



SANERGY

PRODUCT GUIDE

Surge Protective Devices

www.sanergy-electric.com



I. Overview

The Sanergy SPD is a state-of-the-art solution for protecting electrical systems from the damaging effects of surges. With its high surge handling capability, flexible voltage options, and innovative design features, it provides reliable and comprehensive protection suitable for a wide range of applications.



II. SE-T1+T2-AC



- Compact Surge protector, 2-pole
- Conductivity per pole: $I_n = 20 \text{ kA}$; $I_{max} = 50 \text{ kA}$
- Safe disconnect device
- Pluggable protection module
- Remote signalling (Optional)
- IEC 61643-11/EN61643-11 standard
- Protective Elements: High Energy MOV

II. SE-T1+T2-AC

Technical Data

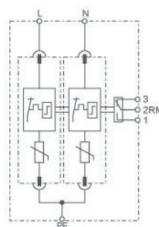
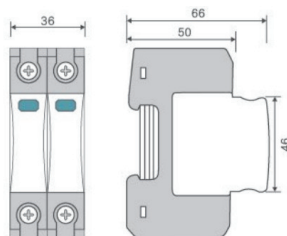
SPD Type		Type I+2, Class I+II			
AC system		TN			
Nominal voltage (a.c.)	U _n	220V	300V	380V	400V
Max. continuous operating voltage (a.c.)	U _c	275V	320V	385V	440V
Nominal discharge current (8/20μs)	I _n	20kA			
Max. discharge current (8/20μs)	I _{max}	50kA			
Lightning impulse current (10/350μs)	I _{imp}	7kA			
Protection level	U _p	≤1.5kV	≤1.6kV	≤1.8kV	≤2.0kV
Response time	τ _A	≤25ns			
Temporary overvoltage (TOV) Withstand - 5 sec	UT	580V	580V	580V	580V
Temporary overvoltage (TOV) Disconnection- 120 mn	UT	440V	440V	440V	770V
Admissible short-circuit current	I _{scrr}	10 kA			
Max. backup fuse		125A gL/gG			
Protection mode(s)		L/PE and N/PE			

Mechanical Data

Technology	MOV (Metal Oxide Varistors)
SPD configuration	Three Phase
Plugable	Yes
Mounting	35mm DIN rail
Housing material	Thermoplastic, UL94 V-0
Operating temperature	-40°C...+80°C
Protection rating	IP20
Operating state / fault indication	Green / Red
Remote Signaling	Optional
Wiring for remote signaling	Max. 1.5mm solid/flexible
Max. Voltage / Current for remote signaling	250V/0.1A; 125V/0.2A; 75V/0.5A
Standards compliance	IEC 61643-11 / EN 61643-11
Certification	CE, RoHS, TUV

Packing Data

Weight(1 piece)	380g
Package Quantity	30pcs/ctn
CTN Size	39.6*30.6*17cm



III. SE-T1+T2-AC/4P



- Compact Surge protector,4-pole
- Conductivity per pole: $I_n=20$ kA; $I_{max}=50$ kA
- Safe disconnect device
- Pluggable protection module
- Remote signalling(Optional)
- IEC 61643-11/EN61643-11 standard
- Protective Elements:High Energy MOV

III. SE-T1+T2-AC/4P

Technical Data

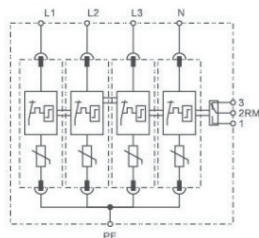
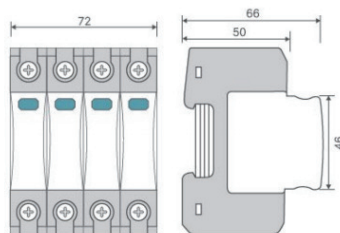
SPD Type		Type 1+2;Class I+II			
AC system		TN-S			
Nominal voltage (a.c.)	U _n	220V	300V	380V	400V
Max. continuous operating voltage (a.c.)	U _c	275V	320V	385V	440V
Nominal discharge current (8/20μs)	I _n	20kA			
Max. discharge current (8/20μs)	I _{max}	50kA			
Lightning impulse current (10/350μs)	I _{imp}	7kA			
Protection level	U _p	≤1.5kV	≤1.6kV	≤1.8kV	≤2.0kV
Response time	t _A	≤25ns			
Temporary overvoltage (TOV) Withstand - 5 sec	UT	580V	580V	580V	580V
Temporary overvoltage (TOV) Disconnection- 120 mn	UT	440V	440V	440V	770V
Admissible short-circuit current	I _{scrc}	10 kA			
Max. backup fuse		125A gL/gG			
Protection mode(s)		L/PE and N/PE			

Mechanical Data

Technology	MOV (Metal Oxide Varistors)
SPD configuration	Three Phase
Plugable	Yes
Mounting	35mm DIN rail
Housing material	Thermoplastic, UL94 V-0
Operating temperature	-40°C...+80°C
Protection rating	IP20
Operating state / fault indication	Green / Red
Remote Signaling	Optional
Wiring for remote signaling	Max. 1.5mm solid/flexible
Max. Voltage / Current for remote signaling	250V/0.1A; 125V/0.2A; 75V/0.5A
Standards compliance	IEC 61643-11 / EN 61643-11
Certification	CE, RoHS, TUV

Packing Data

Weight(1 piece)	450g
Package Quantity	30pcs/ctn
CTN Size	39.6*30.6*17cm



IV. SE-T2-AC



- Compact Surge protector,1-pole and 2-pole
- Conductivity per pole: $I_n=20\text{ kA}$; $I_{max}=40\text{ kA}$
- Safe disconnect device
- Pluggable protection module
- Remote signalling(Optional)
- IEC 61643-11/EN61643-11 standard
- Protective Elements:High Energy MOV

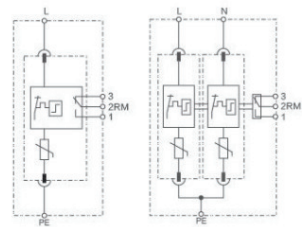
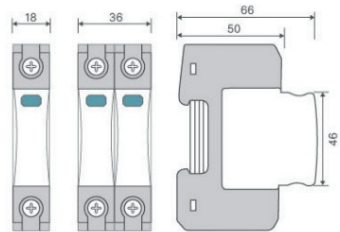
IV. SE-T2-AC

Technical Data

SPD Type	Type 2, Class II/B				
AC system	TN				
Nominal voltage (a.c.)	U _n	220V	300V	380V	400V
Max. continuous operating voltage (a.c.)	U _c	275V	320V	385V	440V
Nominal discharge current (8/20μs)	I _n	20kA			
Max. discharge current (8/20μs)	I _{max}	40kA			
Protection level	U _p	≤1.5kV	≤1.6kV	≤1.8kV	≤2.0kV
Response time	t _A	≤25ns			
Temporary overvoltage (TOV) Characteristics - 5 sec	U _T	580V	580V	580V	580V
Temporary overvoltage (TOV) Characteristics - 120 mn	U _T	440V	440V	440V	770V
Admissible short-circuit current	I _{scrc}	10 kA			
Max. backup fuse	125A gL/gG				
Protection mode(s)	L/PE and N/PE				

Mechanical Data

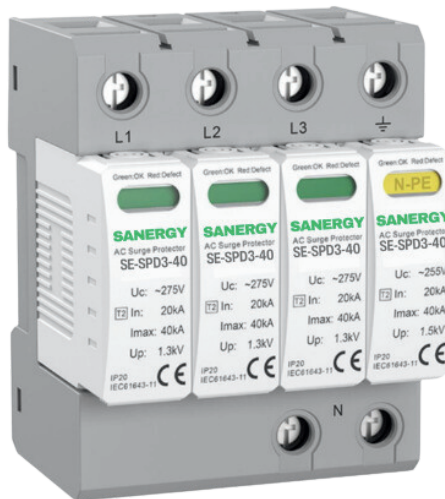
Technology	MOV (Metal Oxide Varistors)
SPD configuration	Single Phase
Plugable	Yes
Mounting	35mm DIN rail
Housing material	Thermoplastic, UL94 V-0
Operating temperature	-40°C...+80°C
Protection rating	IP20
Operating state / fault indication	Green / Red
Remote Signaling	Optional
Wiring for remote signaling	Max. 1.5mm solid/flexible
Max. Voltage / Current for remote signaling	250V/0.1A; 125V/0.2A; 75V/0.5A
Standards compliance	IEC 61643-11 / EN 61643-11
Certification	CE, RoHS, TUV



Packing Data

Weight(1 piece)	130/230g
Package Quantity	30/60 pcs/ctn
CTN Size	39.6*30.6*17cm

V. SE-T2-AC/4P



- 1.Compact Surge protector,4-pole
- 2.Conductivity per pole:In=20 kA;Imax=40 kA
- 3.Protection modes -common and/or differential
- 4.Safe disconnect device
- 5.Energetically coordinated
- 6.Pluggable protection module
- 7.Remote signalling(Optional)
- 8.IEC 61643-11/EN 61643-11 certified
- 9.Protective Elements:High Energy MOV

V. SE-T2-AC/4P

Technical Data

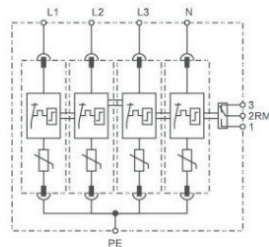
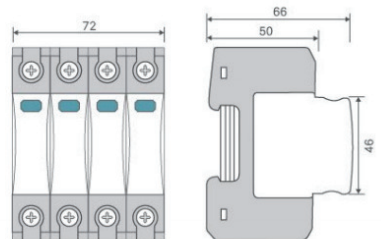
SPD Type	Type 2, Class II/B				
AC system	TN, TN-C, TN-S				
Nominal voltage (a.c.)	Un	220V	400V		
Max. continuous operating voltage (a.c.)	Uc	275V	320V	385V	440V
Nominal discharge current	In	20kA			
Max. discharge current	I _{max}	40kA			
Protection level (8/20 μ s)	Up	≤1.5kV			
Response time	tA	≤100ns			
Temporary overvoltage (TOV)	UT	1200 V/200 ms withstand			
Admissible short-circuit current	I _{sc}	10kA			
Protection mode(s)	L/PE and N/PE				

Mechanical Data

Technology	MOV (Metal Oxide Varistors)
SPD configuration	Single Phase
Plugable	Yes
Mounting	35mm DIN rail
Housing material	Thermoplastic, UL94 V-0
Operating temperature	-40°C...+80°C
Protection rating	IP20
Operating state / fault indication	Green / Red
Remote Signaling	Optional
Wiring for remote signaling	Max. 1.5mm solid/flexible
Max. Voltage/Current for remote signaling	250V/0.1A; 125V/0.2A; 75V/0.5A
Standards compliance	IEC 61643-11 / EN 61643-11
Certification	CE, RoHS, TUV

Mechanical Data

Weight (1 piece)	120g
Package Quantity	120pcs/ctn
CTN Size	39.6*30.6*17cm



VI. SE-T2-DC



1. Compact Surge protector, 2-pole
2. Conductivity per pole: $I_n = 20 \text{ kA}$; $I_{max} = 40 \text{ kA}$
3. Safe disconnect device
4. Pluggable protection module
5. Remote signalling (Optional)
6. IEC 61643-11/EN61643-11 standard
7. Protective Elements: High Energy MOV

VI. SE-T2-DC

Technical Data

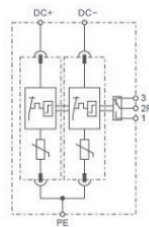
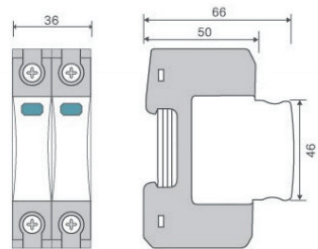
SPD Type	Type 2, Class II/B				
DC system	Direct current				
Max. continuous operating voltage (d.c.)	Uc	500V	600V	800V	1000V
Nominal discharge current (8/20µs)	In	20kA			
Max. discharge current (8/20µs)	I _{max}	40kA			
Total discharge current (8/20µs)	I _{total}	40kA			
Protection level	Up	≤2.8kV	≤3.0kV	≤3.2kV	≤4.0kV
Response time	tA	≤25ns			
Admissible short-circuit current	I _{scr}	10 kA			
Max. backup fuse	125A gL/gG				
Protection mode(s)	DC+/PE and DC-/PE				

Mechanical Data

Technology	MOV (Metal Oxide Varistors)
SPD configuration	Type 2 SPD
Plugable	Yes
Mounting	35mm DIN rail
Housing material	Thermoplastic, UL94 V-0
Operating temperature	-40°C...+80°C
Protection rating	IP20
Operating state / fault indication	Green / Red
Remote Signaling	Optional
Wiring for remote signaling	Max. 1.5mm solid/flexible
Max. Voltage / Current for remote signaling(d.c.)	250V/0.1A; 125V/0.2A; 75V/0.5A
Standards compliance	IEC 61643-31 / EN 61643-31
Certification	CE, RoHS, TUV

Packing Data

Weight(1 piece)	280g
Package Quantity	60pcs/ctn
CTN Size	39.6*30.6*17cm



VII. SE-T2-DC/3P



- Compact Surge protector,3-pole
- Conductivity per pole: $I_n=20\text{ kA}$; $I_{max}=40\text{ kA}$
- Safe disconnect device
- Pluggable protection module
- Remote signalling(Optional)
- IEC 61643-11/EN61643-11 standard
- Protective Elements:High Energy MOV

VII. SE-T2-DC/3P

Technical Data

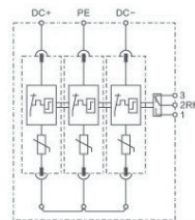
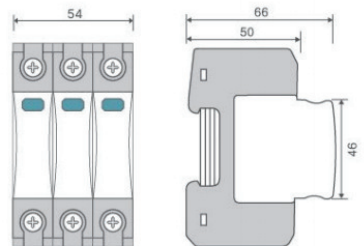
SPD Type	Type 2; Class II			
DC system	Direct current			
Max. continuous operating voltage (d.c.)	U _{cpv}	800V	1000V	1200V
Nominal discharge current(8/20μs)	I _n	20kA		
Max. discharge current (8/20μs)	I _{max}	40kA		
Total discharge current (8/20μs)	I _{total}	40kA		
Protection level	U _p	≤3.2kV	≤4.0kV	≤4.4kV
Response time	t _A	≤25ns		
Admissible short-circuit current	I _{scrr}	10 kA		
Max. backup fuse	125A gL/gG			
Protection mode(s)	DC+/PE and DC-/PE			

Mechanical Data

Technology	MOV (Metal Oxide Varistors)
SPD configuration	Type 2 SPD
Plugable	Yes
Mounting	35mm DIN rail
Housing material	Thermoplastic, UL94 V-0
Operating temperature	-40°C...+80°C
Protection rating	IP20
Operating state / fault indication	Green / Red
Remote Signaling	Optional
Wiring for remote signaling	Max. 1.5mm solid/flexible
Max. Voltage / Current for remote signaling(d.c.)	250V/0.1A; 125V/0.2A; 75V/0.5A
Standards compliance	IEC 61643-31 / EN 61643-31
Certification	CE, RoHS, TUV

Packing Data

Weight(1 piece)	380g
Package Quantity	30pcs/ctn
CTN Size	39.6*30.6*17cm



VIII. SE-T1+T2-DC



- Compact Surge protector, 3-pole
- Conductivity per pole: $I_n = 20 \text{ kA}$; $I_{limp} = 7 \text{ kA}$
- Safe disconnect device
- Pluggable protection module
- Remote signalling (Optional)
- IEC 61643-31/EN61643-31 standard
- Protective Elements: High Energy MOV

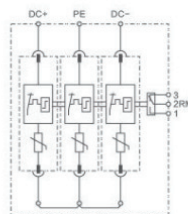
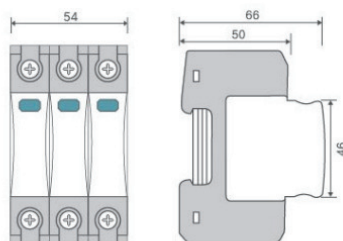
VIII. SE-T1+T2-DC

Technical Data

SPD Type	Type 1+2; Class I+II			
DC system	Direct current			
Max. continuous operating voltage (d.c.)	U _{cpv}	800V	1000V	1200V
Nominal discharge current (8/20μs)	I _n	20kA		
Max. discharge current (8/20μs)	I _{max}	50kA		
Lightning impulse current (10/350μs)	I _{imp}	7kA		
Protection level	U _p	≤4.0kV	≤4.5kV	≤5.0kV
Response time	t _A	≤25ns		
Admissible short-circuit current	I _{scsr}	10 kA		
Max. backup fuse	125A gL/gG			
Protection mode(s)	DC+/-PE and DC-/PE			

Mechanical Data

Technology	MOV (Metal Oxide Varistors)
SPD configuration	Type 1+2 SPD
Plugable	Yes
Mounting	35mm DIN rail
Housing material	Thermoplastic, UL94 V-0
Operating temperature	-40°C...+80°C
Protection rating	IP20
Operating state / fault indication	Green / Red
Remote Signaling	Optional
Wiring for remote signaling	Max. 1.5mm solid/flexible
Max. Voltage / Current for remote signaling (d.c.)	250V/0.1A; 125V/0.2A; 75V/0.5A
Standards compliance	IEC 61643-31 / EN 61643-31
Certification	CE, RoHS, TUV



Packing Data

Weight (1 piece)	400g
Package Quantity	30pcs/ctn
CTN Size	39.6*30.6*17cm

SANERGY

**Your Electrical Journey
Begins Here**

Thank you for exploring our collection. Each piece is crafted with passion and precision.

www.sanergy-electric.com