BS EN IEC 60072-1:2022

BSI Standards Publication

Rotating electrical machines — Dimensions and output series

Part 1: Frame numbers 56 to 400 and flange numbers 55 to 1080

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National foreword

This British Standard is the UK implementation of EN IEC 60072-1:2022. It is identical to IEC 60072-1:2022. It supersedes BS EN 50347:2001, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PEL/2, Rotating electrical machinery.

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

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN IEC 60072-1

May 2022

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Supersedes EN 50347:2001

English Version

Rotating electrical machines - Dimensions and output series - Part 1: Frame numbers 56 to 400 and flange numbers 55 to 1080 (IEC 60072-1:2022)

Machines électriques tournantes - Dimensions et séries de puissances - Partie 1: Désignation des carcasses entre 56 et 400 et des brides entre 55 et 1080 (IEC 60072-1:2022)

Abmessungen und Leistungsreihen für drehende elektrische Maschinen - Teil 1: Baugrößen 56 bis 400 und Flanschgrößen 55 bis 1080 (IEC 60072-1:2022)

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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 2/2059/CDV, future edition 7 of IEC 60072-1, prepared by IEC/TC 2 "Rotating machinery" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60072-1:2022.

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) 2023-02-04
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2025-05-04

This document supersedes EN 50347:2001 and all of its amendments and corrigenda (if any).

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Endorsement notice

The text of the International Standard IEC 60072-1:2022 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 standards indicated:

IEC 60034-7 NOTE Harmonized as EN IEC 60034-7

IEC 60079-1 NOTE Harmonized as EN 60079-1

IEC 60079-7 NOTE Harmonized as EN 60079-7

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Annex ZA
(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.cenelec.eu.

Publication	Year	Title	EN/HD	Year
IEC 60079-0	-	Explosive atmospheres - Part 0: Equipment - General requirements	EN IEC 60079-0	-
ISO 128-3	2020	Technical product documentation (TPD) - General principles of representation - Part 3: Views, sections and cuts	EN ISO 128-3	2020
ISO 273	-	Fasteners - Clearance holes for bolts and screws	EN 20273	-
ISO 286	series	Geometrical product specifications (GPS) - ISO code system for tolerances on linear sizes	EN ISO 286	series
ISO 1101	-	Geometrical product specifications (GPS) - Geometrical tolerancing - Tolerances of form, orientation, location and run-out	EN ISO 1101	-
ISO 2768-1	-	General tolerances - Part 1: Tolerances for linear and angular dimensions without individual tolerance indications	-	-

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ROTATING ELECTRICAL MACHINES – DIMENSIONS AND OUTPUT SERIES –

Part 1: Frame numbers 56 to 400 and flange numbers 55 to 1080

FOREWORD

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International Standard IEC 60072-1 has been prepared by IEC technical committee 2: Rotating machinery.

This seventh edition cancels and replaces the sixth edition published in 1991. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

a) modification of the series title;
b) complete revision on the basis of EN 50347;
c) integration of the relationships between frame size, shaft extensions, rated outputs and flange numbers;
d) additional tolerances and measurements for shafts;

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e) modification of Annex A with additional frame numbers and relationships between frame size and rated power.

The text of this International Standard is based on the following documents:

Draft	Report on voting
2/2059/CDV	2/2082/RVC

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

A list of all parts in the IEC 60072 series, published under the general title *Rotating electrical machines – Dimensions and output series*, can be found on the IEC website.

Future documents in this series will carry the new general title as cited above. Titles of existing documents in this series will be updated at the time of the next edition.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

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- replaced by a revised edition, or
- amended.

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