



MALAYSIAN STANDARD

MS IEC 60085:2013

**Electrical insulation - Thermal evaluation and
designation
(IEC 60085:2007, IDT)**

ICS: 29.035.01; 17.220.99

Descriptors: electrical, insulation, thermal, evaluation, designation

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Contents

| | Page |
|---|-------------|
| Committee representation | ii |
| National foreword..... | iii |
| Foreword..... | iv |
| 1 Scope..... | 4 |
| 2 Normative references | 4 |
| 3 Terms and definitions | 4 |
| 4 General considerations - Related of EIM to EIS..... | 6 |
| 5 Thermal class | 6 |
| Bibliography | 8 |

Committee representation

The Industry Standards Committee on Generation, Transmission and Distribution of Energy (ISC E) under whose authority this Malaysian Standard was adopted, comprises representatives from the following organisations:

Association of Consulting Engineers Malaysia
Atomic Energy Licensing Board
Department of Standards Malaysia
Federation of Malaysian Manufacturers
Jabatan Kerja Raya Malaysia
Malaysian Association of Standards Users
Malaysian Cable Manufacturers Association
Malaysian Electrical Appliances and Distributors Association
Malaysian Green Technology Corporation
Ministry of Domestic Trade, Co-operatives and Consumerism
Ministry of International Trade and Industry
Persatuan Kontraktor Elektrikal dan Mekanikal Melayu Malaysia
SIRIM Berhad (Secretariat)
SIRIM QAS International Sdn Bhd
Suruhanjaya Komunikasi dan Multimedia Malaysia
Suruhanjaya Tenaga
Tenaga Nasional Berhad
The Electrical and Electronics Association of Malaysia
The Institution of Engineers, Malaysia
Universiti Teknologi Malaysia

The Technical Committee on Electrical Installation, Protection and Insulation Practice which recommended the adoption of the IEC Standard as Malaysian Standard was managed by The Electrical and Electronics Association of Malaysia (TEEAM) in its capacity as an authorised Malaysian Standards-Writing Organisation and consists of representatives from the following organisations:

Association of Consulting Engineers Malaysia
EITA Holdings Sdn Bhd
G.H. Liew Engineering (1990) Sdn Bhd
Jabatan Bomba dan Penyelamat Malaysia
Jabatan Kerja Raya Malaysia
Sabah Electricity Sdn Bhd
Sarawak Electricity Supply Corporation
SIRIM QAS International Sdn Bhd
Suruhanjaya Tenaga
Tenaga Nasional Berhad (Distribution Division)
Tenaga Nasional Berhad (Generation Division)
The Electrical and Electronics Association of Malaysia (Secretariat)
The Institution of Engineers, Malaysia
Time Era Sdn Bhd
Universiti Malaya
Universiti Teknologi Malaysia

National foreword

The adoption of the IEC Standard as a Malaysian Standard was recommended by the Technical Committee on Electrical Installation, Protection and Insulation Practice under the authority of the Industry Standards Committee on Generation, Transmission and Distribution of Energy. Adoption of this standard was carried out by The Electrical and Electronics Association of Malaysia which is the Standards-Writing Organisation (SWO) appointed by SIRIM Berhad to develop standards for electrical installation, protection and insulation practice.

This Malaysian Standard is identical with IEC 60085:2007, *Electrical insulation - Thermal evaluation and designation*, published by the International Electrotechnical Commission (IEC). However, for the purposes of this Malaysian Standard, the following apply:

- a) in the source text, "this International Standard" should read "this Malaysian Standard";
- b) the comma which is used as a decimal sign (if any), to read as a point; and
- c) the basis IEC 60085 is printed in English and French languages. However, only the English version applied for this Malaysian Standard

Compliance with a Malaysian Standard does not of itself confer immunity from legal obligations.

NOTE. IDT on the front cover indicates an identical standard i.e. a standard where the technical content, structure, and wording (or is an identical translation) of a Malaysian Standard is exactly the same as in an International Standard or is identical in technical content and structure although it may contain the minimal editorial changes specified in clause 4.2 of ISO/IEC Guide 21-1.

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**ELECTRICAL INSULATION –
THERMAL EVALUATION AND DESIGNATION**
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 60085 has been prepared by technical committee 112: Evaluation and qualification of electrical insulating materials and systems.

This fourth edition cancels and replaces the third edition, published in 2004, and constitutes a technical revision.

The major technical changes with regard to the previous edition concern the fact that this edition is an amalgamation of the third edition of this standard together with IEC 62114:2001.

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

| | |
|-------------|------------------|
| FDIS | Report on voting |
| 112/74/FDIS | 112/77/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.

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