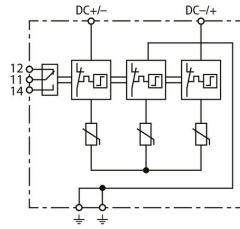


## DCB YPV 1500 FM (900 076)

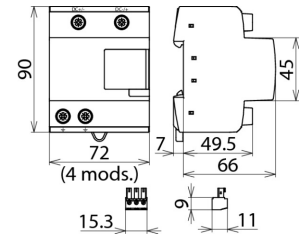
- Applicable in PV systems in accordance with IEC 60364-7-712 / DIN VDE 0100-712
- Universally applicable in earthed and unearthed PV systems
- Prewired type 1 and type 2 combined lightning current and surge arrester for use in photovoltaic generator circuits
- Fault-resistant Y circuit prevents damage to the surge protective device in case of insulation faults in the generator circuit



Figure without obligation



Basic circuit diagram DCB YPV 1500 FM



Dimension drawing DCB YPV 1500 FM

Combined lightning current and surge arrester for use in photovoltaic power supply systems up to 1500 V d.c.; with remote signalling contact.

Type	DCB YPV 1500 FM	
Part No.	900 076	
SPD according to EN 61643-31 / IEC 61643-31	type 1 + type 2 / class I + class II	
Max. PV voltage [DC+ -> DC-] ( $U_{CPV}$ )	≤ 1500 V	
Max. PV voltage [DC+/DC- -> PE] ( $U_{CPV}$ )	≤ 1500 V	
Short-circuit current rating ( $I_{SCPV}$ )	10 kA	
Nominal discharge current (8/20 μs) ( $I_n$ )	20 kA	
Max. discharge current (8/20 μs) ( $I_{max}$ )	40 kA	
Total discharge current (8/20 μs) [DC+/DC- -> PE] ( $I_{total}$ )	40 kA	
Total discharge current (10/350 μs) [DC+/DC- -> PE] ( $I_{total}$ )	12.5 kA	
Lightning impulse current (10/350 μs) [DC+ -> PE/DC- -> PE] ( $I_{imp}$ )	6.25 kA	
Voltage protection level [(DC+/DC-) -> PE] ( $U_p$ )	< 4.5 kV	
Voltage protection level [DC+ -> DC-] ( $U_p$ )	< 4.5 kV	
Response time ( $t_A$ )	≤ 25 ns	
Operating temperature range ( $T_U$ )	-40 °C ... +80 °C	
Operating state / fault indication	green / red	
Number of ports	1	
Cross-sectional area (min.)	1.5 mm <sup>2</sup> solid / flexible	
Cross-sectional area (max.)	35 mm <sup>2</sup> stranded / 25 mm <sup>2</sup> flexible	
For mounting on	35 mm DIN rails acc. to EN 60715	
Enclosure material	thermoplastic, red, UL 94 V-0	
Place of installation	indoor installation	
Degree of protection	IP 20	
Dimensions	4 module(s), DIN 43880	
Approvals	KEMA, UL	
Type of remote signalling contact	changeover contact	
Switching capacity (a.c.)	250 V / 0.5 A	
Switching capacity (d.c.)	250 V / 0.1 A; 125 V / 0.2 A; 75 V / 0.5 A	
Cross-sectional area for remote signalling terminals	max. 1.5 mm <sup>2</sup> solid / flexible	
Extended technical data:	-----	
- Use in DC battery storage systems up to $I_{SCCR}$	≤ 100 kA ( $t \leq 5.83$ ms)	
- Backup fuse for DC battery storage systems up to $I_{SCCR}$	Bussman HLS 2000Vdc / 200 A 2+/A173 DST aR, manufacturer's Part No.: 170M2040	
- Backup fuse for DC battery storage systems up to $I_{SCCR}$	Mersen Protistor D122SD20C200QF 200A 2000V DC aR	
Weight	564 g	
Customs tariff number (Comb. Nomenclature EU)	85354000	
GTIN	6942299504552	
PU	1 pc(s)	

We reserve the right to introduce changes in performance, configuration and technology, dimensions, weights and materials in the course of technical progress. The figures are shown without obligation.