a 2011 0070

The invention relates to the field of electrical engineering, namely to installations for changing the value of the alternating voltage, and can be used in the systems for power supply of consumers.
The installation for changing the value of the alternating voltage comprises a power transformer (1) with primary and secondary (4) windings. The primary winding of the power transformer (1) consists of a main section (3) and n additional separate identical sections (3a…3n), the leads of which are interconnected. The secondary winding (4) of the power transformer (1) is equipped with an auxiliary winding (5), to which are connected the first rectifier (6), the first filter (7) and a voltage stabilizer (8), connected in series. In series with the secondary winding (4) of the power transformer (1) is connect the primary winding (2a) of an instrument transformer (2), to the secondary winding (2b) of which are connected the second rectifier (9) and the second filter (10), connected in series. The installation further comprises n measuring voltage dividers (11a…11n), n reference voltage dividers (12a…12n), n comparators (13a…13n) and n relays (14a…14n). The leads of the additional sections (3a…3n) of the primary winding of the power transformer (1) are connected with the beginning of the main section (3) of the primary winding of the power transformer (1) through the normally open contacts (14aK…14nK) of the n relays (14a…14n).

Claims: 1
Fig.: 2