

(PREVIEW)

Indian Standard

RESIDUAL CURRENT-OPERATED PROTECTIVE DEVICES (RCDs) FOR HOUSEHOLD AND SIMILAR USE—ELECTROMAGNETIC COMPATIBILITY

1 Scope

This International Standard Is Intended to ensure electromagnetic compatibility (EMC) of devices providing residual current protection, for rated voltages not exceeding 440 V a.c. intended principally for protection of persons against shock hazards.

This standard applies for environmental conditions which occur in installations connected to low-voltage public networks or similar. It may also provide guidance for ensuring EMC for other products intended for safety purposes or for products including electronic circuits and for which a high level-of continuity of service is required.

For EMC test requirements not included in the product standards reference should be made to this product family standard.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the ~most recent editions of the normative documents indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 1000-4-2: 1995, Electromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques - Section 2: Electrostatic discharge immunity test - Basic EMC Publication

IEC 1000-4-4: 1995, Electromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques - Section 4: Electrical fast transient/burst immunity test – Basic EMC publication

IEC 1000-2-2: 1990, Electromagnetic compatibility (EMC) - Part 2: Environment - Section 2: Compatibility levels for low-frequency conducted disturbances and signaling in public lowvoltage power supply systems

IEC 1000-4-1: 1992, Electromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques - Section 1: Overview of immunity tests - Basic EMC publication

IEC 1008-1: 1990, Residual current operated circuit-breakers without integral overcurrent protection (RCCBs) – Part 1 : General rules Amendment 1 (1992)

IEC 1009-1: 1991, Residual current operated circuit-breakers with integral overcurrent protection (RCSOs) for household and similar uses - Part 7: General rules

CISPR 14: 1993, Limits and methods of measurements of radio disturbance characteristic of electrical motor-operated and thermal appliances for household and similar purposes, electric tools and electric apparatus