PFISTERER

Surge Arrester, Size 4, for GIS and Offshore

The surge arrester model series HV-CONNEX size 4 is used to protect metal-enclosed switchgears (GIS) or transformers which are equipped with size 4 HV-CONNEX bushings (with or without voltage tap). The surge arrester is installed directly onto the switchgear or transformer and prevents excessively high levels of over voltage from entering the system. The surge arresters are particularly suited to limiting over voltages caused by the reflection of travelling waves.

Use of these arresters requires the transition from the overhead line to the cable to be protected with suitable arresters when using a length of cable to connect the switchgear to the overhead line.

Picture may vary.

Properties of HV-CONNEX surge arresters:

- Enclosed system
- Solid insulation
- No arcing
- High short-circuit strength
- Maintenance-free
- Resistant for outdoor use

Regulations:
Specified parameters are based on tests under the surge arrester standard IEC 60099-4.

Technical Data

Article no.		827 542 525
Size		4
Applicable standards		IEC 60099-4
Environment temperature	(°C)	-25 bis +40
Rated voltage U_r	U_r (kV)	52,5
Max. continuous rating U_c	U_c (kV)	42
temporary surge	$U_{TOV(1s)}$ (kV)	56.2
temporary surge	$U_{TOV(10s)}$ (kV)	54.1
Max. residual voltage U_{res} at 1/2 µs 10 kA	1/2 µs 10 kA (kV)	154
Max. residual voltage U_{res} at 5 kA, 8/20 µs	8/20 µs 5 kA (kV)	131
Max. residual voltage U_{res} at 8/20 µs 10 kA	8/20 µs 10 kA (kV)	139,9
Max. residual voltage U_{res} at 8/20 µs 20 kA	8/20 µs 20 kA (kV)	159
Max. residual voltage U_{res} at 30/60 µs 125 A	30/60 µs 125 A (kV)	103

Article no.		827 542 525
Max. residual voltage U_{res} at 30/60 µs 500 A	30/60 µs 500 A (kV)	109
Rated discharge surge current	(kA)	10
Bemessungs-Kurzschlusstrom	(kA)	40
High peak current	(kA)	100
Long-wave peak current	(A)	420
Line discharge class		2
Power consumption capacity	(kJ/kV)	4,28
Protection Type		IP 66
Weight	(kg)	40