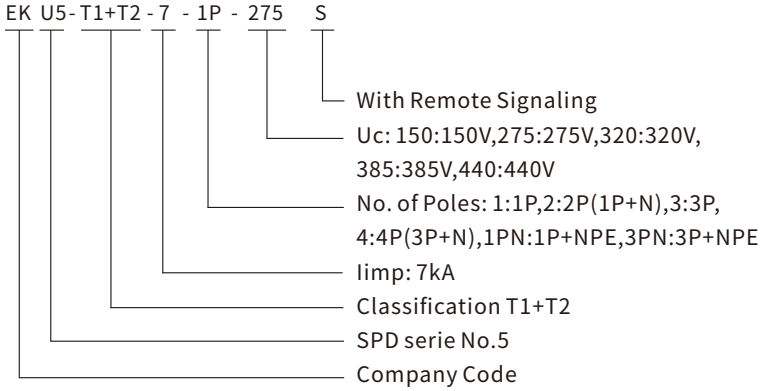


Surge Protection Solutions Catalog

» Always for your safety



Product Selection Guide



EKU5-T1+T2-7
2P(1P+N)



EKU5-T1+T2-7
1P+NPE



EKU5-T1+T2-7
3P

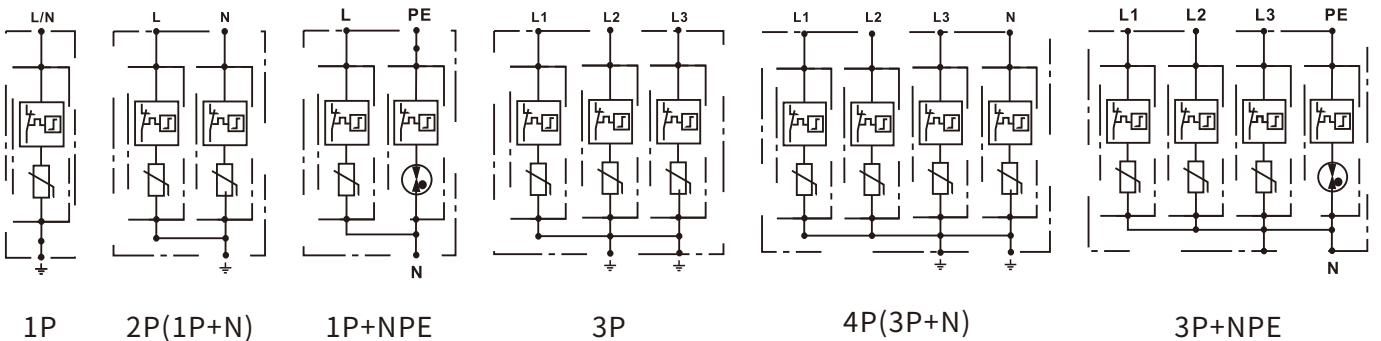


EKU5-T1+T2-7
4P(3P+N)



EKU5-T1+T2-7
3P+NPE

Basic circuit diagram



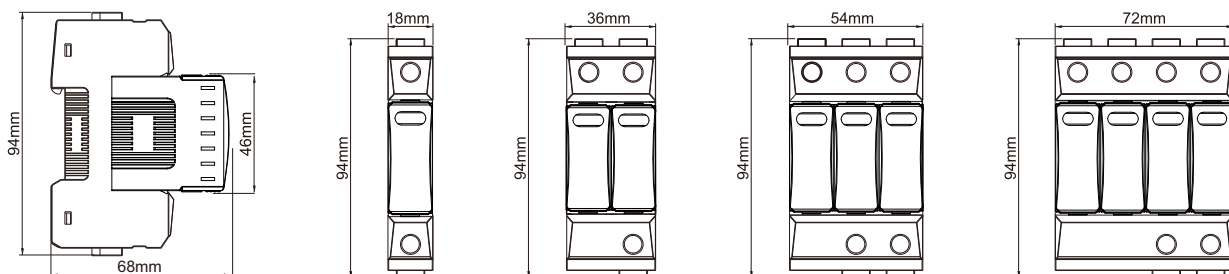
SPD Type Reference List

No. of Poles	Max. Continuous Operating AC Voltage				
	150V	275V	320V	385V	440V
1P	EKU5-T1+T2-7-1P150	EKU5-T1+T2-7-1P275	EKU5-T1+T2-7-1P320	EKU5-T1+T2-7-1P385	EKU5-T1+T2-7-1P440
2P(1P+N)	EKU5-T1+T2-7-2P150	EKU5-T1+T2-7-2P275	EKU5-T1+T2-7-2P320	EKU5-T1+T2-7-2P385	EKU5-T1+T2-7-2P440
3P	EKU5-T1+T2-7-3P150	EKU5-T1+T2-7-3P275	EKU5-T1+T2-7-3P320	EKU5-T1+T2-7-3P385	EKU5-T1+T2-7-3P440
4P(3P+N)	EKU5-T1+T2-7-4P150	EKU5-T1+T2-7-4P275	EKU5-T1+T2-7-4P320	EKU5-T1+T2-7-4P385	EKU5-T1+T2-7-4P440
1P+NPE	EKU5-T1+T2-7-1PN150	EKU5-T1+T2-7-1PN275	EKU5-T1+T2-7-1PN320	EKU5-T1+T2-7-1PN385	EKU5-T1+T2-7-1PN440
3P+NPE	EKU5-T1+T2-7-3PN150	EKU5-T1+T2-7-3PN275	EKU5-T1+T2-7-3PN320	EKU5-T1+T2-7-3PN385	EKU5-T1+T2-7-3PN440
With Remote Signaling					
1P	EKU5-T1+T2-7-1P150S	EKU5-T1+T2-7-1P275S	EKU5-T1+T2-7-1P320S	EKU5-T1+T2-7-1P385S	EKU5-T1+T2-7-1P440S
2P(1P+N)	EKU5-T1+T2-7-2P150S	EKU5-T1+T2-7-2P275S	EKU5-T1+T2-7-2P320S	EKU5-T1+T2-7-2P385S	EKU5-T1+T2-7-2P440S
3P	EKU5-T1+T2-7-3P150S	EKU5-T1+T2-7-3P275S	EKU5-T1+T2-7-3P320S	EKU5-T1+T2-7-3P385S	EKU5-T1+T2-7-3P440S
4P(3P+N)	EKU5-T1+T2-7-4P150S	EKU5-T1+T2-7-4P275S	EKU5-T1+T2-7-4P320S	EKU5-T1+T2-7-4P385S	EKU5-T1+T2-7-4P440S
1P+NPE	EKU5-T1+T2-7-1PN150S	EKU5-T1+T2-7-1PN275S	EKU5-T1+T2-7-1PN320S	EKU5-T1+T2-7-1PN385S	EKU5-T1+T2-7-1PN440S
3P+NPE	EKU5-T1+T2-7-3PN150S	EKU5-T1+T2-7-3PN275S	EKU5-T1+T2-7-3PN320S	EKU5-T1+T2-7-3PN385S	EKU5-T1+T2-7-3PN440S

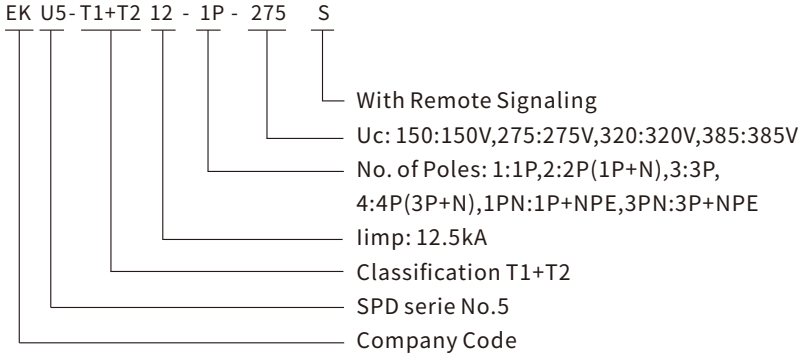
Technical Data

SPD classification according to IEC/EN61643-11		T1+T2	T1+T2	T1+T2	T1+T2	T1+T2
Max. continuous operating a.c.voltage	Uc	150V	275V	320V	385V	440V
Max. continuous operating a.c.voltage	Uc(N-PE)	255V	255V	255V	255V	255V
Lightning impulse current (10/350µs)	Iimp	7kA	7kA	7kA	7kA	7kA
Norminal discharge current (8/20µs)	In	25kA	25kA	25kA	25kA	25kA
Maximum discharge current (8/20µs)	I _{max}	50kA	50kA	50kA	50kA	50kA
Voltage protection level	Up	≤1.2kV	≤1.4kV	≤1.6kV	≤1.8kV	≤2.0kV
Voltage protection level 5kA	Up	≤1.0kV	≤1.2kV	≤1.4kV	≤1.5kV	≤1.6kV
Voltage protection level	Up(N-PE)	≤1.5kV	≤1.5kV	≤1.5kV	≤1.5kV	≤1.5kV
Max. backup fuse				160A gL		
Response time	tA			≤25ns		
Response time	tA(N-PE)			≤100ns		
Operating temperature range	Tu			-40°C~80°C		
Operating State/Fault Indication				Green/Red		
Cross-section area (Min.)				4mm ²		
Cross-section area (Max.)				35mm ²		
For mounting on				35mm Din rail		
Enclosure material				Thermal Plastic UL94-V0		
Degree of Protection				IP20		
No. of Poles				1P, 2P(1P+N), 3P, 4P(3P+N), 1P+NPE, 3P+NPE		

Overall and Installation Dimension(mm)



Product Selection Guide



EKU5-T1+T2-12
2P(1P+N)

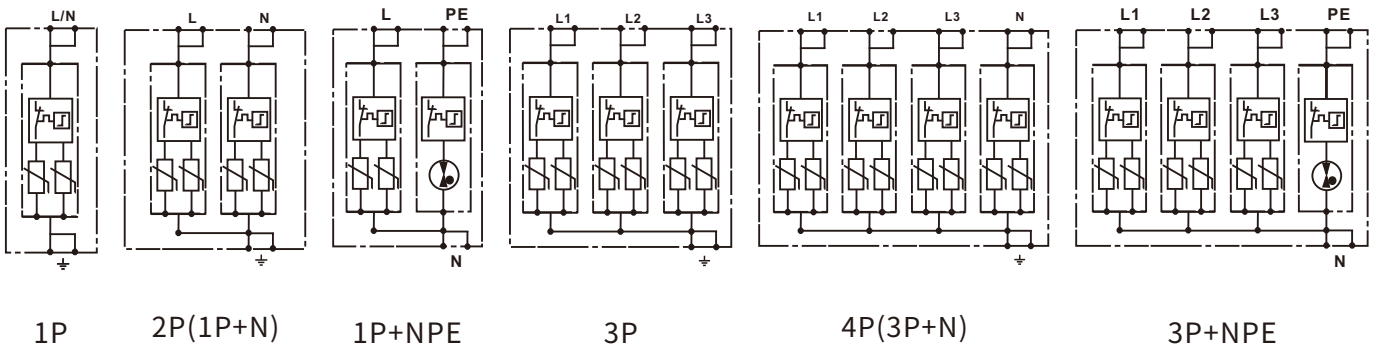
EKU5-T1+T2-12
1P+NPE

EKU5-T1+T2-12
3P

EKU5-T1+T2-12
4P(3P+N)

EKU5-T1+T2-12
3P+NPE

Basic circuit diagram



SPD Type Reference List

No. of Poles	Max. Continuous Operating AC Voltage			
	150V	275V	320V	385V
1P	EKU5-T1+T2-12-1P150	EKU5-T1+T2-12-1P275	EKU5-T1+T2-12-1P320	EKU5-T1+T2-12-1P385
2P(1P+N)	EKU5-T1+T2-12-2P150	EKU5-T1+T2-12-2P275	EKU5-T1+T2-12-2P320	EKU5-T1+T2-12-2P385
3P	EKU5-T1+T2-12-3P150	EKU5-T1+T2-12-3P275	EKU5-T1+T2-12-3P320	EKU5-T1+T2-12-3P385
4P(3P+N)	EKU5-T1+T2-12-4P150	EKU5-T1+T2-12-4P275	EKU5-T1+T2-12-4P320	EKU5-T1+T2-12-4P385
1P+NPE	EKU5-T1+T2-12-1PN150	EKU5-T1+T2-12-1PN275	EKU5-T1+T2-12-1PN320	EKU5-T1+T2-12-1PN385
3P+NPE	EKU5-T1+T2-12-3PN150	EKU5-T1+T2-12-3PN275	EKU5-T1+T2-12-3PN320	EKU5-T1+T2-12-3PN385

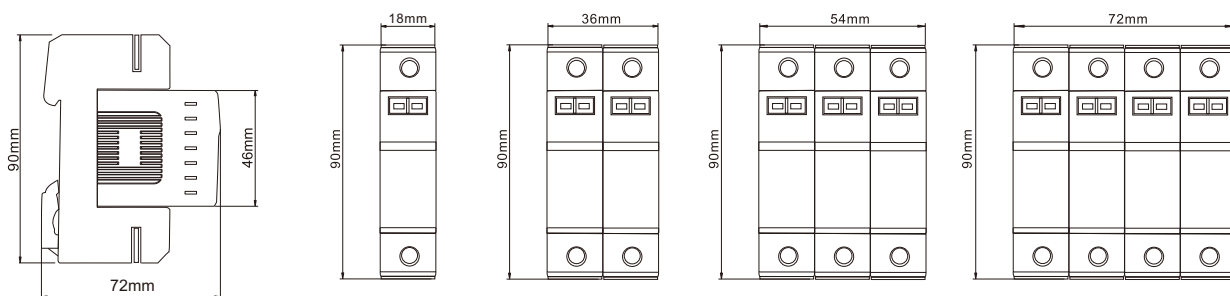
With Remote Signaling

1P	EKU5-T1+T2-12-1P150S	EKU5-T1+T2-12-1P275S	EKU5-T1+T2-12-1P320S	EKU5-T1+T2-12-1P385S
2P(1P+N)	EKU5-T1+T2-12-2P150S	EKU5-T1+T2-12-2P275S	EKU5-T1+T2-12-2P320S	EKU5-T1+T2-12-2P385S
3P	EKU5-T1+T2-12-3P150S	EKU5-T1+T2-12-3P275S	EKU5-T1+T2-12-3P320S	EKU5-T1+T2-12-3P385S
4P(3P+N)	EKU5-T1+T2-12-4P150S	EKU5-T1+T2-12-4P275S	EKU5-T1+T2-12-4P320S	EKU5-T1+T2-12-4P385S
1P+NPE	EKU5-T1+T2-12-1PN150S	EKU5-T1+T2-12-1PN275S	EKU5-T1+T2-12-1PN320S	EKU5-T1+T2-12-1PN385S
3P+NPE	EKU5-T1+T2-12-3PN150S	EKU5-T1+T2-12-3PN275S	EKU5-T1+T2-12-3PN320S	EKU5-T1+T2-12-3PN385S

Technical Data

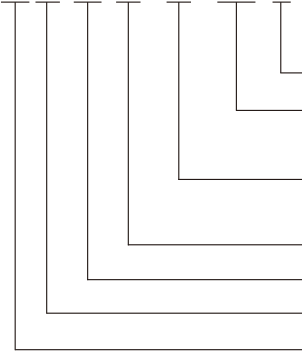
SPD classification according to IEC/EN61643-11		T1+T2	T1+T2	T1+T2	T1+T2
Max. continuous operating a.c.voltage	Uc	150V	275V	320V	385V
Max. continuous operating a.c.voltage	Uc(N-PE)	255V	255V	255V	255V
Lightning impulse current (10/350µs)	Iimp	12.5kA	12.5kA	12.5kA	12.5kA
Norminal discharge current (8/20µs)	In	30kA	30kA	30kA	30kA
Maximum discharge current (8/20µs)	I _{max}	60kA	60kA	60kA	60kA
Voltage protection level	Up	≤1.2kV	≤1.5kV	≤1.6kV	≤1.8kV
Voltage protection level 5kA	Up	≤0.6kV	≤1.0kV	≤1.2kV	≤1.3kV
Voltage protection level	Up(N-PE)	≤1.5kV	≤1.5kV	≤1.5kV	≤1.5kV
Max. backup fuse				160A gL	
Response time	tA			≤25ns	
Response time	tA(N-PE)			≤100ns	
Operating temperature range	Tu			-40°C~80°C	
Operating State/Fault Indication				Green/Red	
Cross-section area (Min.)				4mm ²	
Cross-section area (Max.)				35mm ²	
For mounting on				35mm Din rail	
Enclosure material				Thermal Plastic UL94-V0	
Degree of Protection				IP20	
No. of Poles				1P, 2P(1P+N), 3P, 4P(3P+N), 1P+NPE, 3P+NPE	

Overall and Installation Dimension(mm)



Product Selection Guide

EK U5- T2 - 20 - 1P - 275 S



With Remote Signaling
 Uc: 150:150V,275:275V,320:320V,
 385:385V,440:440V
 No. of Poles: 1:1P,2:2P(1P+N),3:3P,
 4:4P(3P+N),1PN:1P+NPE,3PN:3P+NPE
 I.max: 20kA
 Classification T2
 SPD serie No.5
 Company Code



EKU5-T2-20
2P(1P+N)



EKU5-T2-20
1P+NPE



EKU5-T2-20
3P

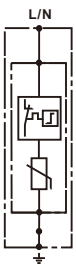


EKU5-T2-20
4P(3P+N)

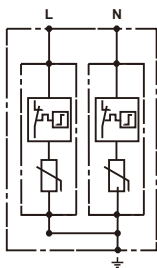


EKU5-T2-20
3P+NPE

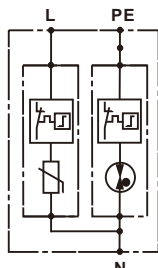
Basic circuit diagram



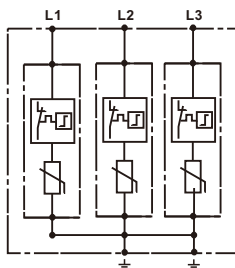
1P



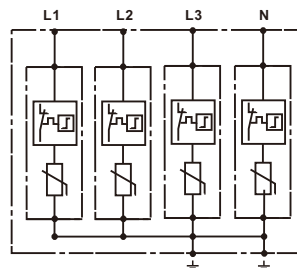
2P



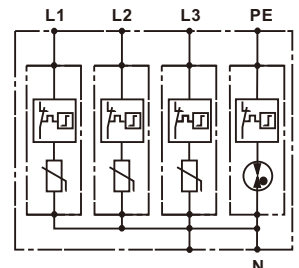
1P+NPE



3P



4P(3P+N)



3P+NPE

SPD Type Reference List

No. of Poles	Max. Continuous Operating AC Voltage				
	150V	275V	320V	385V	440V
1P	EKU5-T2-20-1P150	EKU5-T2-20-1P275	EKU5-T2-20-1P320	EKU5-T2-20-1P385	EKU5-T2-20-1P440
2P(1P+N)	EKU5-T2-20-2P150	EKU5-T2-20-2P275	EKU5-T2-20-2P320	EKU5-T2-20-2P385	EKU5-T2-20-2P440
3P	EKU5-T2-20-3P150	EKU5-T2-20-3P275	EKU5-T2-20-3P320	EKU5-T2-20-3P385	EKU5-T2-20-3P440
4P(3P+N)	EKU5-T2-20-4P150	EKU5-T2-20-4P275	EKU5-T2-20-4P320	EKU5-T2-20-4P385	EKU5-T2-20-4P440
1P+NPE	EKU5-T2-20-1PN150	EKU5-T2-20-1PN275	EKU5-T2-20-1PN320	EKU5-T2-20-1PN385	EKU5-T2-20-1PN440
3P+NPE	EKU5-T2-20-3PN150	EKU5-T2-20-3PN275	EKU5-T2-20-3PN320	EKU5-T2-20-3PN385	EKU5-T2-20-3PN440

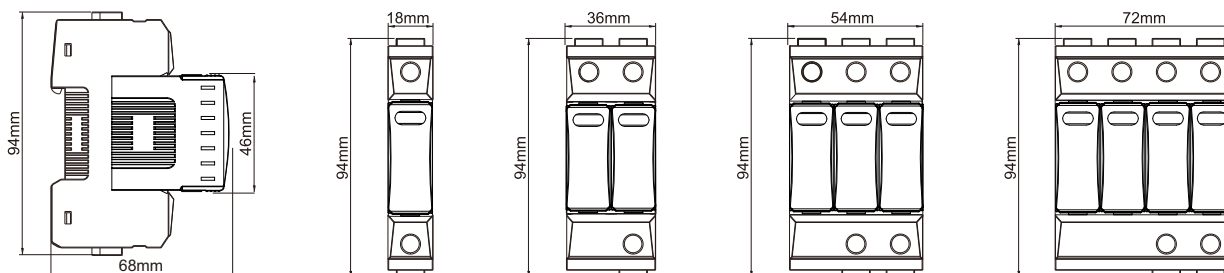
With Remote Signaling

1P	EKU5-T2-20-1P150S	EKU5-T2-20-1P275S	EKU5-T2-20-1P320S	EKU5-T2-20-1P385S	EKU5-T2-20-1P440S
2P(1P+N)	EKU5-T2-20-2P150S	EKU5-T2-20-2P275S	EKU5-T2-20-2P320S	EKU5-T2-20-2P385S	EKU5-T2-20-2P440S
3P	EKU5-T2-20-3P150S	EKU5-T2-20-3P275S	EKU5-T2-20-3P320S	EKU5-T2-20-3P385S	EKU5-T2-20-3P440S
4P(3P+N)	EKU5-T2-20-4P150S	EKU5-T2-20-4P275S	EKU5-T2-20-4P320S	EKU5-T2-20-4P385S	EKU5-T2-20-4P440S
1P+NPE	EKU5-T2-20-1PN150S	EKU5-T2-20-1PN275S	EKU5-T2-20-1PN320S	EKU5-T2-20-1PN385S	EKU5-T2-20-1PN440S
3P+NPE	EKU5-T2-20-3PN150S	EKU5-T2-20-3PN275S	EKU5-T2-20-3PN320S	EKU5-T2-20-3PN385S	EKU5-T2-20-3PN440S

Technical Data

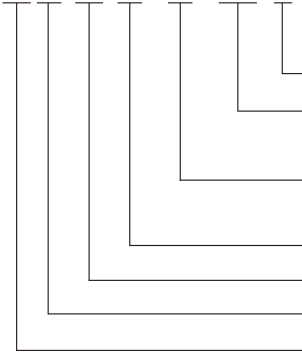
SPD classification according to IEC/EN61643-11		T2	T2	T2	T2	T2
Max. continuous operating a.c.voltage	Uc	150V	275V	320V	385V	440V
Max. continuous operating a.c.voltage	Uc(N-PE)	255V	255V	255V	255V	255V
Norminal discharge current (8/20μs)	In	10kA	10kA	10kA	10kA	10kA
Maximum discharge current (8/20μs)	I _{max}	20kA	20kA	20kA	20kA	20kA
Voltage protection level	Up	≤0.8kV	≤1.0kV	≤1.2kV	≤1.45kV	≤1.6kV
Voltage protection level 5kA	Up	≤0.5kV	≤0.8kV	≤1.0kV	≤1.2kV	≤1.4kV
Voltage protection level	Up(N-PE)	≤1.5kV	≤1.5kV	≤1.5kV	≤1.5kV	≤1.5kV
Max. backup fuse				125A gL		
Response time	tA			≤25ns		
Response time	tA(N-PE)			≤100ns		
Operating temperature range	Tu			-40°C~80°C		
Operating State/Fault Indication				Green/Red		
Cross-section area (Min.)				4mm ²		
Cross-section area (Max.)				35mm ²		
For mounting on				35mm Din rail		
Enclosure material				Thermal Plastic UL94-V0		
Degree of Protection				IP20		
No. of Poles				1P,2P(1P+N),3P,4P(3P+N),1+NPE,3+NPE		

Overall and Installation Dimension(mm)



Product Selection Guide

EK U5- T2 - 40 - 1P - 275 S



- With Remote Signaling
- Uc: 150:150V,275:275V,320:320V,
385:385V,440:440V
- No. of Poles: 1:1P,2:2P(1P+N),3:3P,
4:4P(3P+N),1PN:1P+NPE,3PN:3P+NPE
- I.max: 40kA
- Classification T2
- SPD serie No.5
- Company Code



EKU5-T2-40
2P(1P+N)



EKU5-T2-40
1P+NPE



EKU5-T2-40
3P



EKU5-T2-40
4P(3P+N)

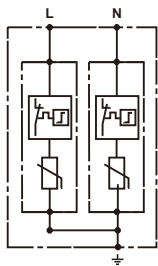


EKU5-T2-40
3P+NPE

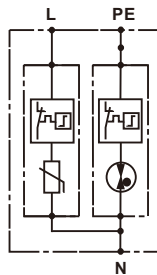
Basic circuit diagram



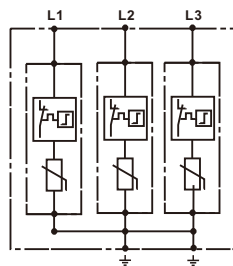
1P



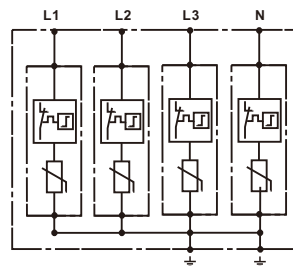
2P



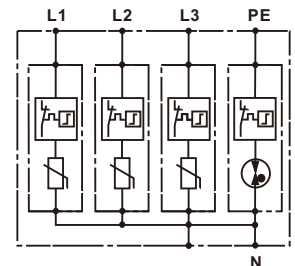
1P+NPE



3P



4P(3P+N)



3P+NPE

SPD Type Reference List

No. of Poles	Max. Continuous Operating AC Voltage				
	150V	275V	320V	385V	440V
1P	EKU5-T2-40-1P150	EKU5-T2-40-1P275	EKU5-T2-40-1P320	EKU5-T2-40-1P385	EKU5-T2-40-1P440
2P(1P+N)	EKU5-T2-40-2P150	EKU5-T2-40-2P275	EKU5-T2-40-2P320	EKU5-T2-40-2P385	EKU5-T2-40-2P440
3P	EKU5-T2-40-3P150	EKU5-T2-40-3P275	EKU5-T2-40-3P320	EKU5-T2-40-3P385	EKU5-T2-40-3P440
4P(3P+N)	EKU5-T2-40-4P150	EKU5-T2-40-4P275	EKU5-T2-40-4P320	EKU5-T2-40-4P385	EKU5-T2-40-4P440
1P+NPE	EKU5-T2-40-1PN150	EKU5-T2-40-1PN275	EKU5-T2-40-1PN320	EKU5-T2-40-1PN385	EKU5-T2-40-1PN440
3P+NPE	EKU5-T2-40-3PN150	EKU5-T2-40-3PN275	EKU5-T2-40-3PN320	EKU5-T2-40-3PN385	EKU5-T2-40-3PN440

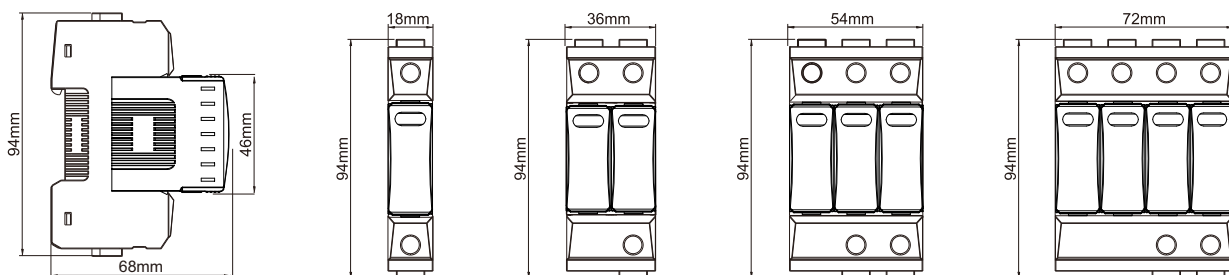
With Remote Signaling

1P	EKU5-T2-40-1P150S	EKU5-T2-40-1P275S	EKU5-T2-40-1P320S	EKU5-T2-40-1P385S	EKU5-T2-40-1P440S
2P(1P+N)	EKU5-T2-40-2P150S	EKU5-T2-40-2P275S	EKU5-T2-40-2P320S	EKU5-T2-40-2P385S	EKU5-T2-40-2P440S
3P	EKU5-T2-40-3P150S	EKU5-T2-40-3P275S	EKU5-T2-40-3P320S	EKU5-T2-40-3P385S	EKU5-T2-40-3P440S
4P(3P+N)	EKU5-T2-40-4P150S	EKU5-T2-40-4P275S	EKU5-T2-40-4P320S	EKU5-T2-40-4P385S	EKU5-T2-40-4P440S
1P+NPE	EKU5-T2-40-1PN150S	EKU5-T2-40-1PN275S	EKU5-T2-40-1PN320S	EKU5-T2-40-1PN385S	EKU5-T2-40-1PN440S
3P+NPE	EKU5-T2-40-3PN150S	EKU5-T2-40-3PN275S	EKU5-T2-40-3PN320S	EKU5-T2-40-3PN385S	EKU5-T2-40-3PN440S

Technical Data

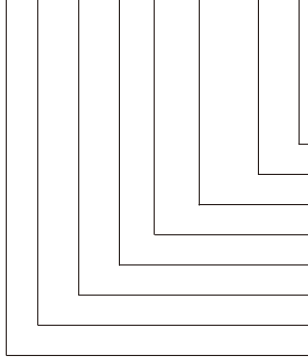
SPD classification according to IEC/EN61643-11		T2	T2	T2	T2	T2
Max. continuous operating a.c.voltage	Uc	150V	275V	320V	385V	440V
Max. continuous operating a.c.voltage	Uc(N-PE)	255V	255V	255V	255V	255V
Norminal discharge current (8/20μs)	In	20kA	20kA	20kA	20kA	20kA
Maximum discharge current (8/20μs)	I _{max}	40kA	40kA	40kA	40kA	40kA
Voltage protection level	Up	≤0.8kV	≤1.3kV	≤1.5kV	≤1.8kV	≤2.0kV
Voltage protection level 5kA	Up	≤0.6kV	≤1.0kV	≤1.2kV	≤1.4kV	≤1.6kV
Voltage protection level	Up(N-PE)	≤1.5kV	≤1.5kV	≤1.5kV	≤1.5kV	≤1.5kV
Max. backup fuse		125A gL				
Response time	tA	≤25ns				
Response time	tA(N-PE)	≤100ns				
Operating temperature range	Tu	-40°C~80°C				
Operating State/Fault Indication		Green/Red				
Cross-section area (Min.)		4mm ²				
Cross-section area (Max.)		35mm ²				
For mounting on		35mm Din rail				
Enclosure material		Thermal Plastic UL94-V0				
Degree of Protection		IP20				
No. of Poles		1P,2P(1P+N),3P,4P(3P+N),1+NPE,3+NPE				

Overall and Installation Dimension(mm)



Product Selection Guide

EK U5 - T2 - 40 PV - 2M - 600 S



- With Remote Signaling
- Uc: 600: DC600V, 1000: DC1000V, 1500: DC1500V
- No. of Module: 2:2Module, 3:3Module
- Solar PV System
- I.max: 40kA
- Classification T2
- SPD serie No.5
- Company Code



EKU5-T2-40PV
2P(600VDC)



EKU5-T2-40PV
2P(1000VDC)

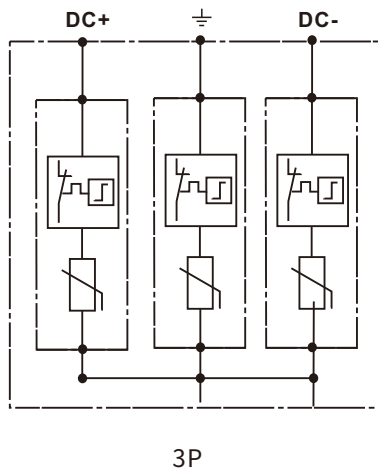
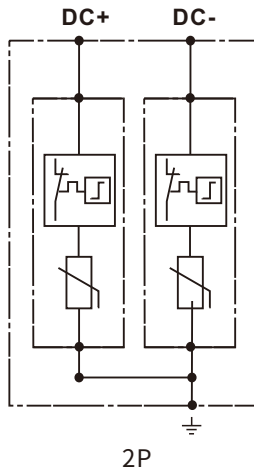


EKU5-T2-40PV
3P(1000VDC)



EKU5-T2-40PV
3P(1500VDC)

Basic circuit diagram



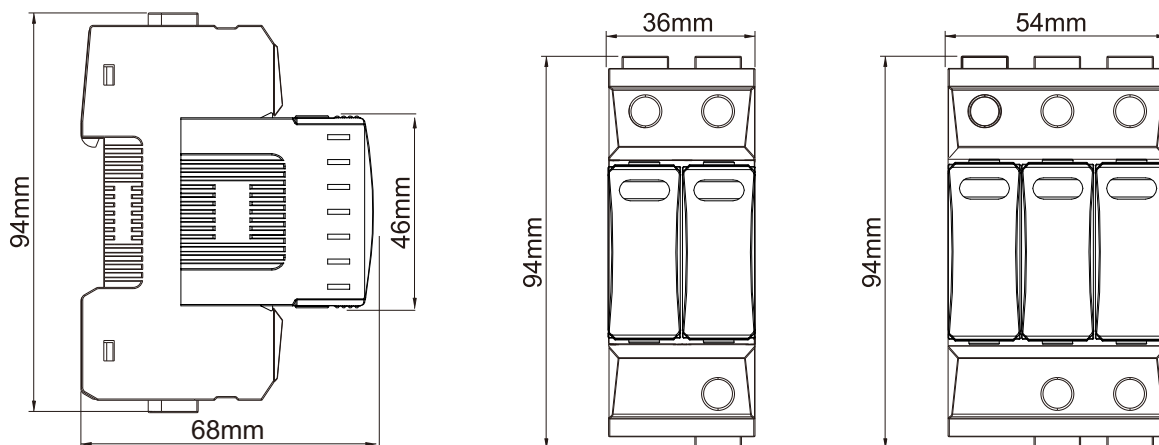
SPD Type Reference List

No. of Poles	Max. Continuous Operating DC Voltage		
	600VDC	1000VDC	1500VDC
2Module	EKU5-T2-40PV-2M600	EKU5-T2-40PV-2M1000	-
3Module	-	EKU5-T2-40PV-3M1000	EKU5-T2-40PV-3M1500
With Remote Signaling			
2Module	EKU5-T2-40PV-2M600S	EKU5-T2-40PV-2M1000S	-
3Module	-	EKU5-T2-40PV-3M1000S	EKU5-T2-40PV-3M1500S

Technical Data

SPD classification according to IEC/EN61643-31		T2	T2	T2
Max. continuous operating a.c.voltage	Uc _{pv}	600VDC	1000VDC	1500VDC
Norminal discharge current (8/20μs)	I _n	20kA	20kA	20kA
Maximum discharge current (8/20μs)	I _{max}	40kA	40kA	40kA
Voltage protection level DC+/DV-to PE	U _p	2Mods	≤2.6kV	≤4.0kV
		3Mods	-	≤4.0kV
Response time	t _A	≤25ns	≤25ns	≤25ns
Operating temperature range	T _u	-40°C~80°C		
Operating State/Fault Indication		Green/Red		
Cross-section area (Min.)		4mm ²		
Cross-section area (Max.)		35mm ²		
For mounting on		35mm Din rail		
Enclosure material		Thermal Plastic UL94-V0		
Degree of Protection		IP20		
No. of Moudles		2P(2Mods),3P(3Mods)		

Overall and Installation Dimension(mm)



Laboratory And Testing



R&D Center No. 1



Lab 1



R&D Center No. 2



Lab 2



Lab 3



Coupling and decoupling online cabinet



1.2/50μs combined wave generator



Programmable salt spray test machine



Simulated lightning test platform



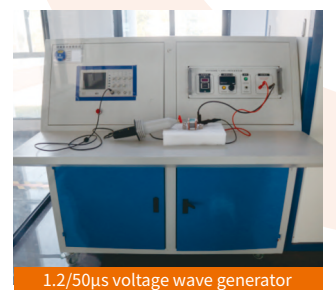
Glow Wire Tester



SPD thermal stability test system



Programmable constant temperature and humidity test chamber



1.2/50μs voltage wave generator

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