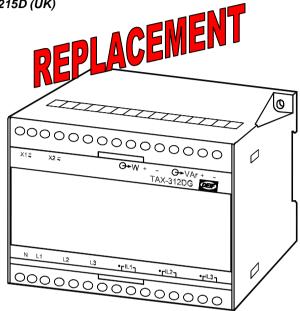


## Dual output power transducer type TAX-312DG/1

4189340215D (UK)



- Combined Watt and Var transducer
- Voltage up to 690V
- 35 mm DIN rail or base mounting

CE

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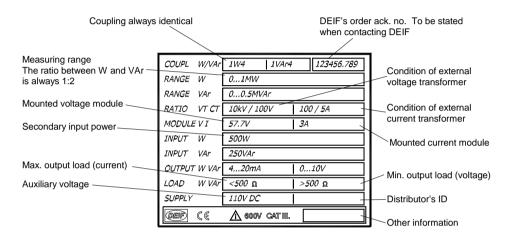


### 1. Description

TAX-312DG/1 is a power transducer with two analogue outputs for measurement of Watt and Var.

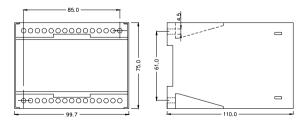
#### 2. Label

The transducer is provided with a label with the following data:



**Note 1:** For coupling 1Var and 1Var4 the frequency has to be exactly 50Hz to ensure that the transducer observes class 1.0. Other frequencies than 50Hz are stated in the section "Other Information".

# 3. Mounting instructions



TAX-312DG/1 is designed for panel mounting, being mounted on a 35 mm DIN rail, or by means of two 4-mm screws.

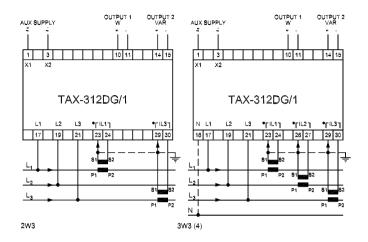
Weight: Approx. 0.650 kg

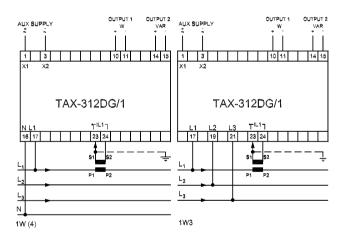
The design of the transducer makes mounting of it close to similar equipment possible, however make sure there are min. 50 mm between the top and bottom of this transducer and other equipment.

The DIN rail must always be placed horizontally when several transducers are mounted on the same rail.

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# 4. Connection diagram





A 2A fuse may protect all voltage inputs.

The transducer is protected against ESD (electrostatic electricity), and further special protection against this during the mounting of the transducer is not necessary.



The voltage inputs are connected as follows, if the current transformers are placed in other phases than indicated in the above diagram:

**2W3** (please see note 2 at the bottom of this page):

External current transformer	Connect		
- connected to	L1	L3	L2
L1 (23 + 24) and L2 (29 + 30)	to term. no. 17	to term. no. 19	to term. no. 21
- connected to	L2	L1	L3
L2 (23 + 24) and L3 (39 + 30)	to term. no. 17	to term. no. 19	to term. no. 21

Couplings 1W and 1W4: Connect terminal no. 17 to the phase to which the external current transformer is connected.

#### 1W3:

External current transformer	Connect		
- connected to L2	L2	L3	L1
	to term. no. 17	to term. no. 19	to term. no. 21
- connected to L3	L3	L1	L2
	to term. no. 17	to term. no. 19	to term. no. 21

### 5. Technical specifications

Overload, currents: x In, continuously

20 x In for 10 s (max. 75A)

80 x  $I_n$  for 1 s (max. 300A)

Load: Max. 0.5VA per phase

Overload, voltages:  $1.2 \times U_n$ , continuously,  $2 \times U_n$  for  $10 \times U_n$ 

Load: 2kO/V

Frequency range: 40...45...65...70Hz

Please note: Coupling 1Var 50Hz or 60Hz according to label

Outputs: 2 analogue outputs, referring to mutual ground

Current: Max. 10V Output load:

> Max. 20mA Voltage:

-10...55°C (nominal) Ambient temperature:

> -25...70°C (operating) -40...70°C (storage)

Response time/ripple: <150 ms/1%pp

Galv. separation: Between inputs, outputs and aux. supply: 4000V-50Hz-1 min.

(Aux. supply) 3.5VA/2W Consumption:

Note 2: Very important information:

This will result in a negative output from output 2 (VAr).

Do not cross connect the output 2 if output 1 and 2 are

connected to the same potential (mutual ground).

Also please notice that live zero is not possible (4...20mA).

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