



# SLOVENSKI STANDARD

## SIST EN 60738-1-1:2008

01-julij-2008

BUXca Yý U  
SIST EN 60738-1-1:2002

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**Termistorji - Neposredno ogrevani s stopenjskim pozitivnim temperaturnim koeficientom - 1-1. del: Uporaba za omejevanje toka - Nivo ocenjevanja EZ (IEC 60738-1-1:2008)**

Thermistors - Directly heated positive step-function temperature coefficient - Part 1-1: Blank detail specification - Current limiting application - Assessment level EZ (IEC 60738-1-1:2008)

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Thermistoren - Direkt geheizte temperaturabhängige Widerstände mit positivem Temperaturkoeffizienten - Teil 1-1: Vordruck für Bauartspezifikation: Anwendung als Strombegrenzer Qualitätsbewertungsstufe EZ (IEC 60738-1-1:2008)

<https://standards.iteh.ai/catalog/standards/sist/e84ebff4-e566-42e9-a903-054096a31a59/sist-en-60738-1-1-2008>

Thermistances à basculement à coefficient de température positif à chauffage direct - Partie 1-1: Spécification particulière cadre - Application de la limitation de courant - Niveau d'assurance de la qualité EZ (CEI 60738-1-1:2008)

**Ta slovenski standard je istoveten z: EN 60738-1-1:2008**

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**ICS:**

31.040.30      Termistorji                                      Thermistors

**SIST EN 60738-1-1:2008**                                      en

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English version

**Thermistors -  
Directly heated positive step-function temperature coefficient -  
Part 1-1: Blank detail specification -  
Current limiting application -  
Assessment level EZ  
(IEC 60738-1-1:2008)**

Thermistances à basculement  
à coefficient de température positif  
à chauffage direct -  
Partie 1-1: Spécification particulière  
cadre -  
Application de la limitation de courant -  
Niveau d'assurance de la qualité EZ  
(CEI 60738-1-1:2008)

Thermistoren -  
Direkt geheizte temperaturabhängige  
Widerstände mit positivem  
Temperaturkoeffizienten -  
Teil 1-1: Vordruck für Bauartspezifikation -  
Anwendung als Strombegrenzer -  
Bewertungsstufe EZ  
(IEC 60738-1-1:2008)

[SIST EN 60738-1-1:2008](https://standards.iteh.ai/catalog/standards/sist/e84ebff4-e566-42e9-a903-054096a31a59/sist-en-60738-1-1-2008)

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This European Standard was approved by CENELEC on 2008-03-01. 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, Bulgaria, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the 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 40/1874/FDIS, future edition 3 of IEC 60738-1-1, 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 60738-1-1 on 2008-03-01.

This European Standard supersedes EN 60738-1-1:1999.

EN 60738-1-1:2008 contains changes with respect to the referenced subclauses of the revised generic specification EN 60738-1.

This standard is to be used in conjunction with EN 60738-1.

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) 2008-12-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2011-03-01

Annex ZA has been added by CENELEC.

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The text of the International Standard IEC 60738-1-1:2008 was approved by CENELEC as a European Standard without any modification.

[SIST EN 60738-1-1:2008](https://standards.iteh.ai/catalog/standards/sist/e84ebff4-e566-42e9-a903-054096a31a59/sist-en-60738-1-1-2008)

<https://standards.iteh.ai/catalog/standards/sist/e84ebff4-e566-42e9-a903-054096a31a59/sist-en-60738-1-1-2008>

**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 When 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 60068-2-58	- <sup>1)</sup>	Environmental testing - Part 2-58: Tests - Test Td: Test methods for solderability, resistance to dissolution of metallization and to soldering heat of surface mounting devices (SMD)	EN 60068-2-58 + corr. December	2004 <sup>2)</sup> 2004
IEC 60410	1973	Sampling plans and procedures for inspection - by attributes		-
IEC 60738-1	2006	Thermistors - Directly heated positive temperature coefficient - Part 1: Generic specification	EN 60738-1	2006

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

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

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# INTERNATIONAL STANDARD

QC 440001

**Thermistors – Directly heated positive step-function temperature coefficient –  
Part 1-1: Blank detail specification – Current limiting application – Assessment  
level EZ**

SIST EN 60738-1-1:2008

<https://standards.iteh.ai/catalog/standards/sist/e84ebff4-e566-42e9-a903-054096a31a59/sist-en-60738-1-1-2008>

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

PRICE CODE

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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**THERMISTORS –  
DIRECTLY HEATED POSITIVE STEP-FUNCTION  
TEMPERATURE COEFFICIENT –****Part 1-1: Blank detail specification –  
Current limiting application –  
Assessment level EZ**

## 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.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
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- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 60738-1-1 has been prepared by IEC technical committee 40: Capacitors and resistors for electronic equipment.

This third edition cancels and replaces the second edition issued in 1998. It constitutes a technical revision.

This edition contains changes with respect to the referenced subclauses of the revised generic specification IEC 60738-1.

This publication is to be read in conjunction with IEC 60738-1.



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

FDIS	Report on voting
40/1874/FDIS	40/1891/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.

The QC number that appears on the front cover of this publication is the specification number in the IEC Quality Assessment System for Electronic Components (IECQ).

The list of all parts of the IEC 60738 series, under the (new) general title *Thermistors – Directly heated positive step-function temperature coefficient*, can be found on the IEC website.

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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## 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 IEC 60738-1:2006,1.4 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 Standards Organization under whose authority the detail specification is drafted.
- [2] The IEC or National Standards number of the detail specification, date of issue and any further 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 clearly be stated in the detail specification in this position.

- [7] Outline drawing with main dimensions which are of importance for interchangeability and/or reference to the national or international documents for outlines. Alternatively, this drawing may be given in an 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.

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<https://standards.iteh.ai/catalog/standards/sist/e84ebff4-e566-42e9-a903-31931a590035>

[1]	IEC 60738-1-1-XXX QC 440001XXXXXX	[2]
ELECTRONIC COMPONENTS OF ASSESSED QUALITY IN ACCORDANCE WITH:	IEC 60738-1-1 QC 440001	[4]
[3]	DIRECTLY HEATED POSITIVE STEP-FUNCTION TEMPERATURE COEFFICIENT THERMISTORS FOR CURRENT LIMITING APPLICATION	[5]
Outline drawing: [see 1.2] [... angle projection]	MODIFIED FERRO-ELECTRIC CERAMIC MATERIAL	[6]
[7] [Other shapes are permitted within the dimensions given]	Assessment level: EZ	[8]

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Information on the availability of components  
qualified to this detail specification is given in  
the Register of Approvals.

<https://standards.itech.ai/catalog/standards/sist/c84ebf74-e566-42e9-a903-054096a31a59/sist-en-60738-1-1-2008> [9]