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TECHNICAL REPORT

Mnemonics and designations of symbols for measuring relays, instruments and related device

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

MNEMONICS AND DESIGNATIONS OF SYMBOLS FOR MEASURING RELAYS, INSTRUMENTS AND RELATED DEVICE

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IEC 62711, which is a technical report, was prepared by IEC technical committee 3: Information structures, documentation and graphical symbols.

The text of this technical report is based on the following documents:

Enquiry draft	Report on voting
3/1029A/DTR	3/1041/RVC

Full information on the voting for the approval of this technical report can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

A bilingual version of this standard may be issued at a later date.

MNEMONICS AND DESIGNATIONS OF SYMBOLS FOR MEASURING RELAYS, INSTRUMENTS AND RELATED DEVICE

1 Scope

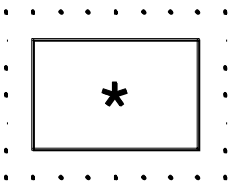
This Technical Report provides recommendations for consistent use of mnemonics and qualifying symbols to be applied to symbols representing devices used in systems for monitoring, protection, switching, and controlling of apparatus in electrical substations, generating stations, power utilization and conversion facilities, and equipment designed for automatic protection of power systems. The recommendations are intended for designers, manufacturers and engineers of such systems.

For symbols of measuring relay and measuring instrument, it is intended to serve two purposes, namely:

– Give a review of standardized designations (as defined in this report);

– Limit the range of possible variants (after final standardization and introduction in IEC 60617).

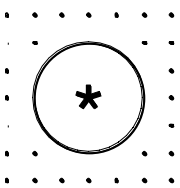
Symbols for measuring relays are symbols in which the functional behaviour of an element, mostly because of its complexity, is described by qualifying symbols e.g. IEC 60617-S00328 (2001-07), IEC 60617-S00337 (2001-07), particularly by referring to supporting documentation; the relevant rules and explanations are to be found in IEC 60617 in the application notes associated with the symbols, e.g. IEC 60617-S00327 (2001-07) (A00091 through A00094).



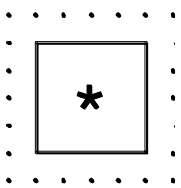
IEC 60617-S00327 (2001-07):
Measuring relay

Figure 1 – The general symbol for a measuring relay in IEC 60617

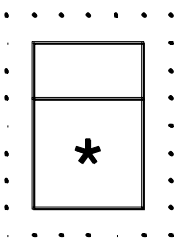
Symbols for indicating, recording or integrating instruments are symbols in which the functional behaviour of an element is fully described by standardized means. The relevant rules and explanations are to be found in IEC 60617 in the application notes associated with the symbols IEC 60617-S00910 (2001-07), IEC 60617-S00911 (2001-07) and IEC 60617-S00912 (A00144 through A00147).



IEC 60617-S00910 (2001-07):
Indicating instrument



IEC 60617-S00911 (2001-07):
Recording instrument



IEC 60617-S00912 (2001-07):
Integrating instrument

Figure 2 – The general symbols for a measuring instrument in IEC 60617

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60617, *Graphical symbols for diagrams*

ISO/IEC 81714-1, *Design of graphical symbols for use in the technical documentation of products – Part 1: Basic rules*