

Title (en)
LOW NOISE SPECIAL TRANSFORMER

Title (de)
GERÄUSCHARMER SPEZIALTRANSFORMATOR

Title (fr)
TRANSFORMATEUR SPECIAL MOINS BRUYANT

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Abstract (en)
[origin: WO2016193958A1] The invention relates to a temperature resistant special transformer having excellent structure borne sound and/or airborne sound behaviour at the same time as a small, extremely flat construction and excellent overall efficiency. According to the invention, the transformer windings are distributed over three chambers as linearly consecutive, aligned coils having a single centrosymmetric primary coil (20) and two further coils (10, 30), electrically interconnected as a secondary winding, the coils being mechanically linked to one another in a chain. Such a transformer has a significantly lower input current in idle than in the lowest intended capacitive loading condition. In addition, the aforementioned advantageous acoustic characteristics are further improved by means of a special encapsulation of the transformer in an associated housing. The invention also relates to a method for producing the transformer at optimal cost and to the use of such a transformer in the automotive sector.

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