



TECHNICAL REPORT



**Surge arresters –
Part 10: Rationale for tests specified by IEC 60099-4:2014**

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

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IEC TR 60099-10 has been prepared by IEC technical committee 37: Surge arresters. It is a Technical Report.

The text of this Technical Report is based on the following documents:

Draft	Report on voting
37/XX/DTR	37/XX/RVDTR

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

The language used for the development of this Technical Report is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

A list of all parts in the IEC 60099 series, published under the general title *Surge arresters*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

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INTRODUCTION

This part of IEC 60099, which is a Technical Report, is informative in nature and does not contain requirements. Its primary purpose is to provide information to users of IEC 60099-4 to help them understand the underlying rationale for the tests and the specified test parameters.

A secondary purpose is to keep a record of substantive changes in the rationale over the last few editions of the standard.

This first edition of the Technical Report covers the tests specified in IEC 60099-4:2014. As tests are added, modified or deleted in future editions of IEC 60099-4, it is planned to amend this Technical Report to reflect such changes. It is understood that rationale behind requirements may change significantly over time, for example when a whole new test philosophy is implemented in a standard.

SURGE ARRESTERS –

Part 10: Rationale for tests specified by IEC 60099-4:2014

1 Scope

This part of IEC 60099, which is a Technical Report, is applicable to all tests and arrester types included in IEC 60099-4:2014 and explains the rationale behind each test specified in that document.

This document does not contain requirements and is not intended to replace any clauses of IEC 60099-4:2014.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 60099-4:2014, *Surge arresters – Part 4: Metal-oxide surge arresters without gaps for a.c. systems*