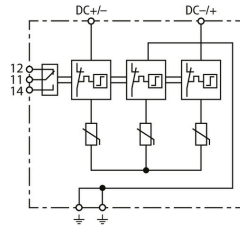


DCB YPV 1500 FM (900 076)

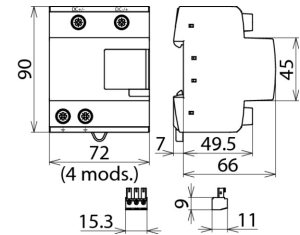
- Applicable in PV systems in accordance with IEC 60364-7-712 / DIN VDE 0100-712
- Universally applicable in earthed and unearthed PV systems
- Prewired type 1 and type 2 combined lightning current and surge arrester for use in photovoltaic generator circuits
- Fault-resistant Y circuit prevents damage 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 ² solid / flexible | |
| Cross-sectional area (max.) | 35 mm ² stranded / 25 mm ² 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 ² 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.