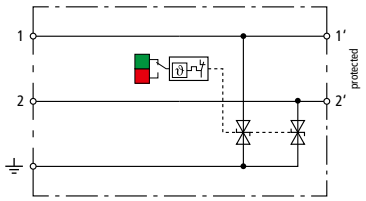
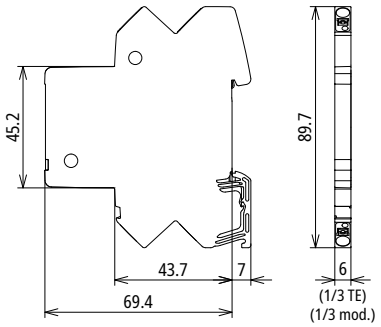
# BCO CL2 E 12 (927 987)

- LifeCheck arrester monitoring and integrated status indication
- Compact two-pole arrester for optimal protection of two single cores
- For use according to the lightning protection zone concept at boundaries 2–3 and higher






Basic circuit diagram




Dimension drawing

Space-saving, compact surge arrester with a width of 6 mm and push-in connection technology with status indication. Finely limiting, single-stage surge protection with powerful diodes for protecting two single cores sharing a common reference potential as well as unbalanced interfaces.

| **Type** | **BCO CL2 E 12** |
|---|---|
| **Part No.** | **927 987** |
| **Standards** | |
| Certification | UL |
| UL Standard | UL 497b |
| UL File Number | E156818 |
| **Test values according to UL 497b** | |
| Type (SPD classification) | BCO CL2 E 12 |
| Strike voltage Line to Ground 100 V/s min. | 33,4 V |
| Strike voltage Line to Ground 100 V/s max. | 37 V |
| Strike voltage Line to Line 100 V/s min. | 16,7 V |
| Strike voltage Line to Line 100 V/s max. | 18,5 V |
| **Technical data** | |
| SPD class | TYPE 3 P1 |
| Impulse category | C1, C3 |
| Nominal voltage ($U_N$) | 12 V |
| Max. continuous operating voltage DC ($U_C$) | 15 V |
| Max. continuous operating a.c. voltage ($U_C$) | 10.6 V |
| Nominal current at 60 °C ($I_L$) | 10 A |
| Nominal current at 80°C ($I_L$) | 6 A |
| C1 Total nominal discharge current (8/20 µs) ($I_n$) | 3 kA |
| C1 Nominal discharge current (8/20 µs) per line ($I_n$) | 1.5 kA |
| Voltage protection level line-line for $I_n$ C1 ($U_p$) | ≤ 80 V |
| Voltage protection level line-PG for $I_n$ C1 ($U_p$) | ≤ 50 V |
| Voltage protection level line-line at 1 kV/µs C3 ($U_p$) | ≤ 44 V |
| Voltage protection level line-PG at 1 kV/µs C3 ($U_p$) | ≤ 22 V |
| Series resistance per line | 0 Ohm |
| Cut-off frequency line-PG at 100 ohms ($f_G$) | 0.6 MHz |
| Capacitance line-line (C) | ≤ 3 nF |
| Capacitance line-PG (C) | ≤ 6 nF |
| Operating temperature range ($T_U$) | -40 °C ... +80 °C |
| Operating state / fault indication | green / red |
| Degree of protection | IP 20 |
| For mounting on | 35 mm DIN rails acc. to EN 60715 |
| Connection (input / output) | push-in / push-in |
| Cross-sectional area, solid | 0.2-2.5 mm² |
| Cross-sectional area, flexible | 0.2-2.5 mm² |
| Earthing via | 35 mm DIN rails acc. to EN 60715 |
| Enclosure material | polyamide PA 6.6 |

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: Tested • NEU: New • !: Discontinued Model
: Cross connector • : Longitudinal connector • : Parallel connector • : T connector • : Clamp for parallel connector • : Clamp for T connector
: Pipe clamp for parallel connector • : Pipe clamp for T connector • : Equipotential bonding bar • : Bridging component

| Technical data | |
|---|---|
| Colour | yellow |
| Test standards | IEC 61643-21 / EN 61643-21 |
| Approvals | UL 497B, SIL |
| SIL classification | up to SIL3 *) |

| Extended technical data | |
|---|---|
| Max. discharge current (8/20 µs) [1/2 - PG], [1+2 - PG] ($I_{max}$) | 20 kA |

| Masterdata | |
|---|---|
| Net weight | 32.1 g/pc(s) |
| GTIN | 4013364485754 |
| PU | 1 pc(s) |
| Customs tariff number (Comb. Nomenclature EU) | 85363010 |

We reserve the right to make changes to the design and technology, dimensions, weights and materials in the interests of technical progress. The illustrations are not binding.

*) For details, see: www.dehn-international.com