

Safety wherever needed

Low Voltage Surge Arrestors



Uninsulated version



Isolated version



Rope-throwing-off-function





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System

The Low Voltage Surge Arrestors are equipped with metal-oxide varistors in a robust and aging-resistant ceramic housing. The devices respond within nanoseconds and with low residual voltages. This ensures a high level of surge protection.

Features

Surge arrestors are available as insulated and non-insulated versions for various mounting types and terminals. Triggered surge arrestors can easily be identified by the catch cable.

Rope-throwing-off-function



Insulated terminal





For more information see page **281**



69611.0040

Low Voltage Surge Arrestors, without "Rope-throwing-off-function" Properties:

- Without "Rope-throwing-off-function"

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Description	Connection possibilities	Length	Order-No.	In kA	Uc V	PU	PG	Price €/pc.
Mounting angle with clamb	Counductor brunch with sleeve	650	69611.0040	5	280	6	NA 1	35,00
Mounting angle with clamb	CuAl-Sleeve	650	69613.0040	5	280	6	NA 1	39,00
Mounting angle with clamp	Counductor brunch with sleeve	650	69811.0040	10	280	6	NA 1	44,00
Mounting angle with clamb	Counductor brunch with sleeve	770	69611.0050	5	280	6	NA 1	35,00
Mounting angle with clamb	Cable lug	770	69612.0050	5	280	6	NA 1	37,00
Mounting angle with clamp	Counductor brunch with sleeve	770	69811.0050	10	280	6	NA 1	44,00
Mounting angle with clamb	Counductor brunch with sleeve	1000	69611.0060	5	280	6	NA 1	36,00
Mounting angle with clamp	Counductor brunch with sleeve	1000	69811.0060	10	280	6	NA 1	46,00
Screw bolt M8 x 25, uninsulated	Unprepared	550	69624.0070	5	280	6	NA 1	33,00
Screw bolt M8 x 25, uninsulated	Counductor brunch with sleeve	650	69621.0040	5	280	6	NA 1	34,00
Screw bolt M8 x 25, uninsulated	Counductor brunch with sleeve	650	69821.0040	10	280	6	NA 1	46,00
Screw bolt M8 x 25, insulated	Counductor brunch with sleeve	650	69641.0040	5	280	6	NA 1	35,00
Screw bolt M8 x 25, insulated	Counductor brunch with sleeve	770	69641.0050	5	280	6	NA 1	35,00
Screw bolt M8 x 25, insulated	Counductor brunch with sleeve	1000	69641.0060	5	280	6	NA 1	35,00
Screw bolt M8 x 25, insulated	Counductor brunch with sleeve	650	69841.0040	10	280	6	NA 1	44,00
Screw bolt M8 x 25, insulated	Counductor brunch with sleeve	650	69941.0040	10	500	6	NA 1	42,50
Screw bolt M8 x 25, insulated	Unprepared	770	69624.5050	5	280	6	netto	on demand
Screw bolt M8 x 25, insulated	Unprepared	770	69644.9050	5	280	6	netto	on demand
Screw bolt M8 x 25, insulated	Unprepared	1000	69621.5160	5	280	6	netto	on demand
Screw bolt M8 x 25, insulated	Unprepared	1000	69721.5160	5	500	6	netto	on demand
Screw bolt M8 x 25, insulated	Unprepared	1000	69741.6160	5	500	6	netto	on demand
Screw bolt M8 x 25, insulated	Unprepared	1000	69741.7160	5	500	6	netto	on demand
Screw bolt M8 x 25, insulated	Unprepared	1000	69741.8160	5	500	6	netto	on demand
Screw bolt M8 x 25, insulated	Unprepared	1000	69744.9060	5	500	6	netto	on demand
Screw bolt M8 x 30, insulated	Unprepared	1000	69764.5160	5	500	6	netto	on demand



69841.0150

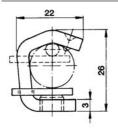
Low Voltage Surge Arrestors, with "Rope-throwing-off-function"

Properties:

- With "Rope-throwing-off-function" - 10kA

Description	Connection possibilities	Length	Order-No.	In kA	Uc V	PU	PG Price €/pc.
Screw bolt M8 x 25, insulated	Conductor brunch with sleeve	650	69841.0150	10	280	6	on demand

Accessories NA



Current cable fitting and prevailling accessories for overhead lines and conductor bars.



69500.0010

Accessories

Description	Order-No.	PU	PG	Price €/pc.
Universal clamb 10 - 120 mm	69500.0010	1	NA 1	6,00
Insulated terminal with M8 x 25 internal thread	69501.0010	1	NA 1	26,00
Insulated tap-off clamp 6 - 70 mm	69502.0010	1	NA 1	16,00
Insulated tap-off clamp 50 - 95 mm	69503.0010	1	NA 1	26,00
Insulated tap-off clamp 50 - 95 mm	69504.0010	1		on demand
Insulated tap-off clamp 50 - 95 mm	69505.0010	1		on demand



Technical data

Function mode

- Protection of electrical equipment against overvoltage.
- Overvoltages may result from switching operations, earth faults and short circuits or atmospheric discharges.
- With overvoltage, the non-linear resistance lowers in such a way, that the overvoltage is restricted.
- Secondary currents are suppressed by the rapidly increasing resistance.
- The metal oxide varistor with a very high resistance at given operating voltage, responses quickly and does not require any discharging gap.



Technical data

Product description

- Metal oxide varistor embedded in ceramic insulator.
- Threaded terminal end (screw bolts).
- Mounting angle with clamp, made of stainless steel.
- Current cable fittings and prevailing accessories for overhead lines and conductor bars.
- Insulated, the flexible connecting line (copper) 6 mm² can be chosen either with or without conductor bunch with sleeve.
- The signal colour "yellow" helps to clearly identify a released overvoltage arrester.
- The "rope-throwing-off-function" prevents by means of a plastic rope being attached to the insulating cap and the connecting line – the uncontrolled line drop with released arrester.

Advantages

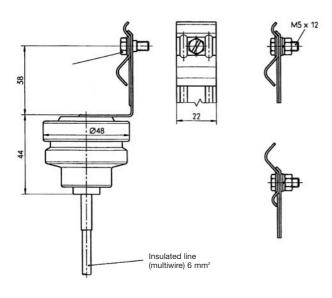
- High protection is given to the electrical equipment in the nanosecond range.
- Due to higher current carrying capacity, the 10 kA-type reacts less sensitive and thus reducs service and maintenance costs.
- Compact, waterproof, weather-resisting.

Technical data

EFEN Type		ONA ZnO 5kA 280V	ONA ZnO 10kA 280V	ONA ZnO 5kA 500V	ONA ZnO 10kA 500V		
Nominal discharge current	I _N [kA]	5	10	5	10		
Norms		IEC 61643-1 03/2005 EN 61643-11 12/2002 VDE 0675 Teil 6-11 12/2002					
Maximum continuous operating voltage		II/outdoor					
Maximum discharge current		yes	yes	yes	yes		
Residual voltage without earth connection		yes	yes	yes	yes		
Maximum continuous operating voltage	Uc [V]	280	280	500	500		
Maximum discharge current	IMAX [kA]	25	25	25	25		
Residual voltage without earth connection	URES [V]	851	987	1481	1642		
Voltage protection level without earth connection	U _P [kV]	0,9	1,0	1,5	1,8		
Residual voltage with earth connection 1 m	URES [V]	1187	1688	1863	2353		
Voltage protection level with earth connection 1 m	U _P [kV]	1,2	1,8	2,0	2,5		
Standby power consumption	Pc [mW]	56	56	106	106		

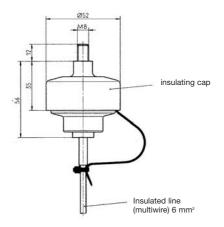


Mounting angle with clamp, made from stainless steel

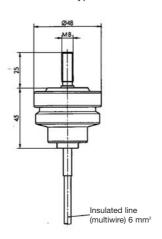


Connection with screw bolt

Insulated type with "rope-throwing-off-function"



Uninsulated type



Connection possibilities

Insulated and flexible connection cable (copper), 6 mm², available either prepared or unprepared

