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BUREAU OF INDIAN STANDARDS
DRAFT FOR COMMENTS ONLY

Draft Indian Standard

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

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Low Voltage Switchgear and Cantrolgear Sectional Committee, ETD 07

Last date of receipt of comments**:** 22 August 2023

NATIONAL FOREWORD

This draft Indian Standard which is identical with IEC 62955: 2018 "Residual direct current detecting device (RDC-DD) to be used for mode 3 charging of electric vehicles" issued by the International Electrotechnical Commission (IEC) will be adopted by the Bureau of Indian Standards on the recommendation of the Low Voltage Switchgear and Controlgear Sectional Committee and approval of the Electrotechnical Division Council.

The text of IEC Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain terminologies and conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

a) Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard'.
b) Comma (,) has been used as a decimal marker, while in Indian Standards the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to International Standards for which Indian Standards also exists. The corresponding Indian Standards, which are to be substituted, are listed below along with their degree of equivalence for the editions indicated:

International Standard	*Corresponding Indian Standard*	*Degree of Equivalence*
IEC 60068-2-30:2005 Environmental testing – Part 2-30: Tests – Test Db: Damp heat, cyclic (12 h + 12 h cycle)	IS 9000 (Part 5/Sec 12) : 1981 Basic environmental testing procedures for electronic and electrical items: Part 5 damp heat (Cyclic) test	Technically Equivalent
IEC 60068-3-4 Environmental testing – Part 3-4: Supporting documentation and guidance –	IS/IEC 60068-3-4 : 2001 Environmental Testing Part 3	Identical

Damp heat tests	Supporting documentation and guidance Sec 4 Damp heat tests	
IEC 60112: 2020, Method for the determination of the proof and the comparative tracking indices of solid insulating materials	IS 2824 : 2007 IEC 60112 : 2003 Method for the determination of the proof and the comparative tracking indices of solid insulating materials (Second Revision)	Identical
IEC 60228:2004, Conductors of insulated cables	IS 8130 : 2013 Conductors for insulated electric cables and flexible cords - Specification (Second Revision)	Technically Equivalent
IEC 60364 (all parts), Low-voltage electrical installations	IS 16996 : 2018 IEC 60364-8-1 : 2014 Low-Voltage Electrical Installations - Energy Efficiency	Identical
IEC 60529: 2013, Degrees of protection provided by enclosures (IP Code)	IS/IEC 60529 : 2001 Degrees of protection provided by enclosures (IP Code)	Identical
IEC 60664-1:2007, Insulation coordination for equipment within low-voltage systems – Part 1: Principles, requirements and tests	IS 15382 (Part 1) : 2014 60664-1:2020 Insulation coordination for equipment within low - Voltage systems: Part 1 principles, requirements and tests (*First Revision*)	Identical
IEC 60664-3, Insulation coordination for equipment within low-voltage systems – Part 3: Use of coating, potting or moulding for protection against pollution	IS 15382 (Part 3) : 2019 IEC60664-3 :2003 Insulation coordination for equipment within low-voltage systems : Part 3 use of coating potting or moulding for protection against pollution	Identical
IEC 60695-2-10, Fire hazard testing – Part 2-10: Glowing/hot-wire based test methods – Glow-wire apparatus and common test procedure	IS 11000 (Part 2/Sec 1) : 2018 IEC 60695-2-10: 2013 Fire hazard testing: Part 2 test methods: Sec 1 glow - Wire apparatus and common test procedure (Second Revision)	Identical
IEC 60898-1:2015, Electrical accessories – Circuit-breakers for overcurrent protection for household and similar installations – Part 1: Circuit-breakers for DC operation	IS/IEC 60898-1 : 2015 Electrical accessories - Circuit - Breakers for overcurrent protection for household and similar installations: Part 1 circuit - Breakers for a.c. operation (First Revision)	Identical
IEC 61008-1:2010, Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) – Part 1: General rules	IS 12640 (Part 1) : 2016 IEC 61008-1 : 2012 Residual current operated circuitBreakers without integral overcurrent protection for household and	Identical

	similar uses (Rccbs): Part 1 general rules (*Second Revision*)	
IEC 61009-1:2010, Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs) – Part 1: General rules	IS 12640 (Part 2) : 2016 IEC 61009-1 : 2012 Residual current operated circuit - Breakers with integral overcurrent protection for household and similar uses (Rcbos): Part 2 general rules	Identical

The technical committee has reviewed the provisions of the following international standards referred in this adopted standard and decided that they are acceptable for use in conjunction with this standard.

International Standard	*Title*
IEC 61543:1995, IEC 61543:1995/AMD1:2004 IEC 61543:1995/AMD2:2005	Residual current-operated protective devices (RCDs) for household and similar use – Electromagnetic compatibility

Only the English language text has been retained while adopting it in this Indian Standard, and as such, the page numbers given here are not the same as in the IEC Publication.

For the purpose of deciding whether a particular requirement of this standard is complied with the final value, observed or calculated expressing the result of a test or analysis shall be rounded off in accordance with IS 2: 2022 'Rules for rounding of numerical values (*Second Revision)*'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Note: The technical content of the document is not available on website. For details, please refer the corresponding of IEC 62955: 2018 or kindly contact:

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