

# Technical data sheet

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



### Combination arrester V50, 1-pole 280 V



#### Dimensions



Lightning current combination arrester, 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 arrester 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 continuous voltage AC V	Pole version	Protection rating	Pack. pcs	Weight kg/100 pcs.	Item No.
V50-1-280	280	1	IP20	1	16,400	5093 50 0

**PA** Polyamide

#### Connection options



V50-1-280	
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	$I_{total}$ —
Arrester surge current (8/20 $\mu$ s) [total] kA	$I_{total}$ —
Protection level [L-N] kV	$U_p$ 1,3
Protection level [L-N] @ 1 kA kV	$U_{res}$ 1
Protection level [L-N] @ 5 kA kV	$U_{res}$ 1
Max. mains-side overcurrent protection	160 A gL/gG
Short-circuit resistance for max. mains-side overcurrent protection	50 kA eff
Operating temperature range °C	$T_u$ -40-80
Protection rating	IP20
Approvals	UL
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