

<b>TECHNICAL CONSTRUCTION FILE</b> <b>IEC 61008-1:2010+AMD1:2012+AMD2:2013</b> <b>Residual current operated circuit-breakers without integral overcurrent protection</b> <b>for household and similar uses (RCCB's) , Part 1: General rules</b>	
Report Reference No.....	: TLZJ21072732477, TEZJ21072732478
Reviewed by (+ signature).....	: Chris zhang
Approved by (+ signature).....	: Tina Yang
Date of issue.....	: July 29,2021
Reviewing Laboratory.....	: Shanghai Global Testing Services Co., Ltd.
Address.....	: Floor 2nd, Building D-1, No. 128, Shenfu Road, Minhang District, Shanghai, China.
Applicant's name.....	: Changcheng Electrical Group Zhejiang Technology Co., Ltd.
Address.....	: DianHou Village, Liushi Town, Yueqing City, Zhejiang, P.R. China
Manufacturer's name.....	: Changcheng Electrical Group Zhejiang Technology Co., Ltd.
Address.....	: DianHou Village, Liushi Town, Yueqing City, Zhejiang, P.R. China
Factory's name.....	: Same as manufacturer
Address.....	: Same as manufacturer
Review specification:	
Standard.....	: <input checked="" type="checkbox"/> IEC 61008-1:2010+AMD1:2012+AMD2:2013
Review procedure .....	: CE
Non-standard Review method.....	: No
Review Report Form No.....	: IEC61008_1B
TRF originator	: GTS
Master TRF.....	: dated 2011-10
Review item description.....	: Residual Current Circuit Breaker
Trade Name.....	: /
Model and/or type reference.....	: YCB9RL-100
Rating(s).....	: Ue=230, 240V~, (1P+N, 2P), 400, 415V~(3P+N, 4P); 6, 10, 16, 20, 25, 32, 40, 50, 63, 80, 100A; Inc=6000, 10000A, I $\Delta$ n:0.015, 0.03, 0.1, 0.30A



**Particulars: Review item vs. Review requirements**

Classification of RCCB's functionally dependent on the line voltage..... :	N/A
Opening automatically in case of failure of the line voltage :	N/A
- reclosing automatically when the line voltage is restored :	N/A
- not reclosing automatically when the line voltage is restored :	N/A
Not opening automatically in case of failure of the line voltage:	N/A
- able to trip in a hazardous situation arising on failure of line voltage..... :	N/A
- not able to trip in a hazardous situation arising on failure of line voltage..... :	N/A
Type of RCCB..... :	Yes <del>/</del> No
- type AC..... :	Yes <del>/</del> No
- type A..... :	<del>Yes</del> / No
- independent of the line voltage..... :	Yes <del>/</del> No
- dependent on the line voltage..... :	<del>Yes</del> / No
- without time delay..... :	<del>Yes</del> / No
- with time delay: type S..... :	Yes <del>/</del> No
- enclosed..... :	Yes <del>/</del> No
- unenclosed..... :	<del>Yes</del> / No
- IP number..... :	-
- for fixed installation..... :	Yes <del>/</del> No
- for mobile installation..... :	<del>Yes</del> / No
Number of poles..... :	/
Ambient air temperature (°C)..... :	-
Method of mounting..... :	-
Method of connection..... :	-
Rated residual operating current (A)..... :	-
Rated current (A)..... :	6, 10, 16, 20, 25, 32, 40, 50, 63, 80, 100A
Rated voltage (V)..... :	230, 240V~, (1P+N, 2P), 400, 415V~(3P+N, 4P)
Nature of supply..... :	-
Rated frequency (Hz)..... :	-
Rated making and breaking capacity (A)..... :	-
Rated residual making and breaking capacity (A)..... :	-
Rated conditional short-circuit current (A)..... :	-
Rated conditional residual short-circuit current (A)..... :	-
Type of terminal..... :	-

**Possible Review case verdicts:**

Review case does not apply to the Review object..... : N(/A)

Review item does meet the requirement.....: P(Pass)

Review item does not meet the requirement.....: F(Fail)

**Reviewing** .....

Date of receipt of Review item .....: July 22,2021

Date(s) of performance of Review.....: July 22,2021 to July 29,2021

**General remarks:**

The Review results presented in this report relate only to the object Reviewed.

This report shall not be reproduced, except in full, without the written approval of the Issuing Reviewing laboratory.

"(see Enclosure #)" refers to additional information appended to the report.

"(see appended table)" refers to a table appended to the report.

Throughout this report a comma (point) is used as the decimal separator.

This Review report includes:

Annex I: Photo Documentation,3 page(s)

IEC 61008-1			
Clause	Requirement – Review	Result - Remark	Verdict
	<b>Review SEQUENCE A (1 sample)</b>		
	Reviews "D0"		

<b>6.</b>	<b>Marking</b>		-
	a) manufacturer's name or trademark .....	Changcheng Electrical Group Zhejiang Technology Co., Ltd.	P
	b) type designation, catalogue number or serial number .....		P
	c) rated voltage(s) (V) .....	230, 240V~, (1P+N, 2P), 400, 415V~(3P+N, 4P)	P
	d) rated frequency (Hz) .....		P
	e) rated current (A) .....	6, 10, 16, 20, 25, 32, 40, 50, 63, 80, 100A	P
	f) rated residual operating current (A) .....		P
	h) rated making and breaking capacity (A) .....		P
	j) degree of protection .....		P
	k) position of use .....		P
	l) rated residual making and breaking capacity OA(A) .....		P
	m) symbol S for type S		P
	n) symbol of the method of operation .....		P
	o) operating means of Review device .....		P
	p) wiring diagram .....		P
	r) operating characteristic .....		P
	Marking on the RCCB itself or on nameplate or nameplates attached to the RCCB and located so that for small devices at least e), f) and o) are legible when the RCCB is installed .....		P
	Joule integral withstand capacity (A <sup>2</sup> s) .....		P
	Peak current withstand capacity (A) .....		P
	Time delay when opening in case of failure of the		P

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Clause	Requirement – Review	Result - Remark	Verdict
	line voltage (s) .....		
	Open position indicated by "0" and closed position by "I" .....		P
	For push-buttons the OFF push-button shall either be red or marked with "0" .....		P
	If necessary to distinguish between supply and load terminals they shall be clearly marked .....		P
	Terminals for neutral circuit marked by "N"		P
	Terminals for protective conductor marked by [symbol IEC 417-5019 a]		P
	Marking indelible, easy legible and not on removable parts		P
9.3	Review: 15 s with water, 15 s with hexane		P
	Review SEQUENCE D (3 samples)		-
	Reviews "D0"		-
8.5	Operating characteristics		-
	For multiple settings of I <sub>dn</sub> Reviews are made for each setting		N
9.9.1	RCCB installed as for normal use, Review circuit according to fig. 4a		P
9.9.5	For RCCB's functionally dependent on line voltage, each Review is made at 1,1 and 0,85 times the rated line voltage; voltage (V) ..		N
9.9.2	Off-load Reviews made at a temperature of 20 ± 2 °C		P
9.9.2.1	Verification of the correct operation in case of a steady increase residual current:		-
	- steady increase from 0,2 I <sub>dn</sub> to I <sub>dn</sub> within 30 s (mA) :	-	P
	- tripping current between I <sub>dno</sub> and I <sub>dn</sub> (150 to 300 mA) :		P
9.9.2.2	Verification of the correct operation at closing on residual current		
	- the RCCB closes on I <sub>dn</sub> : no value exceeds the specified limiting value of Table 1 (130 to 500 ms) :		P
	For RCCB's functionally dependent on line voltage according to 4.1.2.2. a) I <sub>dn</sub> is established by closing S1	-	N

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Clause	Requirement – Review	Result - Remark	Verdict
9.9.2.3	Verification of the correct operation in case of sudden appearance of residual current by dosing S2 (see Table 1):		
	- maximum break time (130 to 500 ms) at: I <sub>dn</sub> :		P
	- maximum break time (60 to 200 ms) at: 2 I <sub>dn</sub> :		P
	- maximum break time (50 to 150 ms) at: 5 I <sub>dn</sub> :		P
	- maximum break time (40 to 150 ms) at: 500 A:		P
	No value exceeds the relevant specified limiting value	-	P
	Additional Review for type S:		
	- minimum non actuating time (ms) at: I <sub>dn</sub> ; 0,13s :		P
	- minimum non actuating time (ms) at: 2 I <sub>dn</sub> ; 0,06 s :		P
	- minimum non actuating time (ms) at: 5 I <sub>dn</sub> ; 0,05 s :		P
	- minimum non actuating time (ms) at: 500 A; 0,04 s s :		P
	No tripping during Reviews	-	P
9.9.2.4	Verification of the correct operation in case of sudden appearance of residual currents of values between 5I <sub>dn</sub> and 500A by closing S2 (see Table 1):		
	- break time (40 to 150 ms) at 5A:		P
	- break time (40 to 150 ms) at: 10A :		P
	- break time (40 to 150 ms) at: 20A :		P
	- break time (40 to 150 ms) at: 50A :		P
	- break time (40 to 150 ms) at: 100A :		P
	- break time (40 to 150 ms) at: 200A :		P
9.9.4	a) Reviews repeated at a temperature of -5°C:		P
	- maximum break time (130 to 500 ms) at: t <sub>dn</sub>		P
	- maximum break time (60 to 200 ms) at: 2 f <sub>dn</sub> :		P
	- maximum break time (50 to 150 ms) at: 5 I <sub>dn</sub>		P

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Clause	Requirement – Review	Result - Remark	Verdict
	:		
	- maximum break time (40 to 150 ms) at: 500 A:		P
	No value exceeds the relevant specified limiting value	-	P
	Additional Review for type S:		
	- minimum non actuating time (ms) at: I <sub>dn</sub> : 0,13s :		P
	- minimum <i>non</i> actuating time (ms) at: 2 I <sub>dn</sub> ; 0,06 s:		P
	- minimum non actuating time (ms) at: 5 I <sub>dn</sub> ; 0,05 s:		P
	- minimum non actuating time (ms) at: 500 A; 0,04 s:		P
	No tripping during the Reviews		P
9.9.3	Reviews repeated with the RCCB loaded with rated current:		-
	- Review current (A): I <sub>n</sub> , until steady state conditions are reached		-
	- cross-sectional area (mm <sup>2</sup> ):		-
	- the RCCB closes on I <sub>dn</sub> : no value exceeds the specified limiting value of Table 1 (130 to 500 ms) :		P
	For RCCB's functionally dependent on line voltage according to 4.1.2.2. a) I <sub>dn</sub> is established by closing S1:		N
	- maximum break time (130 to 500 ms) at: I <sub>dn</sub> :		P
	- maximum break time (60 to 200 ms) at: 2 I <sub>dn</sub> :		P
	- maximum break time (50 to 150 ms) at: 5 I <sub>dn</sub> :		P
	- maximum break time (40 to 150 ms) at: 500 A:		P
	No value exceeds the relevant specified limiting value	-	P
	Additional Review for type S:		
	- minimum non actuating time (ms) at: I <sub>dn</sub> ; 0,13 s:		P
	- minimum non actuating time (ms) at: 2 I <sub>dn</sub> ; 0,06 s:		P
	- minimum non actuating time (ms) at: 5 I <sub>dn</sub> ; 0,05 s:		P
	- minimum non actuating time (ms) at: 500 A; 0,04 s:		P
	No tripping during the Reviews	-	P

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Clause	Requirement – Review	Result - Remark	Verdict
9.9.4	b) Reviews repeated with the RCCB loaded with rated current:		
	- Review current (A): In at a temperature of +40 °C: until steady state conditions are reached :		
	- cross-sectional area (mm <sup>2</sup> ) :		
	- maximum break time (130 to 500 ms) at: I <sub>dn</sub> :		P
	- maximum break time (60 to 200 ms) at: 2 I <sub>dn</sub> :		P
	- maximum break time (50 to 150 ms) at: 5 I <sub>dn</sub> :		p
	- maximum break time (40 to 150 ms) at: 500 A:		p
	No value exceeds the relevant specified limiting value	-	p
	Additional Review for type S:		
	- minimum non actuating time (ms) at: I <sub>dn</sub> ; 0,13 s:		P
	- minimum non actuating time (ms) at: 2 I <sub>dn</sub> for 0,06 s :		p
	- minimum non actuating time (ms) at: 5 I <sub>dn</sub> ; 0,05 s:		P
	- minimum non actuating time (ms) at: 500 A; 0,04 s:		p
	No tripping during the Reviews	-	p
9.17.3	Verification of the correct operation, in presence of a residual current, for RCCB's opening with delay in case of failure of the line voltage		N
	RCCB connected according to fig. 4a at the rated voltage (U <sub>n</sub> ) :		N
	All phases but one switched off by means of S3		N
	During the delay: Review of 9.9.2:		N
9.2.2	- steady increase from 0,2 I <sub>dn</sub> to I <sub>dn</sub> within 30 s (mA):		N
	- tripping current between I <sub>dno</sub> and I <sub>dn</sub> (mA) (only if delay is > 30 s) :		N
	The RCCB closes on I <sub>dn</sub> : no value exceeds the specified limiting value of Table 1 (ms) .:		N
	For RCCB's functionally dependent on line voltage according to 4.1.2.2. a) I <sub>dn</sub> is established by closing S1 :		N
	- maximum break time (ms) at; I <sub>dn</sub> :		N
	- maximum break time (ms) at: 2 I <sub>dn</sub>		N
	- maximum break time (ms) at: 5 I <sub>dn</sub> :		N
	- maximum break time (ms) at: 500 A :		N



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Clause	Requirement – Review	Result - Remark	Verdict
	No value exceeds the relevant specified limiting value	-	N
	Additional Review for type S:		N
	- minimum non actuating time (ms) at: 1dn; 0,13 s:		N
	- minimum non actuating time (ms) at: 2 Idn; 0,06 s:		N
	- minimum non actuating time (ms) at: 5 Idn; 0,05 s:		N
	- minimum non actuating time (ms) at: 500 A; 0,04 s:		N
	No tripping during Reviews	-	N
9.17.4	Verification of the correct operation of RCCB's with 3 or 4 current paths, neutral and one line terminal only being energized in turn:		
	RCCB connected according to fig. 4	-	N
9.9.2.3	- maximum break time (ms) at: 1dn:		N
	- maximum break time (ms) at: 2 Idn :		N
	- maximum break time (ms) at: 5 Idn :		N
	- maximum break time (ms) at: 500 A :		N
	No value exceeds the relevant specified limiting value	-	N
	Additional Review for type S:		N
	- minimum non actuating time (ms) at: 1dn; 0,13s :		N
	- minimum non actuating time (ms) at: 2 Idn; 0,06 s:		N
	- minimum non actuating time (ms) at: 5 Idn; 0,05 s:		N
	- minimum non actuating time (ms) at: 500 A; 0,04 s:		N
	No tripping during Reviews	-	N
9.17.5	Verification of the reclosing function of automatically reclosing RCCB's (under consideration)		N
8.14	Resistance of RCCB's against unwanted tripping	-	N
9.19	Verification of behaviour of RCCB's in case of current surges caused by impulse voltages		N
9.19.1	Current surge Review for all RCCBs (0,5 p.s/100kHz ring wave Review)		N
	One pole of the RCCB is submitted to 10 applications of a surge current according to the following requirements:		N
	- peak value: 200 A + 10/0%	-	N

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Clause	Requirement – Review	Result - Remark	Verdict
	- virtual front time: 0,5 ms ± 30%	-	N
	- period of the following oscillatory wave: 10 ^ ±20%	-	N
	- each successive peak: about 60% of the preceding peak	-	N
	The polarity shall be inverted after every two applications	-	N
	The interval between two consecutive applications shall be about 30 s	-	N
	During the Review the RCCB shall not trip :		N
	The RCCB shall trip with a Review current of I <sub>dn</sub> (ms) :		N
9.19.2	Verification of behaviour at surge currents up to 3000A (8/20 jis surge current Review)		N
9.19.2.1	One pole of the RCCB is submitted to 10 applications of a surge current according to the following requirements:		N
	- peak value: 3000 A + 10/0%	-	N
	- virtual front time: 8 ^s ± 20%	-	N
	- virtual time to half value: 20 us ± 20%	-	N
	- peak of reverse current: less than 30% of peak value	-	N
	The polarity shall be inverted after every two applications	-	N
	The interval between two consecutive applications shall be about 30 s	-	N
9.19.2.2	Reviews for S-type RCCB's		N
	During the Review the RCCB shall not trip		N
	The RCCB shall trip with a Review current of I <sub>dn</sub> (ms) :		N
9.19.2.3	Reviews for RCCB's of the general type	-	N
	During the Review the RCCB may trip :		N
	The RCCB shall trip with a Review current of I <sub>dn</sub> (ms) :		N
8.15	Behaviour of RCCB's in case of earth fault currents comprising a d.c. component		N
9.21	Verification of the correct operation at residual currents with d.c. components for RCCB's type A		N
9.21.1	RCCB installed as for normal use, Review circuits according to fig. 4b and 4c	-	N

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Clause	Requirement – Review	Result - Remark	Verdict
9.9.5	For RCCB's functionally dependent on line voltage, each Review is made at 1,1 and 0,85 times the rated line voltage; voltage (V) ..	-	N
9.21.1.1	Verification of the correct operation in case of a continuous rise of the residual pulsating direct current (see Table 17):		N
	- steady increase from zero to: 1,4 I <sub>dn</sub> for I <sub>dn</sub> > 0,01 A with 1,4 I <sub>dn</sub> /30 A/s (mA)	-	N
	- steady increase from zero to: 2 I <sub>dn</sub> for I <sub>dn</sub> < 0,01 A with 2 I <sub>dn</sub> /30 A/s (mA)	-	N
	- angle $\alpha = 0^\circ$ (+/-):		N
	- angle $\alpha = 90^\circ$ (+/-):		N
	-angle $\alpha = 135^\circ$ (+/-):		N
	No value exceeds the relevant specified limiting values	-	N
9.21.1.2	Verification of the correct operation in case of suddenly appearing residual pulsating direct currents by closing S2 (angle $\alpha = 0^\circ$ )		N
	For RCCB's functionally dependent on line voltage according to 4.1.2.2 a) the residual current is established by closing S1		N
	RCCB's with I <sub>dn</sub> > 0,01 A:		N
	- maximum break time (ms) at: 1,4 I <sub>dn</sub> (+/-)...		N
	- maximum break time (ms) at: 2,8 I <sub>dn</sub> (+/-) ...:		N
	- maximum break time (ms) at: 7 I <sub>dn</sub> (+/-) :		N
	- maximum break time (ms) at: 700 A peak (+/-):		N
	RCCB's with I <sub>dn</sub> < 0,01 A:		N
	- maximum break time (ms) at: 2 I <sub>dn</sub> (+/-) :		N
	- maximum break time (ms) at: 4 I <sub>dn</sub> (+/-).		N
	- maximum break time (ms) at: 10 I <sub>dn</sub> (+/-) .. :		N
	- maximum break time (ms) at: 700 A peak (+/-) :		N
	No value exceeds the relevant specified limiting value	-	N
9.21.1.3	Verification of the correct operation with the pole under Review and one other pole loaded with rated current		N

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Clause	Requirement – Review	Result - Remark	Verdict
	- Review current (A): In :	-	
	- steady increase from zero to: 1,4 I <sub>dn</sub> for I <sub>dn</sub> > 0,01 A with 1,4 I <sub>dn</sub> /30 A/s (mA)		N
	- steady increase from zero to: 2 I <sub>dn</sub> for I <sub>dn</sub> < 0,01 A with 2 I <sub>dn</sub> /30 A/s (mA)	-	N
	- angle $\alpha = 0^\circ$ (+/-) :		N
	- angle $\alpha = 90^\circ$ (+/-) :		N
	- angle $\alpha = 135^\circ$ (+/-) :		N
	No value exceeds the relevant specified limiting values	-	N
9.21.1.4	Verification of the correct operation in case of residual pulsating d.c. currents with angle $a = 0^\circ$ superimposed by smooth direct current of 0,006 A:		N
	- steady increase of pulsating d.c. current from zero to: 1,4 I <sub>dn</sub> for I <sub>dn</sub> > 0,01 A with 1,4 I <sub>dn</sub> /30 A/s (mA)	-	N
	- steady increase of pulsating d.c. current from zero to: 2 I <sub>dn</sub> for I <sub>dn</sub> < 0,01 A with 2 I <sub>dn</sub> /30 A/s (mA)	-	N
	- angle $a = 0^\circ$ (+/-) (+/- 6 mA) :		N
	No value exceeds the relevant specified limiting values + 6 mA	-	N
9.11.2.3	Verification of the rated residual making and breaking capacity (A): I <sub>dm</sub> :		-
	Review circuit according to figure :		-
	Point of Review circuit which is directly earthed ...:	-	-
	Grid distance "a" (mm) :	-	-
	Copper wire grid diameter F'(mm) :	-	-
	Prospective current (A) :	-	-
	Prospective current obtained (A) :	-	-
	Power factor :	-	-
	Power factor obtained :	-	-
	Point of initiation: $45^\circ \pm 5^\circ$	-	N
	Review sequence: O-t-CO-t-CO on each pole in turn excluding the switched neutral pole	-	N
	During Reviews no endangering of operator, no permanent arcing, no flashover and no melting of fuses F and F'	-	N
	After the Reviews no damage impairing further use	-	N
9.7.3	Dielectric strength of the main circuit measured		P

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Clause	Requirement – Review	Result - Remark	Verdict
	with an a.c. voltage (45-65 Hz) for 1 min:		
	a)..... :		N
	b) .....:		N
	c) .....:		N
	d) .....:		N
	e) .....:		N
	No flashover or breakdown		P
	Making and breaking In at Un :		P
	The RCCB shall trip with a Review current of 1,25 Idn (ms) :		P
	The polyethylene sheet shows no holes		P
9.17.1	Additional Reviews for RCCB's functionally depending on line voltage if applicable		N
	Limiting value of the line voltage (Ux):		N
	- rated voltage applied to the line terminals and progressively lowered to attain zero within about 30 s until automatic opening occurs; voltage (V):		N
	- all values less than 0,85 times the rated voltage (ms) :		N
	- tripping Review at Review voltage (V): idn (ms) :		N
	No value exceeds the specified limiting values		N
	Not possible to close the apparatus by manual operating means below Ux:		N
9.17.2	Verification of automatic opening in case of failure of the line voltage		N
	RCCB supplied with rated voltage, and the line voltage then switched off		N
	Time (ms) interval between switching off and opening of the main contacts		N
	a) RCCB's opening without delay: no value exceeds 0,5 s	-	N
	b) RCCB's opening with delay: max. and min. values within the range indicated by the manufacturer	-	N
9.17.3	Verification of the correct operation, in presence of a residual current, for RCCB's opening with delay in case of failure of the line voltage		N
	RCCB connected according to fig. 4a at the rated voltage (Un) :	-	N

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Clause	Requirement – Review	Result - Remark	Verdict
	Alt phases but one switched off by means of S3	-	N
	During the delay: Review of 9.9.2:		N
9.2.2	- steady increase from 0,2 I <sub>dn</sub> to I <sub>dn</sub> within 30 s (mA):		N
	- tripping current between I <sub>dno</sub> and I <sub>dn</sub> (mA) (only if delay is > 30 s) :		N
	The RCCB closes on I <sub>dn</sub> : no value exceeds the specified limiting value of Table 1 (ms) ....		N
	For RCCB's functionally dependent on line voltage according to 4.1.2.2. a) I <sub>dn</sub> is established by closing S1:		N
	- maximum break time (ms) at: I <sub>dn</sub> :		N
	- maximum break time (ms) at: 2 I <sub>dn</sub> :		N
	- maximum break time (ms) at: 5 I <sub>dn</sub> :		N
	- maximum break time (ms) at: 500 A :		N
	No value exceeds the relevant specified limiting value		N
	Additional Review for type S:		N
	- minimum non actuating time (ms) at: I <sub>dn</sub> ; 0,13s:		N
	- minimum non actuating time (ms) at: 2 I <sub>dn</sub> ; 0,06 s:		N
	- minimum non actuating time (ms) at: 5 I <sub>dn</sub> ; 0,05 s:		N
	- minimum non actuating time (ms) at: 500 A; 0,04 s:		N
	No tripping during Reviews	-	N
9.17.4	Verification of the correct operation of RCCB's with 3 or 4 current paths, neutral and one line terminal only being energized in turn:		N
	RCCB connected according to fig. 4		N
9.9.2.3	- maximum break time (ms) at: I <sub>dn</sub> :		N
	- maximum break time (ms) at: 2 I <sub>dn</sub> :		N
	- maximum break time (ms) at: 5 I <sub>dn</sub> :		N
	- maximum break time (ms) at: 500 A		N
	No value exceeds the relevant specified limiting value		N
	Additional Review for type S:		N
	- minimum non actuating time (ms) at: I <sub>dn</sub> ; 0,13s:		N
	- minimum non actuating time (ms) at: 2 I <sub>dn</sub> ; 0,06 s:		N
	- minimum non actuating time (ms) at: 5 I <sub>dn</sub> ; 0,05 s		N

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Clause	Requirement – Review	Result - Remark	Verdict
	:		
	- minimum non actuating time (ms) at: 500 A; 0,04 s...:		N
	No tripping during Reviews		N
9.17.5	Verification of the reclosing function of automatically reclosing RCCB's (under consideration)		N
8.11	Review device		N
	RCCB's shall be provided with a Review device	-	N
	Ampere-turns produced when operating the Review device do not exceed 2,5 times the ampere-turns produced by I <sub>dn</sub>	-	N
	Not possible to energize the circuit on the load side by operating the Review device when the RCCB is in the open position	-	N
9.16	Verification of the operation of the Review device at the limits of rated voltage:		N
	a) RCCB at 0,85 times the rated voltage, Review device actuated 25 times at intervals of 5 s ...		N
	b) Review a) repeated at 1,1 times the rated voltage:		N
	c) Review b) repeated, but only once, the operating means of the Review device being held in the closed position for 30 s:		N
	RCCB operated at each Review		N
	No change impairing further use :		N
8.8	Resistance to mechanical shock and impact		N
	RCCB's shall have adequate mechanical behaviour so as to withstand the stresses imposed during installation and use	-	N
9.12.1.2	Mechanical shock		N
	Mechanical shock: 50 falls of 40 mm on one side; 50 falls on opposite side C turned through 90° 50 falls on one side; 50 falls on opposite side		N
	No opening of RCCB during the Review		N
9.12.2	Mechanical impact		N
9.12.2.1	Impact Review (10 blows, height 10 cm): no damage :		N
9.12.2.2	RCCB's for rail mounting downward vertical force of 50 N for 1 min, upward vertical force of 50 N for 1 min		N

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Clause	Requirement – Review	Result - Remark	Verdict
	RCCB shall not become loose during Review and no damage impairing its further use		N
9.12.2.3	RCCB's of plug-in type (under consideration)	-	N
8.13	Behaviour of RCCB's in case of overcurrents in the main circuit		N
	RCCB's shall not operate under specified conditions of overcurrent	-	N
9.18.1	Verification of the limiting value of overcurrent in case of a load through a RCCB with two current paths		N
	RCCB connected as for normal use with a load equal to (A): 6 I <sub>n</sub> switched on using a two-pole Review switch for 1 s :	-	N
	Review repeated three times with an interval of at least 1 min	-	N
	The RCCB shall not open :		N
	RCCB's functionally dependent on the line voltage at rated voltage (U <sub>n</sub> ) :		N
9.18.2	Verification of the limiting value of overcurrent in case of a single phase load through a three-pole or four-pole RCCB		N
	RCCB connected according to fig. 19		N
	Review current (A): 6 I <sub>n</sub> closed by S1 for 1 s :		-
	Review repeated three times for each possible combination of current paths with an interval of at least 1 min :		N
	The RCCB shall not open :		N
	RCCB's functionally dependent on the line voltage at rated voltage	-	N

- End of Review Report -



Type of equipment, model: Residual Current Circuit Breaker,  
YCB9RL-100

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Details of:

View:

general

front

rear

right

left

top

bottom



Details of:

View:

general

front

rear

right

left

top

bottom



Details of:

View:

general

front

rear

right

left

top

bottom



Details of:

View:

general

front

rear

right

left

top

bottom



Details of:

View:

general

front

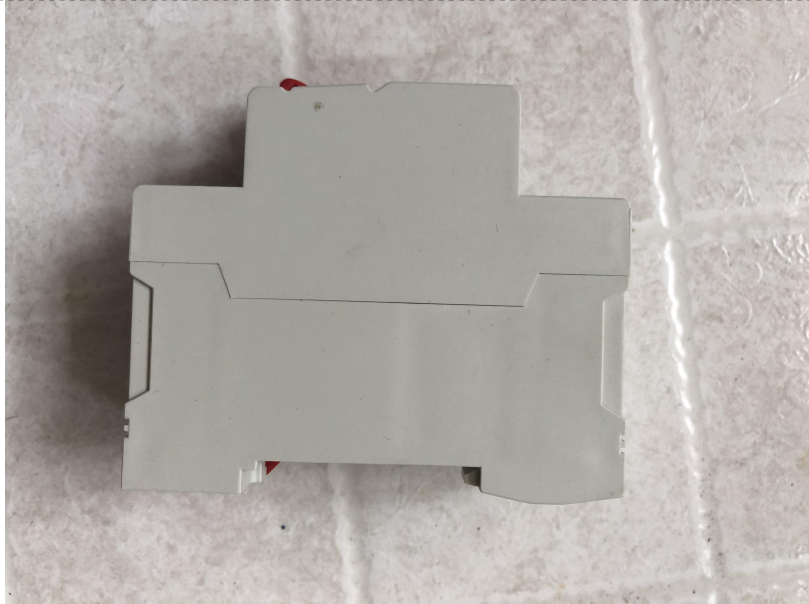
rear

right

left

top

bottom



Details of:

View:

general

front

rear

right

left

top

bottom

