



**SLOVENSKI STANDARD**  
**SIST EN IEC 63404:2025**

**01-februar-2025**

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**Stikalne in krmilne naprave ter njihovi sestavi za uporabo pri nizki napetosti - Integracija radiokomunikacijske naprave nad 380 MHz v opremo (IEC 63404:2024)**

Switchgear and controlgear and their assemblies for low voltage - Integration of radiocommunication device above 380 MHz into an equipment (IEC 63404:2024)

Niederspannungsschaltgeräte und deren Niederspannungs-Schaltgerätekombinationen - Integration einer Funkkommunikationseinrichtung oberhalb 380 MHz in ein Gerät

Appareillages et ensembles d'appareillages à basse tension - Intégration d'un dispositif de radiocommunication de plus de 380 MHz à un équipement

**Ta slovenski standard je istoveten z: EN IEC 63404:2024**

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**ICS:**

29.130.20	Nizkonapetostne stikalne in krmilne naprave	Low voltage switchgear and controlgear
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EUROPEAN STANDARD

EN IEC 63404

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2024

ICS 29.130.20

English Version

Switchgear and controlgear and their assemblies for low voltage  
- Integration of radiocommunication device above 380 MHz into  
an equipment  
(IEC 63404:2024)

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Schaltgerätekombinationen - Integration einer  
Funkkommunikationseinrichtung oberhalb 380 MHz in ein  
Gerät  
(IEC 63404:2024)

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

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**EN IEC 63404:2024 (E)****European foreword**

The text of document 121/151/FDIS, future edition 1 of IEC 63404, prepared by 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 63404:2024.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2025-12-31 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2027-12-31 document have to be withdrawn

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In the official version, for Bibliography, the following notes have to be added for the standard indicated:

IEC 60947-5-2 NOTE Approved as EN IEC 60947-5-2

IEC 61439-1:2020 NOTE Approved as EN IEC 61439-1:2021 (not modified)

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

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60417	-	Graphical symbols for use on equipment. Index, survey and compilation of the single sheets.	-	-
IEC 61000-4-39	2017	Electromagnetic compatibility (EMC) - Part 4-39: Testing and measurement techniques - Radiated fields in close proximity - Immunity test	EN 61000-4-39	2017
IEC 62479	-	Assessment of the compliance of low-power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)	EN 62479	-
IEC 62657-2	-	Industrial communication networks - Coexistence of wireless systems - Part 2: Coexistence management	EN IEC 62657-2	-
ISO 7000	-	Graphical symbols for use on equipment - Registered symbols	-	-





IEC 63404

Edition 1.0 2024-02

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



**Switchgear and controlgear and their assemblies for low voltage – Integration of radiocommunication device above 380 MHz into an equipment**

**Appareillages et ensembles d'appareillages à basse tension – Intégration d'un dispositif de radiocommunication de plus de 380 MHz à un équipement**

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## CONTENTS

FOREWORD.....	4
INTRODUCTION.....	6
1 Scope.....	7
2 Normative references .....	7
3 Terms and definitions .....	8
4 Implementation categories.....	10
5 Characteristics .....	13
5.1 Radiocommunication.....	13
5.2 Radiocommunication device interfaces .....	13
5.3 Radiofrequency capability profile of the host equipment.....	14
6 Product information and marking .....	15
6.1 General.....	15
6.2 Identification .....	15
6.3 Characteristics.....	15
6.4 Instruction for the upgrade of the radiocommunication device .....	15
7 Normal service, mounting and transport conditions.....	16
8 Constructional and performance requirements.....	16
8.1 General.....	16
8.2 Constructional.....	16
8.2.1 Upgrade of the radiocommunication device.....	16
8.2.2 Addition of an antenna port.....	17
8.2.3 Electromagnetic field .....	17
8.3 Radio communication performance .....	17
8.4 EMC .....	17
8.4.1 Radiocommunication .....	17
8.4.2 Radiofrequency capability profile .....	18
8.4.3 Addition or withdrawal of antenna port.....	18
9 Tests .....	18
9.1 Capability profile test procedure.....	18
9.2 Evaluation procedure for assemblies.....	19
9.3 Constructional.....	19
9.3.1 Upgrade of the radiocommunication device.....	19
9.3.2 Electromagnetic field .....	19
9.4 Performance .....	19
9.4.1 EMC immunity performance criteria .....	19
9.4.2 Radiocommunication performance .....	20
9.5 EMC .....	21
9.5.1 Radiated emissions .....	21
9.5.2 Conducted emissions.....	21
9.5.3 Immunity.....	22
Annex A (informative) Radiocommunication device integration use cases .....	23
A.1 General.....	23
A.2 Use case A – Wireless & battery-less position switch.....	23
A.3 Use case B – Proximity switch according to IEC 60947-5-2 with external voltage supply or integrated battery and integrated universal radio module and antenna.....	25



A.4	Use case C – Circuit-breaker with an embedded radiocommunication device for wireless interface .....	28
A.5	Use case D – Upgrade of a low-voltage assembly to become an intelligent assembly .....	29
Annex B (informative)	Example of radiocommunication devices .....	31
Annex C (informative)	Guidance on additional aspects to be considered in product standards .....	32
C.1	General .....	32
C.2	Configuration .....	32
C.3	Information to be provided with the equipment .....	32
C.4	Integration .....	32
C.4.1	General .....	32
C.4.2	Constructional .....	32
C.4.3	Performance .....	33
C.4.4	Electromagnetic compatibility .....	33
C.4.5	Coexistence management and electromagnetic environment .....	33
C.4.6	Embedded software .....	34
C.4.7	Security aspects .....	34
C.4.8	Routine and sampling tests .....	34
Bibliography	.....	35
Figure 1	– Example of radiocommunication implementation category 1 .....	11
Figure 2	– Example of radiocommunication implementation category 1 with distributed embedded software .....	11
Figure 3	– Example of radiocommunication implementation category 2 .....	11
Figure 4	– Example of radiocommunication implementation category 2 on two printed circuit boards .....	12
Figure 5	– Example of radiocommunication implementation category 3 .....	12
Figure 6	– Example of radiocommunication implementation category 4 .....	12
Figure 7	– Examples of radiofrequency capability profile .....	14
Figure 8	– Example of transmit mask .....	21
Figure B.1	– Example of integration of a radiocommunication device into a wireless communication interface .....	31
Table 1	– Performance criterion .....	20

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**SWITCHGEAR AND CONTROLGEAR AND  
THEIR ASSEMBLIES FOR LOW VOLTAGE – INTEGRATION OF  
RADIOCOMMUNICATION DEVICE ABOVE 380 MHZ INTO AN EQUIPMENT**

## FOREWORD

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IEC 63404 has been prepared by IEC technical committee 121: Switchgear and controlgear and their assemblies for low voltage. It is an International Standard.

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

Draft	Report on voting
121/151/FDIS	121/158/RVD

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications](http://www.iec.ch/publications).

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

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- revised.

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## INTRODUCTION

In the context of the fast evolution of radiocommunication technologies and the long lifetime of low voltage equipment, this document proposes the evaluation and verification of the initial integration and update of radiocommunication devices within host equipment, including the hardware or the software.

The aim of this document is to define the tasks of testing the host equipment when integrating and updating the radiocommunication device into low voltage equipment (e.g. circuit-breaker, sensor, electric actuator, etc.). In general, this document gives requirements for components hosting a radiocommunication device in order to facilitate their integration into an assembly.

This document is intended to be referenced by product standards as common radiocommunication requirements (see Annex C).

The test program has been elaborated based on the result of actual IEC 61000-4-39 testing by equipment manufacturers and test laboratories. This test allows the characterisation of radiofrequency band(s) and amplitude(s) which is called a capability profile. This capability profile can be used to demonstrate the capability of an equipment to host various radiocommunication devices when their characteristics are within the limits given by the capability profile.

The integration of a pre-evaluated radiocommunication device according to its radiotechnology standard into a host equipment can affect its radio transmitter performances. This document includes the verification of the radiocommunication functions after integration following the main guidance from ETSI EG 203 367, FCC KDB 996369 D04, MIIT No.129:2021 and GRFC N 07-20-03-001:2007.

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