

Low-voltage switchgear and controlgear — Controller-device interfaces (CDIs) —

Part 1: General rules

The European Standard EN 62026-1:2007 has the status of a
British Standard

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National foreword

This British Standard is the UK implementation of EN 62026-1:2007. It is identical to IEC 62026-1:2007.

The UK participation in its preparation was entrusted by Technical Committee PEL/17, Switchgear, controlgear, and HV-LV co-ordination, to Subcommittee PEL/17/2, Low voltage switchgear and controlgear.

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

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Part 1: General rules
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Appareillage à basse tension -
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Partie 1: Règles générales
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Niederspannungsschaltgeräte -
Steuerungs-Geräte-Netzwerke (CDIs) -
Teil 1: Allgemeine Festlegungen
(IEC 62026-1:2007)

This European Standard was approved by CENELEC on 2007-09-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat 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 Central Secretariat has the same status as the official versions.

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CENELEC

European Committee for Electrotechnical Standardization
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Europäisches Komitee für Elektrotechnische Normung

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Foreword

The text of document 17B/1505/CDV, future edition 2 of IEC 62026-1, prepared by SC 17B, Low-voltage switchgear and controlgear, of IEC TC 17, Switchgear and controlgear, was submitted to the IEC-CENELEC parallel Unique Acceptance Procedure and was approved by CENELEC as EN 62026-1 on 2007-09-01.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
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- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2010-09-01

This European Standard has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association and covers essential requirements of EC Directives EMC (89/336/EEC) and EMC2 (2004/108/EC). See Annex ZZ.

Annexes ZA and ZZ have been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 62026-1:2007 was approved by CENELEC as a European Standard without any modification.

CONTENTS

INTRODUCTION.....	4
1 Scope.....	5
2 Normative references.....	5
3 Terms and definitions	6
4 Classifications	7
5 Characteristics.....	7
5.1 CDI components.....	7
5.2 Interfaces	7
5.3 Topology	8
5.4 Information exchanges.....	8
5.5 Attributes.....	8
6 Product information.....	8
6.1 Instructions for installation, operation and maintenance.....	8
6.2 Profiles.....	8
6.3 Marking	8
6.4 Degree of protection	9
7 Normal service, mounting and transport conditions.....	9
7.1 General.....	9
7.2 Normal service conditions	9
7.2.1 General	9
7.2.2 Ambient air temperature.....	9
7.2.3 Altitude	9
7.2.4 Climatic conditions.....	9
7.3 Conditions during transport and storage.....	9
7.4 Mounting	10
8 Constructional and performance requirements	10
8.1 General	10
8.2 Electromagnetic compatibility (EMC).....	10
8.2.1 Immunity.....	10
8.2.2 Emission.....	11
8.2.3 EMC tests.....	11
9 Tests	11
9.1 General	11
9.2 Type tests	11
9.3 Electromagnetic compatibility.....	11
Annex ZA (normative) Normative references to international publications with their corresponding European publications	13
Annex ZZ (informative) Coverage of Essential Requirements of EC Directives	14
Table 1 – Immunity requirements	10

INTRODUCTION

The class of controller-device interfaces (CDIs) covered in this International Standard 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 standard. Standardized definitions of these common CDI requirements assist the user to compare and select technologies to match the distance, node count, throughput and installation requirements for a specific application.

This standard 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 1 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 standard to be complete and usable, it requires the availability of specific CDI standards, which make up the other parts of the IEC 62026 series.