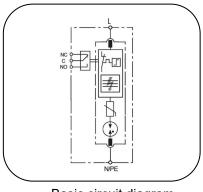
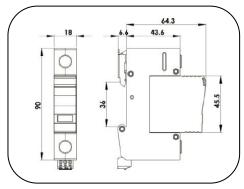


SP...VT(-S)







(E Basic circuit diagram

Dimension drawing

Type 2/Class II surge protective device is designed for low-voltage power supply system protection against surges at the boundaries from lightning protection zone 1-2 and higher.

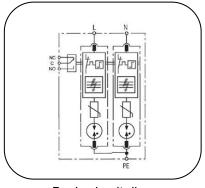
- > KEMA certified T2 SPD per IEC/EN 61643-11 with VT technology to eliminate leakage current & follow current.
- High surge current discharge capacity up to 40kA 8/20μs.
- ▶ High reliability due to global patented thermally protected MOV with reliable arc-extinguish (TPAE) technology.
- > Pluggable module for easy replacement
- > High TOV (Temporary Over-Voltage) withstand and reliability, increased reliability for areas with unstable power network.
- > Degradation indication and optional remote signal contact.
- Comply with IEC/EN 61643-11,UL1449 4th,CSA C22.2 etc standards.

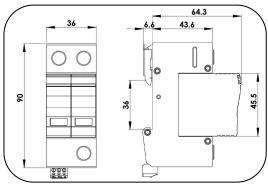
Model		SP275VT(-S) SP320VT(-S)		
In accordance with		IEC61643-11:2011; EN61643-11:2012;UL1449 4th		
Category IEC/VDE/EN		II/C/T2		
Max. continuous operating voltage (Vac/Vdc)	Uc	275/350V	320/420V	
Nominal discharge current(8/20us)	In	20kA		
Max. discharge current(8/20us)	Imax	40kA		
Voltage protection level @In	Up	≤1.4kV	≤1.5kV	
Temporary Overvoltage TOV -Withstand mode	Utov	442V/120min	442V/120min	
Residual current	lpe	No		
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		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...VT/2P(-S)







KEMA

Basic circuit diagram

Dimension drawing

Type 2/Class II surge protective device is designed for low-voltage power supply system protection against surges at the boundaries from lightning protection zone 1-2 and higher.

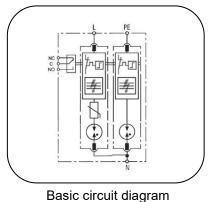
- KEMA certified T2 SPD per IEC/EN 61643-11 with VT technology to eliminate leakage current & follow current.
- Prewired 2 poles SPD application for single phase protection.
- High surge current discharge capacity up to 40kA 8/20µs.
- High reliability due to global patented thermally protected MOV with reliable arc-extinguish (TPAE) technology.
- \triangleright Pluggable module for easy replacement
- High TOV (Temporary Over-Voltage) withstand and reliability, increased reliability for areas with unstable power network.
- Degradation indication and optional remote signal contact.
- Comply with IEC/EN 61643-11, UL1449 4th, CSA C22.2 etc standards.

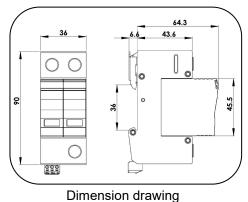
Model		SP275VT/2P(-S)	SP320VT/2P(-S)	
In accordance with		IEC61643-11:2011; EN61643-11:2012;UL1449 4th		
Category IEC/VDE/EN		II/C/T2		
Max. continuous operating voltage (Vac/Vdc)	Uc	275/350V	320/420V	
Nominal discharge current(8/20us)	In	20kA		
Max. discharge current(8/20us)	Imax	40kA		
Voltage protection level @In	Up	≤1.4kV	≤1.5kV	
Temporary Overvoltage TOV -Withstand mode	Utov	442V/120min	442V/120min	
Residual current	Ipe	No		
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: 250	0V/0.1A; 125V/0.2A; 75V/0.5A	
Max. Size of connecting wire		Max. 1.5mm ²	?(or # 16AWG)	



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







Type 2/Class II surge protective device is designed for low-voltage power supply system protection against surges at the boundaries

- ➤ KEMA certified T2 SPD per IEC/EN 61643-11 with VT technology to eliminate leakage current & follow current.
- ➤ 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

from lightning protection zone 1-2 and higher.

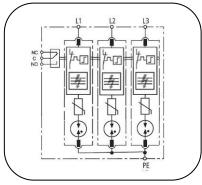
- > High TOV (Temporary Over-Voltage) withstand and robustness, increased reliability for areas with unstable power network.
- > Degradation indication and optional remote signal contact.
- Comply with IEC/EN 61643-11,UL1449 4th,CSA C22.2 etc standards.

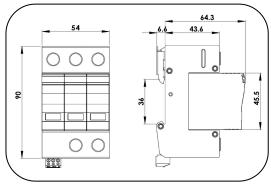
Model			SP275VT/PN(-S)		SP320VT/PN(-S)
In accordance with			IEC61643-11:2011; EN61643-11:2012;UL1449 4th		2012;UL1449 4th
Category IEC/VDE/EN			II/C/T2		
Max. continuous operating	L-N (Vac/Vdc)	Uc	275/350V		320/420V
voltage	N-PE(Vac)	9.1	255V		255V
Nominal discharge current(8/20us)		In	20kA		
Max. discharge current(8/20us)		lmax	40kA		
Voltage protection level	L-N @In N-PE@1.2/50	Up	≤1.4kV ≤1.5KV		≤1.5kV ≤1.5kV
Temporary Overvoltage TOV	L-N	Utov	442V/120min		442V/120min
-Withstand mode	N-PE	Olov	1200V/200ms		1200V/200ms
Residual current		Ipe	No		
Follow current interrupt rating	N-PE	lfi	100Arms @ 255Vac		ac
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 35mm²; multi-strand 25mm²		trand 25mm²
Mounting			35mm DIN-rail in accordance with EN 50022/DIN46277-3		N 50022/DIN46277-3
Enclosure material			thermoplastic; extinguishing degree UL94 V-0		gree UL94 V-0
Degree of protection			IP20		
Installation width			2 module, DIN 43880		80
Failure indiacation/Status			Internal green – normal ; red - failure		red - failure
Remote alarm contact			Optional		
Approvals, Certifications			KEMA/CE		
Additional data for Remote Al	arm 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		125V/0.2A; 75V/0.5A
Max. Size of connecting wire			Max. 1.5mm ² (or # 16AWG)		AWG)



SP...VT/3P(-S)







((KEMA

Basic circuit diagram

Dimension drawing

Type 2/Class II surge protective device is designed for low-voltage power supply system protection against surges at the boundaries from lightning protection zone 1-2 and higher.

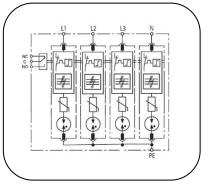
- KEMA certified T2 SPD per IEC/EN 61643-11 with VT technology to eliminate leakage current & follow current.
- Prewired 3 poles SPD application for three phases TN-C/IT system protection.
- High surge current discharge capacity up to 40kA 8/20µs.
- High reliability due to global patented thermally protected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

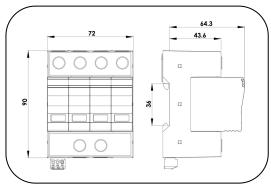
Model		SP275VT/3P(-S)	SP320VT/3P(-S)	
In accordance with		IEC61643-11:2011; EN61643-11:2012;UL1449 4th		
Category IEC/VDE/EN		II/C/T2		
Max. continuous operating voltage (Vac/Vdc)	Uc	275/350V	320/420V	
Nominal discharge current(8/20us)	In	20kA		
Max. discharge current(8/20us)	Imax	40kA		
Voltage protection level @In	Up	≤1.4kV	≤1.5kV	
Temporary Overvoltage TOV -Withstand mode	Utov	442V/120min	442V/120min	
Residual current	Ipe	No		
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...VT/4P(-S)







KEMA

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Basic circuit diagram

Dimension drawing

Type 2/Class II surge protective device is designed for low-voltage power supply system protection against surges at the boundaries from lightning protection zone 1-2 and higher.

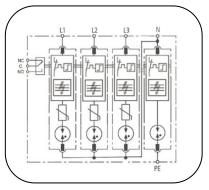
- ➤ KEMA certified T2 SPD per IEC/EN 61643-11 with VT technology to eliminate leakage current & follow current.
- Prewired 4+0 circuit application for three phases TN/TT system protection.
- High surge current discharge capacity up to 40kA 8/20μs.
- High reliability due to global patented thermally protected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

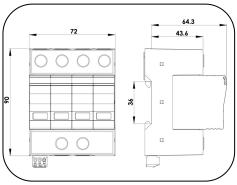
Model		SP275VT/3P(-S)	SP320VT/3P(-S)	
In accordance with		IEC61643-11:2011; EN61643-11:2012;UL1449 4th		
Category IEC/VDE/EN		II/C/T2		
Max. continuous operating voltage (Vac/Vdc)	Uc	275/350V	320/420V	
Nominal discharge current(8/20us)	In	20kA		
Max. discharge current(8/20us)	Imax	40kA		
Voltage protection level @In	Up	≤1.4kV	≤1.5kV	
Temporary Overvoltage TOV -Withstand mode	Utov	442V/120min	442V/120min	
Residual current	Ipe	No		
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		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: 250	V/0.1A; 125V/0.2A; 75V/0.5A	
Max. Size of connecting wire		Max. 1.5mm ² (or # 16AWG)		



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







KEMA

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Basic circuit diagram

Dimension drawing

Type 2/Class II surge protective device is designed for low-voltage power supply system protection against surges at the boundaries from lightning protection zone 1-2 and higher.

- KEMA certified T2 SPD per IEC/EN 61643-11 with VT technology to eliminate leakage current & follow current.
- ➤ 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
- ▶ High TOV (Temporary Over-Voltage) withstand and robustness, increased reliability for areas with unstable power network.
- > Degradation indication and optional remote signal contact.
- Comply with IEC/EN 61643-11, UL1449 4th, CSA C22.2 etc standards.

Model			SP275VT/3PN(-S)	SP320VT/3PN(-S)	
In accordance with			IEC61643-11:2011; EN61643-11:2012;UL1449 4th		
Category IEC/VDE/EN			II/C/T2		
Max. continuous operating voltage	L-N (Vac/Vdc) N-PE(Vac)	Uc	275/350V 255V	320/420V 255V	
Nominal discharge current(8/20	Ous)	In	20kA		
Max. discharge current(8/20us)		Imax	40kA		
Voltage protection level	L-N @In N-PE@1.2/50	Up	≤1.4kV ≤1.5kV	≤1.5kV ≤1.5kV	
Temporary Overvoltage TOV -Withstand mode	L-N N-PE	Utov	442V/120min 1200V/200ms	442V/120min 1200V/200ms	
Residual current		lpe	No		
Follow current interrupt	N-PE	lfi	100Arms @ 255Vac		
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 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		
Max. Size of connecting wire			Max. 1.5mm ² (or # 16AWG)		