

Title (en)

CHOKE HAVING WINDINGS AROUND CORE MEMBERS MADE UP OF IRON CORES SHAPED AS DISCS

Publication

EP 0107013 A3 19840704 (DE)

Application

EP 83109084 A 19830914

Priority

DE 3236117 A 19820929

Abstract (en)

[origin: EP0107013A2] 1. A choke for large electric outputs having windings (1) round core flanks made of axially aligned and spaced iron core discs (2) and with yokes (3) which are arranged at the ends above and below the windings and which are fixed by metallic tension elements (4) which coaxially penetrate the iron core discs (2), where said tension elements (4) are made of a high-tensile steel and exclusively dimensioned by taking into consideration the mechanical stress, characterised in that, in the region of the iron core discs (2) and the yokes (3), the tension elements (4) are surrounded by a sealed casing (6) consisting of a material of high electrical conductivity, e. g. of copper or aluminium, which is contrived to be such that the eddy currents produced in the casing (6) reduce the magnetic field inside the tension elements (4) in relation to the magnetic field, which is to be expected without a casing, to a partial amount which is just sufficient in order to maintain the eddy currents in the casing (6) and that the tension element (4) has a rectangular cross-section and the longer sides of the cross-section are arranged to be parallel to the layer direction of the sheets in the yoke (3).

IPC 1-7

H01F 27/26; H01F 27/34

IPC 8 full level

H01F 27/26 (2006.01); **H01F 27/34** (2006.01)

CPC (source: EP)

H01F 27/263 (2013.01)

Citation (search report)

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EP 0107013 A2 19840502; EP 0107013 A3 19840704; EP 0107013 B1 19861203; AT E24065 T1 19861215; BR 8305296 A 19840502; CA 1211170 A 19860909; DE 3236117 A1 19840329; DE 3368145 D1 19870115

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