INTERNATIONAL STANDARD

IEC 60738-1-3

First edition

1998-12

QC 440003

Thermistors –
Directly heated positive step-function temperature coefficient –

Part 1-3:
Blank detail specification—
Inrush current application—
Assessment level EZ

Thermistances à basculement à coefficient de température positif à chauffage direct —

Partie 1-3: Spécification particulière cadre – Application pour courant d'appel – Niveau d'assurance EZ



Numbering

As from 1 January 1997 all IEC publications are issued with a designation in the 60000 series.

Consolidated publications

Consolidated versions of some IEC publications including amendments are available. 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.

Validity of this publication

The technical content of IEC publications is kept under constant review by the IEC, thus ensuring that the content reflects current technology.

Information relating to the date of the reconfirmation of the publication is available in the IEC catalogue.

Information on the subjects under consideration and work in progress undertaken by the technical committee which has prepared this publication, as well as the list of publications issued, is to be found at the following IEC sources:

- IEC web site*
- Catalogue of IEC publications
 Published yearly with regular updates
 (On-line catalogue)*
- IEC Bulletin
 Available both at the IEC web site and as a printed periodical

Terminology, graphical and letter symbols

For general terminology, readers are referred to IEC 60050: International Electrotechnical Vocabulary (IEV).

For graphical symbols, and letter symbols and signs approved by the IEC for general use, readers are referred to publications IEC 60027: Letter symbols to be used in electrical technology, IEC 60417: Graphical symbols for use on equipment. Index, survey and compilation of the single sheets and IEC 60617: Graphical symbols for diagrams

See web site address on title page.

INTERNATIONAL STANDARD

IEC 60738-1-3

QC 440003

First edition 1998-12

Thermistors –
Directly heated positive step-function temperature coefficient –

Part 1-3:

Blank detail specification -Inrush current application -Assessment level EZ

Thermistances à basculement à coefficient de température positif à chauffage direct

Partie 1-3.

Spécification particulière cadre – Application pour courant d'appel – Niveau d'assurance EZ

© IEC 1998 — Copyright - all rights reserved

No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

International Electrotechnical Commission 3, rue de Varembé Geneva, Switzerland Telefax: +41 22 919 0300 e-mail: inmail@iec.ch IEC web site http://www.iec.ch



Commission Electrotechnique Internationale International Electrotechnical Commission Международная Электротехническая Комиссия

PRICE CODE



INTERNATIONAL ELECTROTECHNICAL COMMISSION

THERMISTORS -

DIRECTLY HEATED POSITIVE STEP-FUNCTION TEMPERATURE COEFFICIENT –

Part 1-3: Blank detail specification -

Inrush current application – Assessment level EZ

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization to standardization comprising all national electrotechnical committees (IEC National Committees). The object of the 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, the IEC publishes international Standards. 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. The 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 the 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 National Committees.
- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical reports or guides and they are accepted by the National Committees in that sense.
- 4) In order to promote international unification IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.
- 5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.
- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 60738-1-3 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
40/1083/FDIS	40/1099/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).

THERMISTORS -

DIRECTLY HEATED POSITIVE STEP-FUNCTION TEMPERATURE COEFFICIENT –

Part 1-3: Blank detail specification -

Inrush current application – Assessment level EZ

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 1.4 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 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 EC 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.

[1]	IEC 60738-1-3-XXX [2]
	QC 440003
ELECTRONIC COMPONENTS OF ASSESSED	IEC 60738-1-3 [4]
QUALITY IN ACCORDANCE WITH:	QC 440003
[3]	DIRECTLY HEATED POSITIVE
	STEP-FUNCTION TEMPERATURE
	COEFFICIENT THERMISTORS [5]
Outline drawing: [see 1.2]	FOR INRUSH CURRENT
[angle projection]	APPLICATION
	MODIFIED FERRO-ELECTRIC [6]
[7]	CERAMIC MATERIAL
[Other shapes are permitted within the dimensions	
given]	
iTek St	Assessment level: EZ [8]

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

[9]

1 General data

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

(See 4.12.1 of IEC 60738-1.)

1.2 Dimensions

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

Dimensioned 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 Coating

The detail specification shall state:

- a) whether the coating is insulating or non-insulating;
- b) the material;
- c) the colour, if applicable.