



SLOVENSKI STANDARD
SIST EN 60738-1:2007/A1:2010
01-januar-2010

Termistorji - Neposredno ogrevani s pozitivnim temperaturnim koeficientom - 1. del: Rodovna specifikacija (IEC 60738-1:2006/A1:2009)

Thermistors - Directly heated positive temperature coefficient - Part 1: Generic specification (IEC 60738-1:2006/A1:2009)

Direkt geheizte temperaturabhängige Widerstände mit positivem Temperaturkoeffizienten - Teil 1: Fachgrundspezifikation (IEC 60738-1:2006/A1:2009)

Thermistances à coefficient de température positif à chauffage direct - Partie 1: Spécification générique (CEI 60738-1:2006/A1:2009)

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Ta slovenski standard je istoveten z: EN 60738-1:2006/A1:2009

ICS:

31.040.30 Termistorji Thermistors

SIST EN 60738-1:2007/A1:2010 en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 60738-1/A1

November 2009

ICS 31.040.30

English version

**Thermistors -
Directly heated positive temperature coefficient -
Part 1: Generic specification
(IEC 60738-1:2006/A1:2009)**

Thermistances à coefficient de
température positif à chauffage direct -
Partie 1: Spécification générique
(CEI 60738-1:2006/A1:2009)

Direkt geheizte temperaturabhängige
Widerstände mit positivem
Temperaturkoeffizienten -
Teil 1: Fachgrundspezifikation
(IEC 60738-1:2006/A1:2009)

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This amendment A1 modifies the European Standard EN 60738-1:2006; it was approved by CENELEC on 2009-09-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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 amendment 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: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 40/1940/CDV, future amendment 1 to IEC 60738-1:2006, 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 amendment A1 to EN 60738-1:2006 on 2009-09-01.

The following dates were fixed:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2010-06-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2012-09-01

Endorsement notice

The text of amendment 1:2009 to the International Standard IEC 60738-1:2006 was approved by CENELEC as an amendment to the European Standard without any modification.

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INTERNATIONAL STANDARD

AMENDMENT 1

**Thermistors – Directly heated positive temperature coefficient –
Part 1: Generic specification**

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ICS 31.040.30

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FOREWORD

This amendment has been prepared by IEC technical committee 40: Capacitors and resistors for electronic equipment.

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

CDV	Report on voting
40/1940/CDV	40/1999/RVC

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

The committee has decided that the contents of this amendment and the base 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.

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7.24.1 Endurance at room temperature (cycling)

Add, at the beginning of this subclause the following new text:

The test is not required on thermistors for sensing application with exclusively passive warming.

The thermistors with exclusively passive warming shall be cycled thermally between the manufacturer's minimum specified ambient temperature and the maximum rated temperature under maximum rated electrical conditions.

7.24.4 Cold environmental electrical cycling

Replace the title of this subclause by the following:

7.24.4 Cold environment electrical cycling

Replace the first paragraph of this subclause by the following new paragraph:

This test is not applicable to thermistors for type 1 controls, used as sensing devices, because self-heating is negligible.

Replace the third paragraph of this subclause by the following new paragraph:

The thermistors shall be subjected to 1 000 cycles of operation at an ambient temperature of 0 °C or at the lowest specified operating temperature as mentioned in the detail specification, whichever is the lower.

Replace, in the seventh paragraph, the word “temperature” by the word “thermistor”, using the following text:

After the test the thermistor shall be visually examined. There shall be no visible damage and the marking shall be legible.

7.24.5 Thermal runaway

Delete the entire first paragraph.

Replace the second paragraph by the following new text:

Each of the thermistor samples shall be connected to a variable power source. The thermistors are to be energized and operated under maximum rated conditions until thermally stabilized. The maximum rated conditions mean the condition when the applicable maximum power (see 3.38) can be dissipated.

The voltage shall be gradually increased from 0 % to 200 % of maximum voltage (U_{\max}) in increments of 10 % of U_{\max} at 2 min intervals. The 200 % voltage shall be maintained for 2 min.

NOTE Examples of maximum rated conditions are considered as follows:

- 1) attach the heat sinks to the thermistor;
- 2) add air flow to thermistor;
- 3) conditions equivalent to 1), 2) above.

In this test, the tested thermistor may be conditioned as mentioned above.
