

Re: Gentle reminder: Fwd: Request for approval for gazette notification of ETD 39 Document- (18582,18460,21262,21264,21267,21270)

From : Ashok Kumar Rajput <akrajput@nic.in>

Mon, May 06, 2024 01:49 AM

Subject : Re: Gentle reminder: Fwd: Request for approval for gazette notification of ETD 39 Document- (18582,18460,21262,21264,21267,21270)

7 attachments

To : ETD DEPARTMENT <eetd@bis.gov.in>

Cc : Sheetal Sumeet Jain <sheetal1972@nic.in>

Madam Ankita

- 1.0 General remarks: IECs being considered are of version 2020 (in general) and we are going to adopt them in the Middle of 2024, so there is a sizeable gap. This aspect may be discussed within BIS and also with stakeholders.
- 2.0 The tests are generally carried out by applying the standard sinusoidal AC, what about the performance when the harmonics are also present in the site application.
- 3. Identifying markings: **the month/year of manufacturing and country of origin also need to be mentioned.**
- 4. It apperas taht there is no uniformity of ambient conditions and other values in this series of Standards - these things need to be rechecked, and after consultation be sent again for approval

A. Doc 18460: (IS 9385 (Part 1) : 2024
IEC 60282-1 : 2020) Approval requires deliberations. the following clarifications (as general remarks are required).

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	1 N M O T i s d e f i n e d a s t h e e q u i l i b r i u m m e a n s o l a r c e l l j u n c t i o n t e m p e r a t	o p e r a t i n g n e a r p e a k p o w e r, i n t h e f o l l o w i n g s t a n d a r d r e f e r e n c e e n	: (3 7 ± 5) ° .	: 8 0 0 W / m 2.	: 2 0 ° C .	: 1 m / s .	: A r e s i s t i v e l o a d s i z e d s u c h t h a t t h e m o d u l e w i l l o p e r a t e n e a	l o n i c m a x i m u m p o w e r p o i n t t r a c k e r (M P P T).

													u r e w i t h i n a n o p e n - r a c k m o u n t e d	vi r o n m e n t:									r i t s m a x i m u m p o w e r p o i n t a t S T C o r
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In the given text above Ambient conditions are more harsh, should we not consider some other ambient condition e.g. temperature and Solar Irradiation.

Need deliberations about the following:

4 Normal and special service conditions

4.1 Normal service conditions

Fuses complying with this document are designed to be used under the following conditions.

a) The maximum ambient air temperature is 40 °C and its mean measured over a period of 24 h does not exceed 35 °C.

The minimum ambient air temperature is -25 °C.

Why the ambient temperature only up to 40 °C (as it goes higher in many places)?

It is mentioned that: Table 4 is based on practice in Europe, and standard reference conditions of temperature, pressure and humidity are 20 °C, 101,3 kPa and 11 g/m3, respectively, of water.

• Table 5 is based on practice in the USA and Canada where standard reference conditions of temperature, pressure and humidity are 25 °C, 101,3 kPa and 15 g/m3, respectively, of water.

What about the conditions applicable to India ?

Identifying markings: **the month/year of manufacturing and country of origin also need to be mentioned.**

It is mentioned that:

7.7.1.2 Ambient air temperature

The time-current characteristics shall be verified at any ambient air temperature

between 15 °C and 30 °C. - **Why so flexible, the measurement/testing should be at different fixed temperature over a wider range of ambient temperature ?**

What would be the storage requirements? What about shelf life?

What about material type and characteristics of the fusible material?

How to ascertain that the fuse once melt/operated will not recombine to form a conducting path?

whether the operated fuse is reusable and can be made reusable at local workshops of the utilities/ Eco friendly aspects of the fuse?

Calibration aspects of the measuring equipment?

Figure C.2 – Details of clamping arrangement for fuse-link in the tank - the figure is not found in the document?

What is the consideration for rate of rise of current?

B. 18582- Approved. (IS 9385 (Part 4) : 2024)

C. 21262: IS/IEC 60127-5 : 2016 Approved

D. 21264 ETD 29 (21264)

as mentioned on the last page should be ETD 39 (21264).
IS 9402 : 2024/IEC 60549 : 2013 the IEC publication being adopted is quite old.

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Characteristics as specified in IEC 60282-1 or IEC 60282-2 for an ambient air temperature of 20 °C ; — **Reasons for this temperature?**

E. 21267

IS 10624 : 2024/IEC 60644 : 2009 +

AMD 1 : 2019 the IEC document being referred is quite old?

F. 21270

IS 13703 (Part 4) : 2024

IEC 60269-4 : 2009 the IEC document being referred is quite old?

In this document "The manufacturer shall provide time-current characteristics based on an ambient temperature

of 20 °C to 25 °C in accordance with the conditions specified in 8.3. The time-current characteristics of interest are the pre-arcing characteristic and operating characteristics." is different from other docs?

CC.1 General

This annex is divided into seven specific examples of standardised dimensions:

– system of fuse-links with bolted connections, type A – British In this India will fit in where ?

Thanks & Regards

Ashok Kumar Rajput

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New Delhi- 110066

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From: "ETD DEPARTMENT" <eetd@bis.gov.in>

To: "Ashok Kumar Rajput" <akrajput@nic.in>, "rajput ashok" <rajput.ashok@gmail.com>

Sent: Wednesday, April 24, 2024 9:47:03 AM

Subject: Gentle reminder: Fwd: Request for approval for gazette notification of ETD 39 Document- (18582,18460,21262,21264,21267,21270)

Gentle Reminder!!!

Regards

Ankita Tripathi

Scientist 'C' / Deputy Director

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भारतीय मानक ब्यूरो | Bureau of Indian Standards

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From: "ETD DEPARTMENT" <eetd@bis.gov.in>

To: "Ashok Kumar Rajput" <akrajput@nic.in>, "rajput ashok" <rajput.ashok@gmail.com>

Sent: Tuesday, April 23, 2024 12:56:22 PM

Subject: Request for approval for gazette notification of ETD 39 Document- (18582,18460,21262,21264,21267,21270)

Gentle Reminder!!!

Regards

Ankita Tripathi

Scientist 'C' / Deputy Director

विद्युत तकनीकी विभाग | Electrotechnical Department

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From: "ETD DEPARTMENT" <eetd@bis.gov.in>
To: "rajput ashok" <rajput.ashok@gmail.com>
Sent: Friday, April 12, 2024 12:03:42 PM
Subject: Request for approval for gazette notification of ETD 39 Document- (18582,18460,21262,21264,21267,21270)

Gentle Reminder!!!

Regards
Ankita Tripathi
Scientist 'C' / Deputy Director

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From: "ETD DEPARTMENT" <eetd@bis.gov.in>
To: "rajput ashok" <rajput.ashok@gmail.com>
Sent: Thursday, March 21, 2024 11:15:08 AM
Subject: Request for approval for gazette notification of ETD 39 Document- (18582,18460,21262,21264,21267,21270)

Our Ref: ETD 39
March 2024

21

Subject: Approval for gazette notification of Indian Standard

Dear Sir,

This has reference to the following documents finalized by the Fuses Sectional Committee, ETD 39 :

S.NO	Document Number	Indian Standard	Title
1	ETD 39/ 18582	IS 9385(Part 4) : 2024	High-Voltage Fuses Part 4 Additional Testing Requirements for High-Voltage Expulsion Fuses Utilizing Polymeric Insulators
2	ETD 39/ 18460	IS 9385 (Part 1) : 2024	High-Voltage Fuses Part 1 Current-Limiting Fuses (<i>Second Revision</i>)
3	ETD 39/ 21262	IS/IEC 60127-5 : 2016	Miniature Fuses Part 5 Quality Assessment of Miniature Fuse-Links — Guidelines(First Revision)
4	ETD 39/ 21264	IS 9402 : 2024	High-Voltage Fuses for the External Protection of Shunt Capacitors(First Revision)
5	ETD 39/ 21267	IS 10624 : 2024	High-Voltage Fuse-Links for Motor Circuit Applications — Specification (First Revision)
6	ETD 39/ 21270	IS 13703 (Part 4) : 2024	Low-Voltage Fuses PART 4 Fuse-Links for the Protection of Semiconductor Devices — Supplementary Requirements (First Revision)

In accordance with sub-rule (5) of Rule 22 of the BIS Rules 2018, the documents mentioned above have been finalized by the Fuses Sectional Committee, ETD 39, and approved by the Chairperson of the committee.

It is requested that, in-capacity as Chairman of ETDC, this note and its enclosure may be returned to this office as early as possible recording your approval for adoption of the drafts as Indian Standards on behalf of the Electrotechnical Division Council (ETDC) for its publication as Indian Standard.

Thanking you,

ADOPTED

Yours sincerely,

Chairman, Electrotechnical Divisional Council


(A K Maharana)
(Head, Electrotechnical Department)
Encl: As above


Shri Ashok Kumar Rajput


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