

# Technical data sheet

## Plug-in arrester V50 320 V

Item no. 5093509

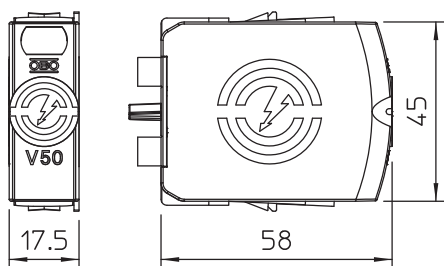


Combination arrester, type 1+2

- For lightning protection equipotential bonding to VDE 0185-305 (IEC 62305)
- Lightning current discharge capacity of 12.5 kA (10/350) per pole
- Modular, plug-in arrester with dynamic cut-off unit and visual status display
- Locking mechanism with vibration protection and voltage keying
- Plastic (UL 94 V-0)



### Dimensions



### Master data

Item no.	5093509
Type	V50-0-320
Description 1	CombiController V50
Description 2	plug-in arrester
Dimension	320V
Smallest sales unit (VG)	1,00 Piece
Weight	9,16 kg/100 pc.

# Technical data sheet

## Plug-in arrester V50 320 V

Item no. 5093509



### Technical data



SPD to EN 61643-11	Type 1+2
SPD to IEC 61643-11	Class I+II
SPD to UL 1449	Type 4
Nominal voltage AC (50/60 Hz)	230,00 V
Maximum continuous voltage AC	320,00 V
Maximum continuous voltage (L-N)	320,00 V
Nominal frequency	50,00 Hz
Nominal discharge current (8/20 µs)	30,00 kA
Nominal discharge current (8/20 µs) [L-N]	30,00 kA
Maximum discharge current (8/20 µs)	50,00 kA
Maximum discharge current (8/20 µs) [L-N]	50,00 kA
Lightning surge current (10/350 µs)	12,50 kA
Lightning surge current (10/350 µs) [L-N/PE]	12,50 kA
Protection level	1,40 kV
Protection level [L-N]	1,40 kV
Residual voltage [L-N] @ 1 kA	0,9 kV
Residual voltage [L-N] @ 5 kA	1,0 kV
Residual voltage [L-N] @ 7 kA	1,0 kV
Residual voltage [L-N] @ 12.5 kA	1,1 kV
Response time	25 ns
Response time [L-N]	25 ns
Max. mains-side overcurrent protection	160 A gL/gG
Short-circuit withstand for max. mains-side overcurrent protection	50 kA eff
TOV voltage [L-N] - fail safe mode - 120 min.	440,00 V
TOV voltage [L-N] - withstand mode - 5 s	335,00 V
Operating temperature range	-40+80 °C
Humidity	5,00 - 95,00 %
Function/defect display	Optical
Ports	One-Port SPD
Pole version	1
Pole number	1,00
Connection cross-section (min.)	1,50 mm <sup>2</sup>
Connection cross-section (max.)	35,00 mm <sup>2</sup>
Connection cross-section (min.)	16,00 AWG
Connection cross-section (max.)	2,00 AWG
Torque	4,00 Nm
Torque	35,00 Lbs
Mounting type	Hat rail 35 mm
Housing material	PA UL 94 V-0
Installation location	Interior
Protection rating	IP20
Minimum distance	1,50 mm
Approvals	UL

# Technical data sheet

## Plug-in arrester V50 320 V

Item no. 5093509



### Technical data

Connection cross-section, FM terminals	0,5-1,5 mm <sup>2</sup>
Connection cross-section, FM terminals	21-16 AWG
Torque for FM terminal	0,20 Nm
Torque for FM terminal	1,70 Lbs
Protective conductor current	< 800 µA
Blow-out	<input type="checkbox"/>
Size	1 part unit
Remote signalling	<input type="checkbox"/>
Integrated back-up fuse	<input type="checkbox"/>
Max. cable cross-section flexible (fine-wire)	35,00 mm <sup>2</sup>
Max. cable cross-section rigid (single wire/multi-wire)	35,00 mm <sup>2</sup>
Conductor cross-section, flexible (fine-wire)	1,50 - 35,00 mm <sup>2</sup>
Conductor cross-section, flexible (fine-wire)	16,00 - 2,00 AWG
Conductor cross-section, rigid (single wire/multi-wire)	16,00 - 2,00 AWG
Conductor cross-section, rigid (single wire/multi-wire)	1,50 - 35,00 mm <sup>2</sup>
Signalling on device	Visual