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The invention relates to the electrical engineering, in particular, to the voltage, current, phase, current type, phase rotation converters, etc.

The summary of the invention consists in the fact that the converter with magnetic orthogonal fields comprises a hollow magnetic circuit made in the form of a toroid, consisting of two hollow cylinders 1, 3, installed one into another with a gap and closed from two sides with plane disks 2 with an opening in the center. In the conjugation places of cylinders 1, 3 with plane disks 2 there are executed scarf joints. The first pair of windings 4, 5 is placed into the cavity of the magnetic circuit and the second pair of windings 6, 7, which is made toroidal is applied over it.

The technical result consists in the simplification of construction, reduction of mass, iron loss and extension of the application field.

Claims: 5

Fig.: 14