

# Technical data sheet

## Surge protection, arrestor, type 1+2 (office and housing)



### Combination arrestor V50, 1-pole + NPE with FS 280 V



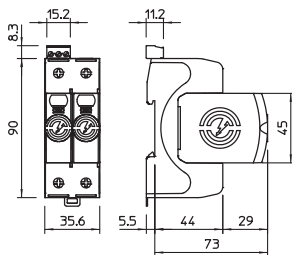
Lightning current combination arrestor, type 2

- For the equipotential bonding of lightning current to VDE 0185-305 (IEC 62305)
- Lightning current discharge capacity of 12.5 kA (10/350) per pole and up to 50 kA (10/350) in total
- Modular, plug-in arrestor with dynamic cut-off unit and visual status display
- Locking mechanism with vibration protection and voltage keying
- Halogen-free plastic (UL 94 V-0)
- The remote signalling (FS) variants have a potential-free changeover contact for remote signalling

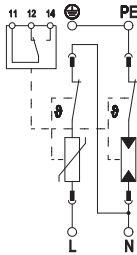
Application: Lightning current equipotential bonding for buildings of class III and IV.

Type	Highest AC voltage V	Pole continuous version	Protection rating	Pack. pcs	Weight kg/100 pcs.	Item No.
V50-1+NPE+FS-280	280	1+N/PE	IP20	1	30,600	5093531

#### Dimensions



#### Connection options



#### V50-1+NPE+FS-280

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) V	$U_n$ 230
Maximum continuous voltage AC V	$U_c$ 280
Nominal discharge current (8/20 $\mu$ s) kA	$I_n / L-N$ 30
Maximum discharge current (8/20 $\mu$ s) kA	$I_{max}$ 50
Lightning surge current (10/350 $\mu$ s) kA	$I_{imp}$ 12,5
Total discharge current (10/350) kA	$I_{total}$ 25
Arrestor surge current (8/20 $\mu$ s) [total] kA	$I_{total}$ 80
Protection level [L-N] kV	$U_p$ 1,3
Residual voltage [L-N] @ 1 kA kV	$U_{res}$ 1
Residual voltage [L-N] @ 5 kA kV	$U_{res}$ 1
Max. mains-side overcurrent protection	160 A qL/gG
Short-circuit withstand for max. mains-side overcurrent protection	50 kA eff
Operating temperature range °C	$T_u$ -40-80
Protection rating	IP20
Approvals	ÖVE
FM contacts	Changeover
Switching power AC	230 V; 0.5 A
Switching power DC	230 V; 0.1 A / 75 V; 0.5 A
Connection cross-section, FM terminals mm <sup>2</sup>	0-2
Connection cross-section, FM terminals AWG	21-16
Cable cross-section, flexible (fine-wire) mm <sup>2</sup>	1.5-35
Rigid cable cross-section (single wire/multiwire) mm <sup>2</sup>	1.5-35
Cable cross-section, flexible (fine-wire) AWG	16-2
Rigid cable cross-section (single wire/multiwire) AWG	16-2

