

Title (en)

Reactor coil, particularly for operating high-pressure metal vapour lamps.

Title (de)

Schwingdrossel insbesondere zum Betreiben von Metaldampfhochdrucklampen.

Title (fr)

Bobine de réactance, en particulier pour la commande de lampes à vapeur métallique sous haute pression.

Publication

EP 0445704 B1 19931103 (DE)

Application

EP 91103237 A 19910304

Priority

DE 4007148 A 19900307

Abstract (en)

[origin: EP0445704A2] A reactor coil is proposed, whose ferrite core 3' has an air gap 1' in the region of the coil former 2' and which is particularly suitable for operating high-pressure metal vapour lamps which operate with a low-frequency burning current and whose starting voltage is generated at high frequency. In the reactor coil according to the invention, the cross-sectional area A surrounded by the winding base 2a' of the coil former 2' is reduced in the region of the air gap 1' with respect to the cross-sectional area B in the region of the transition of the field lines from the air into the ferrite of the core 3'. In comparison with known reactor coils of the type mentioned initially, in which the winding base of the coil former has a constant unobstructed width over the length of the air gap, in this way a better quality is achieved with the same dimensions, or smaller dimensions are obtained with the same quality. <IMAGE>

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