Irish Standard
I.S. EN 62626-1:2014

Low-voltage switchgear and controlgear enclosed equipment - Part 1: Enclosed switch-disconnectors outside the scope of IEC 60947-3 to provide isolation during repair and maintenance work

I.S. EN 62626-1:2014

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 62626-1

May 2014

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English Version

Low-voltage switchgear and controlgear enclosed equipment - Part 1: Enclosed switch-disconnectors outside the scope of IEC 60947-3 to provide isolation during repair and maintenance work (IEC 62626-1:2014)

Appareillage basse tension sous enveloppe - Partie 1: Interrupteur-sectionneur en coffret, en dehors du domaine d'application de la norme CEI 60947-3, destiné à garantir l'isolation pendant les phases de maintenance (CEI 62626-1:2014)

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Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Ref. No. EN 62626-1:2014 E

Foreword

The text of document 17B/1839A/FDIS, future edition 1 of IEC 62626-1, prepared by SC 17B "Low-voltage switchgear and controlgear" of IEC/TC 17 "Switchgear and controlgear" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62626-1:2014.

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)	2014-12-21
– latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2017-03-21

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

This standard covers the Principle Elements of the Safety Objectives for Electrical Equipment Designed for Use within Certain Voltage Limits (LVD - 2006/95/EC).

Endorsement notice

The text of the International Standard IEC 62626-1:2014 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 60204-1	NOTE	Harmonized as EN 60204-1.
IEC 60364-5-51	NOTE	Harmonized as HD 60364-5-51.
IEC 60529	NOTE	Harmonized as EN 60529.
IEC 60947-5-1	NOTE	Harmonized as EN 60947-5-1.
ISO 13850	NOTE	Harmonized as EN ISO 13850.

Annex ZA
(normative)
Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When 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 60050	series	International Electrotechnical Vocabulary	-	series
IEC 60947-1	2007	Low-voltage switchgear and controlgear	EN 60947-1	2007
A1	2010	Part 1: General rules		
IEC 60947-3	2008	Low-voltage switchgear and controlgear	EN 60947-3	2009
A1	2012	Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units	A1	2012
IEC 62262	2002	Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)	EN 62262	2002

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IEC 62626-1

Edition 1.0 2014-02

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Low-voltage switchgear and controlgear enclosed equipment – Part 1: Enclosed switch-disconnectors outside the scope of IEC 60947-3 to provide isolation during repair and maintenance work

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IEC 62626-1:2014-02(en-fr)

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LOW-VOLTAGE SWITCHGEAR AND CONTROLGEAR ENCLOSED EQUIPMENT –

Part 1: Enclosed switch-disconnectors outside the scope of IEC 60947-3 to provide isolation during repair and maintenance work

FOREWORD

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International Standard IEC 62626-1 has been prepared by subcommittee SC17B: Low-voltage switchgear and controlgear, of IEC technical committee 17: Switchgear and controlgear.

The text of this standard is based on the following documents:

FDIS	Report on voting
17B/1839A/FDIS	121A/3/RVD

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 62626 series, published under the general title *Low-voltage switchgear and controlgear enclosed equipment*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

INTRODUCTION

Enclosed switch-disconnectors covered by this part of IEC 62626 are intended for use in various applications, to provide isolation of electrical equipment, especially motor circuits, during repair, cleaning and maintenance works.

Such enclosed switch-disconnectors are sometimes known as “maintenance switches”, or “safety switches”. The name “safety switch” is also used for safety related position switches, inspection switches and switches for other applications, which are not covered by this standard.

This part of IEC 62626 specifies additional requirements for enclosed switch-disconnectors according to IEC 60947-3 to provide isolation of electrical equipment during repair and maintenance work.

Enclosed switch-disconnectors according to this standard are mounted close to the equipment which has to be isolated and are usually operated by instructed persons.

NOTE 1 The term “safety switch” is not recognized in some countries as the same meaning given in this standard.

NOTE 2 Switch-disconnectors do not necessarily meet the requirements for prevention of unexpected start, especially if there are energy sources other than electrical.

LOW-VOLTAGE SWITCHGEAR AND CONTROLGEAR ENCLOSED EQUIPMENT –

Part 1: Enclosed switch-disconnectors outside the scope of IEC 60947-3 to provide isolation during repair and maintenance work

1 Scope

This part of IEC 62626 applies to enclosed switches-disconnectors with rated voltages up to 1 000 V a.c. for repair and maintenance work or cleaning work in load circuits. Devices within the scope of this standard are derived from switch-disconnectors according to IEC 60947-3. Enclosed switch-disconnectors in this standard are suitable for isolation according to IEC 60947 series and are not supposed to be equipped with means for remote control or automatic switching to avoid unexpected or accidental start. These devices are not intended to be used for operational switching, quick start and stop or jogging.

NOTE 1 However, these kind of devices can provide the possibility to switch off electrical equipment (even in a critical situation or not).

Devices within the scope of this standard provide isolation of electrical equipment, especially in motor circuits, during repair and maintenance or cleaning works.

Enclosed switch-disconnectors for various applications to provide isolation of electrical equipment during repair and maintenance work, named “maintenance switches”, are designated hereafter as devices with:

a) different classes;

b) characteristics of each class;

c) minimum test requirements;

d) information to be marked on the equipment or made available by the manufacturer, for example in the catalogue.

NOTE 2 This standard does not specify additional requirements that are necessary for the application of these switches, for example, in explosive atmospheres (e.g. ATEX in Europe).

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60050 (all parts), *International electrotechnical vocabulary*. Available from: <http://www.electropedia.org/>

IEC 60947-1:2007, *Low-voltage switchgear and controlgear – Part 1: General rules*
Amendment 1:2010

IEC 60947-3:2008, *Low-voltage switchgear and controlgear – Part 3: Switches, disconnector, switch-disconnector and fuse-combination units*
Amendment 1:2012

IEC 62262:2002, *Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)*