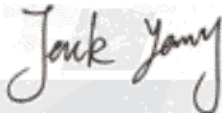


TEST REPORT IEC/EN 60669-1 Switches for household and similar fixed-electrical installations	
Report Reference No.	25ZCTB1111001SP
Date of issue	2025-11-26
Total number of pages	9 pages
Testing Laboratory	Shenzhen ZCT Technology Co., Ltd.
Address	3/F., Building 5, Hongsheng Industrial Zone, Bao'an Road, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China.
Applicant's name	Wenzhou Yijie Electric Co., Ltd
Address	4th Floor, No. 3808 Binhai 3rd Road, Tianhe Street, Longwan District, Wenzhou City, Zhejiang Province, China
Test specification:	
Standard	EN 60669-1:2018+AC:2020
Test procedure	LVD
Non-standard test method	N/A
Test Report Form No.	IEC60669_1
Test Report Form(s) Originator	IMQ S.p.A.
Master TRF	Dated 2017-04
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Test item description	Switch Accessories
Trade Mark	ETTROIT
Manufacturer	Same as applicant
Model/Type reference	MT85301 See pages 2
Ratings	/



Testing procedure and testing location:	
☒ Testing Laboratory: Testing location/ address..... : ☐ Associated CB Test Laboratory: Testing location/ address..... : Tested by (name + signature)..... : Approved by (+ signature)..... :	Shenzhen ZCT Technology Co., Ltd. 3/F., Building 5, Hongsheng Industrial Zone, Bao'an Road, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China.
☐ Testing procedure: TMP Tested by(name+signature)..... : Approved by (+ signature)..... : Testing location/ address..... :	  
☐ Testing procedure: WMT Tested by (name + signature)..... : Witnessed by (+ signature)..... : Approved by (+ signature)..... : Testing location/ address..... :	
☐ Testing procedure: SMT Tested by (name + signature)..... : Approved by (+ signature)..... : Supervised by (+ signature)..... : Testing location/ address..... :	
☐ Testing procedure: RMT Tested by (name + signature)..... : Approved by (+ signature)..... : Supervised by (+ signature)..... : Testing location/ address..... :	
Summary of testing:	



Tests performed (name of test and test clause): All clauses.	Testing location: 3/F., Building 5, Hongsheng Industrial Zone, Bao'an Road, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China.
Summary of compliance with National Differences: 1, European group national differences.	
Copy of marking plate 	



Test item particulars :	
Pattern number	1
Contact opening (gap)	normal-gap / mini-gap / micro-gap / without contact-gap (semiconductor switching device)
Degree of protection against access to hazardous parts and against harmful effects due to the ingress of solid foreign objects	IP2X / IP4X / IP5X
Degree of protection against harmful effects due to the ingress of water	IPX0 / IPX4 / IPX5
Method of actuating	rotary / tumbler / rocker / push-button / cord-operated / momentary contact
Method of application	surface-type / flush-type / semi flush-type / panel-type / architrave-type
Method of installation	design A / design B
Type of terminals	screw-type / screwless (rigid) / screwless (rigid and flexible)
Flexible cable outlet	without / with
Rated voltage (V).....	--
Rated current (A).....	--
Possible test case verdicts:	
- test case does not apply to the test object.....	N/A
- test object does meet the requirement.....	P (Pass)
- test object does not meet the requirement.....	F (Fail)
Testing :	
Date of receipt of test item.....	2025-11-11
Date (s) of performance of tests.....	2025-11-11 to 2025-11-26
General remarks:	
The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing testing 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.	
General product information:	
All mode are identical only difference in model name, all tests are on model MT85301.	



ATTACHMENT TO TEST REPORT IEC 60669-1 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES SWITCHES FOR HOUSEHOLD AND SIMILAR FIXED-ELECTRICAL INSTALLATIONS PART 1: GENERAL REQUIREMENTS	
Differences according.....	EN 60669-1:2018+AC:2020
Attachment Form No.....	EU_GD_IEC60669_1
Attachment Form Originator.....	IMQ S.p.A.
Master Attachment Form.....	2017-04
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Clause	Requirement + Test	Result - Remark	Verdict
	CENELEC COMMON MODIFICATIONS (EN)		P
8	MARKING		P
8.1 (Annex B)	Paragraph added at the end of this subclause:		P
	Flexible cable outlet switches: information of minimum and maximum sizes for which the anchorage is provided put on the switch and/or the packaging unit		P
8.3	First sentence of last paragraph before note 2 replaced by:		P
	Marking is clearly visible with normal or corrected vision, without additional magnification, marked either on the front of the switch or on the inner part of its associated enclosure, or on the main part of the switch so that it is easy legible during installation		P
8.6	First sentence of the first paragraph replaced by:		P
	Switches of pattern numbers 2, 3, 03 and switches with $V_n > 250$ V and $I_n > 16$ A if marked to indicate the switch position: direction of movement of the actuating member to its different positions or the actual switch position, clearly indicated		P
8.8	Note 2 changed into a requirement and its first sentence replaced by:		P
	Special precautions necessary to take when installing the switch: details of these and clear information given in an instruction sheet which accompanies the switch		P
9	CHECKING OF DIMENSIONS		P
	Paragraph added after the first paragraph:		P
	Type of boxes in which switches are to be mounted: specified in the manufacturer's catalogue		P
10	PROTECTION AGAINST ELECTRIC SHOCK		P
10.1	Additional requirement (IEC 60669-1/A1) concerning switches designed to be fitted with pilot lights supplied at voltage other than ELV is deleted		P
10.3	First two line replaced by the following:		P
	Accessible parts of switches are made of insulating material		P
	"cover or cover plates" replaced by "cover, cover plates and other parts of the enclosure"		P
10.3.1	Replaced by:		P
	Metal covers, cover plates or other parts of enclosure protected by supplementary insulation made by insulating linings or insulating barriers		P



	Insulating linings or insulating barriers:		P
	- cannot be removed without being permanently damaged, or designed that		P
	- cannot be replaced in an incorrect position; if they are omitted, accessories are rendered inoperable or manifestly incomplete; there is no risk of accidental contact between live parts and metal covers or cover plates; precautions are taken to prevent creepage distances or clearances becoming less than the values specified in clause 23		P
10.3.2	Replaced by:		P
	Earthing of metal covers, cover plates or other parts of enclosure: connection of low resistance		P
11	PROVISION FOR EARTHING		P
11.1	Notes 1 and 2 changed into requirements:		P
	Requirement did not apply to the metal cover plates mentioned in 10.3.1		P
	Small screws and the like, isolated from live parts, for fixing bases, covers or cover plates, were not considered as accessible parts which can become live in the event of an insulation fault		P
11.2	Second paragraph replaced by:		P
	Earthing terminals have a capacity not less than that of the corresponding terminals for the supply conductors		P
12	TERMINALS		P
12.2.4	Second paragraph replaced by:		P
	Terminals the body of which is made of materials as detailed in 22.5 considered as complying with the requirement		P
12.2.5	Paragraph before note 4 deleted		P
12.2.6	"in case where they exist in the relevant IEC standard" in the last paragraph replaced by "if any, according to HD 21.3		P
12.3.1	Present note numbered as note 1 and added new note 2:		P
	Tests of 12.3.12 carried out using rigid solid conductors only		P
13	CONSTRUCTIONAL REQUIREMENTS		P
13.16 (Annex B)	First paragraph replaced by:		P
	Flexible cable outlet switches: flexible cable (60245 IEC 66, 60227 IEC 52 or 60227 IEC 53, or as specified by the manufacturer) enter the switch through a suitable hole, groove or gland		P
	Last but one paragraph replaced:		P
	An a.c. voltage of 2000 V applied for 1 min between the conductors and any metal clamp of the cord anchorage		P
	During the test: insulation of flexible cable not damaged (no breakdown or flashover)		P
	Subclause added at the end:		P
	Flexible cable outlet switches:		P
	- clear how relief from strain and prevention of twisting is intended to be effected		P
	- cord anchorage, or at least part of it, integral with or permanently fixed to one of the component parts of the switch		P



	- makeshift methods not used		P
	- cord anchorages suitable for different type of flexible cables		P
	Rewirable switches with earthing connection are designed with ample space for slack of the earthing conductor		P
22	SCREWS, CURRENT-CARRYING PARTS AND CONNECTIONS		P
22.1	Second sentence of the second paragraph deleted		P
23	CREEPAGE DISTANCES, CLEARANCES AND DISTANCES THROUGH SEALING COMPOUND		P
23.3	Subclause added:		P
	Ordinary surface-type switches do not have bare current-carrying strips at the back		P
24	RESISTANCE OF INSULATING MATERIAL TO ABNORMAL HEAT, TO FIRE AND TO TRACKING		P
24.1.1	Item b) replaced by:		P
	Parts of insulating material not necessary to retain current-carrying parts and parts of the earthing circuit in position, even though they are in contact with them, and parts of insulating materials necessary to hold in position the earthing terminal in an enclosure, by the test made at a temperature of 650 °C		P

ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS		P
7.1.7	BELGIUM, CZECH REPUBLIC, FINLAND, GERMANY, NETHERLANDS, NORWAY, SWEDEN: design B not used due to installation practice		P
8.1	DENMARK: symbol for earth for any space provided for an earthing terminal		P
	UNITED KINGDOM: marking of type reference not used		P
8.3	UNITED KINGDOM: marking of type reference not used		P
10.2	DENMARK, NORWAY: accessories requiring earth connection cannot normally be used due to the lack of an earthing conductor in many existing old buildings		P
10.3	DENMARK: enclosures, including covers and cover plates, may be made of metal:		P
	- for ordinary switches which comply with 10.3.1		P
	- for switches with IP>X0 which fulfil with 10.3.1 or 10.3.2		P
10.3.2	DENMARK, NORWAY: accessories requiring earth connection cannot normally be used due to the lack of an earthing conductor in many existing old buildings		P
10.5	DENMARK, NORWAY: accessories requiring earth connection cannot normally be used due to the lack of an earthing conductor in many existing old buildings		P
12.2.5	DENMARK, FINLAND, NORWAY, SWEDEN: - additional test with rigid solid conductors (if exist in relevant IEC standard), if the first test has been made with rigid stranded conductors		P

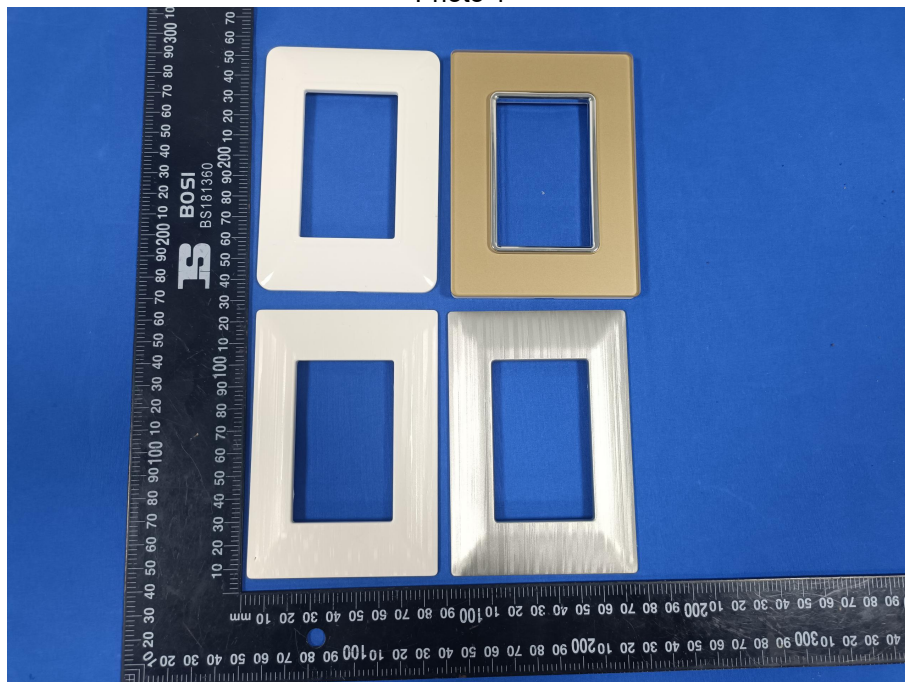


	- in the case rigid stranded conductors do not exist, the test may be made with rigid solid conductors only		P
12.2.6	DENMARK, FINLAND, NORWAY, SWEDEN: additional test with one rigid solid conductor and one rigid stranded conductor with same cross-sectional areas connected at same time is required for terminals allowing the connection of two conductors		P
13.15.2	DENMARK, FINLAND, NORWAY, SWEDEN, SWITZERLAND: sub-clause mandatory		P
ZC	ANNEX ZC, A-DEVIATIONS		P
11.2	BELGIUM: earthing terminals have a capacity not less than that of corresponding terminals for the supply conductors except that any additional external earthing terminal shall be of a size suitable for conductors of at least 4 mm ²		P



Attachment: Photos of the product:

Photo 1



-- The End of Report--

