

**Polymeric thermistors - Directly heated positive  
step function temperature coefficient -- Part 1-1:  
Blank detail specification - Current limiting  
application**

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 62319-1-1:2005 sisaldab Euroopa standardi EN 62319-1-1:2005 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 27.04.2005 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 11.03.2005.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 62319-1-1:2005 consists of the English text of the European standard EN 62319-1-1:2005.

This standard is ratified with the order of Estonian Centre for Standardisation dated 27.04.2005 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

Date of Availability of the European standard text 11.03.2005.

The standard is available from Estonian standardisation organisation.

ICS 31.040.30

Võtmesõnad:

### Standardite reprodutseerimis- ja levitamiseõigus kuulub Eesti Standardikeskusele

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**Polymeric thermistors -  
Directly heated positive step function temperature coefficient  
Part 1-1: Blank detail specification -  
Current limiting application  
(IEC 62319-1-1:2005)**

Thermistances polymères  
Coefficient de température positif  
de fonction échelon à chauffage direct  
Partie 1-1: Spécification particulière cadre -  
Application de limitation de courant  
(CEI 62319-1-1:2005)

Temperaturabhängige Widerstände  
aus Polymerwerkstoffen -  
Direkt geheizte temperaturabhängige  
Widerstände mit positivem  
Temperaturkoeffizienten  
Teil 1-1: Vordruck  
für die Bauartspezifikation -  
Anwendung für die Strombegrenzung  
(IEC 62319-1-1:2005)

This European Standard was approved by CENELEC on 2005-02-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

# CENELEC

European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**Central Secretariat: rue de Stassart 35, B - 1050 Brussels**

## Foreword

The text of document 40/1506/FDIS, future edition 1 of IEC 62319-1-1, prepared by IEC TC 40, Capacitors and resistors for electronic equipment, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 62319-1-1 on 2005-02-01.

The following dates were fixed:

- |  |       |            |
|--|-------|------------|
| – latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement | (dop) | 2005-12-01 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn   | (dow) | 2008-02-01 |

Annex ZA has been added by CENELEC.

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## Endorsement notice

The text of the International Standard IEC 62319-1-1:2005 was approved by CENELEC as a European Standard without any modification.

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## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

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.

NOTE Where an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60068	Series	Environmental testing	EN 60068	Series
IEC 60410	- <sup>1)</sup>	Sampling plans and procedures for inspection by attributes	-	-
IEC 62319-1	- <sup>1)</sup>	Polymeric thermistors - Directly heated positive step function temperature coefficient Part 1: Generic specification	EN 62319-1	2005 <sup>2)</sup>

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<sup>1)</sup> Undated reference.

<sup>2)</sup> Valid edition at date of issue.

# INTERNATIONAL STANDARD

**IEC**  
**62319-1-1**

First edition  
2005-02

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**Polymeric thermistors –  
Directly heated positive step function  
temperature coefficient –**

**Part 1-1:  
Blank detail specification –  
Current limiting application**



Reference number  
IEC 62319-1-1:2005(E)

## Publication numbering

As from 1 January 1997 all IEC publications are issued with a designation in the 60000 series. For example, IEC 34-1 is now referred to as IEC 60034-1.

## Consolidated editions

The IEC is now publishing consolidated versions of its publications. For example, edition numbers 1.0, 1.1 and 1.2 refer, respectively, to the base publication, the base publication incorporating amendment 1 and the base publication incorporating amendments 1 and 2.

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- **IEC Web Site** ([www.iec.ch](http://www.iec.ch))

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Commission Electrotechnique Internationale  
International Electrotechnical Commission  
Международная Электротехническая Комиссия

PRICE CODE

**M**

*For price, see current catalogue*

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**POLYMERIC THERMISTORS –  
DIRECTLY HEATED POSITIVE STEP FUNCTION  
TEMPERATURE COEFFICIENT –**

**Part 1-1: Blank detail specification –  
Current limiting application**

## FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 62319-1-1 has been prepared by IEC technical committee 40: Capacitors and resistors for electronic equipment.

The text of this standard is based on the following documents:

FDIS	Report on voting
40/1506/FDIS	40/1535/RVD

Full information on the voting for the approval of this standard 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 maintenance result 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 publication may be issued at a later date.

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# **POLYMERIC THERMISTORS – DIRECTLY HEATED POSITIVE STEP FUNCTION TEMPERATURE COEFFICIENT –**

## **Part 1-1: Blank detail specification – Current limiting application**

### INTRODUCTION

#### **Blank detail specification**

A blank detail specification is a supplementary document to the generic specification and contains requirements for style and layout and minimum content of detail specifications. Detail specifications not complying with these requirements shall not be considered as being in accordance with IEC specifications nor shall they so be described.

In the preparation of detail specifications, the content of 4.1 of the generic specification shall be taken into account.

The numbers between brackets on the first page correspond to the following information which shall be inserted in the position indicated.

#### *Identification of the detail specification*

- [1] The “International Electrotechnical Commission” or the National Organisation under whose authority the detail specification is drafted.
- [2] The IEC or National Standards number of the detail specification, date of issue and any other information required by the national system.
- [3] The number and issue number of the IEC or national generic specification.
- [4] The IEC number of the blank detail specification.

#### *Identification of the thermistor*

- [5] A short description of the type of thermistor.
- [6] Information on typical construction (if applicable).

NOTE When the thermistor is not designed for use on printed boards, this should be stated in the detail specification in this position.

- [7] Outline drawing with main dimensions which are important for the interchangeability and/or reference to the national or international documents for outlines. Alternatively, this drawing may be given in the annex to the detail specification.
- [8] Application or group of applications covered and/or assessment level.
- [9] Reference data on the most important properties, to allow comparison between the various thermistor types.

[1]	IEC 62319-1-1-XXX QC XXXXXX-XXX	[2]
ELECTRONIC COMPONENTS OF ASSESSED QUALITY IN ACCORDANCE WITH: [3]	IEC 62319-1-1 QC XXXXXX	[4]
Outline drawing: (see Table 1) (... angle projection)	POLYMERIC POSITIVE TEMPERATURE COEFFICIENT THERMISTORS FOR CURRENT LIMITING APPLICATION	[5]
[7]		[6]
(Other shapes are permitted within the dimensions given)	Assessment level(s): EZ	[8]
NOTE For [1] to [9] see preceding pages.		

Information on the availability of components qualified to  
this detail specification is given in IEC QC 001005.

[9]

## 1 General data

### 1.1 Method(s) of mounting (to be inserted)

See 4.9 of IEC 62319-1.

### 1.2 Dimensions

All dimensions are in millimetres or inches and millimetres; it shall be stated which dimensions are suitable for gauging.

Dimensional drawing(s) shall be given in the detail specification. If necessary, the dimensions may be listed in tabular form with reference to styles or codes.

### 1.3 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 60068, *Environmental testing*

IEC 60410, *Sampling plans and procedures for inspection by attributes*

IEC 62319-1; *Polymeric thermistors – Directly heated positive step function temperature coefficient – Part 1: Generic specification*<sup>1</sup>

<sup>1</sup> To be published.