

Title (en)

Inductor assembly comprising at least one inductor coil thermally coupled to a metallic inductor housing

Title (de)

Induktoranordnung mit mindestens einer Induktionsspule, die thermisch an ein metallisches Induktorgehäuse gekoppelt ist

Title (fr)

Ensemble de bobine d'induction comprenant au moins une bobine d'inductance couplée thermiquement à un boîtier de bobine d'induction métallique

Publication

EP 2958118 A1 20151223 (EN)

Application

EP 14173136 A 20140619

Priority

EP 14173136 A 20140619

Abstract (en)

An inductor assembly (1) comprises at least one inductor coil (3), a metallic inductor housing (2) at least partially enclosing the inductor coil (3), and a potting material both contacting the inductor coil (3) and the metallic inductor housing (2) and thermally coupling the inductor coil (3) to the metallic inductor housing (2). The inductor coil (3) includes a bobbin (20) made of electrically insulating material, and an inductor winding (4) made of an electric conductor (25) wound on the bobbin (20). The inductor winding (4) further has an outer circumference and two end faces (27), and an electric insulation (5) covers the outer circumference of the inductor winding (4). Coil lids (11) made of electrically insulating material at least partially cover the end faces (27) of the inductor winding (4) and adjacent areas of the electric insulation (5) covering the outer circumference of the inductor winding (4) such that a distance of any point of the end faces (27) of the inductor winding (4) to the metallic housing (2) along any way not passing through the electrically insulating material of the coil lids (11) or the bobbin (20) is at least a required minimum creepage distance (28).

IPC 8 full level

H01F 27/32 (2006.01); **H01F 27/34** (2006.01)

CPC (source: CN EP)

H01F 27/306 (2013.01 - CN); **H01F 27/324** (2013.01 - CN EP); **H01F 27/34** (2013.01 - EP); **H01F 37/00** (2013.01 - CN); **H01F 2027/2857** (2013.01 - CN)

Citation (applicant)

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Citation (search report)

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Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

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