

Data Sheet no. 8.24/2

## Exciter Transformers for GIS Testing with Variable Frequency, Type PEAS <sup>1)</sup>

### 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 modular reactors (Data Sheet 8.11).

The transformers are realized in conventional design with air cooling and are covered by a steel case. They are especially designed for on-site testing including frequent transportation and outdoor operation.

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.

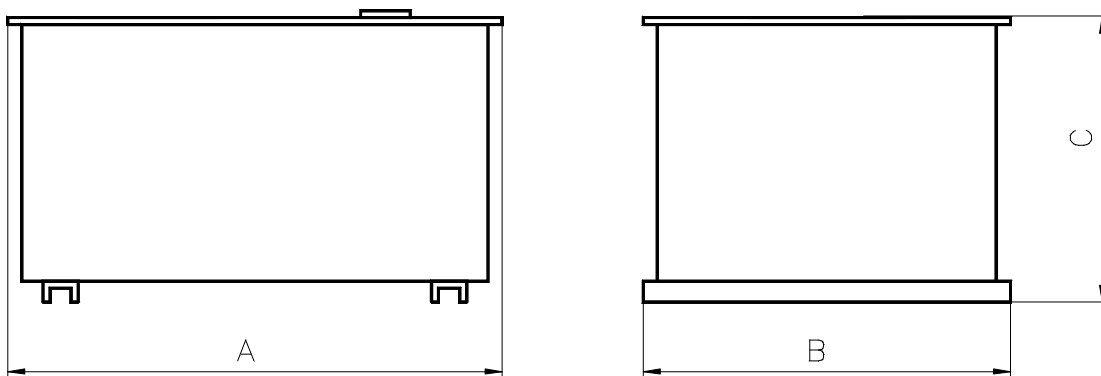


Fig. 1: Schematic sketch of exciter transformer

Table 1: Technical Parameters

Type		PEAS 16/3.3	PEAS 41/5.5
former type		ET 5/3.3-50	ET 6/5.5-40
Input Voltage	V	550	550
Output Voltage	kV	1.65 / 3.3	2.75 / 5.5
Output Current	A	5	6
Frequency Range	Hz	50 ... 300	40 ... 300
Duty Cycle		1 hr ON – 1 hr OFF 6 cycles per day	1 hr ON – 1 hr OFF 6 cycles per day
Length (A)	mm	450	500
Width (B)	mm	500	500
Height (C)	mm	250	350
Weight	kg	120	250

Modification of the technical data on request

Type designation: PEAS      **a/b**  
a – type power in kVA  
b – rated output voltage in kV

<sup>1)</sup> The type designation was changed with Data Sheet version no. 8.24/2 from ET to PEAS.

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