



# SLOVENSKI STANDARD SIST EN IEC 62026-1:2019

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SIST EN 62026-1:2007

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## Nizkonapetostne stikalne in krmilne naprave - Vmesniki krmilnikov (CDIs) - 1. del: Splošna pravila (IEC 62026-1:2019)

Low-voltage switchgear and controlgear - Controller-device interfaces (CDIs) - Part 1:  
General rules (IEC 62026-1:2019)

Niederspannungsschaltgeräte Steuerung-Geräte-Netzwerke (CDIs) - Teil 1: Allgemeine  
Festlegungen (IEC 62026-1:2019)

Appareillage à basse tension - Interfaces appareil de commande-appareil (CDI) - Partie  
1: Règles générales (IEC 62026-1:2019)

Ta slovenski standard je istoveten z: **EN IEC 62026-1:2019**

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### **ICS:**

29.130.20	Nizkonapetostne stikalne in krmilne naprave	Low voltage switchgear and controlgear
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**SIST EN IEC 62026-1:2019**

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EUROPEAN STANDARD

EN IEC 62026-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2019

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Supersedes EN 62026-1:2007 and all of its amendments  
and corrigenda (if any)

English Version

## Low-voltage switchgear and controlgear - Controller-device interfaces (CDIs) - Part 1: General rules (IEC 62026-1:2019)

Appareillage à basse tension - Interfaces appareil de  
commande-appareil (CDI) - Partie 1: Règles générales  
(IEC 62026-1:2019)

Niederspannungsschaltgeräte - Steuerung-Geräte-  
Netzwerke (CDIs) - Teil 1: Allgemeine Festlegungen  
(IEC 62026-1:2019)

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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.

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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

**EN IEC 62026-1:2019 (E)****European foreword**

The text of document 121A/280/FDIS, future edition 3 of IEC 62026-1, prepared by SC 121A "Low-voltage switchgear and controlgear" of IEC/TC 121 "Switchgear and controlgear and their assemblies for low voltage" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62026-1:2019.

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) 2020-03-13
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2022-06-13

This document supersedes EN 62026-1:2007 and all of its amendments and corrigenda (if any).

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The text of the International Standard IEC 62026-1:2019 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 61000-6 (series)	NOTE	Harmonized as EN 61000-6 (series)
IEC 62026 (series)	NOTE	Harmonized as EN 62026 (series)

## 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](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60947-1	2007	Low-voltage switchgear and controlgear - Part 1: General rules	EN 60947-1	2007
+ A1	2010		+ A1	2011
+ A2	2014		+ A2	2014
IEC 61000-4-2	2008	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	EN 61000-4-2	2009
IEC 61000-4-3	2006	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated radio-frequency electromagnetic field immunity test	EN 61000-4-3	2006
+ A1	2007		+ A1	2008
+ A2	2010		+ A2	2010
IEC 61000-4-4	2012	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	EN 61000-4-4	2012
IEC 61000-4-5	2014	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	EN 61000-4-5	2014
+ A1	2017		+ A1	2017
IEC 61000-4-6	2013	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	EN 61000-4-6	2014
IEC 61000-6-2	2016	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments	EN IEC 61000-6-2	2019
CISPR 11 (mod)	2015	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement	EN 55011	2016
+ A1	2016		+ A1	2017

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IEC 62026-1

Edition 3.0 2019-05

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

**Low-voltage switchgear and controlgear – Controller-device interfaces (CDIs) –  
Part 1: General rules** (standards.iteh.ai)

**Appareillage à basse tension – Interfaces appareil de commande-appareil (CDI) –  
Partie 1: Règles générales**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**LOW-VOLTAGE SWITCHGEAR AND CONTROLGEAR –  
CONTROLLER-DEVICE INTERFACES (CDIs) –****Part 1: General rules**

## FOREWORD

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International Standard IEC 62026-1 has been prepared by subcommittee 121A: Low-voltage switchgear and controlgear, of IEC technical committee 121: Switchgear and controlgear and their assemblies for low voltage.

This third edition cancels and replaces the second edition published in 2007. This edition constitutes a technical revision.

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

- a) additional requirements for safety information and instructions, including the measures to be taken, if any, for achieving EMC compliance;
- b) EMC immunity requirements aligned with current IEC 61000-6 series of standards. Radiated radio-frequency electromagnetic fields test level increased to 6 GHz;
- c) EMC emissions requirements aligned with current CISPR 11 publication.

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

FDIS	Report on voting
121A/280/FDIS	121A/295/RVD

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

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

A list of all parts of the IEC 62026, under the general title *Low-voltage switchgear and controlgear – Controller-device interfaces (CDIs)*, can be found on the IEC website.

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

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

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## INTRODUCTION

The class of controller-device interfaces (CDIs) covered in this document includes industrial CDIs for control systems, factory automation and process automation.

Industrial CDIs have proliferated to meet specific user needs, but no single CDI meets all needs. The reason for multiple solutions is the wide range of physical, usage, information content and configuration requirements. The physical requirements have resulted in CDIs with widely differing signal and line conditioning mechanisms in order to meet distance, node count and environmental considerations.

While there is wide variation in CDI technologies, there are common components, interfaces and environmental requirements that are specified by this document. Standardized definitions of these common CDI requirements assist the user in comparing and selecting technologies to match the distance, node count, throughput and installation requirements for a specific application.

This document simplifies the CDI selection process by providing a common structure for generating a specific CDI's IEC standard while also allowing specific interface features and capabilities to be included. Clauses 4 to 8 contain the outline of general requirements that the CDI's IEC standard identifies. Clause 9 contains the test specification.

Standardization of CDI aspects also simplifies the task of writing the software for the higher layer functions of industrial control systems, such as supervisory control, operator interface and control strategy programming.

For this document to be complete and usable, it requires the availability of specific CDI standards, which make up the other parts of the IEC 62026 series.

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