

Title (en)

TYPE RECOGNITION OF A GAS DISCHARGE LAMP TO BE OPERATED WITH AN ELECTRONIC BALLAST

Title (de)

TYPKERENNUNG EINER MIT EINEM ELEKTRONISCHEN VORSCHALTGERÄT ZU BETREIBENDEN GASENTLADUNGSLAMPE

Title (fr)

IDENTIFICATION DU TYPE D'UNE LAMPE À DÉCHARGE DESTINÉE À FONCTIONNER AVEC UN BALLAST ÉLECTRONIQUE

Publication

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Application

EP 09716525 A 20090226

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Abstract (en)

[origin: WO2009109325A1] The invention relates to a method for determining the type of gas discharge lamp (L) to be operated with an electronic ballast (V). According to said method, the coil voltage and the coil current are measured according to two successive times during the pre-heating phase. The heating power or the heating current is kept constant. From the measured current and voltage values, the cold resistance (Rcold) and the hot resistance (Rhot) are calculated and the differential resistance (Rdiff), that is normally independent of the starting temperature of the coil, is formed therefrom. In order to determine whether the gas discharge lamp is replaced by a substitution resistance (Rsub) for test purposes, it is tested whether the differential resistance (Rdiff) is lower than the substitution resistance (Rsub) and if this is the case, the hot resistance value (Rhot) is set as the differential resistance (Rdiff). With the aid of the thus defined differential resistance (Rdiff), the type of lamp is determined by comparing it to the stored reference values (level 1, level 2, level 3) in order to set corresponding operational parameters.

IPC 8 full level

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