

SURGE VOLTAGE ARRESTERS SVC

T2



SVC-350-3-MZ



SVC-350-4-MZ



SVC-350-1-M

- For protection of electric networks and equipment against overvoltage from indirect lightning strokes.
- For protection against overvoltage caused by atmospheric disturbances and from switching processes in networks.
- For protection of common wiring in apartments, commercial buildings etc.
- It reduces voltage and „cut up“ the overvoltage wave power caused by indirect lightning stroke and/or switching processes in the networks.
- Use: as the second stage (medium protection) in three degree scale of protection against overvoltage – type 2 according to EN 61643-11.

Surge voltage arresters SVC with removable module

- Surge voltage arresters designed for building, residential, commercial and similar installations classed in group „low installation threat“.
- Main component is varistor, able to arrest lightning current up to 40 kA (8/20 μs).
- Possibility of mounting in casual empty enclosures and switchboard cabinets Distri.
- Design multipart, consisting of a base and replaceable modules with a varistor.
- In case of a failure it is sufficient to replace the module by a new one without the need of turning the device off.
- Remote and visual signalling of the shut-down device state (after disconnection the surge voltage arrester is non-functional and the replaceable module must be replaced).
- Remote signalling of state is provided in type SVC-...-M-ZS.

Network	Design	Type	Order code	Number of modules	Weight [kg]	Package [pcs]
TN-C (3L+PEN)	without remote signalling	SVC-350-3-MZ	OEZ:38365	3	0.393	1
	with remote signalling	SVC-350-3-MZS	OEZ:38366	3	0.403	1
TN-S, TT (3L+N+PE)	without remote signalling	SVC-350-3N-MZ	OEZ:38367	4	0.433	1
	with remote signalling	SVC-350-3N-MZS	OEZ:38368	4	0.433	1
TN-S (3L+N+PE)	without remote signalling	SVC-350-4-MZ	OEZ:40861	4	0.433	1
	with remote signalling	SVC-350-4-MZS	OEZ:40862	4	0.433	1
TN-C (1L+PEN)	without remote signalling	SVC-350-1-MZ	OEZ:42378	1	0.138	1
	with remote signalling	SVC-350-1-MZS	OEZ:42379	1	0.144	1
TN-S, TT (1L+N+PE)	without remote signalling	SVC-350-1N-MZ	OEZ:42380	2	0.256	1
	with remote signalling	SVC-350-1N-MZS	OEZ:42381	2	0.268	1

Replaceable modules

For device	Spare module	Order code	Number of modules in the device	Weight [kg]	Package [pcs]
SVC-350-1-MZ(S)	SVC-350-1-M	OEZ:38369	1	0.051	10
SVC-350-1N-MZ(S)	SVC-350-1-M	OEZ:38369	1	0.051	10
	SVC-264-N-M	OEZ:38370	1	0.040	10
SVC-350-3-MZ(S)	SVC-350-1-M	OEZ:38369	3	0.051	10
SVC-350-3N-MZ(S)	SVC-350-1-M	OEZ:38369	3	0.051	10
	SVC-264-N-M	OEZ:38370	1	0.040	10
SVC-350-4-MZ(S)	SVC-350-1-M	OEZ:38369	4	0.051	10

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Specifications

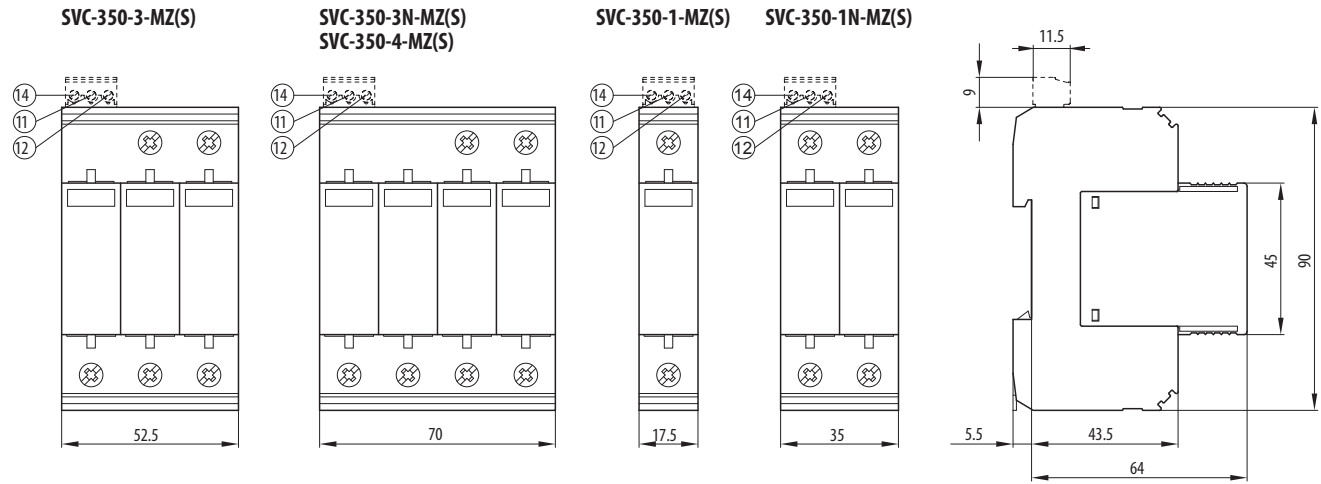
Type		SVC-350-3-MZ SVC-350-3-MZS	SVC-350-3N-MZ SVC-350-3N-MZS	SVC-350-4-MZ SVC-350-4-MZS	SVC-350-1-MZ SVC-350-1-MZS	SVC-350-1N-MZ SVC-350-1N-MZS	
Standards		EN 61643-11 IEC 61643-11	EN 61643-11 IEC 61643-11	EN 61643-11 IEC 61643-11	EN 61643-11 IEC 61643-11	EN 61643-11 IEC 61643-11	
Approval marks							
Rated voltage	U_n	AC 230 V/400 V	AC 230 V/400 V	AC 230 V/400 V	AC 230 V	AC 230 V	
Maximum constant operating voltage	U_c	L-N	AC 350 V	-	-	AC 350 V	
		L-PE/L-PEN	- / AC 350 V	- / -	AC 350 V / -	- / AC 350 V	- / -
		N-PE	-	AC 260 V	AC 350 V	-	AC 260 V
Rated discharge current (8/20 μ s)	I_n	L-N	-	20 kA / pole	-	-	20 kA
		L-PE/L-PEN	- / 20 kA / pole	- / -	20 kA / pole / -	- / 20 kA	- / -
		N-PE	-	20 kA	20 kA / pole	-	20 kA
Max. discharge current (8/20 μ s)	I_{max}	L-N	-	40 kA / pole	-	-	40 kA
		L-PE/L-PEN	- / 40 kA / pole	- / -	40 kA / pole / -	- / 40 kA	- / -
		N-PE	-	40 kA	40 kA / pole	-	40 kA
Rated frequency	f_n	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	
Voltage protection level	U_p	L-N	-	≤ 1.8 kV	-	-	≤ 1.5 kV
		L-PE/L-PEN	- / ≤ 1.5 kV	≤ 1.9 kV / -	≤ 1.5 kV / -	- / ≤ 1.5 kV	≤ 1.8 kV / -
		N-PE	-	≤ 1.5 kV	≤ 1.5 kV	-	≤ 1.5 kV
Arrester classification	according to EN 61643-11	type 2	type 2	type 2	type 2	type 2	
	according to IEC 61643-11	class II	class II	class II	class II	class II	
Response time		L-N	-	≤ 25 ns	-	-	≤ 25 ns
		L-PE/L-PEN	- / ≤ 25 ns	- / -	≤ 25 ns / -	- / ≤ 25 ns	- / -
		N-PE	-	≤ 100 ns	≤ 25 ns	-	≤ 100 ns
Maximum backup fuse gG/gL	parallel connection (T)	125 A	125 A	125 A	125 A	125 A	
	serial connection (V)	80 A	80 A	80 A	80 A	80 A	
Degree of protection - with connected conductors		IP20	IP20	IP20	IP20	IP20	
Mounting on "U" rail according to EN 60715 - type		TH 35	TH 35	TH 35	TH 35	TH 35	
Connection							
Conductor - rigid (solid, stranded)		1.5 \div 35 mm ²	1.5 \div 35 mm ²	1.5 \div 35 mm ²	1.5 \div 35 mm ²	1.5 \div 35 mm ²	
Conductor - flexible		1.5 \div 25 mm ²	1.5 \div 25 mm ²	1.5 \div 25 mm ²	1.5 \div 25 mm ²	1.5 \div 25 mm ²	
Torque		4.5 Nm	4.5 Nm	4.5 Nm	4.5 Nm	4.5 Nm	
Top or bottom connection		only bottom	only bottom	only bottom	top/bottom	only bottom	
Optical signalling							
Functional state		transparent	transparent	transparent	transparent	transparent	
Non-functional state		red	red	red	red	red	
Remote signalling							
Arrangement of contacts ¹⁾		001	001	001	001	001	
Max. voltage/current	U_{max}/I_{max}	AC 250 V / 1.5 A	AC 250 V / 0.75 A	AC 250 V / 1.5 A	AC 250 V / 1 A	AC 250 V / 0.75 A	
		DC 30 V / 1 A	DC 30 V / 1 A	DC 30 V / 1 A	DC 30 V / 1 A	DC 30 V / 1 A	
Min. switched power		AC 5 V / 5 mA	AC 5 V / 5 mA	AC 5 V / 5 mA	AC 5 V / 5 mA	AC 5 V / 5 mA	
Connection - conductor (rigid, flexible)		0.14 \div 1.5 mm ²	0.14 \div 1.5 mm ²	0.14 \div 1.5 mm ²	0.14 \div 1.5 mm ²	0.14 \div 1.5 mm ²	
Torque		0.25 Nm	0.25 Nm	0.25 Nm	0.25 Nm	0.25 Nm	
Operating conditions							
Ambient temperature		-40 \div 80 °C	-40 \div 80 °C	-40 \div 80 °C	-40 \div 80 °C	-40 \div 80 °C	
Working position		arbitrary	arbitrary	arbitrary	arbitrary	arbitrary	

¹⁾ Each digit indicates successively the number of make, break and break-make contacts.

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Dimensions



Diagram

