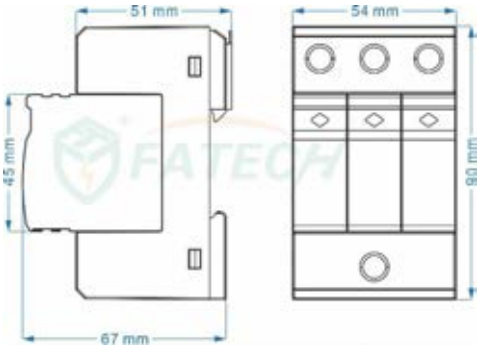
DC Surge protective device for PV system

Version: B-3

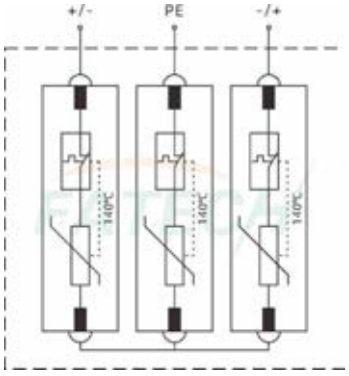
Model No.: FV30B+C/3-1000PV

- **DC surge Protective device** specially used for photovoltaic system less than 1000Vdc.
- The core parts are metal oxide vristor components with high discharge capacity.
- With reliable control thanks to Thermo Dynamic Control disconnector.
- Without remote signaling contact for control device.
- Fault indication via red mark in the inspection window.

1. Dimension



2. Circuit



3. Electrical parameters

Model. No.	FV30B+C/3-1000PV
SPD protection conforms to EN50539-11/IEC61643-31	Type 1+2
SPD installation type conforms to EN50539-11/IEC61643-31	Class I+II
Protection level conforms to DIN VDE0675-6	B+C
Type of Network	Photovoltaic systems DC side
Protection mode	(+/-)-PE , (-/+)-PE
Nominal Voltage U_N	1000 Vdc
Maximum continuous operating voltage for PV application U_{CPV}	1200 Vdc
Continuous operating current I_{CPV}	<20 μA
Residual current I_{PE}	⩽20 μA dc ⩽500 μA ac
Standby power consumption P_C	⩽25 mVA
Maximum discharge current (8/20μs) I_{max}	50 kA
Nominal discharge current (8/20μs) I_n	25 kA
Impuse discharge current (10/350μs) I_{imp}	5 kA
Voltage protection level U_p	⩽3.8 kV
Isolation resistance R_{isol}	> 1000 MΩ

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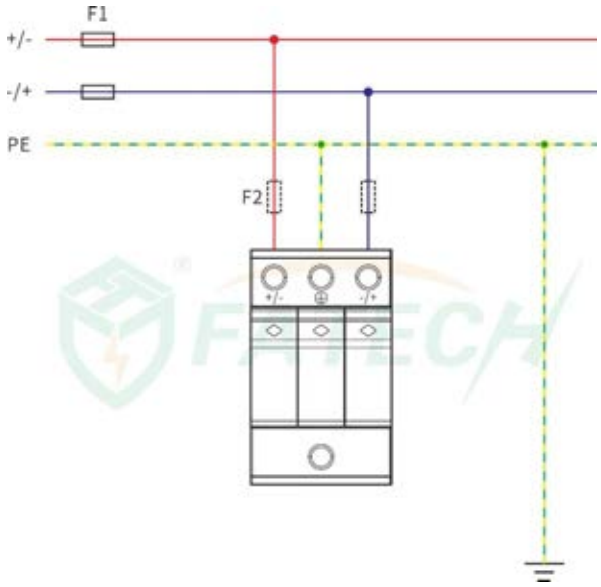
Response time t_A	⩽25 ns
Remote control contact	NO
Disconnection indicator	Mechanical indicator (Green: OK, Red: Replace)
Minimum area of connecting cable	6 mm^2
Maximum area of connecting cable	35 mm^2
Installation location	Inside
Mounting type	35mm DIN rail acc. to EN 60715
Color	Gray
Degree of protection	IP20
Housing material	UL94V-0
Ambient temperature	-40°C ~+80°C
Altitude	⩽2000 m (amsl (above mean sea level))
Permissible humidity	30%~90%

4. Installation



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