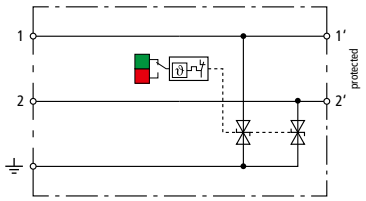
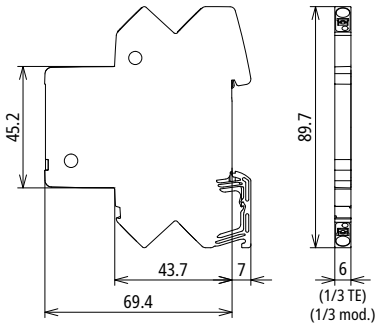
BCO CL2 E 48 (927 989)

- 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 48**
Part No.	**927 989**
Standards	
Certification	UL
UL Standard	UL 497b
UL File Number	E156818
Test values according to UL 497b	
Type (SPD classification)	BCO CL2 E 48
Strike voltage Line to Ground 100 V/s min.	128,8 V
Strike voltage Line to Ground 100 V/s max.	142,4 V
Strike voltage Line to Line 100 V/s min.	64,4 V
Strike voltage Line to Line 100 V/s max.	71,2 V
Technical data	
SPD class	TYPE 3 P1
Impulse category	C1, C3
Nominal voltage (U_N)	48 V
Max. continuous operating voltage DC (U_C)	58 V
Max. continuous operating a.c. voltage (U_C)	41 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)	0.8 kA
C1 Nominal discharge current (8/20 µs) per line (I_n)	0.4 kA
Voltage protection level line-line for I_n C1 (U_p)	≤ 180 V
Voltage protection level line-PG for I_n C1 (U_p)	≤ 90 V
Voltage protection level line-line at 1 kV/µs C3 (U_p)	≤ 145 V
Voltage protection level line-PG at 1 kV/µs C3 (U_p)	≤ 75 V
Series resistance per line	0 Ohm
Cut-off frequency line-PG at 100 ohms (f_G)	2.5 MHz
Capacitance line-line (C)	≤ 1 nF
Capacitance line-PG (C)	≤ 2 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

© DEHN, Inc. • 500 S Main Street, Suite 115 • Mooresville, NC 28115 • United States • Tel. +1 877-927-6510 • contactDEHN@dehn.us • www.dehn.us

: 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	31.99 g/pc(s)
GTIN	4013364485761
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