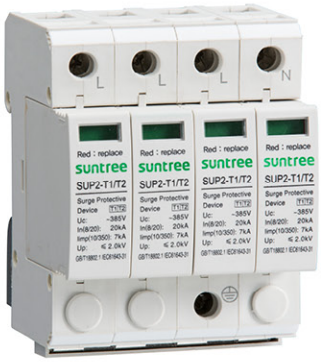
Surge Protection

SUP2-T1/T2



The meaning of model code establishment

S	UP	2	□	/	□	□	□
Company Code	Surge Protector	Design Code	Maximum Discharge Current(kA)		Number of Poles(1/2/3/4P)	Max duration Operating Voltage	"X" remote Signal contact

Overview

SUP2 series surge protector is designed as the indoor power supply–to–port surge protector type with voltage limitation, which is suitable for the TT, IT, TN–S, TN–C, TN–C–S supply systems with rated current to 50/60 Hz AC, rated voltage to 230/480V and below. The SUP can be used in both T1 and T2 protection in L/N–PE seperately and it's suitable in protecting low votlage network and diverse electrical equipment and control system. When the suppression of transient overvoltage is higher than the withstand impulse voltage(Uimp) of the equipment, the SUP will release the surge energy and limit the voltage from overvoltage of surge in order to protect the system circuit and equipments. The products are all in accordance with standards: GB/T 18802.1, IEC 61643–11.

Application

Fail–off device: The SPD module is equipped with a fail–off device. When the protector fails due to overheating or breakdown, the fail–off device can automatically detach it from the power grid and give an indication signal. The label shows green when the protector is normal, and red when it fails to separate.
Remote signal contact: SPD can be made into a product with remote signal contact. If one or more modules of the protector fail, the contact will be closed and a fault message will be sent.

Selection Principles

- The voltage applied between the two terminals of the SPD shall not be greater than the maximum continuous operating voltage(Ue) of the SPD.
- The voltage protection level of the surge protector shall be less than the voltage impact limit of the protected equipment.
- Choose the corresponding specifications according to the different grounding system and protection mode

SUP2-T1/T2 surge protector

Electrical technical parameters

Classification / Items		SUP2							
Number of Poles		1P、2P、1P+N、3P、3P+N、4P							
Rated working voltage Un(V)		230/480(Special voltage can be customized)							
Nominal discharge current In(8/20μs)kA		20				30			
Max-Discharge current (Imax)(8/20μs) kA		40				65			
Impulse discharge current (10/350US)		7KA				7KA			
Maximum continuous working voltage Uc(V)		275	320	385	420	275	320	385	420
Protection Level (Up) kV		<2.0	<2.0	<2.0	<2.0	<2.2	<2.2	<2.2	<2.2
Front Fuse		80AgL				125AgL			
Response Time		<20							
Leakage current 0.75u ImA(Uc)		<20μA							
Classified test		Degree Ⅱ							
Protection class		IP 20							
Operating Environment		-40℃~+80℃							
Insulation shell		PBT/PA66							
Flame Retardant Grade (in accordance to the UL94)		VO							
Installation type		35mm Standard Din rail							
Color of Shell		Red							
Recommended Fuse or Circuit Breaker (A)		40~63							
Recommended Wiring capacity (mm)	Phase Line, Zero Line	1.5~35 (Hard wire)							
	Earth Line	1.5-35 Earth cable							

Working and Installation Conditions

Ambient Air Temperature	Normal range: not higher than +40℃ and not lower than -5℃; Extended range: not higher than +80℃ and not lower than -40℃.
Altitude	The altitude of installation site cannot exceed 2000 meters.
Humidity	30% to 90% in indoor temperature
Pollution Level	Level 3
Installation Conditions	In a non-explosive medium, and there is no gas and dust (including conductive dust) that can corrode metals and` damage insulation in the medium

Dimension