

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

**Residual direct current detecting device (RDC-DD) to be used for mode 3  
charging of electric vehicles**

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

Tel.: +41 22 919 02 11  
[info@iec.ch](mailto:info@iec.ch)  
[www.iec.ch](http://www.iec.ch)

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## RESIDUAL DIRECT CURRENT DETECTING DEVICE (RDC-DD) TO BE USED FOR MODE 3 CHARGING OF ELECTRIC VEHICLES

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International Standard IEC 62955 has been prepared by subcommittee 23E: Circuit-breakers and similar equipment for household use, of IEC technical committee 23: Electrical accessories.

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

FDIS	Report on voting
23E/1042/FDIS	23E/1047/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.

The following differing practices of a less permanent nature exist in the countries indicated below.

Specific rules in several countries are introduced in:

- Clause 5.3.8.1, Table 4 and 8.1.2 Note 1,
- Annex I Note 1,
- Annex J Note 1,
- Annex J Note 1 and in Clause 8.3.2.

In this standard, the following print types are used:

- Requirements proper: in roman type.
- *Test specifications: in italic type.*
- Explanatory matter: in smaller roman type.

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,
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- replaced by a revised edition, or
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## INTRODUCTION

According to IEC 60364-7-722, each connecting point is protected by its own RCD of at least type A, having a rated residual operating current not exceeding 30 mA.

Protective measures against DC fault currents need to be taken. The appropriate measures are:

- RCD type B, or
- RCD type A and appropriate equipment that ensures the switching of the supply in case of a DC fault current above 6 mA.

It is the purpose of this document to specify this type of detecting equipment to ensure that the proper functionality of RCDs type A or type F is not impaired by DC residual currents above 6 mA.

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