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Rotating electrical machines - Dimensions and output series - Part 1: Frame numbers 56 to 400 and flange numbers 55 to 1080

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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ICS 17.200.20, 29.080.01, 29.240.01

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN IEC 60072-1

May 2022

ICS 29.160.01

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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Ref. No. EN IEC 60072-1:2022 E

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- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2025-05-04

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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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IEC 60072-1

Edition 7.0 2022-03

INTERNATIONAL STANDARD

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Rotating electrical machines – Dimensions and output series – Part 1: Frame numbers 56 to 400 and flange numbers 55 to 1080

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 60072-1:2022-03(en-fr)

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ROTATING ELECTRICAL MACHINES – DIMENSIONS AND OUTPUT SERIES –

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

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1 Scope

This part of IEC 60072 is applicable for the majority of rotating electrical machines for industrial purposes within the dimension range and output powers:

Foot- mounted: shaft heights: 56 mm to 400 mm.

Flange- mounted: pitch circle diameter of flange: 55 mm to 1 080 mm.

It specifies the fixing dimensions, shaft extension dimensions and the assignment of output powers and frame sizes.

2 Normative references

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.

IEC 60079-0, *Explosive atmospheres – Part 0: Equipment – Generel requirements*

ISO 128-3:2020, *Technical product documentation (TPD) – General principles of representation – Part 3: Views, sections and cuts*

ISO 273, *Fasteners – Clearance holes for bolts and screws*

ISO 286 (all parts), *Geometrical product specifications (GPS) – ISO code system for tolerances on linear sizes*

ISO 1101, *Geometrical product specifications (GPS) – Geometrical tolerancing – Tolerances of form, orientation, location and run-out*

ISO 2768-1, *General tolerances – Part 1: Tolerances for linear and angular dimensions without individual tolerance indications*

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- IEC Electropedia: available at http://www.electropedia.org/
- ISO Online browsing platform: available at http://www.iso.org/obp