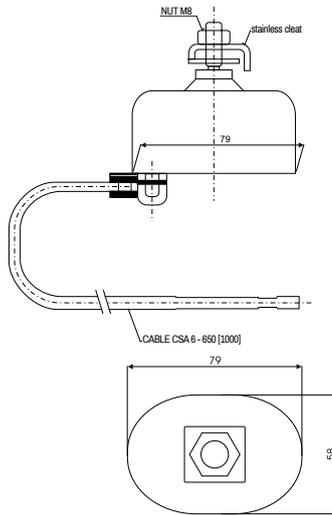


SURGE ARRESTER SPB */10 AIFe*
on bare overhead conductors - AC networks

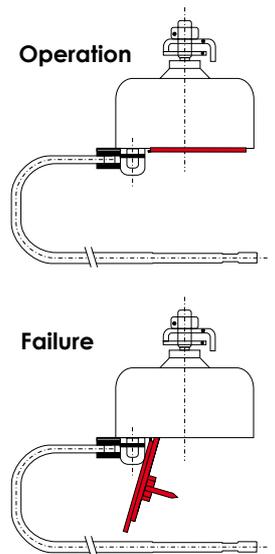


**SURGE ARRESTER
SPB */10 AIFe***
LV POWER PROTECTION
ON BARE OVERHEAD CONDUCTORS



SURGE ARRESTER SPB */10 AIFe*

SPB is a surge arrester as per EN 61643-11 with a nominal discharge current of 10kA and a maximum continuous operating voltage of $U_c = 280V, 440V, 500V, 660V$ or $900V$. They provide protection against low-voltage overvoltage, they protect – in low-voltage overhead power distribution systems – electrical equipment, instruments, switchgear of distribution transformers and reduce the risk of damage to in-house networks and their equipment by atmospheric and switching overvoltage in AC networks with a frequency of 48-62 Hz. The SPB surge arresters protect against the destructive effects of lightning and switching overvoltage. It is recommended to use them in places secured against contact, e.g. by a position or barrier. The SPB surge arresters do not require any special maintenance, only a check after thunderstorms with atmospheric discharges. The destruction of arresters due to great overloading is indicated by the lifting-off of a red signalling cap. These arresters should be replaced by new ones. Considering the fact that an arrester is not destroyed in the event of its excessive overloading above guaranteed limits and subsequent thermal breakdown, this arrester can be mounted into switchboards directly on the buses of a power circuit-breaker. An SPB can be connected to all types of overhead conductor lines, including insulated lines to where it is supplied with an insulated piercing terminal. The connection with an insulated terminal makes it possible to connect a branch line to the protected structure and to mount and dismount the live arrester without the risk of contact with live parts under voltage. The SPBs are supplied in three basic modifications according to the method of mounting:



- SPB */10 AIFe * - on a bare AIFe conductor with a stainless clip and nut
- SPB */10 PP * - on flat busbars in switchboards with a serrated lock washer and nut
- SPB */10 S * - on an insulated line with an insulated terminal

Technical data		SPB 0,280/10 AIFe *	SPB 0,440/10 AIFe *	SPB 0,500/10 AIFe *	SPB 0,660/10 AIFe *	SPB 0,900/10 AIFe *
Category tested in accordance with EN 61643-11		II				
Nejvyšší Max. continuous operating voltage	U_c	280 V AC / 350 V DC	440 V AC / 585 V DC	500 V AC / 670 V DC	660 V AC / 895 V DC	900 V AC / 1200 V DC
Nominal discharge current (8/20)	I_n	10 kA				
Max. discharge current	I_{max}	40 kA				
Voltage protection level at I_n	U_p	< 1,25 kV	< 1,8 kV	< 2,2 kV	< 2,5 kV	< 3,6 kV
Response time	t_A	< 25 ns				
Operating temperature range	θ	-40°C ± + 80°C				
Mounting		vertically with max. departure ± 45° C				
Protection type		IP65				
Protection		internal thermal disconnecter				
Weight	m	248 g	255 g	270 g	290 g	320 g
* : conductor length and color		Article number				
100gy : 100cm, green-yellow		90106	90100	90118	90112	90124
100b : 100cm, black		90107	90101	90119	90113	90125
80gy : 80cm, green-yellow		90108	90102	90120	90114	90126
80b : 80cm, black		90109	90103	90121	90115	90127
65gy : 65cm, green-yellow		90110	90104	90122	90116	90128
65b : 65cm, black		90111	90105	90123	90117	90129

Transport, handling and storage requirements

The surge arresters shall be packed individually in a polyethylene bag and transported in non-returnable cardboard boxes. Other packaging is possible by agreement with the customer. The surge arresters shall be stored in cartons in indoor closed stores at a temperature from -30°C to +30°C. Foam or water may be used as extinguishing agents. During transport it is necessary to handle the product with care so as not to damage the carton packaging.

Effect on the environment

There is no risk of a negative influence on the environment during the transport, handling, storage and use of the product. The disposal of damaged products shall be carried out by taking them to a waste dump. The waste catalogue number is 07 02 99.