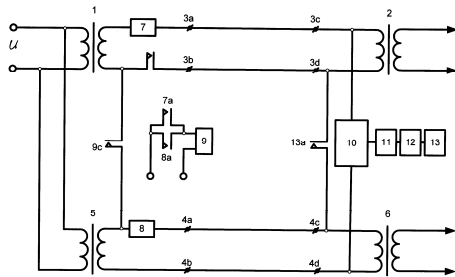


The invention relates to the field of electrical engineering, namely to electric power transmission plants, and can be used in systems for electric power supply of consumers.

The electric power transmission plant consists of two identical electric power transmission systems, each of which contains the first (1, 5) and second (2, 6) step-down transformers, connected in series by a double-wire air power line (3a-3c, 3b-3d; 4a-4c, 4b-4d). The primary windings of transformers (1, 5) are interconnected in parallel. Between the beginnings of the secondary windings of transformers (1, 5) and the first wires (3a-3c, 4a-4c) is included one identical current relay (7, 8) with a current release less than the operating current of at least 2.5 times. In the first electric power transmission system the second wire (3b-3d) is connected to the end of the secondary winding of the transformer (1) through the second normally closed contacts (9c) of the first high-voltage switch (9), and the same end of the secondary winding is connected through the first normally open contacts (9a) of the switch (9) to the beginning of the secondary winding of the transformer (5). The beginning of the primary winding of the transformer (2) is connected to the end of the primary winding of the transformer (6) through a high-voltage divider (10), to the outputs of which are connected serially connected a digital voltage meter (11), an analog-to-digital converter (12) and a second high-voltage switch (13). The end of the primary winding of the transformer (2) and the beginning of the primary winding of the transformer (6) are connected through the normally-open contacts (13a) of the switch (13). The insulators, on which are suspended the wires (3a-3c, 3b-3d; 4a-4c, 4b-4d) in the two electric power transmission systems are calculated for a voltage  $2U_1$ .

Claims: 2

Fig.: 1



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