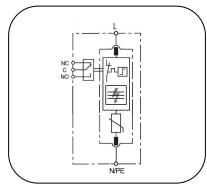


SP... (-S)

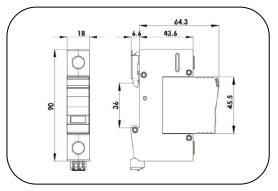


KEMA





Basic circuit diagram



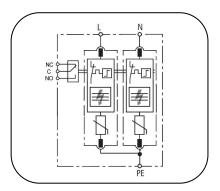
Dimension drawing

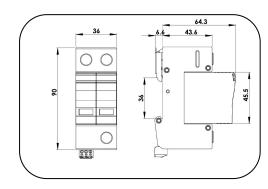
- ➤ KEMA certified T2 SPD per IEC/EN 61643-11.
- > High surge current discharge capacity up to 40kA 8/20μs.
- > High reliability due to global patented thermally protected MOV with reliable arc-extinguish (TPAE) technology.
- > Pluggable module for easy replacement
- > Degradation indication and optional remote signal contact.
- Comply with IEC/EN 61643-11, UL1449 4th, CSA C22.2 etc standards.

Model		SP150 (-S)	SP275 (-S	S) SP320 (-S)	SP385 (-S)	
In accordance with		` ,	•	1; EN61643-11:2012;UL1449 4t	, ,	
Category IEC/VDE/EN		II/C/T2				
Max. continuous operating voltage (Vac/Vdc)	Uc	150/200V 275/350V 320/420/V 385/5(
Nominal discharge current(8/20us)	In	20kA				
Max. discharge current(8/20us)	lmax	40kA				
Voltage protection level @In	Up	≤0.8kV ≤1.4kV ≤1.5kV ≤1.8k\				
Temporary Overvoltage TOV -Withstand mode	Utov	174V/5s	337V/5s	337V/5s	403V/5s	
Residual current	Ipe	<0.1mA				
Follow current	If	No				
Response time	tA	≤25 ns				
Backup fuse(only required if not already provided in mains)		125A gL/gG				
Operating temperature range		- 40°C ~ + 85°C				
Cross-section of connection wire		Single-strand 35mm ² ; multi-strand 25mm ²				
Mounting		35mm DIN-rail in accordance with EN 50022/DIN46277-3				
Enclosure material		thermoplastic; extinguishing degree UL94 V-0				
Degree of protection		IP20				
Installation width		1 module, DIN 43880				
Failure indiacation/Status		Internal green – normal ; red - failure				
Remote alarm contact		Optional				
Approvals, Certifications		KEMA/CE				
Additional data for Remote Alarm Contacts						
Remote alarm contact type		Isolated Form C				
Switching capability	Un/In	AC: 250V/0.5A DC: 250V/0.1A; 125V/0.2A; 75V/0.5A				
Max. Size of connecting wire		Max. 1.5mm ² (or # 16AWG)				



SP.../2P(-S)





KEMA

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Basic circuit diagram

Dimension drawing

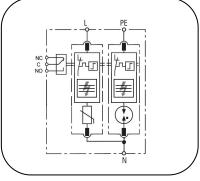
- ➤ KEMA certified T2 SPD per IEC/EN 61643-11.
- Prewired 2 poles SPD application for single phase protection.
- High surge current discharge capacity up to 40kA 8/20μs.
- > High reliability due to global patented thermally protected MOV with reliable arc-extinguish (TPAE) technology.
- > Pluggable module for easy replacement
- > Degradation indication and optional remote signal contact.
- Comply with IEC/EN 61643-11, UL1449 4th, CSA C22.2 etc standards.

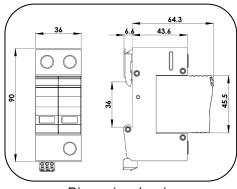
Model		SP150/2P(-S)	SP275/2P(-S)	SP320/2P(-S)	SP385/2P(-S)	
In accordance with		IEC61643-11:2011; EN61643-11:2012;UL1449 4th				
Category IEC/VDE/EN		II/C/T2				
Max. continuous operating voltage (Vac/Vdc)	Uc	150/200V	275/350V	320/420/V	385/505V	
Nominal discharge current(8/20us)	In	20kA				
Max. discharge current(8/20us)	Imax	40kA				
Voltage protection level @In IEC	Up	≤0.8kV	≤1.4kV	≤1.5kV	≤1.8kV	
Temporary Overvoltage TOV -Withstand mode	Utov	174V/5s	337V/5s	337V/5s	403V/5s	
Residual current	Ipe	<0.1mA				
Follow current	lf	No				
Response time	tA	≤25 ns				
Backup fuse(only required if not already provided in mains)		125A gL/gG				
Operating temperature range		- 40°C ~ + 85°C				
Cross-section of connection wire		Single-strand 35mm ² ; multi-strand 25mm ²				
Mounting		35mm DIN-rail in accordance with EN 50022/DIN46277-3				
Enclosure material		thermoplastic; extinguishing degree UL94 V-0				
Degree of protection		IP20				
Installation width		2 module, DIN 43880				
Failure indiacation/Status		Internal green – normal ; red - failure				
Remote alarm contact		Optional				
Approvals, Certifications		KEMA/CE				
Additional data for Remote Alarm Contacts						
Remote alarm contact type		Isolated Form C				
Switching capability	Un/In	AC: 250V/0.5A DC: 250V/0.1A; 125V/0.2A; 75V/0.5A				
Max. Size of connecting wire		Max. 1.5mm ² (or # 16AWG)				



SURGE ARRESTERS – CLASS II SP.../PN(-S)







KEMA CE

Basic circuit diagram

Dimension drawing

- KEMA certified T2 SPD per IEC/EN 61643-11.
- ➤ Prewired "1+1" circuit application for single phase TT/TN system protection
- > High surge current discharge capacity up to 40kA 8/20μs.
- > High reliability due to global patented thermally protected MOV with reliable arc-extinguish (TPAE) technology.
- > Pluggable module for easy replacement
- Degradation indication and optional remote signal contact.
- Comply with IEC/EN 61643-11, UL1449 4th, CSA C22.2 etc standards.

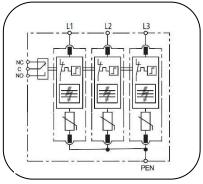
Model			CD4E0/DN/ C)	CD275/DNI/ C	SD220	/DN/ C)	CD20E/DN/ C)	
			SP150/PN(-S)					
In accordance with			II/C/T2					
Category IEC/VDE/EN								
Max. continuous operating voltage	L-N (Vac/Vdc) N-PE(Vac)	Uc	150/200V 255V	275/350V 255V		420V 55V	385/505V 255V	
Nominal discharge current(8/20us)			20kA					
Max. discharge current(8/20us)		Imax	40kA					
Voltage protection level	L-N @In N-PE@1.2/50	Up	≤0.8kV ≤1.5kV	≤1.4kV ≤1.5kV		.5kV .5kV	≤1.8kV ≤1.5kV	
Temporary Overvoltage TOV -Withstand mode	L-N N-PE	Utov	174V/5s 1200V/200ms	337V/5s 1200V/200m		V/5s /200ms	403V/5s 1200V/200ms	
Residual current		lpe	<0.1mA					
Follow current interrupt rating	N-PE	lfi	100Arms @ 255Vac					
Response time tA			≤25 ns (L-N); ≤100 ns (N-PE);					
Backup fuse(only required if no in mains)	t already provided		125A gL/gG					
Operating temperature range			- 40°C ~ + 85°C					
Cross-section of connection win	re		Single-strand 35mm ² ; multi-strand 25mm ²					
Mounting			35	mm DIN-rail in acco	ordance with EN 500)22/DIN46277-	3	
Enclosure material			thermoplastic; extinguishing degree UL94 V-0					
Degree of protection					IP20			
Installation width				2 m	nodule, DIN 43880			
Failure indiacation/Status				Internal gr	een – normal ; red -	failure		
Remote alarm contact					Optional			
Approvals, Certifications			KEMA/CE					
Additional data for Remote A	larm Contacts							
Remote alarm contact type				Į:	solated Form C			
Switching capability		Un/In	In AC: 250V/0.5A DC: 250V/0.1A; 125V/0.2A; 75V/0.5A				A	
Max. Size of connecting wire			Max. 1.5mm ² (or # 16AWG)					



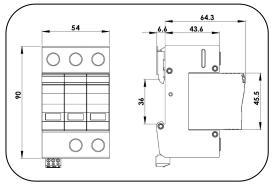
SP.../3P(-S)











Dimension drawing

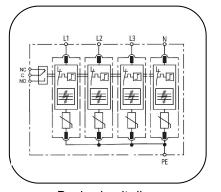
- KEMA certified T2 SPD per IEC/EN 61643-11.
- Prewired 3 poles SPD application for three phases TN-C/IT system protection.
- High surge current discharge capacity up to 40kA 8/20μs.
- > High reliability due to global patented thermally protected MOV with reliable arc-extinguish (TPAE) technology.
- > Pluggable module for easy replacement
- Degradation indication and optional remote signal contact.
- Comply with IEC/EN 61643-11, UL1449 4th, CSA C22.2 etc standards.

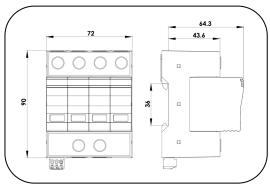
Model		SP150/3P-(S)	SP275/3P(-S)	SP320/3P(-S)	SP385/3P(-S)	
In accordance with		IEC61643-11:2011; EN61643-11:2012;UL1449 4th				
Category IEC/VDE/EN		II/C/T2				
Max. continuous operating voltage (Vac/Vdc)	Uc	150/200V	275/350V	320/420/V	385/505V	
Nominal discharge current(8/20us)	ln	20kA				
Max. discharge current(8/20us)	Imax	40kA				
Voltage protection level @In	Up	≤0.8kV	≤1.4kV	≤1.5kV	≤1.8kV	
Temporary Overvoltage TOV -Withstand mode	Utov	174V/5s	337V/5s	337V/5s	403V/5s	
Residual current	lpe	<0.1mA				
Follow current	If	No				
Response time	tA	≤25 ns				
Backup fuse(only required if not already provided in mains)		125A gL/gG				
Operating temperature range		- 40°C ~ + 85°C				
Cross-section of connection wire		Single-strand 35mm ² ; multi-strand 25mm ²				
Mounting		35mm DIN-rail in accordance with EN 50022/DIN46277-3				
Enclosure material		thermoplastic; extinguishing degree UL94 V-0				
Degree of protection		IP20				
Installation width		3 module, DIN 43880				
Failure indiacation/Status		Internal green – normal ; red - failure				
Remote alarm contact		Optional				
Approvals, Certifications		KEMA/CE				
Additional data for Remote Alarm Contacts						
Remote alarm contact type		Isolated Form C				
Switching capability	Un/In	AC: 250V/0.5A DC: 250V/0.1A; 125V/0.2A; 75V/0.5A				
Max. Size of connecting wire		Max. 1.5mm ² (or # 16AWG)				



SP.../4P(-S)







KEMA

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Basic circuit diagram

Dimension drawing

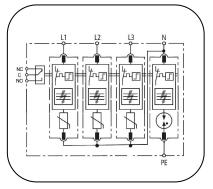
- ▶ KEMA certified T2 SPD per IEC/EN 61643-11.
- Prewired 4+0 circuit application for three phases TN/TT system protection.
- High surge current discharge capacity up to 40kA 8/20μs.
- > High reliability due to global patented thermally protected MOV with reliable arc-extinguish (TPAE) technology.
- > Pluggable module for easy replacement
- Degradation indication and optional remote signal contact.
- Comply with IEC/EN 61643-11, UL1449 4th, CSA C22.2 etc standards.

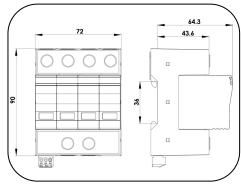
Madal						
Model		SP150/4P-(S)	SP275/4P(-S	, ,	SP385/4P(-S)	
In accordance with		IEC61643-11:2011; EN61643-11:2012; UL1449 4th				
Category IEC/VDE/EN		II/C/T2				
Max. continuous operating voltage (Vac/Vdc)	Uc	150/200V	275/350V	320/420/V	385/505V	
Nominal discharge current(8/20us)	In	20kA				
Max. discharge current(8/20us)	Imax	40kA				
Voltage protection level @In	Up	≤0.8kV	≤1.4kV	≤1.5kV	≤1.8kV	
Temporary Overvoltage TOV -Withstand mode	Utov	174V/5s	337V/5s	337V/5s	403V/5s	
Residual current	Ipe	<0.1mA				
Follow current	If	No				
Response time	tA	≤25 ns				
Backup fuse(only required if not already provided in mains)		125A gL/gG				
Operating temperature range		- 40°C ~ + 85°C				
Cross-section of connection wire		Single-strand 35mm ² ; multi-strand 25mm ²				
Mounting		35mm DIN-rail in accordance with EN 50022/DIN46277-3				
Enclosure material		thermoplastic; extinguishing degree UL94 V-0				
Degree of protection		IP20				
Installation width		4 module, DIN 43880				
Failure indiacation/Status		Internal green – normal ; red - failure				
Remote alarm contact		Optional				
Approvals, Certifications		KEMA/CE				
Additional data for Remote Alarm Contacts						
Remote alarm contact type		Isolated Form C				
Switching capability	Un/In	AC: 250V/0.5A DC: 250V/0.1A; 125V/0.2A; 75V/0.5A				
Max. Size of connecting wire		Max. 1.5mm ² (or # 16AWG)				



SURGE ARRESTERS – CLASS II SP.../3PN(-S)







KEMA

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Basic circuit diagram

Dimension drawing

- KEMA certified T2 SPD per IEC/EN 61643-11.
- ➤ Prewired "3+1" circuit application for three phases TT/TN system protection
- > High surge current discharge capacity up to 40kA 8/20μs.
- > High reliability due to global patented thermally protected MOV with reliable arc-extinguish (TPAE) technology.
- > Pluggable module for easy replacement
- Degradation indication and optional remote signal contact.
- Comply with IEC/EN 61643-11, UL1449 4th, CSA C22.2 etc standards.

Model			SP150/3PN(-S)	SP275/3PN(-S)	SP320/3PN(-S)	SP385/3PN(-S)		
In accordance with			IEC61643-11:2011; EN61643-11:2012;UL1449 4th					
Category IEC/VDE/EN				II/C	C/T2			
Max. continuous operating voltage	L-N (Vac/Vdc) N-PE(Vac)	Uc	150/200V 255V	275/350V 255V	320/420V 255V	385/505V 255V		
Nominal discharge current(8/20us)			20kA					
Max. discharge current(8/20us)		Imax	40kA					
Voltage protection level	L-N @In N-PE@1.2/50	Up	≤0.8kV ≤1.5KV	≤1.4kV ≤1.5kV	≤1.5kV ≤1.5KV	≤1.8kV ≤1.5kV		
Temporary Overvoltage TOV -Withstand mode	L-N N-PE	Utov	174V/5s 1200V/200ms	337V/5s 1200V/200ms	337V/5s 1200V/200ms	403V/5s 1200V/200ms		
Residual current		lpe	<0.1mA					
Follow current interrupt rating	N-PE	lfi	100Arms @ 255Vac					
Response time		tA	≤25 ns (L-N); ≤100 ns (N-PE);					
Backup fuse(only required if no in mains)	t already provided		125A gL/gG					
Operating temperature range			- 40°C ∼ + 85°C					
Cross-section of connection wir	е		Single-strand 35mm ² ; multi-strand 25mm ²					
Mounting			35mm DIN-rail in accordance with EN 50022/DIN46277-3					
Enclosure material			thermoplastic; extinguishing degree UL94 V-0					
Degree of protection			IP20					
Installation width				4 module,	DIN 43880			
Failure indiacation/Status			Internal green – normal ; red - failure					
Remote alarm contact			Optional					
Approvals, Certifications			KEMA/CE					
Additional data for Remote A	larm Contacts							
Remote alarm contact type			Isolated Form C					
Switching capability		Un/In	AC: 250V/0.5A DC: 250V/0.1A; 125V/0.2A; 75V/0.5A			5A		
Max. Size of connecting wire			Max. 1.5mm ² (or # 16AWG)					