



BSI Standards Publication

## Passive filter units for electromagnetic interference suppression

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Part 3: Passive filter units for which safety tests are appropriate

This is a preview of BS EN IEC 60939-3:2024. [Click here to purchase the full version from the ANSI store.](#)

## National foreword

This British Standard is the UK implementation of EN IEC 60939-3:2024. It is identical to IEC 60939-3:2024. It supersedes BS EN 60939-3:2015, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee W/-, Consumer Products and Services Sector Policy and Strategy Committee.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 March 2024.

### Amendments/corrigenda issued since publication

Date	Text affected
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## EUROPÄISCHE NORM

March 2024

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Supersedes EN 60939-3:2015;  
EN 60939-3:2015/AC:2016-04;  
EN 60939-3:2015/AC:2018-08

English Version

Passive filter units for electromagnetic interference suppression -  
Part 3: Passive filter units for which safety tests are appropriate  
(IEC 60939-3:2024)

Filtres passifs d'antiparasitage - Partie 3: Filtres passifs  
pour lesquels des essais de sécurité sont appropriés  
(IEC 60939-3:2024)

Passive Filter für die Unterdrückung von  
elektromagnetischen Störungen - Teil 3: Filter, für die  
Sicherheitsprüfungen vorgeschrieben sind  
(IEC 60939-3:2024)

This European Standard was approved by CENELEC on 2024-03-18. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.



European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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## European foreword

The text of document 40/3102/FDIS, future edition 2 of IEC 60939-3, prepared by IEC/TC 40 "Capacitors and resistors for electronic equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60939-3:2024.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2024-12-18
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2027-03-18

This document supersedes EN 60939-3:2015 and all of its amendments and corrigenda (if any).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

## Endorsement notice

The text of the International Standard IEC 60939-3:2024 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standard indicated:

IEC 60068-2-13 NOTE Approved as EN IEC 60068-2-13

IEC 60068-2-27 NOTE Approved as EN 60068-2-27

IEC 60085 NOTE Approved as EN 60085

IEC 60294 NOTE Approved as EN 60294

IEC 60335-1 NOTE Approved as EN IEC 60335-1

IEC 60384-9 NOTE Approved as EN 60384-9

IEC 60939-1 NOTE Approved as EN 60939-1

IEC 60947-1 NOTE Approved as EN IEC 60947-1

IEC 60990 NOTE Approved as EN 60990

IEC 61112 NOTE Approved as EN 61112

IEC 61140 NOTE Approved as EN 61140

IEC 62109-1 NOTE Approved as EN 62109-1

ISO 80000-1 NOTE Approved as EN ISO 80000-1

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(normative)

## Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cencenelec.eu](http://www.cencenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60060-1	2010	High-voltage test techniques - Part 1: General definitions and test requirements	EN 60060-1	2010
IEC 60062	2016	Marking codes for resistors and capacitors	EN 60062	2016
IEC 60068-1	2013	Environmental testing - Part 1: General and guidance	EN 60068-1	2014
IEC 60068-2-1	2007	Environmental testing - Part 2-1: Tests - Test A: Cold	EN 60068-2-1	2007
IEC 60068-2-2	2007	Environmental testing - Part 2-2: Tests - Test B: Dry heat	EN 60068-2-2	2007
IEC 60068-2-6	2007	Environmental testing - Part 2-6: Tests - Test Fc: Vibration (sinusoidal)	EN 60068-2-6	2008
IEC 60068-2-14	2023	Environmental testing - Part 2-14: Tests - Test N: Change of temperature	EN IEC 60068-2-14	2023
IEC 60068-2-17	2023	Environmental testing - Part 2-17: Tests - Test Q: Sealing	EN IEC 60068-2-17	2023
IEC 60068-2-20	2021	Environmental testing - Part 2-20: Tests - Test Ta and Tb: Test methods for solderability and resistance to soldering heat of devices with leads	EN IEC 60068-2-20	2021
IEC 60068-2-21	2021	Environmental testing - Part 2-21: Tests - Test U: Robustness of terminations and integral mounting devices	EN IEC 60068-2-21	2021
IEC 60068-2-30	2005	Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle)	EN 60068-2-30	2005
IEC 60068-2-45	1980	Basic environmental testing procedures - Part 2-45: Tests - Test XA and guidance: Immersion in cleaning solvents	EN 60068-2-45	1992
IEC 60068-2-78	2012	Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state	EN 60068-2-78	2013

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		equipment - Part 14: Sectional specification - Fixed capacitors for electromagnetic interference suppression and connection to the supply mains		
IEC 60664-1	2020	Insulation coordination for equipment within low-voltage supply systems - Part 1: Principles, requirements and tests	EN IEC 60664-1	2020
IEC 60695-11-5	2016	Fire hazard testing - Part 11-5: Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance	EN 60695-11-5	2017
IEC 60695-11-10	2013	Fire hazard testing - Part 11-10: Test flames - 50 W horizontal and vertical flame test methods	EN 60695-11-10	2013
IEC 60938-1	2021	Fixed inductors for electromagnetic interference suppression - Part 1: Generic specification	EN IEC 60938-1	2021
IEC 60938-2	2021	Fixed inductors for electromagnetic interference suppression - Part 2: Sectional specification on power line chokes	EN IEC 60938-2	2021
IEC 60940	2015	Guidance information on the application of capacitors, resistors, inductors and complete filter units for electromagnetic interference suppression	EN 60940	2015
CISPR 17	2011	Methods of measurement of the suppression characteristics of passive EMC filtering devices	EN 55017	2011

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