

Title (en)
Controlling and measuring the functions of an electronic ballast

Title (de)
Steuerung und Messung der Funktionen eines elektronischen Vorschaltgerät

Title (fr)
Contrôle et mesure des fonctions d'un ballast électronique

Publication
EP 2271187 A3 20130320 (EN)

Application
EP 10163702 A 20100524

Priority
FI 20095737 A 20090630

Abstract (en)
[origin: EP2271187A2] The invention relates to a lamp for producing illuminating radiation, said lamp comprising an electronic ballast 102 for establishing an ignition voltage for the lamp in order to initiate the production of illuminating radiation, said electronic ballast 102 comprising at least two switching transistors Q1, Q2 for supplying current to at least one coil L1 which develops the lamp ignition voltage, and the electronic ballast 102 having a control circuit 104 integrated therewith. The electronic ballast 102 comprises at least two resistors R8 and R10 arranged at least in a series connection relative to each other for measuring and/or regulating the currents of said at least two switching transistors Q1 and Q2, said resistor R8 being in connection with the switching transistor Q2 and the resistor R10 being in a series connection with the resistor R8 and with a voltage source. The electronic ballast 102 comprises the series connection of said resistors R8 and R10 for operating said control circuit 104 in order to detect whether a current passing through the switching transistor Q1 or Q2 is overly high with respect to a limit current value set for the control circuit, and by operating said control circuit 104, for immediately switching off the control of that switching transistor Q1 or Q2 which switching transistor Q1 or Q2 has been found with an overly high passing current and for immediately switching on the current of the other switching transistor Q1 or Q2.

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Citation (search report)
• [I] WO 2008119613 A1 20081009 - OSRAM GMBH [DE], et al
• [I] WO 2004071136 A1 20040819 - KONINKL PHILIPS ELECTRONICS NV [NL], et al
• [A] EP 2046099 A1 20090408 - HELVAR OY AB [FI]

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