

Data Sheet no. 8.13/5

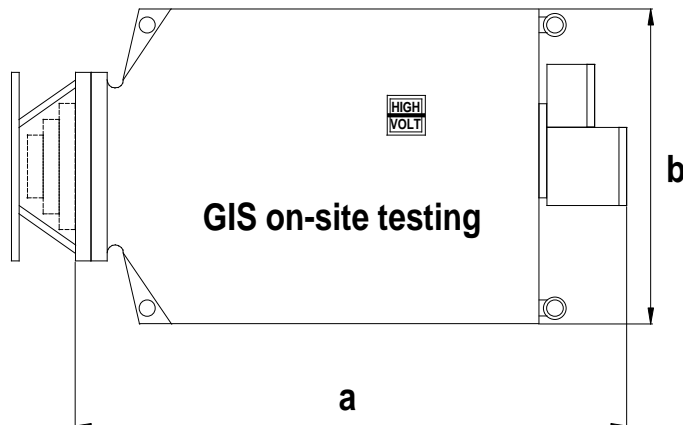
SF₆-Insulated Reactors

Description:

SF₆-Insulated Reactors have been developed for the use in Resonant Test Systems with variable frequency for GIS on-site testing and are directly flanged to the GIS. They are also suited to increase the test power of conventional low-power SF₆-insulated test transformers essentially by a high-voltage-side parallel compensation of the capacitive reactive power. Furthermore they can be equipped

with a SF₆-to-air bushing for testing air-insulated components or GIS via air bushings.

The design of these resonant reactors is similar to that of instrument transformers with a combined SF₆-foil-insulation and a disk bushing. A capacitive divider for the voltage measurement is integrated in the pressure vessel.



Type designation:

DEG a/b-c

a – equivalent 50 Hz test power

b – rated voltage

c – rated current

type		DEG 680/400-1.7	DEG 960/460-1.5	DEG 1020/680-1.5	DEG 450/740-0.6
Inductance	H	352	720	720	2800
Voltage	kV	400	460	680	740
Current; Duty cycle	A	1.7 for 15 min 0.9 for 60 min	1.5 for 15 min 0.8 for 60 min	1.5 for 15 min 0.8 for 60 min	0.6 for 15 min 0.3 for 60 min
Load capacitance	nF	1.2 - 28	0.6 - 14	0.6 - 14	0.14 - 3.6
Frequency range	Hz	50 - 300	50 - 300	50 - 300	50 - 300
Length (a)	mm	1780	1780	1780	2040
Diameter (b)	mm	950	950	950	950
Weight	kg	760	780	780	900

Realised examples, modification of the technical data on request.