SLOVENSKI STANDARD
SIST-TS CLC IEC/TS 63074:2024

01-september-2024

Varnost strojev - Zaščitni vidiki, povezani s funkcionalno varnostjo varnostno pomembnih nadzornih sistemov

Safety of machinery - Security aspects related to functional safety of safety-related control systems

Maschinensicherheit - Sicherheitsaspekte in Verbindung mit der funktionalen Sicherheit von sicherheitsrelevanten Steuerungssystemen

Sécurité des machines - Aspects liés à la sûreté relatifs à la sécurité fonctionnelle des systèmes de commande relatifs à la sécurité

Ta slovenski standard je istoveten z: **CLC IEC/TS 63074:2024**

ICS:

13.110	Varnost strojev	Safety of machinery
25.040.01	Sistemi za avtomatizacijo v industriji na splošno	Industrial automation systems in general
29.020	Elektrotehnika na splošno	Electrical engineering in general

SIST-TS CLC IEC/TS 63074:2024 **en,fr,de**

TECHNICAL SPECIFICATION

SPÉCIFICATION TECHNIQUE

TECHNISCHE SPEZIFIKATION

CLC IEC/TS 63074

February 2024

ICS 13.110; 29.020

English Version

Safety of machinery - Security aspects related to functional safety of safety-related control systems (IEC/TS 63074:2023)

Sécurité des machines - Aspects liés à la sûreté relatifs à la sécurité fonctionnelle des systèmes de commande relatifs à la sécurité
(IEC/TS 63074:2023)

Maschinensicherheit - Sicherheitsaspekte in Verbindung mit der funktionalen Sicherheit von sicherheitsrelevanten Steuerungssystemen
(IEC/TS 63074:2023)

This Technical Specification was approved by CENELEC on 2024-01-22.

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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

Ref. No. CLC IEC/TS 63074:2024 E

European foreword

This document (CLC IEC/TS 63074:2024) consists of the text of IEC/TS 63074:2023 prepared by IEC/TC 44 "Safety of machinery - Electrotechnical aspects".

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Endorsement notice

The text of the International Technical Specification IEC/TS 63074:2023 was approved by CENELEC as a European Technical Specification without any modification.

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

IEC 60204-1:2016	NOTE	Approved as EN 60204-1:2018
IEC 61496 (series)	NOTE	Approved as EN IEC 61496 (series)
IEC 61508-2:2010	NOTE	Approved as EN 61508-2:2010 (not modified)
IEC 61508-3:2010	NOTE	Approved as EN 61508-3:2010 (not modified)
IEC 61508-4:2010	NOTE	Approved as EN 61508-4:2010 (not modified)
IEC 62443 (series)	NOTE	Approved as EN IEC 62443 (series)
IEC 62443-2-4:2015	NOTE	Approved as EN IEC 62443-2-4:2019 (not modified)
IEC 62443-2-4:2015/A1:2017	NOTE	Approved as EN IEC 62443-2-4:2019/A1:2019 (not modified)
IEC 62443-3-2:2020	NOTE	Approved as EN IEC 62443-3-2:2020 (not modified)
IEC 62443-3-3:2013	NOTE	Approved as EN IEC 62443-3-3:2019 (not modified)
IEC 62443-4-1:2018	NOTE	Approved as EN IEC 62443-4-1:2018 (not modified)
IEC 62745	NOTE	Approved as EN 62745
ISO 12100:2010	NOTE	Approved as EN ISO 12100:2010 (not modified)
ISO 13849-2:2012	NOTE	Approved as EN ISO 13849-2:2012 (not modified)
ISO 14119	NOTE	Approved as EN ISO 14119
ISO/TR 22100-4:2018	NOTE	Approved as CEN ISO/TR 22100-4:2020 (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.

Publication	Year	Title	EN/HD	Year
IEC 62061	2021	Safety of machinery - Functional safety of safety-related control systems	EN IEC 62061	2021

IEC TS 63074

Edition 1.0 2023-02

TECHNICAL SPECIFICATION

colour inside

Safety of machinery – Security aspects related to functional safety of safety-related control systems

INTERNATIONAL
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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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SAFETY OF MACHINERY – SECURITY ASPECTS RELATED TO FUNCTIONAL SAFETY OF SAFETY-RELATED CONTROL SYSTEMS

FOREWORD

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IEC TS 63074 has been prepared by IEC technical committee 44: Safety of machinery – Electrotechnical aspects. It is a Technical Specification.

This first edition cancels and replaces the first edition of IEC TR 63074 published in 2019. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to IEC TR 63074:2019:

a) new Clause 6 on Cybersecurity and functional safety of machinery;
b) new Figure A.1;
c) new Clause C.3 Example 2 – Use phase of the machine.

The text of this Technical Specification is based on the following documents:

Draft	Report on voting
44/964/DTS	44/987/RVDTS

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 Technical Specification 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. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

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

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- replaced by a revised edition, or
- amended.

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