

**NEW 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

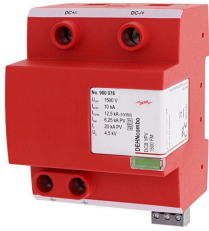
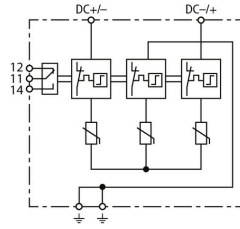
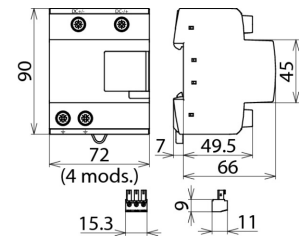


Figure without obligation



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 $I_{SCCR}$	≤ 50 kA (t ≤ 4 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
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.