547 | 919 549 |
| Packing unit | 1 pc(s) | 1 pc(s) |



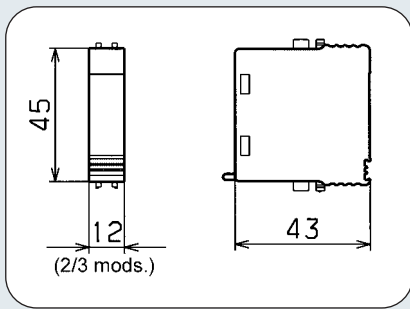
BCT BAS

Base part for use as universal feed-through terminal for supporting the arrester module without signal interruption. The arrester module is safely earthed via the supporting foot of the DIN rail by means of a snap-on device. Allows direct or indirect shield earthing

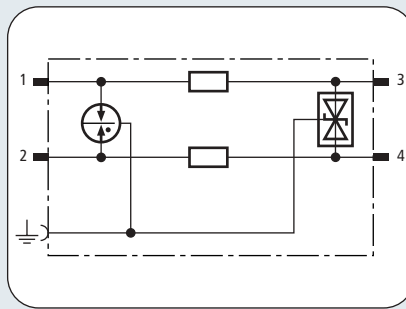
| Type | BCT BAS | | |
|--------------------------------|-----------------------------------|----------|--|
| Cross-sectional area, solid | 0.08 - 4 mm ² (shield) | | |
| Cross-sectional area, flexible | 0.08 - 2.5 mm ² | | |
| Enclosure material | polyamide PA 6.6 | | |
| Type | PU pc(s) | Part No. | |
| BCT BAS | 1 | 919 506 | |



Basic circuit diagram with and without plugged-in module



Dimension drawing BCT MOD MD HF



Combining several diodes to one matrix mini-mises the capacity of the protective circuit.

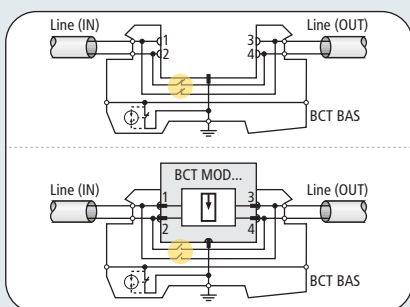


- Minimal self-capacitance
- Best transmission performance
- For use according to the lightning protection zones concept at boundaries $O_B - 2$ and higher

Surge arrester module for protection of high-frequency bus systems or video transmissions.

| BCT MOD MD HF 5 | |
|--|--------------------------|
| Nominal voltage U_N | 5 V |
| Max. continuous dc voltage U_c | 6.0 V |
| Max. continuous ac voltage U_c | 4.2 V |
| Nominal current I_L | 0.1 A |
| C2 Total nominal discharge current (8/20) I_n | 10 kA |
| C2 Nominal discharge current (8/20) per line I_n | 10 kA |
| Voltage protection level line-line at I_n C2 U_p | ≤ 50 V |
| Voltage protection level line-PG at I_n C2 U_p | ≤ 70 V |
| Voltage protection level at 1 kV/ μ s C3 U_p | ≤ 10 V |
| Voltage protection level line-PG at 1 kV/ μ s C3 U_p | ≤ 10 V |
| Coordination characteristics KK | X/1 |
| Series impedance per line | 1.0 Ohm |
| Bandwidth line-line f_G | 100 MHz |
| Capacitance line-line C | ≤ 20 pF |
| Capacitance line-PG C | ≤ 40 pF |
| Response time line-line t_a | ≤ 1 ns |
| Response time line-PG t_a | ≤ 1 ns |
| Operating temperature range | -40°C...+80°C |
| Degree of protection (plugged) | IP 20 |
| Pluggable into | base part |
| Earthing via | base part |
| Enclosure material | polyamide PA 6.6 |
| Colour | yellow |
| Test standards | VDE 0845-2, IEC 61643-21 |
| Approvals, Certifications | CSA |

| Ordering information | |
|----------------------|-----------------|
| Type | BCT MOD MD HF 5 |
| Part No. | 919 570 |
| Packing unit | 1 pc(s) |



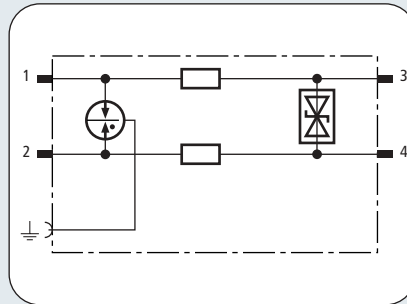
Basic circuit diagram with and without plugged-in module

BCT BAS

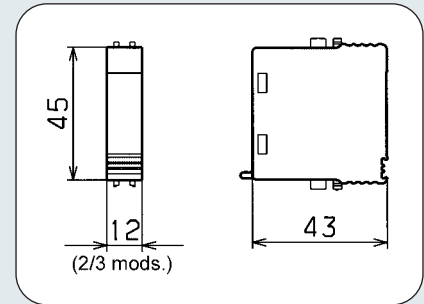
Base part for use as universal feed-through terminal for supporting the arrester module without signal interruption. The arrester module is safely earthed via the supporting foot of the DIN rail by means of a snap-on device. Allows direct or indirect shield earthing

| Type | PU pc(s) | Part No. |
|---------|----------|----------|
| BCT BAS | 1 | 919 506 |





Combining several diodes to one matrix minimises the capacity of the protective circuit.



Dimension drawing BCT MOD MD HFD

- Minimal self-capacitance
- Best transmission performance
- For use according to the lightning protection zones concept at boundaries 0_B – 2 and higher

Surge arrester module for protection of electrically isolated high-frequency bus systems or telecommunication transmissions.

| | BCT MOD MD HFD 5 | BCT MOD MD HFD 24 |
|--|--------------------------|-------------------|
| Nominal voltage U _N | 5 V | 24 V |
| Max. continuous dc voltage U _c | 6.0 V | 26.8 V |
| Max. continuous ac voltage U _c | 4.2 V | 18.9 V |
| Nominal current I _N | 0.1 A | 0.1 A |
| C2 Total nominal discharge current (8/20) I _n | 10 kA | 10 kA |
| C2 Nominal discharge current (8/20) per line I _n | 10 kA | 10 kA |
| Voltage protection level line-line at I _n C2 U _p | ≤ 50 V | ≤ 60 V |
| Voltage protection level line-PG at I _n C2 U _p | ≤ 700 V | ≤ 700 V |
| Voltage protection level at 1 kV/μs C3 U _p | ≤ 10 V | ≤ 40 V |
| Voltage protection level line-PG at 1 kV/μs C3 U _p | ≤ 600 V | ≤ 600 V |
| Coordination characteristics KK | X/1 | X/1 |
| Series impedance per line | 1.0 Ohm | 1.0 Ohm |
| Bandwidth line-line f _G | 100 MHz | 100 MHz |
| Capacitance line-line C | ≤ 20 pF | 25 pF |
| Capacitance line-PG C | ≤ 6 pF | 15 pF |
| Response time line-line t _a | ≤ 1 ns | ≤ 1 ns |
| Response time line-PG t _a | ≤ 100 ns | ≤ 100 ns |
| Operating temperature range | -40°C...+80°C | -40°C...+80°C |
| Degree of protection (plugged) | IP 20 | IP 20 |
| Pluggable into | base part | base part |
| Earthing via | base part | base part |
| Enclosure material | polyamide PA 6.6 | polyamide PA 6.6 |
| Colour | yellow | yellow |
| Test standards | VDE 0845-2, IEC 61643-21 | IEC 61643-21 |
| Approvals, Certifications | CSA | — |

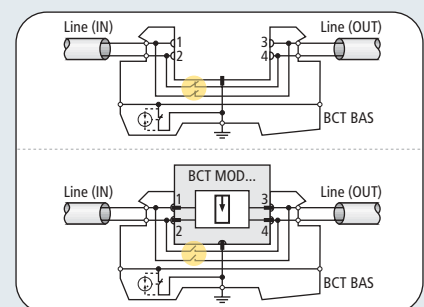
| Ordering information | | |
|----------------------|------------------|-------------------|
| Type | BCT MOD MD HFD 5 | BCT MOD MD HFD 24 |
| Part No. | 919 571 | 919 575 |
| Packing unit | 1 pc(s) | 1 pc(s) |



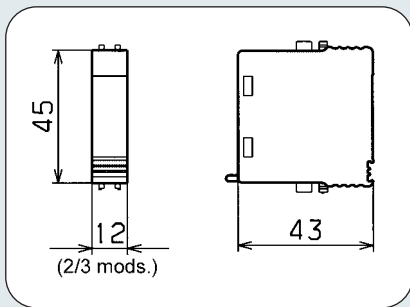
BCT BAS

Base part for use as universal feed-through terminal for supporting the arrester module without signal interruption. The arrester module is safely earthed via the supporting foot of the DIN rail by means of a snap-on device. Allows direct or indirect shield earthing

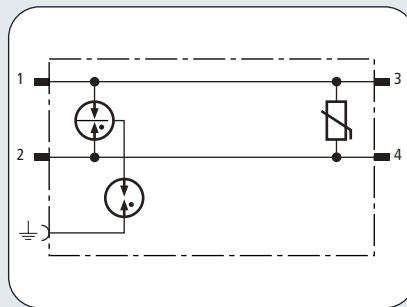
| Type | BCT BAS | | |
|--------------------------------|-----------------------------------|----------|--|
| Cross-sectional area, solid | 0.08 - 4 mm ² (shield) | | |
| Cross-sectional area, flexible | 0.08 - 2.5 mm ² | | |
| Enclosure material | polyamide PA 6.6 | | |
| Type | PU pc(s) | Part No. | |
| BCT BAS | 1 | 919 506 | |



Basic circuit diagram with and without plugged-in module



Dimension drawing BCT MOD MD TC N



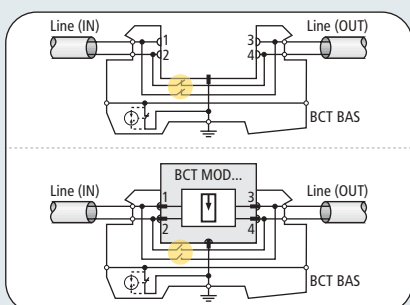
A series connection of gas discharge tubes increases the insulation resistance to earth.



- Powerful standard protection
- High insulation resistance to earth
- For use according to the lightning protection zones concept at boundaries $O_B - 2$ and higher

Surge arrester module for protection of telecommunication interfaces. Unit specified for use in Norway.

| BCT MOD MD TC N | |
|--|--------------------------|
| Max. continuous dc voltage U_c | 280 V |
| Max. continuous ac voltage U_c | 190 V |
| Nominal current I_n | 1 A |
| C2 Total nominal discharge current (8/20) I_n | 20 kA |
| C2 Nominal discharge current (8/20) per line I_n | 10 kA |
| Voltage protection level line-line at I_n C2 U_p | ≤ 750 V |
| Voltage protection level line-PG at I_n C2 U_p | ≤ 950 V |
| Voltage protection level at 1 kV/ μ s C3 U_p | ≤ 490 V |
| Voltage protection level line-PG at 1 kV/ μ s C3 U_p | ≤ 800 V |
| Coordination characteristics KK | X/2 |
| Bandwidth line-line f_g | 18 MHz |
| Capacitance line-line C | ≤ 400 pF |
| Capacitance line-PG C | ≤ 20 pF |
| Response time line-line t_a | ≤ 25 ns |
| Response time line-PG t_a | ≤ 100 ns |
| Operating temperature range | -40°C...+80°C |
| Degree of protection (plugged) | IP 20 |
| Pluggable into | base part |
| Earthing via | base part |
| Enclosure material | polyamide PA 6.6 |
| Colour | yellow |
| Test standards | VDE 0845-2, IEC 61643-21 |
| Approvals, Certifications | CSA |
| Ordering information | |
| Type | BCT MOD MD TC N |
| Part No. | 919 552 |
| Packing unit | 1 pc(s) |



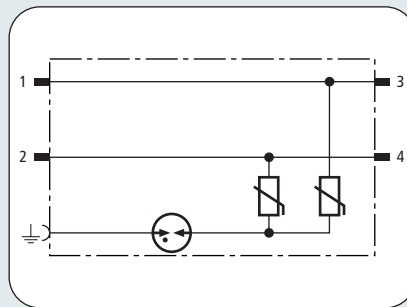
Basic circuit diagram with and without plugged-in module

BCT BAS

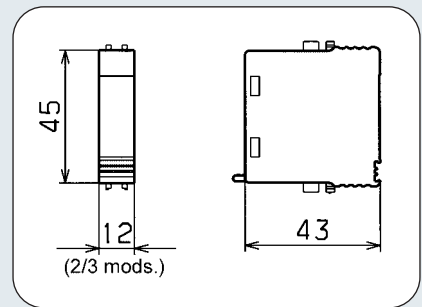
Base part for use as universal feed-through terminal for supporting the arrester module without signal interruption. The arrester module is safely earthed via the supporting foot of the DIN rail by means of a snap-on device. Allows direct or indirect shield earthing

| | | |
|--------------------------------|-----------------------------------|-----------------|
| Type | BCT BAS | |
| Cross-sectional area, solid | 0.08 - 4 mm ² (shield) | |
| Cross-sectional area, flexible | 0.08 - 2.5 mm ² | |
| Enclosure material | polyamide PA 6.6 | |
| Type | PU | Part No. |
| BCT BAS | 1 | 919 506 |





The electrical decoupling of the varistors via a gas discharge tube to earth ensures the isolation.



Dimension BCT MOD MY

- “Y” circuit avoids connection errors
- For signal circuits with high operating current
- For use according to the lightning protection zones concept at boundaries $O_B - 1$ and higher

Surge arrester module for protection of balanced interfaces with electrical isolation up to 6 A.

BCT MOD MY 250

| | |
|--|--------------------------|
| Nominal voltage U_N | 250 V |
| Max. continuous dc voltage U_c | 350 V |
| Max. continuous ac voltage U_c | 250 V |
| Nominal current I_L | 6 A |
| C2 Total nominal discharge current (8/20) I_n | 6 kA |
| C2 Nominal discharge current (8/20) per line I_n | 3 kA |
| Voltage protection level line-line at I_n C2 U_p | ≤ 1100 V |
| Voltage protection level line-PG at I_n C2 U_p | ≤ 1400 V |
| Voltage protection level at 1 kV/ μ s C3 U_p | ≤ 650 V |
| Voltage protection level line-PG at 1 kV/ μ s C3 U_p | ≤ 1200 V |
| Coordination characteristics KK | X/3 |
| Bandwidth line-line f_G | 10 MHz |
| Capacitance line-line C | ≤ 600 pF |
| Capacitance line-PG C | ≤ 10 pF |
| Response time line-line t_a | ≤ 25 ns |
| Response time line-PG t_a | ≤ 100 ns |
| Operating temperature range | -40°C...+80°C |
| Degree of protection (plugged) | IP 20 |
| Pluggable into | base part |
| Earthing via | base part |
| Enclosure material | polyamide PA 6.6 |
| Colour | yellow |
| Test standards | VDE 0845-2, IEC 61643-21 |
| Approvals, Certifications | CSA |

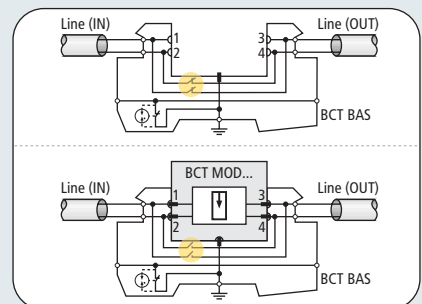
| | |
|-----------------------------|----------------|
| Ordering information | |
| Type | BCT MOD MY 250 |
| Part No. | 919 589 |
| Packing unit | 1 pc(s) |



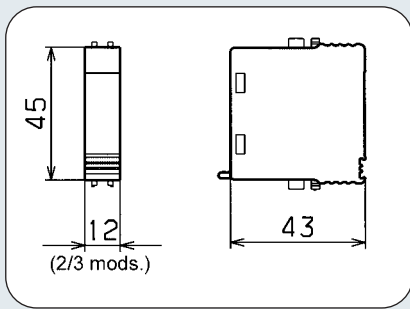
BCT BAS

Base part for use as universal feed-through terminal for supporting the arrester module without signal interruption. The arrester module is safely earthed via the supporting foot of the DIN rail by means of a snap-on device. Allows direct or indirect shield earthing

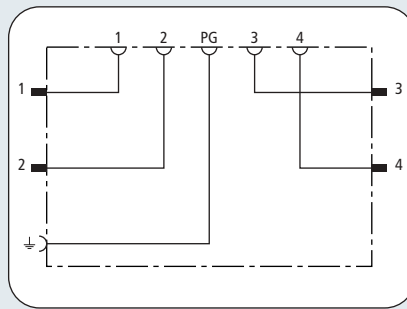
| | | | |
|--------------------------------|-----------------------------------|-------------|--|
| Type | BCT BAS | | |
| Cross-sectional area, solid | 0.08 - 4 mm ² (shield) | | |
| Cross-sectional area, flexible | 0.08 - 2.5 mm ² | | |
| Enclosure material | polyamide PA 6.6 | | |
| Type | PU | Part | |
| BCT BAS | 1 | 919 506 | |



Basic circuit diagram with and without plugged-in module



Dimension drawing BCT MOD PTS



Basic circuit diagram BCT MOD PTS



- For plugging into the base part of BLITZDUCTOR® CT
- Makes maintenance and trouble shooting easier
- Measuring cables included

Plugged in once, the module interrupts the run of the connected cables and leads them to 5 test sockets to the front side of the test/disconnection plug. This allows to carry out measurements in the installation without removing the lines from the base part

| BCT MOD PTS | |
|----------------------|---|
| Design | like arrester module |
| Mounting on | BCT BAS |
| Accessories | 2 measuring circuits, 1 m long (plug Ø1 mm, socket Ø4 mm) |
| Ordering information | |
| Type | BCT MOD PTS |
| Part No. | 919 504 |
| Packing unit | 1 pc(s) |

Gas Discharge Tube



Gas discharge tube with lightning current carrying capability for inserting into the base part and establishing an indirect shield earthing. The SPD can be retrofitted or exchanged any time and is mostly used at risks of leakage pickups

- Device with lightning current carrying capability
- Low sparkover voltage

| GDT 90 | |
|---|------------|
| D1 Lightning impulse current carrying capability (10/350) | 5 kA |
| Design | h 8 x 6 mm |
| Mounting on | BCT BAS |
| Ordering information | |
| Type | GDT 90 |
| Part No. | 919 502 |
| Packing unit | 1 pc(s) |

Earth Terminal Set



- Easy handling
- Quick exchange for retrofitting an arrester module

The earth terminal set consists of a prewired flexible cable with a plug and two connector sleeves. Its function is direct earthing of cable wires not been used before but already connected with the base part

| EKS BCT | |
|----------------------|---------------------|
| Design | approx. 125 mm long |
| Mounting on | BCT BAS |
| Ordering information | |
| Type | EKS BCT |
| Part No. | 919 505 |
| Packing unit | 1 pc(s) |

EMC Spring Terminal



- Min. space requirements
- Compensates the yield of the conductor
- Especially easy handling with bus cables

EMC spring terminal, tested with lightning currents, for screwing into the shield terminals in the base part. Provides a permanent shield contact especially for bus cables at min. installation work

| EFK BCT | |
|---|-----------|
| D1 Lightning impulse current carrying capability (10/350) | 5 kA |
| Clamping range Rd | 2 - 10 mm |
| Mounting on | BCT BAS |
| Ordering information | |
| Type | EFK BCT |
| Part No. | 919 508 |
| Packing unit | 10 pc(s) |