

Data Sheet no. 8.21/3

Exciter Transformers for GIS Testing with Variable Frequency, Type ETO

Description

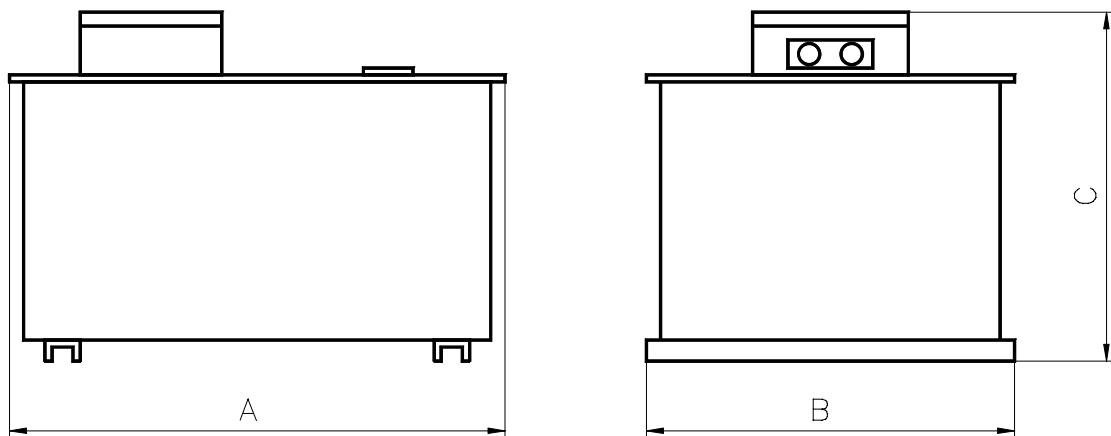
These types of exciter transformers have been developed for use in Resonant Test Systems with variable frequency for the on-site testing of GIS objects by using one gas-insulated resonant reactor (Data Sheet 8.13) or up to four modular reactors (Data Sheet 8.11).

The transformers are realized in conventional tank-type design with oil-paper insulation and natural oil cooling. The transformers are especially designed for the application in on-site tests including frequent transportation. In the standard design they are filled with standard transformer oil. As an option the transformers can be delivered with the biodegradable insulation fluid Middle 7131 also.

The high voltage is led out through a coaxial HV connector. A connection cable with corresponding plugs at both ends is meant for the connection to the resonant reactor.

The transformer has two equal primary windings which can be connected in parallel or series to realize two different transformer ratios for better adaptation of the output voltage to the requirements of the test. For the connection of the Control and Feeding Unit type RSE a special multicontact connector is built in a box on the top of the transformers.

All transformers have a grounded shield between the primary and secondary winding to reduce the capacitive coupling.



type		ETO 3.8/10-50	ETO 3.6/11-50	ETO 1.5/16-40	ETO 1.5/18-50	ETO 1.5/21-50	ETO 4.9/7.8-50
Nominal Power	kVA	38	39	24	25	29	38
Input Voltage	V	550	600	550	550	550	550
Output Voltage	kV	5 / 10	4.2 / 5.1 / 8.4 / 10.2	7.8 / 15.4	8.9 / 17.9	10.3 / 20.6	3.9 / 7.8
Output Current	A	3.8	3.6	1.5	1.5	1.5	4.9
Frequency Range	Hz	50 ... 300		40 ... 300	50 ... 300		50 ... 300
Duty Cycle		1 hr ON- 1 hr OFF 6 cycles per day	20 min ON- 6 hr OFF 3 cycles per day	30 min ON – 60 min OFF 3 cycles per day	15 min ON – 45 min OFF 3 cycles per day		15 min ON – 60 min OFF 4 cycles per day
Length (A)	mm	700	700	700	700	700	700
Width (B)	mm	520	520	520	520	520	520
Height (C)	mm	500	500	500	500	500	500
Weight	kg	240	240	290	290	290	350

Modification of the technical data on request

Type designation: ETO a/b-c

a – rated output current

b – rated output voltage

c – minimum frequency

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