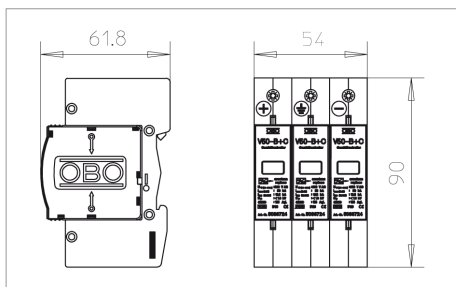


# Technical data sheet

## Complete photovoltaic block V20, 1,000 V DC with IR



Surge arrester, Type 2, for photovoltaic systems

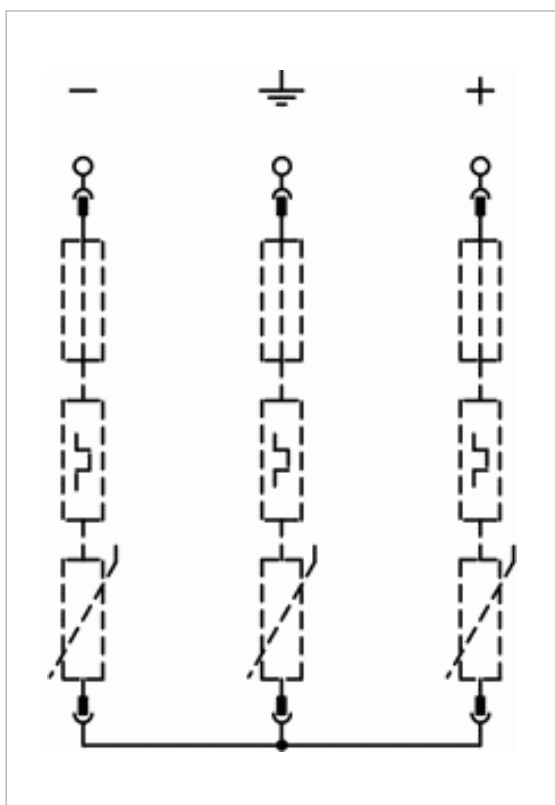
- Error-resistant Y circuit for use according to VDE 0100-712 (IEC 60364-7-712)
- For surge voltage protection equipotential bonding to VDE 0100-443 (IEC 60364-4-44)
- Arresting capacity to 40 kA (8/20) per pin
- Low DC protection level: • arrester, connectable with thermodynamic cut-off unit and visual function display
- Encapsulated, non-extinguishing zinc oxide varistor arrester for use in distributor housings

Application: PV systems with or without separated insulated lightning protection system

Type	U max DC V	Version	Pack Units	Weight kg/100 pc.	Art.-No.
V20-C 3-PH-1000	1000	3-pole for PV systems	1	36.500	5094608
V20-C 3PHFS-1000	1000	3-pole for PV systems with FS	1	44.500	5094574
V20-C 2-PH-1000	1000	2-pole for earthed PV systems	1	27.000	5094617
V20-C 2PHFS-1000	1000	2-pole for earthed PV systems with FS	1	31.000	5094615

**G** /pc.

## Connection-/Circuit diagram



Article number			5094608	5094574	5094617	5094615
U max DC	$U_c$ DC	V	1000	1000	1000	1000
SPD to EN 61643-11			Type 2	Type 2	Type 2	Type 2
LPZ			1→2	1→2	1→2	1→2
Nominal discharge surge current (8/20)	$I_n$	kA	20	20	20	20
Maximum discharge current	$I_{max}$	kA	40	40	40	40
Voltage protection level	$U_p$	kV	< 4,0	< 4,0	< 4,0	< 4,0
Response time	$t_A$	ns	< 25	< 25	< 25	< 25
Temperature range	$\vartheta$	°C	-40	-40	-40	-40
Division unit TE (17.5 mm)			3	4	2	3
Connection cross-section, rigid		mm <sup>2</sup>	2.5	2.5	2.5	2.5
Connection cross-section, multi-wire		mm <sup>2</sup>	2.5	2.5	2.5	2.5
Connection cross-section, flexible		mm <sup>2</sup>	2.5	2.5	2.5	2.5