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IEC 60947-4-3:1999 Low-voltage switchgear and controlgear - Part 4-3: Contactors and motor-starters - AC semiconductor controllers and contactors for non-motor loads

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Abbreviation

IEC 60947-4-3:1999

Valid from

30/09/1999

Information provider

International Electrotechnical Commission

Author

International Electrotechnical Commission

Information type

IEC Standard

Format

PDF

Cited By

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Description

This part of IEC 60947 covers low-voltage a.c. semiconductor controllers and contactors (solid-state contactors) intended for the use with non-motor loads. As controllers, they have many capabilities beyond the simple switching on and off of non-motor loads. As contactors, they perform the same functions as mechanical contactors, but utilize one or more semiconductor switching devices in their main poles.

Scope

This part of IEC 60947 applies to a.c. semiconductor non-motor load controllers and contactors intended for performing electrical operations by changing the state of a.c. electric circuits between the ON-state and the OFF-state.

Typical applications are given in table 2. As controllers, they may be used to reduce the amplitude of the r.m.s. a.c. voltage on the load terminals from that of the applied voltage – either continuously or for a specified period of time. The half-wave period of the a.c. wave form remains unchanged from that of the applied voltage. They may include a series mechanical switching device and are intended to be connected to circuits, the rated voltage of which does not exceed 1000 V a.c.

The semiconductor controllers and contactors dealt with in this standard are not normally intended to interrupt short-circuit currents. Therefore, suitable short-circuit protection (see 8.2.5) should form part of the installation but not necessarily of the controller itself. In this context, this standard gives requirements for semiconductor controllers and contactors associated with separate short-circuit protective devices. This standard does not apply to – continuous operation of a.c. motors; – low-voltage a.c.

semiconductor motor controllers and starters covered by IEC 60947-4-2; – electronic a.c. power controllers covered by IEC 60146; – all-or-nothing solid-state relays.

Contactors and control-circuit devices used in semiconductor controllers and contactors should comply with the requirements of their relevant product standard. Where mechanical switching devices are used, they should meet the requirements of their own IEC product standard and the additional requirements of this standard.

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