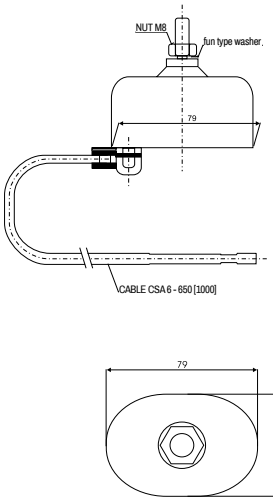
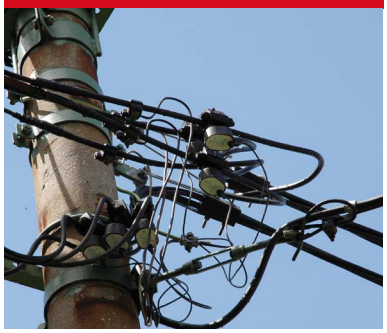
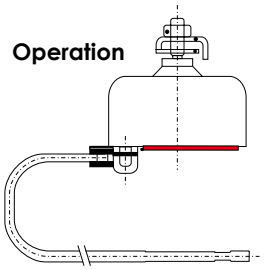
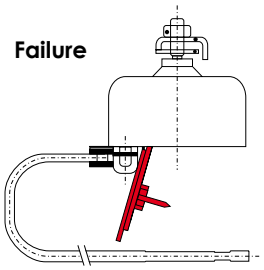


SURGE ARRESTER
SPB */10 PP*
LV POWER PROTECTION
ON FLAT BUSBARS



SURGE ARRESTER SPB */10 PP*





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

Technical data		SPB 0,280/10 PP *	SPB 0,440/10 PP *	SPB 0,500/10 PP *	SPB 0,660/10 PP *	SPB 0,900/10 PP *
Category tested in accordance with EN 61643-11				//		
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	$\dagger_A$			< 25 ns		
Operating temperature range	ϑ			-40°C ÷ + 80°C		
Mounting				vertically with max. departure ± 45° C		
Protection type				IP65		
Protection				internal thermal disconnector		
Weight	m	230 g	235 g	250 g	270 g	300 g
* : conductor lenght and color				Article number		
100gy : 100cm,green-yellow		90156	90170	90210	90216	90222
100b : 100cm, black		90157	90171	90211	90217	90223
80gy : 80cm, green-yellow		90158	90172	90212	90218	90224
80b : 80cm, black		90159	90173	90213	90219	90225
65gy : 65cm, green-yellow		90160	90174	90214	90220	90226
65b : 65cm, black		90161	90175	90215	90221	90227

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.