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SPECIFICATION FOR RESIDUAL CURRENT OPERATED CIRCUIT-BREAKERS WITH INTEGRAL OVERCURRENT PROTECTION FOR HOUSEHOLD AND SIMILAR USES (RCBOs)PART 1 GENERAL REQUIREMENTS (THIRD REVISION)

SRI LANKA STANDARDS INSTITUTION

Sri Lanka Standard SPECIFICATION FOR RESIDUAL CURRENT OPERATED CIRCUIT-BREAKERS WITH INTEGRAL OVERCURRENT PROTECTION FOR HOUSEHOLD AND SIMILAR USES (RCBOs) – PART 1 GENERAL REQUIREMENTS (THIRD REVISION)

SLS 1022-1:2015 IEC 61009-1:2010+A1:2012+A2:2013

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Sri Lanka Standard SPECIFICATION FOR RESIDUAL CURRENT OPERATED CIRCUITBREAKERS WITHOUT INTEGRAL OVERCURRENT PROTECTION FOR HOUSEHOLD AND SIMILAR USES (RCBOs)PART 1 GENERAL REQUIREMENTS

(Third Revision)

NATIONAL FOREWORD

This standard was approved by the Sectoral Committee on Electrical Appliances and Accessories and was authorized for adoption and publication as a Sri Lanka Standard by the Council of Sri Lanka Standards Institution on 2015- 10-08

Part 1 of SLS 1022 is identical with **IEC 61009-1:2010+A1:2012+A2:2013**, Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs) Part 1 General rules, Edition 3.2 2013-09, published by the International Electrotechnical Commission (IEC).

For the purpose of deciding whether a particular requirement of this standard is complied with the final value, observed or calculated, expressing the results of a test or an analysis shall be rounded off in accordance with **SLS 102**. The number of significant places to be retained in the rounded off value shall be the same as that of the specified value in the standard.

Terminology and conventions

The text of the International Standard has been accepted as suitable for publication as a Sri Lanka Standard with additional information indicated in the National Appendix. However, certain terminology and conventions are not identical with those used in Sri Lanka Standards; attention is therefore drawn to the following:

- a) Wherever the words "International Standard" appear referring to this standard they should be interpreted as "Sri Lanka Standard".
- b) Wherever the page numbers are quoted they are page numbers of IEC standard.
- c) The comma has been used as a decimal marker. In the Sri Lanka Standards it is the current practices to use full point on the base line as a decimal marker.
- d) Whenever standard value of rated frequency appears it shall be taken as 50 Hz.

This part of the standard shall apply in conjunction with Part 2-1 Applicability of the general requirements to RCBOs functionally independent of line voltage.

Standard for RCBOs, functionally dependent on line voltage is not published as this type is not suitable to use for household and similar uses. (See National Appendix)

CROSS REFERENCES

International Standards	Corresponding Sri Lanka Standards
IEC 60529 Degrees of protection provided by enclosures (IP Code)	SLS 963 Degrees of protection provided by enclosures (IP Code)
IEC 61008: Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) - Part 1: General rules	SLS 1099: Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) – Part 1: General requirements

NOTE: Corresponding Sri Lanka Standards for other international standards listed under references in IEC 61009-1 are not available.

NATIONAL APPENDIX

1. Clause 4.1.2.2

Delete the existing "NOTE" and include the following "NOTE" immediately after the **b**) of **4.1.2.2.**

NOTE: The selection of the RCBOs in b) is subject to the following conditions of 532.2.2.2 of IEC 60364-5-53

The use of residual current protective devices with an auxiliary source not operating automatically in the case of failure of auxiliary source is permitted only if one of the following conditions is fulfilled:

- i) Protection against indirect contact according to clause 413.1 of IEC 60364-4-41 is ensured even in the case of failure of the auxiliary supply
- *ii)* The devices are installed in installations operated, tested and inspected by instructed persons or skilled persons



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FINAL VERSION

VERSION FINALE

Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs) –

Part 1: General rules

Interrupteurs automatiques à courant différentiel résiduel avec dispositif de protection contre les surintensités incorporé pour usages domestiques et analogues (DD) –

Partie 1: Règles générales



CONTENTS

FC	REWO)RD	9
IN	TRODU	JCTION	11
4	0		40
1		e	
2		native references	
3	Term	s and definitions	
	3.1	Definitions relating to currents flowing from live parts to earth	
	3.2	Definitions relating to the energization of a residual current circuit-breaker	15
	3.3	Definitions relating to the operation and functions of residual current circuit-breakers	16
	3.4	Definitions relating to values and ranges of energizing quantities	
	3.5	Definitions relating to values and ranges of influencing quantities	
	3.6	Definitions relating to terminals	
	3.7	Definitions relating to conditions of operation	
	3.8	Definitions relating to constructional elements	
	3.9	Definitions relating to tests	27
	3.10	Definitions relating to insulation coordination	27
4	Class	sification	29
	4.1	According to the method of operation	29
		4.1.1 RCBO functionally independent of line voltage (see 3.3.8)	29
		4.1.2 RCBO functionally dependent on line voltage (see 3.3.9)	29
	4.2	According to the type of installation	29
	4.3	According to the number of poles and current paths	30
	4.4	According to the possibility of adjusting the residual operating current	30
	4.5	According to resistance to unwanted tripping due to voltage surges	
	4.6	According to behaviour in presence of d.c. components	
	4.7	According to time-delay (in presence of a residual current)	
	4.8	According to the protection against external influences	
	4.9	According to the method of mounting	
		According to the method of connection	
		According to the instantaneous tripping current (see 3.4.18)	
		According to the <i>l</i> ² <i>t</i> characteristic	
_		According to the type of terminals	
5		acteristics of RCBOs	
	5.1	Summary of characteristics	
	5.2	Rated quantities and other characteristics	
		5.2.1 Rated voltage	
		5.2.2 Rated current (I_n)	
		5.2.4 Rated residual non-operating current $(I_{\Delta no})$	
		5.2.5 Rated frequency	
		5.2.6 Rated short-circuit capacity (I _{cn})	
		5.2.7 Rated residual making and breaking capacity $(I_{\Delta m})$	
		5.2.8 RCBO type S	
		5.2.9 Operating characteristics in case of residual currents with d.c.	
		components	33
	5.3	Standard and preferred values	33

		5.3.1	Preferred values of rated voltage (U _n)	33
		5.3.2	Preferred values of rated current (I _n)	34
		5.3.3	Standard values of rated residual operating current $(I_{\Delta n})$	34
		5.3.4	Standard value of residual non-operating current $(I_{\Delta no})$	
		5.3.5	Standard values of rated frequency	34
		5.3.6	Values of rated short-circuit capacity	34
		5.3.7	Minimum value of the rated residual making and breaking capacity $(I_{\Delta m})$	35
		5.3.8	Limiting values of break time and non-actuating time for RCBO of type AC and A	35
		5.3.9	Standard ranges of overcurrent instantaneous tripping	36
		5.3.10	Standard values of rated impulse withstand voltage $(U_{\rm imp})$	36
6	Mark		other product information	
7	Stan	dard cor	nditions for operation in service and for installation	39
	7.1	Standa	ard conditions	39
	7.2		ions of installation	
	7.3		on degree	
8			s for construction and operation	
	8.1		nical design	
	0.1	8.1.1	General	
		8.1.2	Mechanism	
		8.1.3	Clearances and creepage distances (see also Annex B)	
		8.1.4	Screws, current-carrying parts and connections	
		8.1.5	Terminals for external conductors	
		8.1.6	Non-interchangeability	
	8.2		tion against electric shock	
	8.3		ric properties and isolating capability	
	8.4		rature-rise	
	0	8.4.1	Temperature-rise limits	
		8.4.2	Ambient air temperature	
	8.5		ing characteristics	
	0.0	8.5.1	Under residual current conditions	
		8.5.2	Under overcurrent conditions	
	8.6		nical and electrical endurance	
	8.7		mance at short-circuit currents	
	8.8		ance to mechanical shock and impact	
	8.9		ance to heat	
	8.10		ance to abnormal heat and to fire	
	8.11		evice	
	_		ements for RCBOs functionally dependent on line voltage	
		•	one of the second of the secon	
			our of RCBOs in case of current surges caused by impulse voltages	
		Behavi	our of RCBOs in case of earth fault currents comprising a d.c. nent	
	g 16	•	lity	
			omagnetic compatibility (EMC)	
	0.17		magnetic compatibility (EMC)	54

Α	2	2	Λ	1	,
н	/	_	u		

9	Tests	3		54
	9.1	General	l	54
	9.2	Test co	nditions	55
	9.3	Test of	indelibility of marking	56
	9.4	Test of	reliability of screws, current-carrying parts and connections	56
	9.5	Test of	reliability of screw-type terminals for external copper conductors	57
	9.6		tion of protection against electric shock	
	9.7		dielectric properties	
			Resistance to humidity	
			Insulation resistance of the main circuit	
		9.7.3	Dielectric strength of the main circuit	60
			Insulation resistance and dielectric strength of auxiliary circuits	
			Secondary circuit of detection transformers	
		9.7.6	Capability of control circuits connected to the main circuit withstanding high d.c. voltages due to insulation measurements	
			Verification of impulse withstand voltages (across clearances and	
			across solid insulation) and of leakage current across open contacts	62
	9.8	Test of	temperature-rise	66
		9.8.1	Ambient air temperature	66
		9.8.2	Test procedure	66
		9.8.3	Measurement of the temperature of parts	66
		9.8.4	Temperature-rise of a part	66
	9.9	Verifica	tion of the operating characteristic	67
			Verification of the operating characteristics under residual current conditions	67
			Verification of the operating characteristic under overcurrent conditions	69
	9.10	Verifica	tion of mechanical and electrical endurance	71
		9.10.1	General test conditions	71
		9.10.2	Test procedure	71
		9.10.3	Condition of the RCBO after test	72
	9.11	Verifica	tion of the trip-free mechanism	72
		9.11.1	General test conditions	72
		9.11.2	Test procedure	72
	9.12	Short-ci	rcuit tests	72
		9.12.1	General conditions for test	72
		9.12.2	Test circuit for short-circuit performance	73
		9.12.3	Values of test quantities	74
		9.12.4	Tolerances on test quantities	75
		9.12.5	Power factor of the test circuit	75
		9.12.6	Measurement and verification of l^2t and of the peak current (I_p)	75
		9.12.7	Calibration of the test circuit	75
		9.12.8	Interpretation of records	76
		9.12.9	Condition of the RCBO for test	76
		9.12.10	Behaviour of the RCBO during short-circuit tests	77
		9.12.11		
		9.12.12	Verification of the RCBO after short-circuit test	81
		9.12.13	Verification of the rated residual making and breaking capacity ($I_{\Delta m}$)	81

9.13	Verifica	ation of resistance to mechanical shock and impact	82
	9.13.1	Mechanical shock	82
	9.13.2	Mechanical impact	83
9.14	Test of	resistance to heat	85
9.15	Test of	resistance to abnormal heat and to fire	86
9.16	Verifica	ation of the operation of the test device at the limits of rated voltage	87
	Verifica	ation of the behaviour of RCBOs functionally dependent on line e, classified under 4.1.2.1, in case of failure of the line voltage	
	-	Determination of the limiting value of the line voltage (U_x)	
		Verification of the automatic opening in case of failure of the line voltage	
	9.17.3	Verification of the correct operation, in presence of a residual current, for RCBOs opening with delay in case of failure of the line voltage	
	9.17.4	Verification of correct operation of RCBOs with three or four current paths, in presence of a residual current, the neutral and one line terminal only being energized	
	9.17.5	Verification of the reclosing function of automatically reclosing RCBOs	
9.18	Void		
	Verifica	ation of behaviour of RCBOs in case of current surges caused by voltages	
		Current surge test for all RCBOs (0,5 μs/100 kHz ring wave test)	
	9.19.2	Verification of behaviour at surge currents up to 3 000 A (8/20 μs surge current test)	89
9.20	Void		
9.21	Void		90
		ation of reliability	
		Climatic test	
		Test with temperature of 40 °C	
9.23		ation of ageing of electronic components	
		magnetic compatibility (EMC)	
		Tests covered by the present standard	
		Tests to be carried out according to IEC 61543	
9.25		resistance to rusting	
		ive) Test sequence and number of samples to be submitted for oses	115
		ive) Determination of clearances and creepage distances	
	•	ive) Arrangement for the detection of the emission of ionized gases	121
during sh	ort-circu	uit tests	
Annex D	(normat	ive) Routine tests	129
		ive) Special requirements for auxiliary circuits for safety extra-low	130
	•	ive) Coordination between RCBOs and separate fuses associated in	131
		ive) Additional requirements and tests for RCBOs consisting of a nesidual current unit designed for assembly on site	132
		ative) Void	
	•	ative) Methods for determination of short-circuit power-factor	
AIIIIEX IA	(111101111)	anver memous for actornination of short-offcult power-factor	137

© IEC:2010+A1:2012	31009-1
+A2:2013	
138	

Annex IB (informative) Glossary of symbols	138
Annex IC (informative) Examples of terminals	139
Annex ID (informative) Correspondence between ISO and AWG copper conductors	142
Annex IE (informative) Follow-up testing programme for RCBOs	143
Annex J (normative) Particular requirements for RCBOs with screwless type terminals for external copper conductors	147
Annex K (normative) Particular requirements for RCBOs with flat quick-connect terminations	155
Annex L (normative) Specific requirements for RCBOs with screw-type terminals for external untreated aluminium conductors and with aluminium screw-type terminals for use with copper or with aluminium conductors	162
Bibliography	172
Figure 1 – Thread-forming tapping screw (3.6.10)	94
Figure 2 – Thread-cutting tapping screw (3.6.11)	94
Figure 3 – Jointed test finger (9.6)	95
Figure 4 – Test circuit for the verification of operating characteristics (9.9.1) trip-free mechanism (9.11) behaviour in case of failure of line voltage (9.17.3 and 9.17.4) for RCBOs functionally dependent on line voltage.	96
Figure 5 – Test circuit for the verification of the correct operation of RCBOs, in the case of residual pulsating direct currents	97
Figure 6 – Test circuit for the verification of the correct operation in case of residual pulsating direct currents in presence of a standing smooth direct current of 0,006 A	98
Figure 7 – Typical diagram for all short-circuit tests except for 9.12.11.2.2	108
Figure 8 – Typical diagram for short-circuit tests according to 9.12.11.2.2	110
Figure 9 – Detail of impedances Z, Z ₁ and Z ₂	111
Figure 10 – Void	101
Figure 11 – Void	101
Figure 12 – Void	101
Figure 13 – Example of calibration record for short-circuit test	102
Figure 14 – Mechanical shock test apparatus (9.13.1)	103
Figure 15 – Mechanical impact test apparatus (9.13.2.1)	104
Figure 16 – Striking element for pendulum impact test apparatus (9.13.2.1)	105
Figure 17 – Mounting support for sample for mechanical impact test (9.13.2.1)	106
Figure 18 – Example of mounting an unenclosed RCBO for mechanical impact test (9.13.2.1)	107
Figure 19 – Example of mounting of panel mounting type RCBO for the mechanical impact test (9.13.2.1)	108
Figure 20 – Application of force for mechanical impact test of rail mounted RCBO (9.13.2.2)	109
Figure 21 – Ball-pressure test apparatus (9.14.2)	109
Figure 22 – Void	109
Figure 23 – Stabilizing period for reliability test (9.22.1.3)	110
Figure 24 – Reliability test cycle (0.22.1.3)	111

Figure 25 – Example of a test circuit for verification of ageing of electronic components (9.23)	112
Figure 26 – Damped oscillator current wave, 0,5 μs/100 kHz	112
Figure 27 – Test circuit for the ring wave test at RCBOs	113
Figure 28 – Surge current impulse 8/20 μs	113
Figure 29 – Test circuit for the surge current test at RCBOs	114
Figure B.1 – Examples of methods of measuring creepage distances and clearances	
Figure C.1 – Test arrangement	127
Figure C.2 – Grid	128
Figure C.3 – Grid circuit	128
Figure IC.1 – Examples of pillar terminals	139
Figure IC.2 – Example of screw terminals and stud terminals	140
Figure IC.3 – Example of saddle terminals	141
Figure IC.4 – Examples of lug terminals	141
Figure J.1 – Connecting samples	152
Figure J.2 – Examples of screwless-type terminals	153
Figure K.1– Example of position of the thermocouple for measurement of the temperature-rise	158
Figure K.2 – Dimensions of male tabs	159
Figure K.3 – Dimensions of round dimple detents (see Figure K.2)	160
Figure K.4 – Dimensions of rectangular dimple detents (see Figure K.2)	160
Figure K.5 – Dimensions of hole detents	160
Figure K.6 – Dimensions of female connectors	161
Figure L.1 – General arrangement for the test	170
Figure L.2	170
Figure L.3	171
Figure L.4	171
Figure L.5	171
Figure L.6	171
Table 1 – Standard values of rated short-circuit capacity	34
Table 2 – Limiting values of break time and non-actuating time for alternating residual currents (r.m.s. values) for type AC and A RCBO	35
Table 3 – Maximum values of break time for half-wave residual currents (r.m.s. values) for type A RCBO	36
Table 4 – Ranges of overcurrent instantaneous tripping	36
Table 5 – Rated impulse withstand voltage as a function of the nominal voltage of the installation	37
Table 6 – Standard conditions for operation in service	40
Table 7 – Minimum clearances and creepage distances	44
${\sf Table~8-Connectable~cross-sections~of~copper~conductors~for~screw-type~terminals}$	
Table 9 – Temperature-rise values	50
Table 10 – Time-current operating characteristics	51
Table 11 – Requirements for RCBOs functionally dependent on line voltage	53
Table 12 – List of type tests	54

	Λ	2	. 2	\sim	1	2
-	н	_	_			

Table 13 – Test copper conductors corresponding to the rated currents	55
Table 14 – Screw thread diameters and applied torques	56
Table 15 – Pulling forces	58
Table 17 – Test voltage of auxiliary circuits	61
Table 19 – Test voltage for verification of impulse withstand voltage	64
Table 20 – List of short-circuit tests	73
Table 21 – Power factor ranges of the test circuit	75
Table 22 – Ratio between service short-circuit capacity (I_{cs}) and rated short-circuit capacity (I_{cn}) – (factor k)	80
Table 23 – Test procedure for I_{cs} in the case of single- and two-pole RCBOs	80
Table 24 – Test procedure for I_{cs} in the case of three- and four-pole RCBOs	81
Table 25 – Test procedure for I _{cn}	82
Table 26 – Tripping current ranges for type A RCBOs	69
Table 27 – Tests covered by this standard	94
Table 28 – Test voltage for verifying the suitability for isolation, referred to the rated impulse withstand voltage of the RCBO and the altitude where the test is carried out	64
Table 29 – Tests to be carried out according to IEC 61543	93
Table A.1 – Test sequences	116
Table A.2 – Number of samples for full test procedure	118
Table A.3 – Number of samples for simplified test procedure	120
Table A.4 – Test sequences for RCBOs having different instantaneous tripping currents	121
Table A.5 – Test sequences for RCBOs of different classification according to 4.6	121
Table IE.1 – Test sequences during follow-up inspections	144
Table IE.2 – Number of samples to be tested	147
Table J.1 – Connectable conductors	149
Table J.2 – Cross-sections of copper conductors connectable to screwless-type terminals	150
Table J.3 – Pull forces	151
Table K.1 – Informative table on colour code of female connectors in relationship with the cross section of the conductor	156
Table K.2 – Overload test forces	157
Table K.3 – Dimensions of tabs	158
Table K.4 – Dimensions of female connectors	161
Table L.1 – Marking for terminals	163
Table L.2 – Connectable cross-sections of aluminium conductors for screw-type terminals	164
Table L.3 – List of tests according to the material of conductors and terminals	165
Table L.4 – Connectable conductors and their theoretical diameters	165
Table L.5 – Cross sections (S) of aluminium test conductors corresponding to the rated currents	166
Table L.6 – Test conductor length	167
Table L.7 – Equalizer and busbar dimensions	167
Table L.8 – Test current as a function of rated current	169
Table L.9 – Example of calculation for determining the average temperature deviation D	169

INTERNATIONAL ELECTROTECHNICAL COMMISSION

RESIDUAL CURRENT OPERATED CIRCUIT-BREAKERS WITH INTEGRAL OVERCURRENT PROTECTION FOR HOUSEHOLD AND SIMILAR USES (RCBOs) –

Part 1: General rules

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

This Consolidated version of IEC 61009-1 bears the edition number 3.2. It consists of the third edition (2010) [documents 23E/682/FDIS and 23E/686/RVD], its amendment 1 (2012) [documents 23E/741/FDIS and 23E/745/RVD] and its amendment 2 (2013) [documents 23E/796/FDIS and 23E/820/RVD]. The technical content is identical to the base edition and its amendments.

This Final version does not show where the technical content is modified by amendments 1 and 2. A separate Redline version with all changes highlighted is available in this publication.

This publication has been prepared for user convenience.

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+A2:2013

International Standard IEC 61009-1 has been prepared by subcommittee 23E: Circuit-breakers and similar equipment for household use, of IEC technical committee 23: Electrical accessories.

This edition includes the following significant technical changes with respect to the previous edition:

- complete revision of EMC sequences, including the new test T.2.6, already approved in IEC 61543;
- clarification of RCDs current/time characteristics reported in Tables 2 and 3;
- revision of test procedure for $I_{\Delta n}$ between 5 A and 200 A;
- tests for the use of RCBOs in IT systems;
- testing procedure regarding the 6mA d.c. current superimposed to the fault current;
- improvement highlighting RCDs with multiple sensitivity;
- some alignments with IEC 60898-1.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all the parts in the IEC 61009 series, under the general title Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs), can be found on the IEC website.

The committee has decided that the contents of the base publication and its amendments will remain unchanged until the stability date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- · reconfirmed,
- withdrawn,
- · replaced by a revised edition, or
- · amended.

The contents of the corrigendum of January 2014 have been included in this copy.

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– 11 –

INTRODUCTION

This part includes definitions, requirements and tests covering all types of RCBOs. For applicability to a specific type, this part applies in conjunction with the relevant part, as follows:

Part 2-1: Applicability of the general rules to RCBOs functionally independent of line voltage.

Part 2-2: Applicability of the general rules to RCBOs functionally dependent on line voltage.