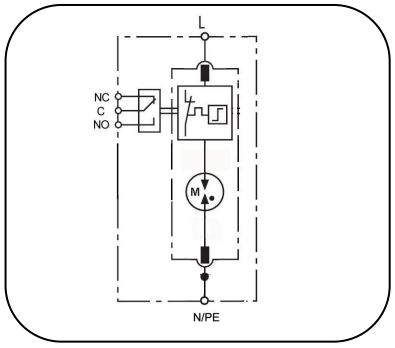
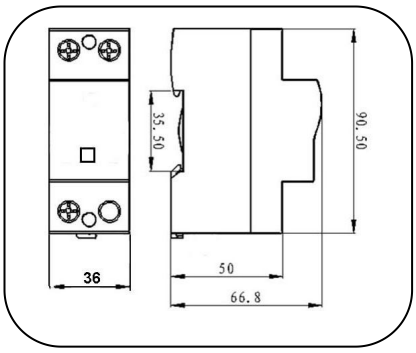
SURGE ARRESTERS – CLASS I

G50/xxx(-S)



Basic circuit diagram



Dimension drawing

CE

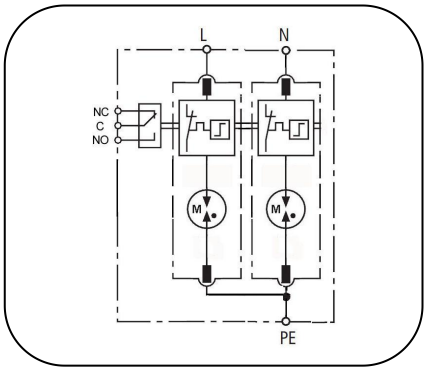
Type 1 surge arrester designed for low-voltage power supply system protection against surges and even direct lightning strikes at the boundaries from lightning protection zone 0A-2 and higher.

- Encapsulated spark gap technology to guarantee reliability in rugged environment
- Class I+II surge protector that Comply with IEC61643-11 standard
- Discharge capacity Iimp 50kA10/350
- Low voltage protection level
- With remote signaling contact and failure indicator optional

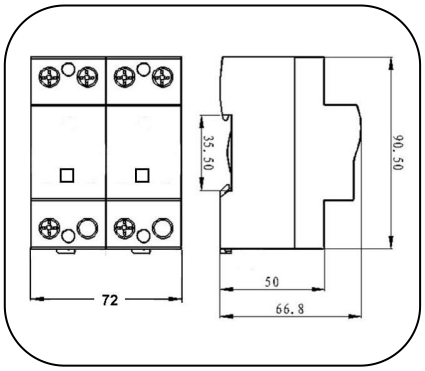
Part No.		G50/150(-S)	G50/175(-S)	G50/275(-S)	G50/320(-S)	G50/385(-S)	G50/420(-S)
In accordance with		IEC61643-11:2011; UL1449-4th					
Category IEC/VDE		I/ B					
Max. continuous operating voltage	Uc (VAC/VDC)	150 /200	175 /225	275 /350	320 /420	385 /505	420 /560
Nominal discharge current(8/20) In		50kA					
Max. discharge current(8/20) Imax		150kA					
Lightning impulse current (10/350) Iimp		50kA					
Voltage protection level Up (1.2/50)		<1.2kV	<1.2kV	<1.5kV	<1.6kV	<1.8kV	<2.0kV
Response time		≤100 ns					
short-circuit current rating （Isc）& follow current interrupt rating (Ifi)		Isc =25kArms ; Ifi≥25kArms@255Vac					
Backup fuse(only required if not already provided in mains)		500A gL/gG					
Operating temperature range		- 40ºC ~ + 80ºC					
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 modules, DIN 43880					
Thermal disconnector		Internal red - failure					
Remote alarm contact		Optional					
Approvals, Certifications		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 I

G50/xxx(-S)/2P



Basic circuit diagram



Dimension drawing

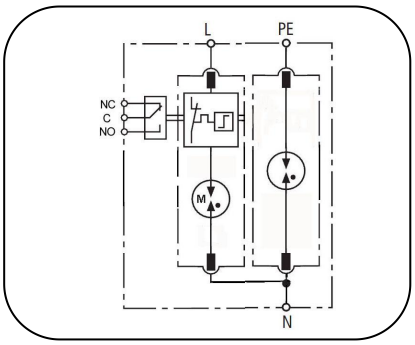
Type1 surge arrester designed for low-voltage power supply system protection against surges and even direct lightning strikes at the boundaries from lightning protection zone 0A-2 and higher.

- Encapsulated spark gap technology to guarantee reliability in rugged environment
- Comply with IEC61643-11 standard, surge arrester for use in TN-S systems
- Discharge capacity Iimp 50KA 10/350
- Low voltage protection level
- With remote signaling contact and failure indicator optional

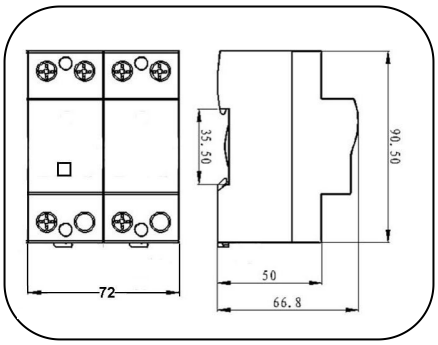
Part No.		G50/150(-S)/ 2P	G50/175(-S)/ 2P	G50/275(-S)/ 2P	G50/320(-S)/ 2P	G50/385(-S)/ 2P	G50/420(-S)/2P
In accordance with		IEC61643-11:2011; UL1449-4th					
Category IEC/VDE		I / B					
Max. continuous operating voltage (V)	(AC/DC)	150 /200	175 /225	275 /350	320 /420	385 /505	420 /560
Nominal discharge current(8/20)	In	50kA					
Max. discharge current(8/20)	Imax	150kA					
Lightning impulse current	Iimp	50kA					
Voltage protection level	@1.2/50	<1.2kV	<1.2kV	<1.5kV	<1.6kV	<1.8kV	<2.0kV
Response time		≤100 ns					
short-circuit current rating （Isc）& follow current interrupt rating (Ifi)		Isc =25kArms ; Ifi≥25kArms@255Vac					
Backup fuse(only required if not already provided in mains)		500A gL/gG					
Operating temperature range		- 40°C ~ + 80°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 modules, DIN 43880					
Thermal disconnector		Internal red - failure					
Remote alarm contact		Optional					
Approvals, Certifications		CE					
Additional data for Remote Alarm							
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 I

G50/xxx(-S)/PN50



Basic circuit diagram



Dimension drawing

Type 1 surge arrester designed for low-voltage power supply system protection against surges and even direct lightning strikes at the boundaries from lightning protection zone 0A -2 and higher.

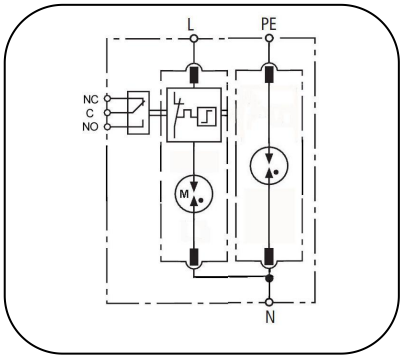
- Encapsulated spark gap technology to guarantee reliability in rugged environment
- Comply with IEC61643-11 standard, surge arrester for use in single-phase TT and TN systems (“1+1” circuit)
- Discharge capacity Iimp 50KA10/350
- Low voltage protection level
- With remote signaling contact and failure indicator optional

Part No.		G50/150(-S)/PN50	G50/175(-S)/PN50	G50/275(-S)/PN50	G50/320(-S)/PN50	G50/385(-S)/PN50	G50/420(-S)/PN50
In accordance with		IEC61643-11:2011; UL1449-4th					
Category IEC/VDE		I/ B					
Max. continuous operating voltage (V)	L – N (AC/DC)	150 /200	175 /225	275 /350	320 /420	385 /505	420 /560
	N – PE AC	150	150	255	255	255	255
Nominal discharge current(8/20) In	L – N	50kA					
	N-PE	50kA					
Max. discharge current(8/20) Imax	L-N	150kA					
	N-PE	150kA					
Lightning impulse current (10/350) Iimp	L-N	50kA					
	N-PE	50kA					
Voltage protection level	L-N(1.2/50)	<1.2kV	<1.2kV	<1.5kV	<1.6kV	<1.8kV	<2.0kV
	N – PE (1.2/50)	<0.8kV	<0.8kV	<1.5kV	<1.5kV	<1.5kV	<1.5kV
Response time	L-N	≤100 ns					
	N-PE	≤100 ns					
short-circuit current rating （Isc）& follow current interrupt rating (Ifi)	L-N	Isc =25kArms ; Ifi≥25kArms@255Vac					
	N-PE	Ifi =200Arms @ 255Vac					
Backup fuse(only required if not already provided in mains)		500A gL/gG					
Operating temperature range		- 40° C ~ + 80° C					
Cross-section of connection wire		Single-strand 35mm2; multi-strand 25mm2					
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 modules, DIN 43880					
Thermal disconnector		Internal red - failure					
Remote alarm contact		Optional					
Approvals, Certifications		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. 1.5mm2(or # 16AWG)					

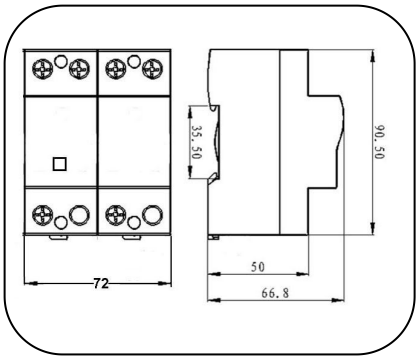
SURGE ARRESTERS – CLASS I

G50/xxx(-S)/PN100

CE



Basic circuit diagram



Dimension drawing

Type 1 surge arrester designed for low-voltage power supply system protection against surges and even direct lightning strikes at the boundaries from lightning protection zone 0A-2 and higher.

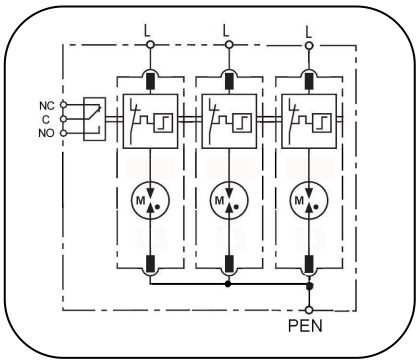
- Encapsulated spark gap technology to guarantee reliability in rugged environment
- Comply with IEC61643-11 standard, surge arrester for use in single phase TT and TN systems ("1+1" circuit)
- Discharge capacity Iimp 50KA10/350
- Low voltage protection level
- With remote signaling contact and failure indicator optional

Part No.		G50/150(-S)/P N100	G50/175(-S)/P N100	G50/275(-S)/P N100	G50/320(-S)/P N100	G50/385(-S)/P N100	G50/420(-S)/P N100
In accordance with		IEC61643-11:2011; UL1449-4th					
Category IEC/VDE		I/ B					
Max. continuous operating voltage (V)	L – N (AC/DC)	150 /200	175 /225	275 /350	320 /420	385 /505	420 /560
	N–PE AC	150	150	255	255	255	255
Nominal discharge current(8/20) In	L–N	50kA					
	N-PE	100kA					
Max. discharge current(8/20) Imax	L-N	150kA					
	N-PE	200kA					
Lightning impulse current (10/350) Iimp	L-N	50kA					
	N-PE	100kA					
Voltage protection level	L-N (1.2/50)	<1.2kV	<1.2kV	<1.5kV	<1.6kV	<1.8kV	<2.0kV
	N–PE (1.2/50)	<0.8kV	<0.8kV	<1.5kV	<1.5kV	<1.5kV	<1.5kV
Response time	L-N	≤100 ns					
	N-PE	≤100 ns					
short-circuit current rating （Isc）& follow current interrupt rating (Ifi)	L-N	Isc =25kArms ; Ifi≥25kArms@255Vac					
	N-PE	Ifi =200Arms @ 255Vac					
Backup fuse(only required if not already provided in mains)		315A gL/gG					
Operating temperature range		- 40°C ~ + 80°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 modules, DIN 43880					
Thermal disconnector		Internal red - failure					
Remote alarm contact		Optional					
Approvals, Certifications		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)					

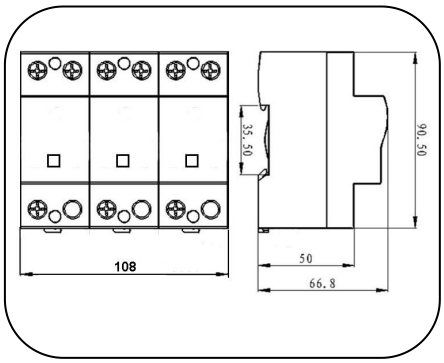
SURGE ARRESTERS – CLASS I

G50/xxx(-S)/3P

CE



Basic circuit diagram



Dimension drawing

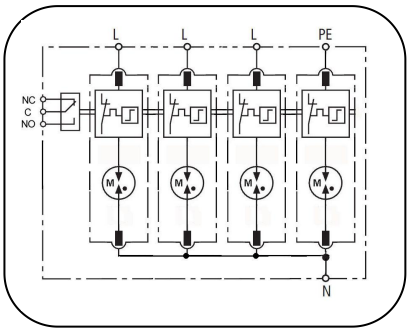
Type 1 surge arrester designed for low-voltage power supply system protection against surges and even direct lightning strikes at the boundaries from lightning protection zone 0A-2 and higher.

- Encapsulated spark gap technology to guarantee reliability in rugged environment
- Comply with IEC61643-11 standard, surge arrester for use in TN-C systems
- Discharge capacity Iimp 25kA10/350
- Low voltage protection level
- With remote signaling contact and failure indicator optional

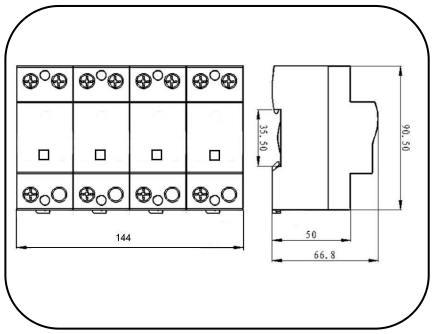
Part No.		G50/150(-S)/ 3P	G50/175(-S)/ 3P	G50/275(-S)/ 3P	G50/320(-S)/ 3P	G50/385(-S)/ 3P	G50/420(-S)/3P
In accordance with		IEC61643-11:2011; UL1449-4th					
Category IEC/VDE		I/ B					
Max. continuous operating voltage (V)	(AC/DC)	150 /200	175 /225	275 /350	320 /420	385 /505	420 /560
Nominal discharge	In	50kA					
Max. discharge current(8/20)	Imax	150kA					
Lightning impulse current	Iimp	50kA					
Voltage protection level	@1.2/50	<1.2kV	<1.2kV	<1.5kV	<1.6kV	<1.8kV	<2.0kV
Response time	L-PE	≤100 ns					
short-circuit current rating （Isc） & follow		Isc =25kArms ; Ifi≥25kArms@255Vac					
Backup fuse(only required if not already provided in mains)		500A gL/gG					
Operating temperature range		- 40°C ~ + 80°C					
Cross-section of connection wire		Single-strand 35mm²; multi-strand 25mm²					
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		6 modules, DIN 43880					
Thermal disconnector		Internal red - failure					
Remote alarm contact		Optional					
Approvals, Certifications		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. 1.5mm²(or # 16AWG)					

SURGE ARRESTERS – CLASS I

G50/xxx(-S)/4P



Basic circuit diagram



Dimension drawing

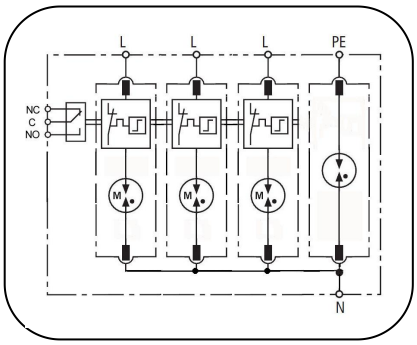
Type 1 surge arrester designed for low-voltage power supply system protection against surges and even direct lightning strikes at the boundaries from lightning protection zone 0A-2 and higher.

- Encapsulated spark gap technology to guarantee reliability in rugged environment
- Comply with IEC61643-11 standard, surge arrester for use in TT and TN-S systems ("3+1" circuit)
- Discharge capacity Iimp 50KA10/350
- Low voltage protection level
- With remote signaling contact and failure indicator optional

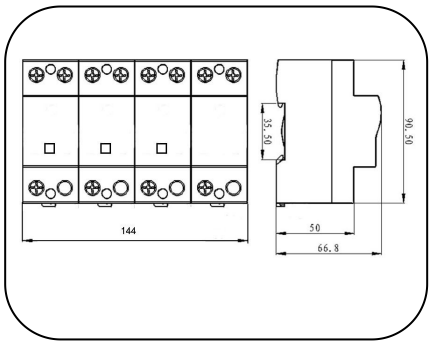
Part No.		G50/150(-S) /4P	G50/175(-S) /4P	G50/275(-S) /4P	G50/320(-S) /4P	G50/385(-S) /4P	G50/420(-S)/4P
In accordance with		IEC61643-11:2011; UL1449-4th					
Category IEC/VDE		I / B					
Max. continuous operating voltage (V)	(AC/DC)	150 /200	175 /225	275 /350	320 /420	385 /505	420 /560
Nominal discharge current(8/20)	In	50kA					
Max. discharge current(8/20)	Imax	150kA					
Lightning impulse current (10/350)	Iimp	50kA					
Voltage protection level	@1.2/50	<1.2kV	<1.2kV	<1.5kV	<1.6kV	<1.8kV	<2.0kV
Response time		≤100 ns					
short-circuit current rating （Isc）& follow current interrupt rating (Ifi)		Isc =25kArms ; Ifi≥25kArms@255Vac					
Backup fuse(only required if not already provided in mains)		500A gL/gG					
Operating temperature range		- 40°C ~ + 80°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		8 modules, DIN 43880					
Thermal disconnector		Internal red - failure					
Remote alarm contact		Optional					
Approvals, Certifications		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 I

G50/xxx(-S)/3PN50



Basic circuit diagram



Dimension drawing

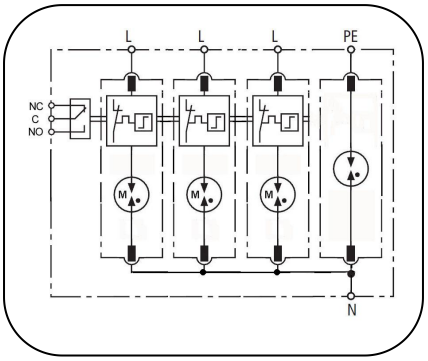
Type 1 surge arrester designed for low-voltage power supply system protection against surges and even direct lightning strikes at the boundaries from lightning protection zone 0A -2 and higher.

- Encapsulated spark gap technology to guarantee reliability in rugged environment
- Comply with IEC61643-11 standard, surge arrester for use in TT and TN-S systems ("3+1" circuit)
- Discharge capacity Iimp 50KA10/350 L-N, 50kA 10/350 N-PE
- Low voltage protection level
- With remote signaling contact and failure indicator optional

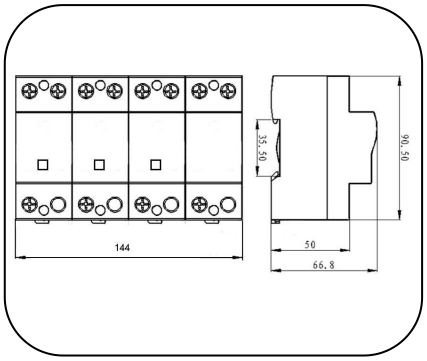
Part No.		G50/150(-S)/ 3PN50	G50/175(-S)/ 3PN50	G50/275(-S)/ 3PN50	G50/320(-S)/ 3PN50	G50/385(-S)/ 3PN50	G50/420(-S)/3PN50
In accordance with		IEC61643-11:2011; UL1449-4th					
Category IEC/VDE		I / B					
Max. continuous operating voltage (V)	L – N (AC/DC)	150 /200	175 /225	275 /350	320 /420	385 /505	420 /560
	N–PE AC	150	150	255	255	255	255
Nominal discharge current(8/20) In	L–N	50kA					
	N-PE	50kA					
Max. discharge current(8/20) Imax	L-N	150kA					
	N-PE	150kA					
Lightning impulse current (10/350) Iimp	L-N	50kA					
	N-PE	50kA					
Voltage protection level	L-N (1.2/50)	<1.2kV	<1.2kV	<1.5kV	<1.6kV	<1.8kV	<2.0kV
	N–PE (1.2/50)	<0.8kV	<0.8kV	<1.5kV	<1.5kV	<1.5kV	<1.5kV
Response time	L-N	≤100 ns					
	N-PE	≤100 ns					
short-circuit current rating （Isc）& follow current interrupt rating (Ifi)	L-N	Isc =25kArms ; Ifi≥25kArms@255Vac					
	N-PE	Ifi =200Arms @ 255Vac					
Backup fuse(only required if not already provided in mains)		500A gL/gG					
Operating temperature range		- 40°C ~ + 80°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		8 modules, DIN 43880					
Thermal disconnector		Internal red - failure					
Remote alarm contact		Optional					
Approvals, Certifications		CE					
Additional data for Remote Alarm							
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 I

G50/xxx(-S)/3PN100



Basic circuit diagram



Dimension drawing

Type 1 surge arrester designed for low-voltage power supply system protection against surges and even direct lightning strikes at the boundaries from lightning protection zone 0A-2 and higher.

- Encapsulated spark gap technology to guarantee reliability in rugged environment
- Comply with IEC61643-11 standard, surge arrester for use in TT and TN-S systems ("3+1" circuit)
- Discharge capacity Iimp 50kA10/350 L-N, 100kA 10/350 N-PE
- Low voltage protection level
- With remote signaling contact and failure indicator optional

Part No.		G50/150(-S)/ 3PN100	G50/175(-S)/ 3PN100	G50/275(-S)/ 3PN100	G50/320(-S)/ 3PN100	G50/385(-S)/ 3PN100	G50/420(-S)/3PN100
In accordance with		IEC61643-11:2011; UL1449-4th					
Category IEC/VDE		I / B					
Max. continuous operating voltage (V)	L – N (AC/DC)	150 /200	175 /225	275 /350	320 /420	385 /505	420 /560
	N–PE AC	150	150	255	255	255	255
Nominal discharge current(8/20) In	L–N	50kA					
	N-PE	100kA					
Max. discharge current(8/20) Imax	L-N	150kA					
	N-PE	200kA					
Lightning impulse current (10/350) Iimp	L-N	50kA					
	N-PE	100kA					
Voltage protection level	L-N(1.2/50)	<1.2kV	<1.2kV	<1.5kV	<1.6kV	<1.8kV	<2.0kV
	N–PE (1.2/50)	<0.8kV	<0.8kV	<1.5kV	<1.5kV	<1.5kV	<1.5kV
Response time	L-N	≤100 ns					
	N-PE	≤100 ns					
short-circuit current rating （Isc）& follow current interrupt rating (Ifi)	L-N	Isc=25kArms ; Ifi≥25kArms@255Vac					
	N-PE	Ifi =200Arms @ 255Vac					
Backup fuse(only required if not already provided in mains)		500A gL/gG					
Operating temperature range		- 40°C ~ + 80°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		8 modules, DIN 43880					
Thermal disconnector		Internal red - failure					
Remote alarm contact		Optional					
Approvals, Certifications		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)					