

Surge protection device set - PV-SET AC/DC - 2880053


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Surge protection in IP65 housing for photovoltaic systems, varistors for the DC and varistor spark gap combination for the AC side of an inverter, with pluggable protection elements and a thermal disconnect facility.



Key Commercial Data

Packing unit	1 pc
GTIN	 4 017918 959647
GTIN	4017918959647

Technical data

Dimensions

Height	200 mm
Width	200 mm
Depth	122 mm

Ambient conditions

Degree of protection	IP65
Ambient temperature (operation)	-25 °C ... 70 °C

General

Housing material	Polystyrene
Flammability rating according to UL 94	V0 2
Color	light grey RAL 7035
Standards for clearances and creepage distances	DIN VDE 0110-1
	IEC 60664-1
	IEC 61643-1
Overvoltage category	III
Degree of pollution	2
Mounting type	Surface/Wall mounting
Type	Installation housing

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Technical data

General

Direction of action	DC: (L+)-PE & (L-)-PE & (L+)-(L-) / AC: L-N & N-PE
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Protective circuit

IEC test classification	II
	T2
EN type	T2
Maximum continuous operating voltage U_C	500 V DC (to ground (DC side))
Maximum continuous operating voltage U_C (L-N)	335 V AC
Maximum continuous operating voltage U_C (N-PE)	260 V AC
Rated load current I_L	≤ 30 A (Isc stc)
Residual current I_{PE}	≤ 100 μ A (10 μ A-AC)
Standby power consumption P_C	≤ 80 mW
Max. discharge current I_{max} (8/20) μ s	40 kA (AC & DC side)
Nominal discharge current I_n (8/20) μ s	20 kA (AC & DC side)
Voltage protection level U_p	≤ 4.2 kV (for V wiring (DC side))
Voltage protection level U_p (L-N)	≤ 1.5 kV (For I_n (AC side))
	≤ 1.1 kV (at 5 kA)
Voltage protection level U_p (N-PE)	≤ 1.2 kV (For I_n (AC side))
	≤ 1 kV (at 5 kA)
Response time t_A	≤ 25 ns (DC side)
Response time t_A (L-N)	≤ 25 ns
Response time t_A (N-PE)	≤ 100 ns
Max. backup fuse with branch wiring	≤ 125 A (gL/gG (AC side))
Short-circuit withstand capability I_P with max. backup fuse (r.m.s.)	25 kA (AC side)

Connection, protective circuit

Connection method	Screw terminal blocks
Connection method IN	Biconnect screw terminal block
Connection method OUT	Biconnect screw terminal block
Connection technology	Biconnect terminal block
Conductor cross section flexible min.	0.5 mm ²
Conductor cross section flexible max.	25 mm ²
Conductor cross section solid min.	0.5 mm ²
Conductor cross section solid max.	35 mm ²
Conductor cross section AWG min.	20
Conductor cross section AWG max.	2

Standards and Regulations

Standards/regulations	IEC 61643-1
	DIN EN 61643-11
	IEC 60364-7-712

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