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DC Surge Protection Device

DC SPD T2 Series

Leading Manufacturer Protects Solar Power Safety

Rev1.0 2022/09/02



DC SURGE PROTECTOR

Surge Protection Device T2 Series



Product Application

EDP SERIES SURGE PROTECTOR has reliable voltage protection level, super surge discharge ability and safety overload ability, used for lightning protection of DC system. This product is equipped with high energy MOV chip, when the system due to tight stroke or other reasons to lead to overvoltage, with nanosecond response speed to introduce the voltage to the earth, so as to protect the equipment.

Product Benefits

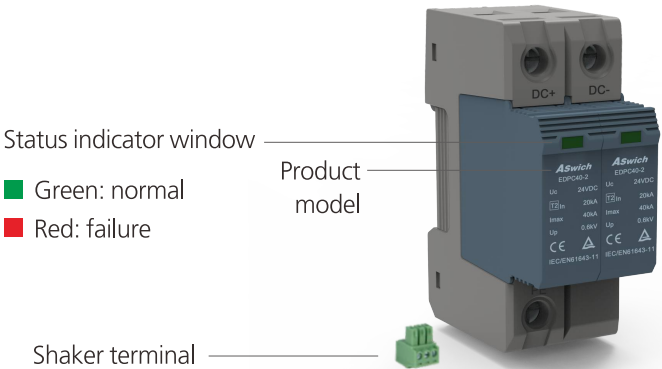
- Type2 DC power surge protectors
- From 24 to 220 Vdc DC network
- Imax: 40 kA
- Pluggable module
- Remote signaling option
- IEC 61643-11 compliance

Select Code

E	D	P	□	□	-	□	□
1	2	3	4	5	6	7	

Code	Name	Description
1	ASwisch brand	E
2	D	DC
3	Product Code	P: Surge Protector
4	Voltage	C:24VDC F:110VDC H:220VDC
5	Imax	40:40kA
6	Pole	2:2P
7	Remote signal	R: with RC Nil: with out RC

Appearance Introduction

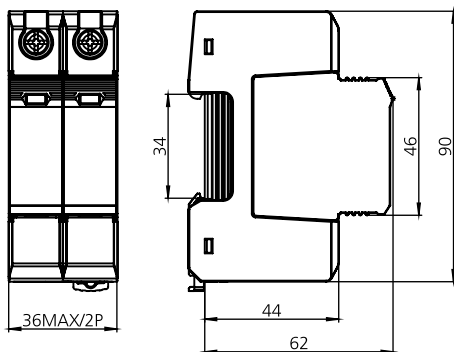


Surge Protection Device T2 Series

Technical Data

Product model		EDPC40-2 (R)	EDPF40-2 (R)	EDPH40-2 (R)
IEC Electrical				
Maximum Continuous Operating DC Voltage (DC+) - PE, (DC-) - PE	U_C	24VDC	110VDC	220VDC
Nominal Discharge Current (8/20 μ s)	I_n	20kA		
Total Discharge Current (8/20 μ s)	I_{Total}	40kA		
Maximum Discharge Current (8/20 μ s)	I_{max}	40kA		
Voltage Protection Level (DC+) - PE, (DC-) - PE	U_p	0.6kV	0.8kV	1.2kV
Response Time	t_A	<25ns		
Short-Circuit Current Rating	I_{SCP}	1000A		
Number of Ports		1		
Mechanical & Environmental				
Operating Temperature Range	T_a	-40°F to +158°F [-40°C to +70°C]		
Permissible Operating Humidity	RH	5%...95%		
Atmospheric pressure and altitude		80k Pa ... 106k Pa / -500m ... 2000m		
Terminal Screw Torque	M_{max}	39.9 lbf·in [2.0~2.5 N·m]		
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)		
Mounting		35 mm DIN Rail, EN 60715		
Degree Of Protection		IP20 (built-in)		
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0		
Thermal Protection		Yes		
Operating State / Fault Indication		Green ok / Red: failure		
Remote Contacts (RC)		Optional		
RC Switching Capacity		AC:250V / 0.5A;DC:250V / 0.1A;125V / 0.2A;75V / 0.5A		
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)		

Drawing size



Schematic Diagram

