

Surge Arrester

Series 8510

www.stahl.de
↑



- > Screw fastening version
 - robust
 - vibration resistant
 - reliable
- > Easily accessible connection terminals enable
 - safe connection
 - easy installation
- > Corrosion resistant connection terminals enable



14445E00

	ATEX / IECEx					
Zone	0	1	2	20	21	22
For use in		x	x			

Explosion Protection

Global (IECEx)

Gas	IECEx BVS 07.0029U Ex d e IIC, Ex d e I
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Europe (ATEX)

Gas and mining	DMT 00 ATEX E 073 U ⊕ II 2G Ex d e IIC ⊕ I M2 Ex d e I
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Certifications and certificates

Certificates	ATEX, IECEx, Belarus (operating authorisation)
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Selection Table

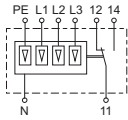
Version	Auxiliary contacts	Rated operating voltage	Order number	Weight kg
Surge Arrester Series 8510, 4-pole	1 change-over contact	AC 230 ... 240 V AC 400 ... 415 V	8510/132-01-147-320	2.345
		120 V	8510/132-01-147-310	2.345

WebCode 8510X

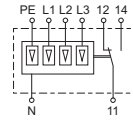
Surge Arrester

Series 8510

Contact Arrangements



14446E00



14446E00

8510/132-01-147-310

8510/132-01-147-320

Technical Data

Version

Version	Surge Arrester Series 8510, 4-pole	Surge Arrester Series 8510, 4-pole
Rated operating voltage	120 V	AC 230 ... 240 V AC 400 ... 415 V

Electrical data

Surge voltage category	III	III
No. of poles	4-pole	4-pole
Remote indicator contact	Message: Surge protection fault	Message: Surge protection fault
Protective circuit		
IEC category	II T2	II T2
EN Type	T2	T2
Rated operating voltage	120 V	AC 230 ... 240 V AC 400 ... 415 V
Arrester rated voltage U_c		
L-N	175 V AC	350 V AC
N-PE	150 V AC	264 V AC
L-PEN	--	--
U_T (TOV-proof)	208 V AC (5 s) 1200 V AC (200 ms / N-PE)	415 V AC (5 s) 1200 V AC (200 ms / N-PE)
Frequency	50 / 60 Hz	50 / 60 Hz
Standby power consumption P_c	≤ 1.75 mW	≤ 3.5 mW
Discharge surge current I_{max}		
8 / 20 μ s max. (L-N)	120 kA (all channels)	120 kA (all channels)
8 / 20 μ s max. (N-PE)	40 kA	40 kA
Nominal discharge surge current I_n		
8 / 20 μ s (L-N)	60 kA (all channel)	60 kA (all channels) 20 kA
8 / 20 μ s (N-PE)	20 kA	20 kA
Impulse operate voltage		
At 6 kV 1,2 / 50 μ s (N-PE)	≤ 950 V	≤ 1.5 kV
Max. required backup fuse		
With branch wiring	35 A (gG)	35 A (gG)
With V-type through wiring	35 A (gG)	35 A (gG)
Connection cross-section	min. 6 mm ²	min. 6 mm ²
Remote Indicator contact		
Connection	Remote fault indicator contact	Remote fault indicator contact
Switching function	PDT contact	PDT contact
Rated working voltage U_{max} AC	250 V AC	250 V AC
Rated working voltage U_{max} DC	125 V DC	125 V DC

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Technical Data

Electrical data

Rated operating current I_{max}	1 A AC (inductive) 1 A AC (ohmic) 30 mA DC (inductive) 200 mA DC (ohmic)	1 A AC (inductive) 1 A AC (ohmic) 30 mA DC (inductive) 200 mA DC (ohmic)
Minimal switching capacity	0.12 VA (12 V, 10 mA)	0.12 VA (12 V, 10 mA)

Ambient conditions

Ambient temperature		
Storage	-50 ... +80 °C	-50 ... +80 °C
Operation at U_c	-20 ... +40 °C	-20 ... +40 °C

Installation and Maintenance

Insulation measurements:

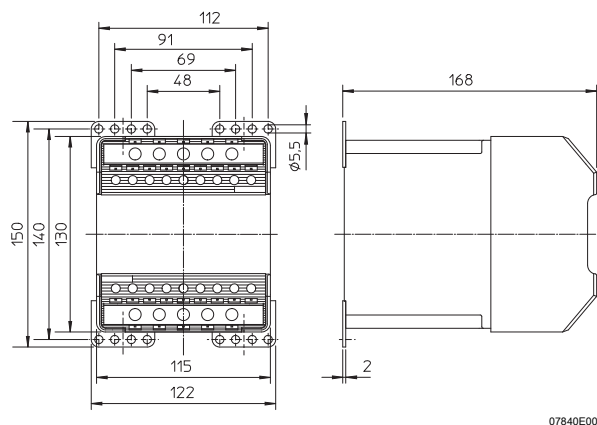
Disconnect the wires before performing an insulation measurement in the system. Otherwise inaccurate measurements are possible. Connect the wires into the base element after the insulation measurement.

Connection:

Kelvin wiring DIN-VDE 0100-534:2009-02 b recommended ≤ 0.5 m; maximum 1 m IEC 60364-5-53:2002-06 b maximal 0.5 m (8510 to PE rail)

Stub wiring DIN-VDE 0100-534:2009-02 recommended ≤ 0.5 m; maximum 1 m IEC 60364-5-53:2002-06 maximum 0.5 m (Fuse to PE rail)

Dimensional Drawings (All Dimensions in mm) - Subjects to Alterations



8510/132

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.