PROJOY electric
– Switch To Safety! –

Surge Protector

PESP/PER Series (Standard)

Flame retardant material

High reliability

Diverse

-40℃~+70℃

CE

Select Code

DC SPD

PESP	–	a	b	c
Projoy DC SPD		Max. Continuous Operating Voltage	Usage Category	Pole
		DC 600V DC 1000V DC 1500V	T2 T1+T2	2P 3P

* The frame part is for selection only, not for product labeling

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AC SPD

PER	–	x	–	a	b	c
Projoy AC SPD		Nominal Discharge Current		Max. Continuous Operating Voltage	Usage Category	Pole
		C20: 20kA C30: 30kA C40: 40kA		AC 275V AC 385V AC 440V	T2 T1+T2	1P 2P 3P 4P

* The frame part is for selection only, not for product labeling

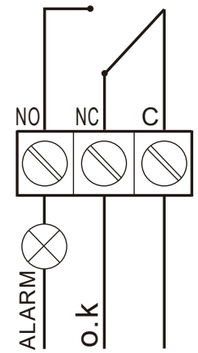
Attachment device

Failure and disengagement device

The surge protector is provided with a fail-safe device. When the protector breaks down due to overheating, the fail-safe detach device can automatically detach from the power grid and give an indication signal.When the protector is normal, the display window will show green, and after failure, the display window will show red.

Alarm remote signaling device

The protector can be made into a variety with remote signaling contacts. The remote signaling contacts have a set of normally open and normally closed contacts. When the protector is working normally, normally closed contacts are connected. If one or more modules of the protector fail, the contact will change from normally open to normally closed. Normally open contacts will work and send trouble information.



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Technical data

DC SPD	IEC 61643-31、EN 61643-31					
Wave Shape	T1：10/350μs T2：8/20μs					
Usage Category	T1+T2			T2		
Pole	2P	3P	3P	2P	2P/3P	3P
Nominal Discharge Current In	20kA			20kA		
Max. Discharge Current Imax	40kA			40kA		
Max. Impulse current limp	5kA			/		
Max. Continuous Operating Voltage Ucpv	600VDC	1000VDC	1500VDC	600VDC	1000VDC	1500VDC
Protection level Up	3.0kV	3.5kV	4.0KV	3.0kV	3.5kV	4.0KV
Operating Temperature	-40°C～70°C					
Response Time	⩽25ns					
Wiring capacity	Hard wire⩽35mm², Flexible wire 2.5~25mm²; Ultimate torque 3.5Nm					
Working instruction window	Green indicates: normal; Red indicates: damage and needs to be replaced immediately					
Alarm indication output	Optional function; Terminal 11 is the common Terminal, 14 is normally open, and 12 is normally closed; working voltage⩽125V, switching current⩽1A; wiring capacity: 0.5~1.5mm²					
Protection Rating	IP20					
Mounting	Symmetrical rail 35 mm					
Certification	CE					

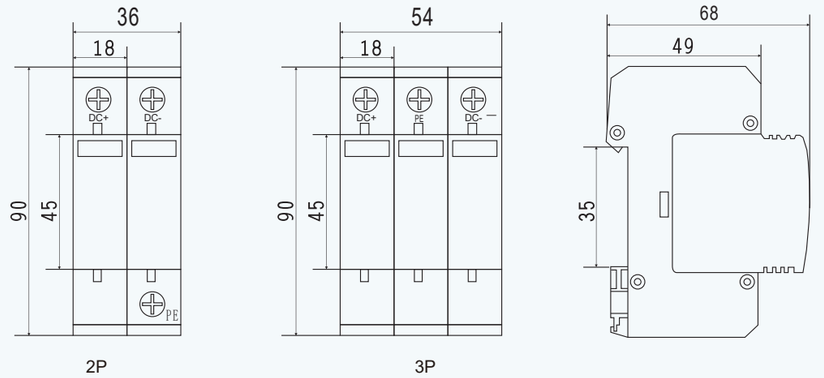
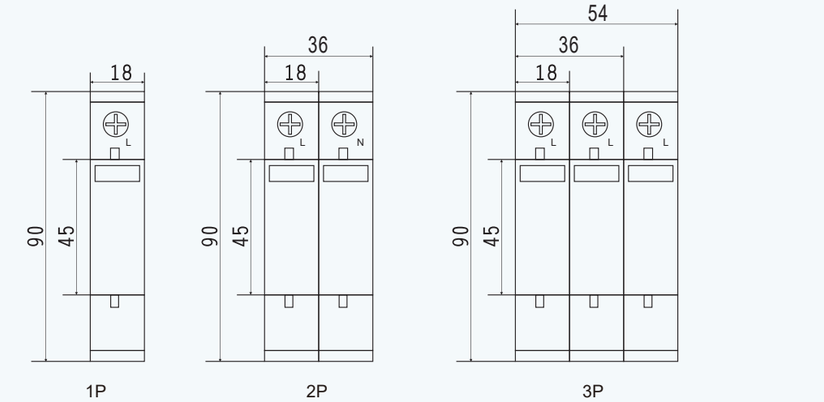
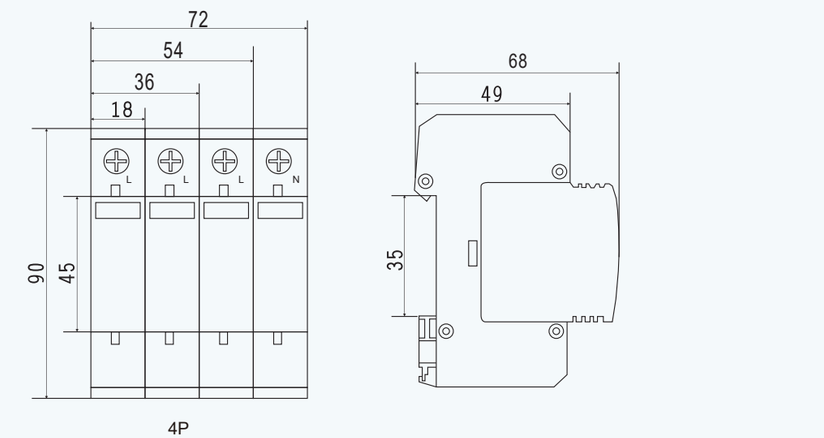
Notes:
1. Class T1 SPD is mainly used in the main incoming pannel of the power distribution system;
   T2 type SPD is mainly used in distribution box of power distribution system;
2. T1 has an Iimp value, T2 has an In value, and T1+T2 has both Iimp and In values.

AC SPD	IEC 61643-11、EN 61643-11					
Wave Shape	T1: 10/350μs T2: 8/20μs					
Model	PER-C20		PER-C30		PER-C40	
Usage Category	T1+T2	T2	T1+T2	T2	T1+T2	T2
Pole	1P/ 2P/ 3P/ 4P					
Nominal Discharge Current In	20kA	20kA	30kA	30kA	40kA	40kA
Max. Discharge Current Imax	40kA	40kA	60kA	60kA	80kA	80kA
Max. Impulse current limp	5kA	/	5kA	/	5kA	/
Max. Continuous Operating Voltage Uc	275V/385V/440V		275V/385V/440V		275V/385V/440V	
Protection level Up	1.5kV/1.8kV/1.8kV		1.8kV/2.0kV/2.2kV		2.2kV/2.4kV/2.5kV	
Operating Temperature	-40°C～70°C					
Response Time	⩽25ns					
Wiring capacity	Hard wire⩽35mm², Flexible wire 2.5~25mm²; Ultimate torque 3.5Nm					
Working instruction window	Green indicates: normal; Red indicates: damage and needs to be replaced immediately					
Alarm indication output	Optional function; Terminal 11 is the common Terminal, 14 is normally open, and 12 is normally closed; working voltage⩽125V, switching current⩽1A; wiring capacity: 0.5~1.5mm²					
Protection Rating	IP20					
Mounting	Symmetrical rail 35 mm					
Certification	CE					

Notes:
1. Class T1 SPD is mainly used in the main incoming pannel of the power distribution system;
   T2 type SPD is mainly used in distribution box of power distribution system;
2. T1 has an Iimp value, T2 has an In value, and T1+T2 has both Iimp and In values;
3. 1+NPE and 3+NPE are recommended for the charging pile industry.

Dimensions

DC SPD



AC SPD