

INTERNATIONAL STANDARD

IEC 62319-1-1

First edition
2005-02

Polymeric thermistors – Directly heated positive step function temperature coefficient –

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

© IEC 2005 — 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, PO Box 131, CH-1211 Geneva 20, Switzerland
Telephone: +41 22 919 02 11 Telefax: +41 22 919 03 00 E-mail: inmail@iec.ch Web: www.iec.ch



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.
- 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.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
- 5) IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with an IEC Publication.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 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 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.

Currently in preview, click buy full vers.

**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 specification. 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 page. | | |

Information on the availability of components qualified to this detail specification is given in IEC 60601-1005.

[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*¹

¹ To be published.