

REPORT EN 61008-1 Specification for residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs)	
Report Reference No.....	22ZCTB0322004SP
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Approved by (+ signature)	Jack Yang
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Applicant's name.....	Wenzhou Yijie Electric Co., Ltd
Address	Gümüşpala Mahallesi Barış Sokak No:10/C Avcılar - İstanbul
Manufacturer's name	Wenzhou Yijie Electric Co., Ltd
Address	No. 83, Fengquan Road, Tianhe Street, Wenzhou Economic and Technological Development Zone, Wenzhou City, Zhejiang Province
Factory's name	Wenzhou Yijie Electric Co., Ltd
Address	No. 83, Fengquan Road, Tianhe Street, Wenzhou Economic and Technological Development Zone, Wenzhou City, Zhejiang Province
Test specification.....	
Standard.....	EN 61008-1:2012+A1:2014+A2:2014+A11:2015+A12:2017
Test procedure	CE-LVD
Non-standard test method.....	No
Test Report Form No.....	EN61008_1B
TRF originator.....	SBD
Master TRF.....	Dated 2016-10



Test item description: RCCB

Trademark: N /A

Model and/or type reference: JX253261

JX250640,JX251040,JX251640,JX252540,JX252040,JX253240,
JX250642,JX251042,JX251642,JX252042,JX252542,JX253242,
JX250661,JX251061,JX251661,JX252061,JX252561,JX253261,
JX250662,JX251062,JX251662,JX252062,JX252562,JX253262,
JX261661,JX263261,JX265061,JX266361,JX263263,JX264063,
JX265063,JX260661,JX260662,JX261062,JX261662,JX262062,
JX262562,JX263262,JX264062,JX265062,JX266362,JX260663,
JX271061,JX272061,JX272561,JX273261,JX274061,JX270663,
JX271063,JX271663,JX272063,JX272563,JX273263,JX274063,
JX270662,JX271062,JX271662,JX272062,JX272562,JX273262,
JX274062,JX271664,JX272064,JX272564,JX273264,JX270664,
JX274064,JX270667,JX271067,JX271667,JX272067,JX272567,
JX273267,JX274067,JX270668,JX271068,JX271668,JX272068,
JX272568,JX273268,JX274068,JX321661,JX322561,JX324061,
JX326361,JX321663,JX322563,JX324063,JX326363,JX341661,
JX342561,JX344061,JX346361,JX341663,JX342563,JX344063,
JX346363,JX321662,JX322562,JX324062,JX326362,JX341662,
JX342562,JX344062,JX346362

Rating(s): Input:220V~ 50Hz 32A



Particulars: test item vs. test 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 /No
- type AC..... :	Yes /No
- type A	Yes/ No
- independent of the line voltage	Yes /No
- dependent on the line voltage	Yes/ No
- without time delay..... :	Yes/ No
- with time delay: type S	Yes/ No
- enclosed	Yes /No
- unenclosed	Yes/ No
- IP number..... :	IPX0
- for fixed installation..... :	Yes/No
- for mobile installation	Yes /No
Number of poles	2P
Ambient air temperature (°C)	-25°C+40°C
Method of mounting..... :	Fixed
Method of connection	Pillar Terminal
Rated residual operating current (A)	--
Rated current (A)	32A
Rated voltage (V)..... :	220V
Nature of supply	~
Rated frequency (Hz)	50Hz
Rated making and breaking capacity (A)	62A
Rated residual making and breaking capacity (A)..... :	32A
Rated conditional short-circuit current (A)	--
Rated conditional residual short-circuit current (A) ... :	--
Type of terminal..... :	Screw terminal



Possible test case verdicts:

Test case does not apply to the test object : N(/A)

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

Test item does not meet the requirement : F(Fail)

Testing

Date of receipt of test item : 2024-01-19

Date(s) of performance of test..... : 2024-01-19 to 2024-01-29

General remarks:

The test results presented in this report relate only to the object tested.

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"(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 test report includes:

Annex I: Photo Documentation, 7 page(s)

General product information:

1. Residual current protection switch type JX253261 can cut off the fault circuit immediately on the occasion of shock hazard or earth leakage of trunk line. Thus it is suitable to avoid the shock hazard and fire caused by earth leakage.
2. The series model is :
JX250640,JX251040,JX251640,JX252540,JX252040,JX253240,JX250642,JX251042,JX251642,
JX252042,JX252542,JX253242,JX250661,JX251061,JX251661,JX252061,JX252561,JX253261,JX250662,
JX251062,JX251662,JX252062,JX252562,JX253262,JX261661,JX263261,JX265061,JX266361,
JX263263,JX264063,JX265063,JX260661,JX260662,JX261062,JX261662,JX262062,JX262562,JX263262,
JX264062,JX265062,JX266362,JX260663,JX271061,JX272061,JX272561,JX273261,JX274061,
JX270663,JX271063,JX271663,JX272063,JX272563,JX273263,JX274063,JX270662,JX271062,
JX271662,JX272062,JX272562,JX273262,JX274062,JX271664,JX272064,JX272564,JX273264,
JX270664,JX274064,JX270667,JX271067,JX271667,JX272067,JX272567,JX273267,JX274067,
JX270668,JX271068,JX271668,JX272068,JX272568,JX273268,JX274068,JX321661,JX322561,
JX324061,JX326361,JX321663,JX322563,JX324063,JX326363,JX341661,JX342561,JX344061,
JX346361,JX341663,JX342563,JX344063,JX346363,JX321662,JX322562,JX324062,JX326362,
JX341662,JX342562,JX344062,JX346362



Specification

Standard	EN61008-1
Pole	2,3,4
Rated current (In)	32A
Rated operation current for earth leakage (I Δ n)	---
Rated residual non-operation current (I Δ n)	500A Δ n
Residual current off-time	30mAIn
Limited value of non-operating current for balance load or unbalance load	I _m =I Δ m=500A, I _{nc} =3000A
Minimum value of rated marking and breaking capacity (Im)	--
Rated conditional short-circuit (A)	--
endurance	--

Copy of marking plate

RCCB
Model:JX253261
Ratings: 220V~ 50Hz 32A



EN 61008-1			
Clause	Requirement – Test	Result	Verdict
	TEST SEQUENCE A (1 sample)		
	Tests "D0"		

6.	Marking		-
	a) manufacturer's name or trademark		P
	b) type designation, catalogue number or serial number	See page 1	P
	c) rated voltage(s) (V)	See page 1	-
	d) rated frequency (Hz)	See page 1	-
	e) rated current (A)	See page 1	-
	f) rated residual operating current (A)	See page 1	-
	h) rated making and breaking capacity (A)	See page 1	-
	j) degree of protection	IPX0	-
	k) position of use	Fixed installation	P
	l) rated residual making and breaking capacity (A)		N
	m) symbol S for type S		N
	n) symbol of the method of operation		P
	o) operating means of test device	T	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 ² s)		P
	Peak current withstand capacity (A)	32A	P



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Clause	Requirement – Test	Result		Verdict
	Time delay when opening in case of failure of the line voltage (s) :			P
	Open position indicated by "0" and closed position by "I" :	O / 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	Test: 15 s with water, 15 s with hexane			P
	TEST SEQUENCE D (3 samples)			-
	Tests "D0"			-
8.5	Operating characteristics			-
	For multiple settings of I_{dn} tests are made for each setting			N
9.9.1	RCCB installed as for normal use, test circuit according to fig. 4a			P
9.9.5	For RCCB's functionally dependent on line voltage, each test is made at 1,1 and 0,85 times the rated line voltage; voltage (V) ..:		1,0 U_n 0,85 U_n	N
9.9.2	Off-load tests made at a temperature of 20 ± 2 °C	20°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_{dn} to I_{dn} within 30 s (mA) :	-		P
	- tripping current between I_{dno} and I_{dn} (150 to 300 mA) :	D1 - 252 to 252 mA		P
9.9.2.2	Verification of the correct operation at closing on residual current			
	- the RCCB closes on I_{dn} : no value exceeds the specified limiting value of Table 1 (130 to 500 ms):	D1 - < 392 ms		P
	For RCCB's functionally dependent on line voltage according to 4.1.2.2. a) I_{dn} is established by	-		N



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Clause	Requirement – Test	Result	Verdict
	closing S1		
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 _{dn} :	D1 - 401 ms	P
	- maximum break time (60 to 200 ms) at: 2 I _{dn} :	D1 -136 ms	P
	- maximum break time (50 to 150 ms) at: 5 I _{dn} :	D1 - 95 ms	P
	- maximum break time {40 to 150 ms) at: 500 A:	D1 - 80ms	P
	No value exceeds the relevant specified limiting value	-	P
	Additional test for type S:		
	- minimum non actuating time (ms) at: I _{dn} ; 0,13s :	D1 - no tripping	P
	- minimum non actuating time (ms) at: 2 I _{dn} ; 0,06 s :	D1 - no tripping	P
	- minimum non actuating time (ms) at: 5 I _{dn} ; 0,05 s :	D1 - no tripping	P
	- minimum non actuating time (ms) at: 500 A; 0,04 s :	D1 - no tripping	P
	No tripping during tests	—	P
9.9.2.4	Verification of the correct operation in case of sudden appearance of residual currents of values between 5I _{dn} and 500A by closing S2 (see Table 1):		
	- break time (40 to 150 ms) at 5A:	D1 - 70 ms	P
	- break time (40 to 150 ms) at: 10A :	D1 - 72 ms	P
	- break time (40 to 150 ms) at: 20A :	D1 - 77ms	P
	- break time (40 to 150 ms) at: 50A :	D1 - 70 ms	P
	- break time (40 to 150 ms) at: 100A :	D1 - 69 ms	P
	- break time (40 to 150 ms) at: 200A :	D1 - 79ms	P
9.9.4	a) Tests repeated at a temperature of -5°C:		P
	- maximum break time (130 to 500 ms) at: t _{dn}	D1- 466 ms	P
	- maximum break time (60 to 200 ms) at: 2 f _{dn} :	D1- 144 ms	P
	- maximum break time (50 to 150 ms) at: 5 I _{dn} :	D1 - 101ms	P



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Clause	Requirement – Test	Result	Verdict
	- maximum break time (40 to 150 ms) at: 500 A:	D1 - 81 ms	P
	No value exceeds the relevant specified limiting value	-	P
	Additional test for type S:		
	- minimum non actuating time (ms) at: I_{dn} : 0,13s :	D1 - no tripping	P
	- minimum <i>non</i> actuating time (ms) at: 2 I_{dn} ; 0,06 s:	D1 - no tripping	P
	- minimum non actuating time (ms) at: 5 I_{dn} ; 0,05 s:	D1 - no tripping	P
	- minimum non actuating time (ms) at: 500 A; 0,04 s:	D1 - no tripping	P
	No tripping during the tests		P
9.9.3	Tests repeated with the RCCB loaded with rated current:		-
	- test current (A): I_n , until steady state conditions are reached		-
	- cross-sectional area (mm^2):	16 mm^2	-
	- the RCCB closes on I_{dn} : no value exceeds the specified limiting value of Table 1 (130 to 500 ms) :	D1 - < 401 ms	P
	For RCCB's functionally dependent on line voltage according to 4.1.2.2. a) I_{dn} is established by closing S1:		N
	- maximum break time (130 to 500 ms) at: I_{dn} :	D1- 331 ms	P
	- maximum break time (60 to 200 ms) at: 2 I_{dn} :	D1-123ms	P
	- maximum break time (50 to 150 ms) at: 5 I_{dn} :	D1- 90 ms	P
	- maximum break time (40 to 150 ms) at: 500 A:	D1- 66 ms	P
	No value exceeds the relevant specified limiting value	-	P
	Additional test for type S:		
	- minimum non actuating time (ms) at: I_{dn} ; 0,13 s:	D1 - no tripping	P
	- minimum non actuating time (ms) at: 2 I_{dn} ; 0,06 s:	D1 - no tripping	P
	- minimum non actuating time (ms) at: 5 I_{dn} ; 0,05 s:	D1 - no tripping	P
	- minimum non actuating time (ms) at: 500 A; 0,04 s:	D1 - no tripping	P
	No tripping during the tests	-	P
9.9.4	b) Tests repeated with the RCCB loaded with rated		



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Clause	Requirement – Test	Result	Verdict
	current:		
	- test current (A): In at a temperature of +40 °C: until steady state conditions are reached :	32A ; 40°C	
	- cross-sectional area (mm ²) :	16 mm ²	
	- maximum break time (130 to 500 ms) at: I _{dn} :	D1- 225ms	P
	- maximum break time (60 to 200 ms) at: 2 I _{dn} :	D1-109 ms	P
	- maximum break time (50 to 150 ms) at: 5 I _{dn} :	D1- 81 ms	p
	- maximum break time (40 to 150 ms) at: 500 A:	D.1 - 69 ms	p
	No value exceeds the relevant specified limiting value	-	p
	Additional test for type S:		
	- minimum non actuating time (ms) at: I _{dn} ; 0,13 s:	D1 - no tripping	P
	- minimum non actuating time (ms) at: 2 I _{dn} for 0,06 s :	D1 - no tripping	p
	- minimum non actuating time (ms) at: 5 I _{dn} ; 0,05 s:	D1 - no tripping	P
	- minimum non actuating time (ms) at: 500 A; 0,04 s:	D1 - no tripping	p
	No tripping during the tests	-	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 _n) :		N
	All phases but one switched off by means of S3		N
	During the delay: test of 9.9.2:		N
9.2.2	- steady increase from 0,2 I _{dn} to I _{dn} within 30 s (mA):	D1 -	N
	- tripping current between I _{dno} and I _{dn} (mA) (only if delay is > 30 s) :	D1 -	N
	The RCCB closes on I _{dn} : no value exceeds the specified limiting value of Table 1 (ms) .:	D1 -	N
	For RCCB's functionally dependent on line voltage according to 4.1.2.2. a) I _{dn} is established by closing S1 :		N
	- maximum break time (ms) at: I _{dn} :	D1 -	N
	- maximum break time (ms) at: 2 I _{dn}	D1 -	N
	- maximum break time (ms) at: 5 I _{dn} :	D1 -	N
	- maximum break time (ms) at: 500 A :	D1 -	N



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Clause	Requirement – Test	Result	Verdict
	No value exceeds the relevant specified limiting value	-	N
	Additional test for type S:		N
	- minimum non actuating time (ms) at: 1dn; 0,13 s:	D1 -	N
	- minimum non actuating time (ms) at: 2 Idn; 0,06 s:	D1 -	N
	- minimum non actuating time (ms) at: 5 Idn; 0,05 s:	D1 -	N
	- minimum non actuating time (ms) at: 500 A; 0,04 s:	D1 -	N
	No tripping during tests	-	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:	D1 -	N
	- maximum break time (ms) at: 2 Idn :	D1 -	N
	- maximum break time (ms) at: 5 Idn :	D1 -	N
	- maximum break time (ms) at: 500 A :	D1 -	N
	No value exceeds the relevant specified limiting value	-	N
	Additional test for type S:		N
	- minimum non actuating time (ms) at: 1dn; 0,13s :	D1 -	N
	- minimum non actuating time (ms) at: 2 Idn; 0,06 s:	D1 -	N
	- minimum non actuating time (ms) at: 5 Idn; 0,05 s:	D1 -	N
	- minimum non actuating time (ms) at: 500 A; 0,04 s:	D1 -	N
	No tripping during tests	-	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 test for all RCCBs (0,5 p.s/100kHz ring wave test)		N
	One pole of the RCCB is submitted to 10 applications of a surge current according to the following requirements:		N



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Clause	Requirement – Test	Result	Verdict
	- peak value: 200 A + 10/0%	-	N
	- 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 test the RCCB shall not trip :	D1 -	N
	The RCCB shall trip with a test current of I _{dn} (ms) :	D1 -	N
9.19.2	Verification of behaviour at surge currents up to 3000A (8/20 μ s surge current test)		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 μ s ± 20%	-	N
	- virtual time to half value: 20 μ s ± 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	Tests for S-type RCCB's		N
	During the test the RCCB shall not trip	D1 -	N
	The RCCB shall trip with a test current of I _{dn} (ms) :	D1 -	N
9.19.2.3	Tests for RCCB's of the general type		N
	During the test the RCCB may trip :	D1 -	N
	The RCCB shall trip with a test current of I _{dn} (ms) :	D1 -	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, test circuits according to fig. 4b and 4c	-	N



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Clause	Requirement – Test	Result	Verdict
9.9.5	For RCCB's functionally dependent on line voltage, each test 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 _{dn} for I _{dn} > 0,01 A with 1,4 I _{dn} /30 A/s (mA)	-	N
	- steady increase from zero to: 2 I _{dn} for I _{dn} < 0,01 A with 2 I _{dn} /30 A/s (mA)	-	N
	- angle $\alpha = 0^\circ$ (+/-):	D1 -	N
	- angle $\alpha = 90^\circ$ (+/-):	D1 -	N
	-angle $\alpha = 135^\circ$ (+/-):	D1 -	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 _{dn} > 0,01 A:		N
	- maximum break time (ms) at: 1,4 I _{dn} (+/-)....:	D1 -	N
	- maximum break time (ms) at: 2,8 I _{dn} (+/-):	D1 -	N
	- maximum break time (ms) at: 7 I _{dn} (+/-) :	D1 -	N
	- maximum break time (ms) at: 700 A peak (+/-):	D1 -	N
	RCCB's with I _{dn} < 0,01 A:		N
	- maximum break time (ms) at: 2 I _{dn} (+/-) :	D1 -	N
	- maximum break time (ms) at: 4 I _{dn} (+/-).	D1 -	N
	- maximum break time (ms) at: 10 I _{dn} (+/-) .. :	D1 -	N
	- maximum break time (ms) at: 700 A peak (+/-) :	D1 -	N
	No value exceeds the relevant specified limiting value	-	N
9.21.1.3	Verification of the correct operation with the pole under test and one other pole loaded with rated current		N



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Clause	Requirement – Test	Result	Verdict
	- test current (A): In :	-	
	- steady increase from zero to: 1,4 Idn for Idn > 0,01 A with 1,4 Idn/30 A/s (mA)		N
	- steady increase from zero to: 2 Idn for Idn < 0,01 A with 2 Idn/30 A/s (mA)	-	N
	- angle $\alpha = 0^\circ$ (+/-) :	D1 -	N
	- angle $\alpha = 90^\circ$ (+/-) :	D1 -	N
	- angle $\alpha = 135^\circ$ (+/-) :	D1 -	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 $\alpha = 0^\circ$ superimposed by smooth direct current of 0,006 A:		N
	- steady increase of pulsating d.c. current from zero to: 1,4 Idn for Idn > 0,01 A with 1,4 Idn/30 A/s (mA)	-	N
	- steady increase of pulsating d.c. current from zero to: 2 Idn for Idn < 0,01 A with 2 Idn/30 A/s (mA)	-	N
	- angle $\alpha = 0^\circ$ (+/-) (+/- 6 mA) :	D1 -	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): Idm :		-
	Test circuit according to figure :		-
	Point of test 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
	Test sequence: O-t-CO-t-CO on each pole in turn excluding the switched neutral pole	-	N
	During tests no endangering of operator, no permanent arcing, no flashover and no melting of fuses F and F'	-	N
	After the tests no damage impairing further use	-	N
9.7.3	Dielectric strength of the main circuit measured		P



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Clause	Requirement – Test	Result	Verdict
	with an a.c. voltage (45-65 Hz) for 1 min:		
	a)..... :	B1 – B2 – B3 – RCCBs: off	N
	b)	B1 – B2 B2 – B3 B3 – B1 RCCBs: ON	N
	c)	B1 - enclosure B2 - enclosure B3 –enclosure RCCBs: ON	N
	d)	B1 - B2 - B3 – No such construction	N
	e)	B1 - B2 - B3 – No such construction	N
	No flashover or breakdown		P
	Making and breaking In at Un :		P
	The RCCBshall trip with a test current of 1,25 Idn (ms) :		P
	The polyethylene sheet shows no holes		P
9.17.1	Additional tests 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):	D1 -	N
	- all values less than 0,85 times the rated voltage (ms) :	D1 -	N
	- tripping test at test voltage (V): idn (ms) :	D1 -	N



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Clause	Requirement – Test	Result	Verdict
	No value exceeds the specified limiting values	-	N
	Not possible to close the apparatus by manual operating means below U_x :	D1 -	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	D1 -	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 (U_n) :	-	N
	Alt phases but one switched off by means of S3	-	N
	During the delay: test of 9.9.2:		N
9.2.2	- steady increase from 0,2 I_{dn} to I_{dn} within 30 s (mA):	D1 -	N
	- tripping current between I_{dno} and I_{dn} (mA) (only if delay is > 30 s) :	D1 -	N
	The RCCB closes on I_{dn} : no value exceeds the specified limiting value of Table 1 (ms)	D1 -	N
	For RCCB's functionally dependent on line voltage according to 4.1.2.2. a) I_{dn} is established by closing S1:		N
	- maximum break time (ms) at: I_{dn} :	D1 -	N
	- maximum break time (ms) at: 2 I_{dn} :	D1 -	N
	- maximum break time (ms) at: 5 I_{dn} :	D1 -	N
	- maximum break time (ms) at: 500 A :	D1 -	N
	No value exceeds the relevant specified limiting value	-	N
	Additional test for type S:		N
	- minimum non actuating time (ms) at: I_{dn} ; 0,13s:	D1 -	N
	- minimum non actuating time (ms) at: 2 I_{dn} ; 0,06 s:	D1 -	N
	- minimum non actuating time (ms) at: 5 I_{dn} ; 0,05 s:	D1 -	N



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Clause	Requirement – Test	Result	Verdict
	- minimum non actuating time (ms) at: 500 A; 0,04 s:	D1 -	N
	No tripping during tests	-	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_{dn} :	D1 -	N
	- maximum break time (ms) at: $2 I_{dn}$:	D1 -	N
	- maximum break time (ms) at: $5 I_{dn}$:	D1 -	N
	- maximum break time (ms) at: 500 A	D1 -	N
	No value exceeds the relevant specified limiting value		N
	Additional test for type S:		N
	- minimum non actuating time (ms) at: I_{dn} ; 0,13s:	D1 -	N
	- minimum non actuating time (ms) at: $2 I_{dn}$; 0,06 s:	D1 -	N
	- minimum non actuating time (ms) at: $5 I_{dn}$; 0,05 s :	D1 -	N
	- minimum non actuating time (ms) at: 500 A; 0,04 s...:	D1 -	N
	No tripping during tests		N
9.17.5	Verification of the reclosing function of automatically reclosing RCCB's (under consideration)		N
8.11	Test device		N
	RCCB's shall be provided with a test device	-	N
	Ampere-turns produced when operating the test device do not exceed 2,5 times the ampere-turns produced by I_{dn}	-	N
	Not possible to energize the circuit on the load side by operating the test device when the RCCB is in the open position	-	N
9.16	Verification of the operation of the test device at the limits of rated voltage:		N
	a) RCCB at 0,85 times the rated voltage, test device actuated 25 times at intervals of 5 s ...	D1 -	N
	b) test a) repeated at 1,1 times the rated voltage:	D1 -	N
	c) test b) repeated, but only once, the operating means of the test device being held in the closed position for 30 s:	D1 -	N



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Clause	Requirement – Test	Result	Verdict
	RCCB operated at each test	D1 -	N
	No change impairing further use :	D1 -	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 test	D1 -	N
9.12.2	Mechanical impact		N
9.12.2.1	Impact test (10 blows, height 10 cm): no damage :	D1 -	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
	RCCB shall not become loose during test and no damage impairing its further use	D1 -	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 In switched on using a two-pole test switch for 1 s :	-	N
	Test repeated three times with an interval of at least 1 min	-	N
	The RCCB shall not open :	D1 -	N
	RCCB's functionally dependent on the line voltage at rated voltage (Un) :	-	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
	Test current (A): 6 In closed by S1 for 1 s :	-	-
	Test repeated three times for each possible combination of current paths with an interval of at	D1 -	N



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Clause	Requirement – Test	Result	Verdict
	least 1 min :		
	The RCCB shall not open :	D1 -	N
	RCCB's functionally dependent on the line voltage at rated voltage	-	N
9.23	In case there are no electronic components connected between phase poles and/or between phase poles and the neutral pole, the RCCB is loaded with rated current at any convenient voltage. (IEC 61008-2-1)		P



Photo Documentation

Details of: Model: JX253261

View:

☒ general

☐ front

☐ rear

☐ right

☐ left

☐ top

☐ bottom



Details of: Model: JX253261

View:

☒ general

☐ front

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☐ top

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Details of: Model: JX253261

View:

☒ general

☐ front

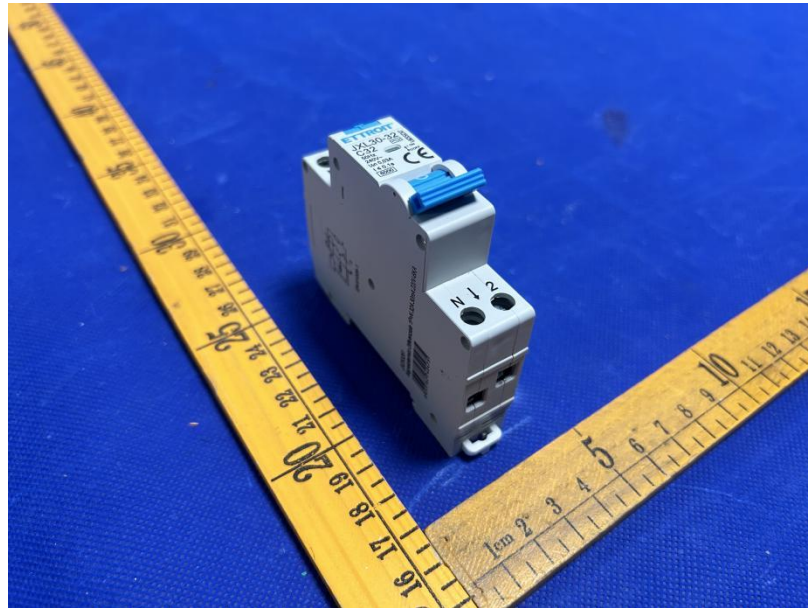
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View:

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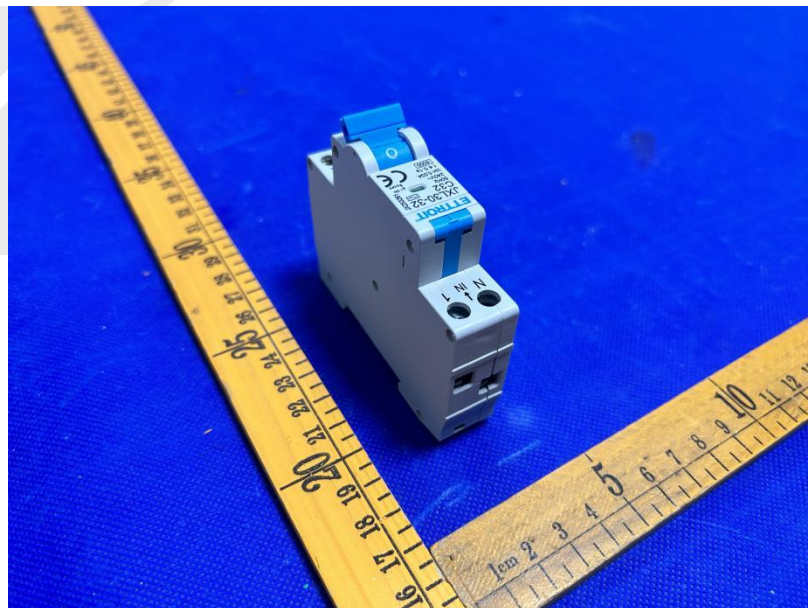
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Details of: Model: JX253261

View:

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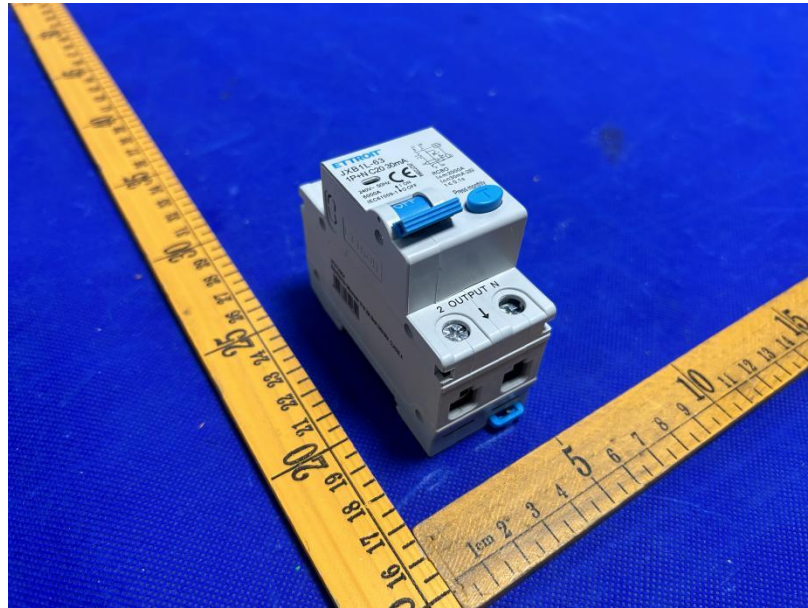
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Details of: Model: JX253261

View:

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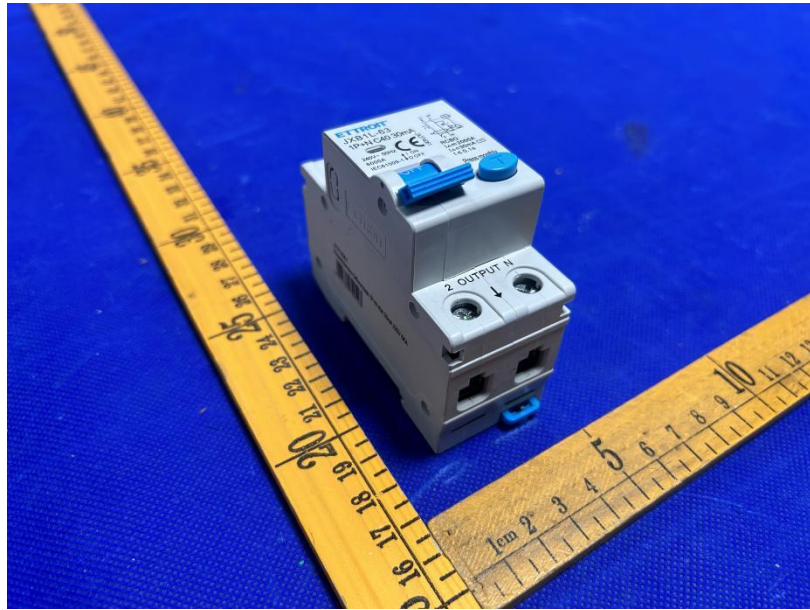
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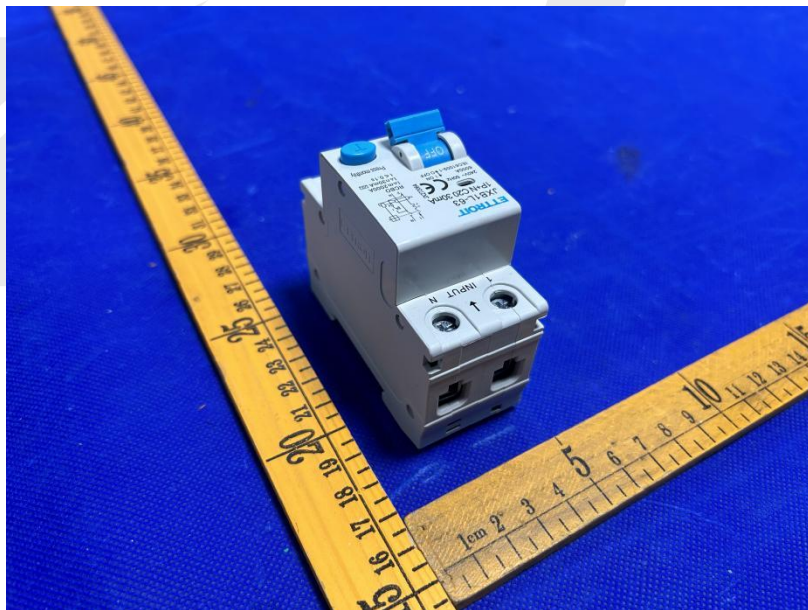
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Details of: Model: JX253261

View:

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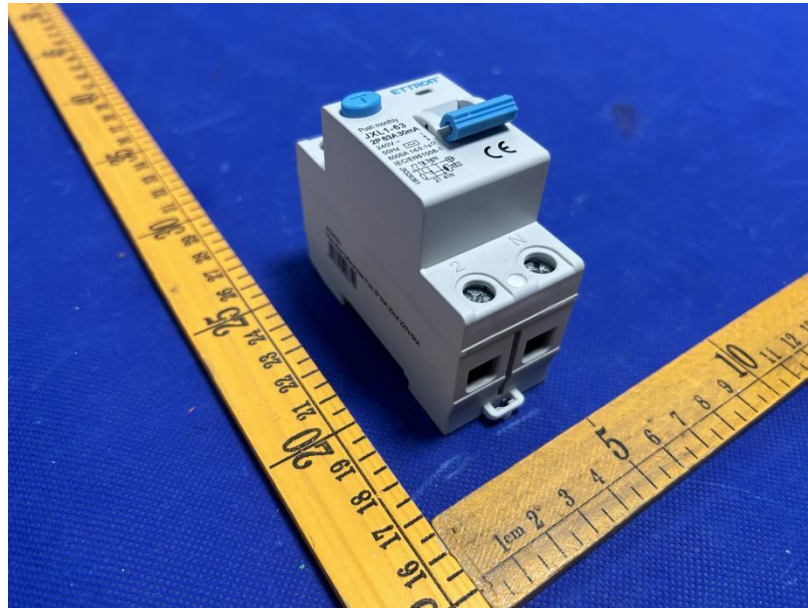
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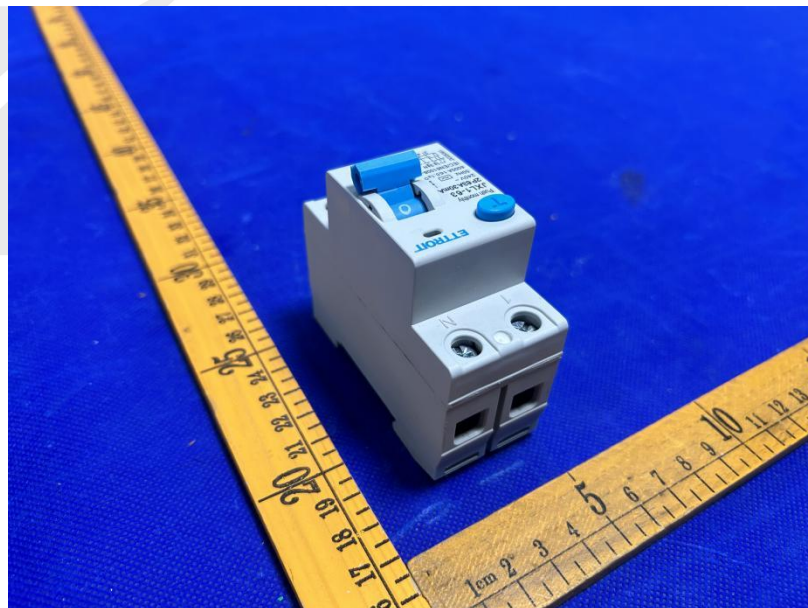
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Details of: Model: JX253261

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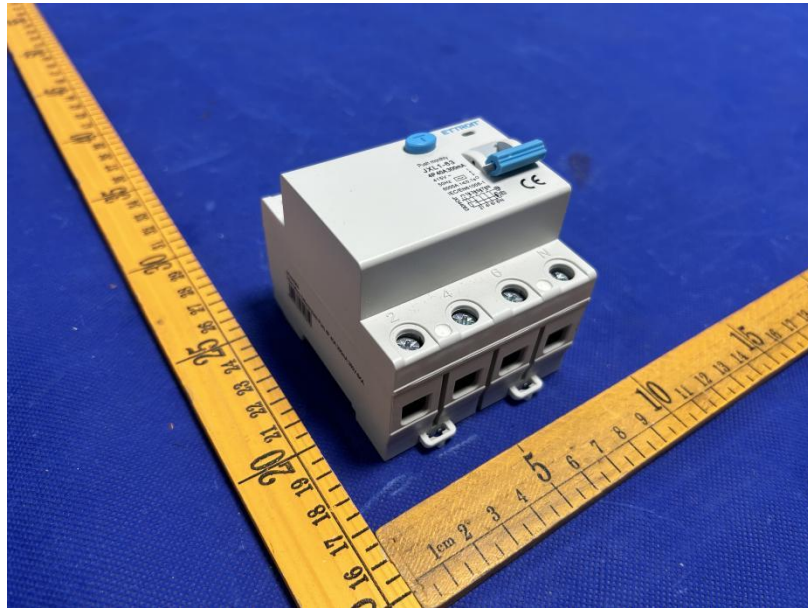
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Details of: Model: JX253261

View:

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- End of Test Report -

