

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Robotics for electricity generation, transmission and distribution systems –
Part 1-1: Terminology for electric power robots**

**Robotique pour les réseaux de production, de transport et de distribution de
l'électricité –
Partie 1-1: Terminologie pour les robots électriques**



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IEC Secretariat
3, rue de Varembe
CH-1211 Geneva 20
Switzerland

Tel.: +41 22 919 02 11
info@iec.ch
www.iec.ch

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ROBOTICS FOR ELECTRICITY GENERATION, TRANSMISSION AND DISTRIBUTION SYSTEMS –

Part 1-1: Terminology for electric power robots

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

Draft	Report on voting
129/35/FDIS	129/44/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. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

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ROBOTICS FOR ELECTRICITY GENERATION, TRANSMISSION AND DISTRIBUTION SYSTEMS –

Part 1-1: Terminology for electric power robots

1 Scope

This part of IEC 63439 defines terms relating to electric power robot. It defines terms used for describing classification, constitution, function, performance, safety, working environment and other topics relating to electric power robot.

This document applies to the design, production, testing, sales, application, maintenance, management, scientific research of electric power robot.

2 Normative references

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.

ISO 8373:2021, *Robotics – Vocabulary*

3 Terms, definitions and abbreviated terms

For the purposes of this document, the terms and definitions given in ISO 8373 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- IEC Electropedia: available at <https://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

3.1 General terms related to EPR

3.1.1

electric power robot

EPR

robot applied in electric power systems, such as power plants, substations, transmission and distribution lines

3.1.2

unmanned aircraft power robot

JAVPR

unmanned aircraft power robot that can move itself in all three dimensions

3.1.3

diving electric power robot

DEPR

EPR that can move in liquids such as water and oil