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Surge Arrester, Size 6, for Transformators and Offshore

The surge arrester model series HV-CONNEX size 6 is used to protect metal-enclosed switchgears (GIS) or transformers which are equipped with size 6 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.

Properties of HV-CONNEX surge arresters:

- Enclosed system
- Solid insulation
- No arcing
- High short-circuit strength
- Maintenance-free
- Resistant for outdoor use
- Protection rating IP 66

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

Picture may vary.

Technical Data

Article no.		827 547 144
Size		6
Applicable standards		IEC 60099-4
Rated voltage U_r	U_r (kV)	144
Max. continuous rating U_c	U_c (kV)	115
temporary surge	$U_{TOV(1s)}$ (kV)	163
temporary surge	$U_{TOV(10s)}$ (kV)	151
Max. residual voltage U_{res} at 1/2 µs 20 kA	1/2 µs 20 kA (kV)	398
Max. residual voltage U_{res} at 8/20 µs 10 kA	8/20 µs 10 kA (kV)	335
Max. residual voltage U_{res} at 8/20 µs 20 kA	8/20 µs 20 kA (kV)	366

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Article no.		827 547 144
Max. residual voltage U_{res} at 8/20 µs 40 kA	8/20 µs 40 kA (kV)	408
Max. residual voltage U_{res} at 30/60 µs 1000 A	30/60 µs 1000 A (kV)	287
Max. residual voltage U_{res} at 30/60 µs 2000 A	30/60 µs 2000 A (kV)	300
Rated discharge surge current	(kA)	20
Bemessungs-Kurzschlusstrom	(kA)	40
High peak current	(kA)	100
Long-wave peak current	(A)	900
Line discharge class		4
Power consumption capacity	(kJ/kV)	10
Protection Type		IP 66
Weight	(kg)	88

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