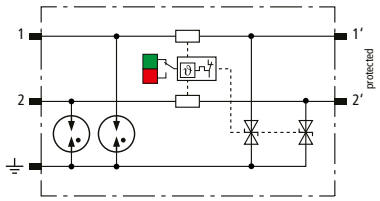
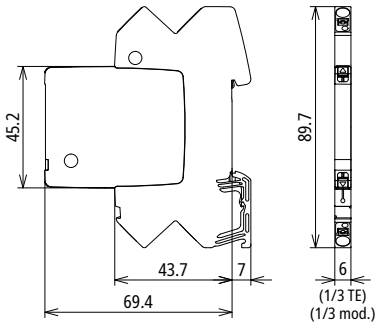
BCO ML2 BE 48 (927 225)

- LifeCheck arrester monitoring and integrated status indication
- Modular two-pole arrester for optimal protection of two single lines
- For installation in conformity with the lightning protection zone concept at the boundaries from 0_A –2 and higher





Basic circuit diagram



Dimension drawing

Space-saving, modular combined arrester with a width of 6 mm and push-in connection technology with status indication for protecting two single lines sharing a common reference potential as well as unbalanced interfaces. With signal disconnection for maintenance purposes.

Type	**BCO ML2 BE 48**
Part No.	**927 225**
Standards	
Certification	UL
UL Standard	UL 497b
UL File Number	E156818
Test values according to UL 497b	
Type (SPD classification)	BCO ML2 BE 48
Strike voltage Line to Ground 100 V/s min.	120 V
Strike voltage Line to Ground 100 V/s max.	132,6 V
Strike voltage Line to Line 100 V/s min.	60 V
Strike voltage Line to Line 100 V/s max.	66,3 V
Technical data	
SPD class	TYPE 1 P1
Impulse category	D1, C1, C2, C3, B2
Nominal voltage (U_N)	48 V
Max. continuous operating voltage DC (U_C)	54 V
Max. continuous operating a.c. voltage (U_C)	38.1 V
Nominal current at 70 °C (I_L)	0.75 A
D1 Total lightning impulse current (10/350 µs) (I_{imp})	3 kA
D1 Lightning impulse current (10/350 µs) per line (I_{imp})	1.5 kA
C2 Total nominal discharge current (8/20 µs) (I_n)	10 kA
C2 Nominal discharge current (8/20 µs) per line (I_n)	5 kA
Voltage protection level line-line for I_n C2 (U_P)	≤ 140 V
Voltage protection level line-PG for I_n C2 (U_P)	≤ 90 V
Voltage protection level line-line for I_n C1 (U_P)	≤ 140 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)	≤ 130 V
Voltage protection level line-PG at 1 kV/µs C3 (U_P)	≤ 68 V
Series resistance per line	1 Ohm
Cut-off frequency line-line (f_G)	5 MHz
Capacitance line-line (C)	≤ 1 nF
Capacitance line-PG (C)	≤ 1.5 nF
Operating temperature range (T_U)	-40 °C ... +80 °C
Operating state / fault indication	green / red
Degree of protection	IP 20
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

Technical data	
Enclosure material	polyamide PA 6.6
Colour	yellow
Test standards	IEC 61643-21 / EN 61643-21
Approvals	UL 497B, CSA, ATEX, IECEx, CCC, SIL
SIL classification	up to SIL3 *)
ATEX approvals	TÜV 20 ATEX 8527 X: II 3G Ex ec IIC T4 Gc
IECEx approvals	IECEx TUR 20.0063X: Ex ec IIC T4 Gc
China Compulsory Certification	CCC no. 2021312304001192
Extended technical data	
Max. discharge current (8/20 µs) [1/2 - PG], [1+2 - PG] (I_{max})	20 kA
Discharge current (8/20 µs) [1/2 - PG], [1+2 - PG]	10 kA (10x)
Voltage protection level line-PG at 1 kV/µs C3 after being subjected to I_{max} (U_p)	≤ 68 V

Masterdata	
Net weight	33.81 g/pc(s)
GTIN	4013364405615
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