



# MALAYSIAN STANDARD

MS IEC 60898-3:2022

**Electrical accessories – Circuit-breakers  
for overcurrent protection for household  
and similar installations – Part 3: Circuit-  
breakers for DC operation  
(IEC 60898-3:2019/AMD1:2022 CSV, IDT)  
(Published by Department of Standards  
Malaysia in 2024)**

**ICS: 29.120.50**

Descriptors: electrical accessories, circuit-breakers, overcurrent protection, household and similar installations

**© Copyright 2024**

**DEPARTMENT OF STANDARDS MALAYSIA**

## DEVELOPMENT OF MALAYSIAN STANDARDS

The **Department of Standards Malaysia** is the national standards and accreditation body of Malaysia.

The main function of the Department of Standards Malaysia is to foster and promote standards, standardisation and accreditation as a means of advancing the national economy, promoting industrial efficiency and development, benefitting the health and safety of the public, protecting the consumers, facilitating domestic and international trade and furthering international cooperation in relation to standards and standardisation. The use of Malaysian Standards is voluntary except in so far as they are made mandatory by regulatory authorities by means of regulations, local by-laws or any other similar ways.

Malaysian Standards are developed through consensus by committees which comprise balanced representation of producers, users, consumers and others with relevant interests, as may be appropriate to the subject at hand. The development of a standard as a Malaysian Standard is governed by the Standards of Malaysia Act 1996 [Act 549]. Section 18A of the act stipulated that, all Malaysian Standards are owned by the Government of Malaysia and no part of a Malaysian Standard can be reproduced in any form without the written permission of the Director General.

For further information on Malaysian Standards, please contact:

**Department of Standards Malaysia**  
Level 4 – 7, Tower 2, Menara Cyber Axis  
Jalan Impact, Cyber 6  
63000 Cyberjaya  
Selangor Darul Ehsan  
MALAYSIA

Tel: 60 3 8008 2900  
Fax: 60 3 8008 2901  
<http://www.jsm.gov.my>  
E-mail: [central@jsm.gov.my](mailto:central@jsm.gov.my)

## **Committee representation**

The National Standards Committee on Generation, Transmission and Distribution of Energy (NSC 05) under whose authority this Malaysian Standard was adopted, comprises representatives from the following organizations:

Association of Consulting Engineers Malaysia  
Department of Standards Malaysia (Secretariat)  
Federation of Malaysian Manufacturers  
Federation of Malaysian Consumers Association  
Jabatan Kerja Raya  
Malaysian Cable Manufacturers Association  
Malaysian Communications and Multimedia Commission  
Malaysian Electrical Appliances and Distributors Association  
Malaysian Green Technology Corporation  
Sabah Electricity Sdn Bhd  
Sarawak Energy Berhad  
SIRIM QAS International Sdn Bhd  
Suruhanjaya Tenaga  
Sustainable Energy Development Authority Malaysia  
Tenaga Nasional Berhad  
The Electrical and Electronics Association of Malaysia  
The Institution of Engineers, Malaysia  
Universiti Malaya  
Universiti Teknologi Malaysia

The Technical Committee on Renewable Energy (NSC 05/TC 5) which supervised the adoption of IEC Standard as Malaysian Standard consists of representatives from the following organizations:

Association of Consulting Engineers Malaysia  
Department of Standards Malaysia (Secretariat)  
Grandtop High Voltage Technology Sdn.Bhd.  
Jabatan Kerja Raya  
Mektricon Utara Sdn Bhd  
SIRIM QAS International Sdn Bhd  
Suruhanjaya Tenaga  
Tenaga Nasional Berhad  
The Electrical and Electronics Association of Malaysia  
Universiti Malaya

The Working Group on Circuit-breakers and Similar Equipment for Household Use (NSC 05/TC 5/WG 1) which recommended the adoption of the IEC Standard as Malaysian Standard consists of representatives from the following organizations:

Akademi Binaan Malaysia (Wilayah Tengah)  
Association of Consulting Engineers Malaysia  
Clipsal (M) Sdn Bhd  
Department of Standards Malaysia (Secretariat)  
Grandtop High Voltage Technology Sdn Bhd  
Hager Engineering (M) Sdn Bhd  
Jabatan Kerja Raya Malaysia  
Mektricon Utara Sdn Bhd  
Schneider Electric (Industries) Malaysia Sdn Bhd  
Siemens Malaysia Sdn Bhd  
SIRIM QAS International Sdn Bhd  
Suruhanjaya Tenaga  
The Electrical and Electronics Association of Malaysia  
The Institution of Engineers, Malaysia

## MS IEC 60898-3:2022

### National foreword

This Malaysian Standard was developed by the Working Group on Circuit Breaker and Similar Equipment for Household Use (NSC 05/TC 5/WG 1) under the authority of The National Standards Committee on Generation, Transmission and Distribution of Energy (NSC 05).

This Malaysian Standard is identical with IEC 60898-3:2019+AMD1:2022 CSV, *Electrical accessories - Circuit-breakers for overcurrent protection for household and similar installations - Part 3: Circuit-breakers for DC operation*, 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) reference to International Standards should be replaced by corresponding Malaysian Standards as follows:

#### Referenced International Standards

#### Corresponding Malaysian Standards

IEC 60269-1, *Low-voltage fuses - Part 1: General requirements*

MS 60269-1, *Low-voltage fuses - Part 1: General requirements*

IEC 60269-2, *Low-voltage fuses - Part 2: Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application) - Examples of standardized systems of fuses A to K*

MS 60269-2, *Low-voltage fuses - Part 2: Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application) - Examples of standardized systems of fuses A to K*

IEC 60269-3, *Low-voltage fuses - Part 3: Supplementary requirements for fuses for use by unskilled persons (fuses mainly for household or similar applications) - Examples of standardized systems of fuses A to F*

MS 60269-3, *Low-voltage fuses - Part 3: Supplementary requirements for fuses for use by unskilled persons (fuses mainly for household or similar applications) - Examples of standardized systems of fuses A to F*

IEC 60269-4, *Low-voltage fuses - Part 4: Supplementary requirements for fuse-links for the protection of semiconductor devices*

MS IEC 60269-4, *Low-voltage fuses - Part 4: Supplementary requirements for fuse-links for the protection of semiconductor devices*

IEC TR 60269-5, *Low-voltage fuses - Part 5: Guidance for the application of low-voltage fuses*

MS 60269-5, *Low-voltage fuses - Part 5: Guidance for the application of low-voltage fuses*

**National foreword** *(continued)*

Referenced International Standards

Corresponding Malaysian Standards

IEC 60529, *Degrees of protection provided by enclosures (IP Code)*

MS IEC 60529, *Degrees of Protection provided by Enclosures (IP Code)*

IEC 60664-1, *Insulation coordination for equipment within low-voltage supply systems - Part 1: Principles, requirements and tests*

MS IEC 60664-1, *Insulation coordination for equipment within low-voltage systems - Part 1: Principles, requirements and tests*

IEC 60947-2, *Low-voltage switchgear and controlgear - Part 2: Circuit-breakers*

MS IEC 60947-2, *Low-Voltage Switchgear and Controlgear - Part 2: Circuit-Breakers*

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 21-1:2005.