

DCB YPV 1500 (900 071)

- For use in PV systems according to IEC 60364-7-712
- 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

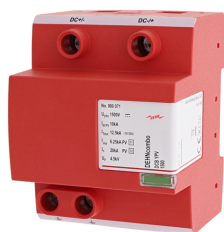
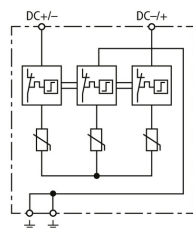
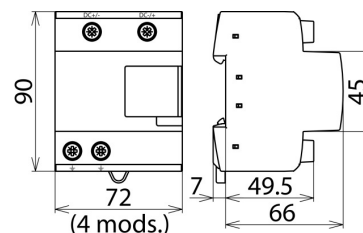


Figure without obligation



Basic circuit diagram DCB YPV 1500



Dimension drawing DCB YPV 1500

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

Type	DCB YPV 1500
Part No.	900 071
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 μ s) (I_n)	20 kA
Max. discharge current (8/20 μ s) (I_{max})	40 kA
Total discharge current (8/20 μ s) [DC+/DC- -> PE] (I_{total})	40 kA
Total discharge current (10/350 μ s) [DC+/DC- -> PE] (I_{total})	12.5 kA
Lightning impulse current (10/350 μ s) [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
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	562 g
Customs tariff number (Comb. Nomenclature EU)	85354000
GTIN	6942299504545
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.