

General purpose three-phase induction motors having standard dimensions and outputs - Frame numbers 56 to 315 and flange numbers 65 to 740

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 50347:2002 sisaldab Euroopa standardi EN 50347:2001 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 15.10.2002 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 50347:2002 consists of the English text of the European standard EN 50347:2001.</p> <p>This document is endorsed on 15.10.2002 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala: This EN 50347 covers general purpose standard dimensioned three-phase induction motors for 50 Hz with rated voltages not exceeding 690 V for industrial purposes having dimensions selected from IEC 60072-1 in the range : Frame numbers - shaft-heights : 56 mm to 315 mm Flange numbers - pitch circle diameter of flange : 65 mm to 740 mm It gives tables of fixing dimensions, shaft extension dimensions and output powers.</p>	<p>Scope: This EN 50347 covers general purpose standard dimensioned three-phase induction motors for 50 Hz with rated voltages not exceeding 690 V for industrial purposes having dimensions selected from IEC 60072-1 in the range : Frame numbers - shaft-heights : 56 mm to 315 mm Flange numbers - pitch circle diameter of flange : 65 mm to 740 mm It gives tables of fixing dimensions, shaft extension dimensions and output powers.</p>
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English version

**General purpose three-phase induction motors
having standard dimensions and outputs -
Frame numbers 56 to 315 and flange numbers 65 to 740**

Moteurs à induction triphasés à usage
général de dimensions et puissances
normales -

Désignation des carcasses entre 56 et
315 et des brides entre 65 et 740

Drehstromasynchronmotoren für den
Allgemeingebrauch mit standardisierten
Abmessungen und Leistungen -
Baugrößen 56 bis 315 und
Flanschgrößen 65 bis 740

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CENELEC

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

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Foreword

This European Standard was prepared by the Technical Committee CENELEC TC 2, Rotating machinery.

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as EN 50347 on 2001-03-01.

This European Standard supersedes HD 231 S1:1974.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2002-03-01
 - latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2004-03-01
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1 Scope

This EN 50347 covers general purpose standard dimensioned three-phase induction motors for 50 Hz with rated voltages not exceeding 690 V for industrial purposes having dimensions selected from IEC 60072-1 in the range :

Frame numbers - shaft-heights : 56 mm to 315 mm

Flange numbers - pitch circle diameter of flange : 65 mm to 740 mm

It gives tables of fixing dimensions, shaft extension dimensions and output powers.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 20273, *Fasteners - Clearance holes for bolts and screws*

EN 20286, *ISO system of limits and fits*

IEC 60034-7, *Rotating electrical machines – Part 7: Classification of types of constructions and mounting arrangements and terminal box position (IM Code)* (harmonized as EN 60034-7)

IEC 60072-1, *Dimensions and output series for rotating electrical machines - Part 1: Frame numbers 56 to 400 and flange numbers 55 to 1080*

3 Letter symbols and dimensional sketches

The following symbols identify the dimensional features of a motor. Mandatory dimensions are marked with an asterisk.

3.1 Letter-symbols for dimensions

- *A - distance between centre-lines of fixing holes (end view)
- AA - width of the end of the foot (end view)
- AB - over-all dimension across the feet (end view)
- AC - diameter of the machine
- AD - distance from the centre-line of the machine to extreme outside of the terminal box or other most salient part mounted on the side of the machine
- *B - distance between the centre-lines of the fixing holes (side view)
- BA - length of the foot (side view)
- BB - over-all dimension across the feet (side view)
- *C - distance from the shoulder on the shaft at D-end to the centre-line of the mounting holes in the nearest feet
- CA - distance from the shoulder on the shaft at N-end to the centre-line of the mounting holes in the nearest feet
- *CB - rounding fillet at the shoulder on the shaft at D-end
- CC - rounding fillet at the shoulder on the shaft at N-end