

**Re: Request for approval for gazette notification of ETD 07 Document: 24761 and 24762**

**AR** Ashok Rajput <akrajput@nic.in>  
Sat, 23 Nov 2024 11:33:11 PM +0530 •  
To "eetd" <eetd@bis.gov.in>  
Cc "ET&I Division" <ce-rndcea@nic.in>, "Sheetal Sumeet Jain" <sheetal1972@nic.in>

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Approved.

Ashok Kumar Rajput  
Member (Power Systems), Central Electricity Authority  
Ministry of Power (Govt. of India)  
Room No. 301 (North), Sewa Bhawan, R.K.Puram  
New Delhi- 110066  
Mobile No.-+919868202176  
Ph.(off.) 011-26732301

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---- On Wed, 20 Nov 2024 12:59:26 +0530 ETD DEPARTMENT <[eetd@bis.gov.in](mailto:eetd@bis.gov.in)> wrote ---



Respected Sir,

The documents on terminal blocks were reviewed as per your suggestions. Please find below the committee's response:

**Document: ETD/07/24761/ IS/IEC 60947-7-1 : 2009****1. Marking on Terminal Blocks****a) Year of Manufacturing**

The committee supports the inclusion of the year of manufacturing on terminal blocks. Mr Robin Virani, M/s Elmex Electric Pvt. Ltd., has been nominated to the relevant IEC working group. Since the next versions of IEC 60947-7-1 and IEC 60947-7-2 are under revision in IEC, this suggestion will be raised during the next working group meeting, and comments will be submitted from India during the next circulation stage of these IEC standards.

**b) Country of Origin and Lot Number**

Terminal blocks are just components, small in size and it is not possible to mark these details on the product. Typical packing quantity in a box is @ 50 or 100 pcs. Manufacturers do provide country of origin and lot number details, along with other details, on the label on these boxes. This is how these requirements are met and if required, they can be accordingly included in the standard.

**2. Ambient Temperature Range for Installation**

The rate of heat dissipation during temperature rise test will be different when tested at 25 °C and when tested at 40 °C. It can be calculated at any temperature by applying temperature correction or compensation factor. The nominated expert from IEC will raise the inclusion of temperature as prevalent in India in the next IEC working group meeting.

### 3. UV and Solar Irradiation Test Requirements

These are altogether different sets of requirements. Basic requirements of construction and tests for IEC 60947-7-X series of standards are derived from or refer to general requirement standard i.e. IEC 60947-1 which does not call for these requirements. In view of this, we will not have technical base and rationale to determine these requirements for terminal blocks which are mounted in enclosure / panel.

**Document: ETD/07/24762/ IS/IEC 60947-7-2 : 2009**

#### 1. Marking on Terminal Blocks

##### a) Year of Manufacturing

The committee supports the inclusion of the year of manufacturing on terminal blocks. Mr Robin Virani, M/s Elmex Electric Pvt. Ltd., has been nominated to the relevant IEC working group. Since the next versions of IEC 60947-7-1 and IEC 60947-7-2 are under revision, this suggestion will be raised during the next working group meeting, and comments will be submitted from India during the next circulation stage of these IEC standards.

##### b) Country of Origin and Lot Number

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Your valuable suggestions regarding marking and inclusion of Indian ambient temperature considerations will be presented in the next IEC working group meetings. These proposals are expected to be included in the revised versions of IEC 60947-7-1 and IEC 60947-7-2, which are scheduled for publication by April 2025.

The Indian versions of these standards will be harmonized with the updated IEC standards upon their release. We request your approval to proceed with publishing these IEC standards as Indian Standards.

With Kind Regards,

Ashok Kumar  
Assistant Director  
Member Secretary (ETD 07)

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---- On Fri, 01 Nov 2024 20:31:46 +0530 Ashok Rajput <[akrajput@nic.in](mailto:akrajput@nic.in)> wrote ---

**Sir**

**in the document: ETD/07/24761/ IS/IEC 60947-7-1 : 2009**

A terminal block shall be marked in a durable and legible manner with the following:

- a) the name of the manufacturer or a trade mark by which the manufacturer can be readily identified;
- b) a type reference permitting its identification in order to obtain relevant information from the manufacturer or his catalogue.

Alongwith the above, the year of manufacturing and the country of origin/lot Number should also be given.

## 8.2 General

Unless otherwise specified, terminal blocks are tested in new and in clean condition, and installed as for normal use (see 6.3 of IEC 60947-1) at an ambient temperature of  $(20 \pm 5) ^\circ\text{C}$ .

It is felt that the higher ambient temperature conditions (as prevalent in India) should be taken into consideration.

Whether UV test and Solar irradiation test are also required.

## **IS/IEC 60947-7-2 : 2009**

Alongwith the above, the year of manufacturing and the country of origin/lot Number should also be given.

Regards

Ashok Kumar Rajput

Member (Power Systems), Central Electricity Authority

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---- On Mon, 28 Oct 2024 10:56:26 +0530 **Ashok Kumar** <[ashok9413@bis.gov.in](mailto:ashok9413@bis.gov.in)> wrote ---

**Our Ref:** ETD/G-1

**21 October 2024**

**Subject:** Approval for ETD documents as Revision of Indian Standards.

**Dear Sir,**

**This has reference to the following documents finalized by concerned Sectional Committees of BIS:**

Document Number	Document Title	Doc. Type
ETD/07/24761/ IS/IEC 60947-7-1 : 2009	Low-Voltage Switchgear and Controlgear Part 7 Ancillary Equipment Section 1 Terminal Blocks for Copper Conductors	New Document
ETD/07/24762/IS/IEC 60947-7-2 : 2009	Low-Voltage Switchgear and Controlgear Part 7 Ancillary Equipment Section 2 Protective Conductor Terminal Blocks for Copper Conductors	New Document

In accordance with BIS Act 2016, I enclose copy of the Revision of the Indian Standards mentioned above finalized, in the light of comments received from important producers, consumers, technologists, members of the Electrotechnical Division Council (ETDC).

It is requested that this note and its enclosure may be returned to this office as early as possible recording your approval for the adoption of Revision to Indian Standards as stated above on behalf of the Electrotechnical Division Council (ETDC).

I shall be glad, if you return the above documents as early as possible, according your approval as **Chairman, ETDC** for its publication as Indian Standard.

Thanking you,  
Yours sincerely,

Asit Kumar Maharana  
Scientist 'E' & Head (ETD)

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---- On Mon, 21 Oct 2024 15:14:42 +0530 **ETD DEPARTMENT** <[etd@bis.gov.in](mailto:etd@bis.gov.in)> wrote ---

**Our Ref:** ETD/G-1

**21 October 2024**

**Subject:** Approval for ETD documents as Revision of Indian Standards.

**Dear Sir,**

**This has reference to the following documents finalized by concerned Sectional Committees of BIS:**

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Thanking you,  
Yours sincerely,

Asit Kumar Maharana

Scientist 'E' & Head (ETD)

विद्युत तकनीकी विभाग | Electrotechnical Department

भारतीय मानक ब्यूरो | Bureau of Indian Standards

उपभोक्ता मामले, खाद्य एवं सार्वजनिक वितरण मंत्रालय | Ministry of Consumer Affairs, Food & Public Distribution

भारत सरकार | Government of India

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