

# Technical data sheet

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



### Combination arrester V50, 3-pole + NPE 280 V



Lightning current combination arrester, type 1+2 to DIN EN 61643-11

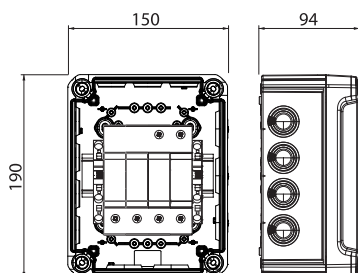
- For lightning protection equipotential bonding to VDE 0185-305 (IEC 62305)
- Complete unit, pre-mounted and ready for connection in polycarbonate housing (IP66)
- Lightning current arresting capacity 12.5 kA (10/350) per pole and up to 50 kA (10/350) in total

Application: Lightning protection equipotential bonding for buildings of Class III and IV. If there is a danger of condensation forming through wind, ice, temperature or sunlight, further measures may be necessary!

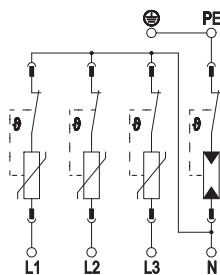


Type	Highest continuous voltage AC V	Pole version	Pack. pcs	Weight kg/100 pcs.	Item No.
VG-V50-3+NPE-280	280	3+N/PE	1	110,000	5093 59 6

#### Dimensions



#### Connection options



#### VG-V50-3+NPE-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	$I_{total}$ 50
Arrester surge current (8/20 $\mu$ s) [total] kA	$I_{total}$ 50
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	IP66
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