

The invention relates to electrical engineering, and can be used, for example, to connect three-phase alternating current power systems.

The transformer device, according to the invention, consists of the main and additional three-phase transformers, at the same time the windings of the main transformer are connected in a ring circuit with  $m$ -taps distributed over the winding of the ring circuit, three of which are connected to the first power system, and the inputs of three electronic switches are connected to each tap, numbered in a circle, which are included in three separate identical blocks of keys. Windings of an additional transformer are connected to the outputs of each block of switches, respectively. In each block, the outputs of the switches with even numbers are electrically connected together and connected to the first terminal of the winding of the additional transformer, and the outputs of the switches with odd numbers are electrically connected together and connected to the second terminal of the winding of the additional transformer, at the same time each of these windings has  $n$ -taps, to each of which is connected the input of one output electronic switch, which form three separate identical groups. In each group, the outputs of these switches are electrically connected together and connected to the phases of the second power system.

Claims: 1

Fig.: 3