

Features

- Non-destructive screening technology for MOV
- Reliable thermo disconnect device
- High discharge capacity
- PCB on board with slim size
- Gold-plating contactor of microswitch
- Remote status indication

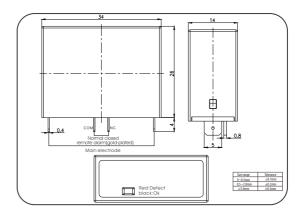
Approval

- RoHS
- UL 94 V-0
- TUV
- CE
- UL 1449

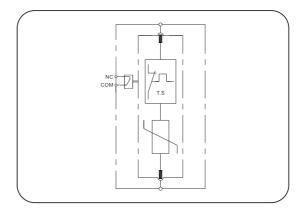
Description

PCB on board, Type 2 /Class II multi-purpose single-pole compact SPD for use in PV DC system at boundaries from LPZ 0₈-1 and higher.

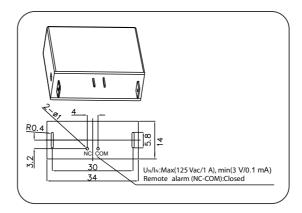
Dimension drawing



Circuit diagram



PCB pad diagram



art No. 94 10 Control Control	2 2 2 2 2 V V V
PD according to IEC/EN 61643-11/31 PD according to GB/T 18802.11/31 PD according to UL1449 4CA umber of ports 1 echnology MOV lax. continuous operating d.c. voltage (Ucv) 670 V lax. continuous operating a.c. voltage (Uc) ominal discharge current (8/20 μs) (In)	v V V
PD according to GB/T 18802.11/31 PD according to UL1449 4CA umber of ports 1 echnology MOV lax. continuous operating d.c. voltage (Ucpv) for owninal discharge current (8/20 µs) (In) 10 kA	v V V
PD according to UL1449 4CA umber of ports 1 echnology MOV lax. continuous operating d.c. voltage (Uc _{PV}) 670 V lax. continuous operating a.c. voltage (Uc) 510 V ominal discharge current (8/20 μs) (I _n) 10 kA	V V
umber of ports 1 echnology MOV lax. continuous operating d.c. voltage (U _{CPV}) 670 V lax. continuous operating a.c. voltage (U _C) 510 V ominal discharge current (8/20 μs) (I _n) 10 kA	V V
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lax. continuous operating d.c. voltage (U _{CPV}) 670 V lax. continuous operating a.c. voltage (U _C) 510 V ominal discharge current (8/20 μs) (I _n) 10 kA	V V
lax. continuous operating a.c. voltage (Uc) 510 V ominal discharge current (8/20 μs) (In) 10 kA	V
ominal discharge current (8/20 μs) (l _n) 10 kA	
	A
lax. discharge current (8/20 μs) (I _{max}) 25 kA	
	A
oltage protection level (U_P) 1.8 kV	V
esponse time (t_A) ≤ 25	5 ns
hort-circuit withstand capacity (IscPV) 1000 /	A
lechanical	
lethod of mounting PCB or	on board
nclosure dimensions (HxWxD) 34 mn	m X 14 mm X 26 mm
ndication	
perating status/fault indication Black.	c/red
ype of remote signaling contact Chang	geover contact
witching capacity Max(1	125 Vac&1 A),Min(3 V&0.1 mA)
nvironmental	
ocation category Indoor	or only
peration temperature range (T_{U}) -40 $^{\circ}$ C	C +85 °C
elative humidity ≤ 95	5%(max 40 °C)
peration altitude ≤ 5 k	km
egree of protection IP 20	
nclosure material Themo	

Notes:

The product is PCB surface mounted type, both hand-welding and wave-weldering are applicable, 100 W intelligent electric iron is recommended for hand-welding, temperature $410\pm10\,^{\circ}$ C, welding time less than 3 seconds, solder melt point 200-240 °C, recommend wave weldering curve: Preheating temperature Zone 1: $115\pm5\,^{\circ}$ C, Zone 2: $155\pm5\,^{\circ}$ C, Peak temperature $265\pm5\,^{\circ}$ C, 1.15 m/min to 1.25 m/min, specific value is tunalbe according to the PCB.

FR-4 double-layer PCB is recommended, thickness of the main electrode copper foil should be greater than 2 ounce, width is greater than 5.0 mm. Right angle is not recommended when layout, the corner should be as wide as possible and greater than 6 mm double layer, the Alarm wire should be reasonably wired according to the alarm system used (current, voltage), the wire width should be as wide as possible to reduce the copper foil resistance and compliance the electrical safety specification and Insulation requirements.

The alarm circuit shall be isolated to the live circuit by reinforced insulation according to EN 60950-1:2006/A2:2013, the dielectric withstand voltage shall be 3000Vrms between the remote alarm circuit and live circuit.