Test Report

Report No.	:	**6813C50000612101**
Applicant	:	**Acrel Co., Ltd.**
Address	:	**No.253, Yulv Road, Jiading District, Shanghai China**
Product Name	:	**ARTM-8 temperature measuring instrument**
Report Date	:	**2025-09-25**

Shenzhen Anbotek Compliance Laboratory Limited

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TEST REPORT
IEC 61010-1
Safety requirements for electrical equipment for measurement, control, and laboratory use
Part 1: General requirements

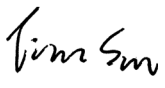
Report Number. .....:	6813C50000612101
Date of issue .....:	2025-09-25
Total number of pages.....:	88 pages
Name of Testing Laboratory preparing the Report.....:	Shenzhen Anbotek Compliance Laboratory Limited
Applicant's name.....:	Acrel Co., Ltd.
Address .....:	No.253, Yulv Road, Jiading District, Shanghai China
Test specification:	
Standard.....:	IEC 61010-1:2010, IEC 61010-1:2010/AMD1:2016 EN 61010-1: 2010+A1:2019
Test procedure .....:	Type Test
Non-standard test method.....:	N/A
TRF template used .....:	IECEE OD-2020-F1:2020, Ed.1.3
Test Report Form No.....:	IEC61010_1P
Test Report Form(s) Originator.....:	VDE Prüf- und Zertifizierungsinstitut GmbH
Master TRF.....:	2021-04-12

General disclaimer:

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

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The data in this report will be synchronized with the corresponding national market supervision and management departments and cross-border e-commerce platforms as required by regulatory agencies.

Tested by (name, function, signature) .....:	**Tim Sun**	
Approved by (name, function, signature) .....:	**Jeff Zhu**	

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Test item description .....:	ARTM-8 temperature measuring instrument
Trade Mark .....:	Acrel
Manufacturer.....:	Jiangsu Acrel Electrical Manufacturing Co., Ltd. No.5, Dongmeng Road, Nanzha Street, Jiangyin City Jiangsu Province, China
Model/Type reference.....:	ARTM-8, ARTM-8L, ARTM-Pn, ARTM-24
Ratings .....:	Input : 85-265VAC, 50/60Hz, 100-300VDC, 2W Max.

List of Attachments (including a total number of pages in each attachment):

Attachment 1: EU difference

Attachment 2: Photo documentation

Summary of testing:

Tests performed (name of test and test clause):	**Testing location:**
The submitted samples were found to comply with the requirements of: - IEC 61010-1:2010+A1:2016 - EN 61010-1: 2010+A1:2019	Shenzhen Anbotek Compliance Laboratory Limited Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

Copy of marking plate:

The artwork below may be only a draft.

ARTM-8 temperature measuring instrument

Model: ARTM-8

Input: Input : 85-265VAC, 50/60Hz, 100-300VDC, 2W Max.

Year of manufacture:2025-09

Manufacturer: Jiangsu Acrel Electrical Manufacturing Co., Ltd.

Address: No.5, Dongmeng Road, Nanzha Street, Jiangyin City Jiangsu Province, China

Importer: xxxxxx

Address: xxxxxx

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Test item particulars	
Operating conditions	Continuous operation
Connection to supply mains	Terminal
Mass of equipment(kg)	0.249
Special protection to IEC 60529	IPX0
Possible test case verdicts	
- test case does not apply to the test object	N (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	2025-09-08
Date(s) of performance of test	2025-09-08 to 2025-09-16

General remarks

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* denotes that this test item is not included in CNAS accredited scope.

All models are same except for model numbers.

Unless otherwise specified, models ARTM-8 were selected as representative models to perform all tests.

Factory:

Name: Jiangsu Acrel Electrical Manufacturing Co., Ltd.

Address: No.5, Dongmeng Road, Nanzha Street, Jiangyin City Jiangsu Province, China

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IEC 61010-1			
Clause	Requirement – Test	Result - Remark	Verdict
4.4*	**TESTING IN SINGLE FAULT CONDITION**		**--**
4.4.1	Fault tests		P
4.4.2	Application of fault conditions		P
4.4.2.1	Single fault conditions not covered by 4.4.2.1 to 4.4.2.12	See appended table	P
4.4.2.2	Protective impedance	No protective impedance required	N/A
4.4.2.3	Protective conductor		N/A
4.4.2.4	Equipment or parts for short-term or intermittent operation	No such parts	N/A
4.4.2.5	Motors		N/A
4.4.2.6	Capacitors		N/A
4.4.2.7	Mains transformers		N/A
4.4.2.7.2	Short circuit	See appended table	N/A
4.4.2.7.3	Overload		N/A
4.4.2.8	Outputs		P
4.4.2.9	Equipment for more than one supply		N/A
4.4.2.10	Cooling		N/A
4.4.2.11	Heating devices		N/A
4.4.2.12	Insulation between circuits and parts		N/A
4.4.2.13	Interlocks		N/A
4.4.2.14	Voltage selectors		N/A
4.4.3	Duration of tests		N/A
4.4.4	Conformity after application of fault conditions		P
5	**Marking and documentation**		**P**
5.1.1	General		P
	Required equipment markings are:		--
	Visible:		P
	From the exterior; or		N/A
	After removing a cover; or		N/A
	Opening a door		N/A
	After removal from a rack or panel		N/A

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IEC 61010-1			
Clause	Requirement – Test	Result - Remark	Verdict
	Not put on parts which can be removed by an operator		P
	Letter symbols (IEC 60027) used		N/A
	Graphic symbols (IEC 61010-1: Table 1) used		P
5.1.2	Identification	See below	P
	Equipment is identified by:		P
	a) Manufacturer's or supplier's name or trademark	(see marking plate for details)	P
	b) Model number, name or other means	(see marking plate for details)	P
	Manufacturing location identified		N/A
5.1.3	Mains supply		P
	Equipment is marked as follows:		N/A
	a) Nature of supply:		P
	1) a.c. rated mains frequency or range of frequencies	85-265VAC, 50/60Hz	P
	2) d.c. mark with symbol 1 of Table 1	DC	P
	b) Rated supply voltage(s) or range	See page 3	P
	c) Max. rated power (W or VA) or input current	See page 3	P
	The marked value not less than 90 % of the maximum value		N/A
	If more than one voltage range:		N/A
	Separate values marked; or		N/A
	Values differ by less than 20%		N/A
	d) Operator-set for different rated supply voltages:	No such device	N/A
	Indicates the equipment set voltage		N/A
	Portable equipment indication is visible from the exterior		N/A
	Changing the setting changes the indication		N/A
	e) Accessory Mains socket-outlets accepting standard MAINS plugs are marked:		N/A
	With the voltage if it is different from the mains supply voltage		N/A
	For use only with specific equipment		N/A
	If not marked for specific equipment it is marked with:		N/A
	The maximum rated current or power; or		N/A
	Symbol 14 with full details in the documentation		N/A

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IEC 61010-1			
Clause	Requirement – Test	Result - Remark	Verdict
5.1.4	Fuses		P
	Operator replaceable fuse marking (see also 5.4.5) .....:		N/A
5.1.5	Terminals, connections and operating devices		P
5.1.5.1	General		P
	Where necessary for safety, indication of purpose of TERMINALS, connectors, controls and indicators marked		P
	Insufficient space, symbol 14 used		N/A
	Push-buttons and actuators of emergency stop devices and indicators:		N/A
	used only to indicate a warning of danger or		N/A
	the need for urgent action		N/A
	coloured red		N/A
	coded as specified in IEC 60073		N/A
	Supplementary means of coding provided, if meaning of colour relates (see IEC 60073):		N/A
	to safety of persons; or		N/A
	safety of the environment		N/A
	Indication of emergency stop devices		N/A
5.1.5.2	Terminals		N/A
	Mains supply terminals identified		N/A
	Other terminal marking:		--
	a) Functional earth terminals (symbol 5 used)		N/A
	b) Protective conductor terminals:		N/A
	Symbol 6 is placed close to or on the terminal;		N/A
	Part of appliance inlet		N/A
	c) Terminals of control circuits(symbol 7 used)		N/A
	d) Hazardous live terminals supplied from the interior		--
	Standard mains socket outlet; or		N/A
	Ratings marked; or		N/A
	Symbol 14 used		N/A
5.1.6	Switches and circuit-breakers		P
	If disconnecting device, off- position marked		P

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IEC 61010-1			
Clause	Requirement – Test	Result - Remark	Verdict
	If push-button used as power supply switch:		N/A
	Symbol 9 and 15 used for on-position		P
	Symbol 10 and 16 used for off-position		P
	Pair of symbols 9, 15 and 10, 16 close together		N/A
5.1.7	Equipment protected by double insulation or reinforced insulation		N/A
	Protected throughout (symbol 11 used)		N/A
	Only partially protected (symbol 11 not used)		N/A
5.1.8	Field-wiring terminal boxes	No such parts	--
	If terminal or enclosure exceeds 60°C:		N/A
	Cable temperature rating marked		N/A
	Marking visible before and during connection or beside terminal		N/A
5.2	Warning markings		P
	Visible when ready for normal use		P
	Are near or on applicable parts		P
	Symbols and text correct dimensions and colour:		N/A
	a) symbols min 2,75 mm and text 1,5 mm high and contrastingin colour with background		P
	b) symbols and text moulded, stamped or engraved in material min. 2,0 mm high and		N/A
	0.5 mm depth or raised if not contrasting in colour		N/A
	If necessary marked with symbol 14		P
	Statement to isolate or disconnectif access byusing a tool to HAZARDOUS LIVE parts is permitted		P
5.3	Durability of markings	Markings are durable and legible	P
	The required markings remain clear and legible in normal use	(see appended table)	P
5.4	Documentation		--
5.4.1	General		P
	Equipment is accompanied by documentation for safety purposes for operator or responsible body		P
	Safety documentation for service personnel authorized by the manufacturer		N/A

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IEC 61010-1			
Clause	Requirement – Test	Result - Remark	Verdict
	Documentation necessary for safe operation is provided in printed media or		P
	in electronic media if available at any time		P
	Documentation includes:		--
	a) Intended use	Refer to instruction manual	P
	b) Technical specification		P
	c) Name and address of manufacturer or supplier		P
	d) Information specified in 5.4.2 to 5.4.6		P
	e) Information about how to mitigate risks remaining		P
	f) accessories for safe operation of the equipment specified		N/A
	g) guidance provided to check correct function of the equipment, if incorrect reading may cause a hazard from harmful or corrosive substances of hazardous live parts		P
	h) Instructions for lifting and carrying (see 7.5)		N/A
	Warning statements and a clear explanation of warning symbols:		N/A
	Provided in the documentation; or		P
	Information is marked on the equipment		P
5.4.2	Equipment ratings		P
	Documentation includes:		--
	a) Supply voltage or voltage range	Refer to label marking	P
	Frequency or frequency range		N/A
	Power or current rating		P
	b) Description of all input and output connections in accordance to 6.6.1 a)	Refer to instruction manual	P
	c) Rating of insulation of external circuits as required by 6.6.1b)		N/A
	d) Statement of the range of environmental conditions	Indoor use only	P
	e) Degree of ingress protection (IP, IEC 60529)	IPX0	P
	f) Impact rating less than 5 J		N/A
	IK code in accordance to IEC 62262 marked or		N/A
	symbol 14 of table 1 marked, with		N/A
	RATED energy level and test method stated		N/A

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IEC 61010-1			
Clause	Requirement – Test	Result - Remark	Verdict
5.4.3	Equipment installation		--
	Documentation includes instructions for:		--
	a) Assembly, location and mounting requirements		P
	b) Protective earthing		N/A
	c) Connections to supply		P
	d) Permanently connected equipment:		N/A
	1) Supply wiring requirements		N/A
	2) If external switch or circuit-breaker, requirements and location recommendation		N/A
	e) ventilation requirements		N/A
	f) special services (e. g. air, cooling liquid)		N/A
	g) Instructions relating to sound level		N/A
5.4.4	Equipment operation		P
	Instructions for use include:		--
	a) identification and description of operating controls		P
	b) Positioning for disconnection		N/A
	c) Instructions for interconnection	See the instruction manual	P
	d) Specification of intermittent operation limits		N/A
	e) Explanations of symbols used	See the instruction manual	P
	f) Replacement of consumable materials		N/A
	g) Cleaning and decontamination	See the instruction manual	P
	h) Listing of anypoisonous or injurious gases and quantities	No hazards gases	N/A
	i) RISK reduction procedures relating to flammable liquids (see 9.5)	No such flammable liquids provided	N/A
	j) RISK reduction procedures relating burn from surfaces permitted to exceed limits of 10.1		N/A
	Additional precautions for IEC 60950 conforming equipment in regard to moistures and liquids		N/A
	A statement about protection impairment if used in a manner not specified by the manufacturer		N/A
5.4.5	Equipment maintenance and service		P
	Instructions for responsible body include:		--
	Instructions sufficient in detail permitting safe maintenance and inspectionand continued safety:	Provided in the manual	P
	Instruction against the use of detachable MAINS supply cord with inadequate rating		P

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Clause	Requirement – Test	Result - Remark	Verdict
	Specific battery type of user replaceable batteries		N/A
	Any manufacturer specified parts		P
	Rating and characteristics of fuses		N/A
	Instructions include following subjects permitting safe servicing and continued safety:		N/A
	a) product specificRISKSmay affect service personnel		P
	b) protective measures for these RISKS		P
	c) verification of the safe state after repair		P
5.4.6	Integration into systems or effects resulting from special conditions	No such special conditions used	N/A
	Aspects described in documentation		N/A
6	**Protection against electric shock**		**P**
6.1	General		P
6.1.1	Requirements		P
	Protection against electric shock maintained in NORMAL CONDITION and SINGLE FAULT CONDITION		P
	ACCESSIBLE parts not HAZARDOUS LIVE		P
	Voltage, current, charge or energy below the limits in NORMAL CONDITION and in SINGLE FAULT CONDITION between:		--
	ACCESSIBLE parts and earth		P
	Two ACCESSIBLE parts on same piece of the equipment within a distance of 1,8 m		P
	Conformity is checked by the determination of 6.2 and 6.3 followed by the tests of 6.4 to 6.11		P
6.1.2	Exceptions		N/A
	Following HAZARDOUS LIVE parts may be accessible to an OPERATOR:		N/A
	a) parts of lamps and lamp sockets after lamp removal		N/A
	b) parts to be replaced by operator only by the use of tool and warning marking		N/A
	Those parts not hazardous live 10 s after interruption of supply		N/A
	Capacitance test if charge is received from internal capacitor		N/A

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IEC 61010-1			
Clause	Requirement – Test	Result - Remark	Verdict
6.2	Determination of accessible parts		P
6.2.1	General		P
	Unless obviously determination of accessible parts as specified in 6.2.2 to 6.2.4		P
6.2.2	Examination		N/A
	- with jointed test finger (as specified B.2)		N/A
	- with rigid test finger (as specified B.1) anda force of 10 N		N/A
6.2.3	Openings above parts that are hazardous live	No such openings above parts that hazardous live	N/A
	- test pin with length of 100 mm and 4 mm in diameter applied		N/A
6.2.4	Openings for pre-set controls		N/A
	- test pin with length of 100 mm and 3mm in diameter applied		N/A
6.3	Limit values for accessible parts		P
6.3.1	Levels in normal condition		P
	a) Voltage limits less than 33 V r.m.s. and 46,7 V peak or 70 V d.c.		P
	for wet locations voltage limits less than 16 V r.m.s. and 22,6 V peak or 35 V d.c.		N/A
	Voltages are not HAZARDOUS LIVE the levels of:		--
	b) Current less than 0,5 mA r.m.s. for sinusoidal, 0,7 mA peak non sinusoidal or mixed frequencies or 2 mA d.c. when measured with measuring circuit A.1 or A.2 if less than 100 Hz		P
	for wet locations measuring circuit A.4 used		N/A
	c) Levels of capacitive charge or energy less:		N/A
	1) 45 µC for voltages up to 15 kV peak or d.c. or line A of Figure 3		N/A
	2) 350 mJ stored energy for voltages above 15 kV peak or d.c.		N/A
6.3.2	Levels in single fault condition		P
	a) Voltage limits less than 33 V r.m.s. and 46,7 V peak or 70 V d.c.		P
	for wet locations voltage limits less than 16 V r.m.s. and 22,6 V peak or 35 V d.c.		N/A
	Voltages are notHAZARDOUS LIVEthe levels of:		--

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Clause	Requirement – Test	Result - Remark	Verdict
	b) Current less than 0,5 mA r.m.s. for sinusoidal, 0,7 mA peak non sinusoidal or mixed frequencies or 2 mA d.c. when measured with measuring circuit A.1 or A.2 if less than 100 Hz		P
	for wet locations measuring circuit A.4 used		N/A
	c) Levels of capacitive charge or energy less:		N/A
	1) 45 µC for voltages up to 15 kV peak or d.c. or line A of Figure 3		N/A
	2) 350 mJ stored energy for voltages above 15 kV peak or d.c.		N/A
6.4	Primary means of protection		P
6.4.1	ACCESSIBLE parts prevented from being HAZARDOUS LIVE by one or more of following means:		--
	a) ENCLOSURES or PROTECTIVE BARRIERS (see 6.4.2)		P
	b) BASIC INSULATION(see 6.4.3)		N/A
	c) Impedance (see 6.4.4)		N/A
6.4.2	Enclosures and protective barriers		N/A
	- meet rigidity requirements of 8.1		N/A
	- meet requirements for BASICINSULATION, if protection is provided by insulation		P
	- meet requirements of 6.7 for CREEPAGE and CLEARANCES between ACCESSIBLE parts and HAZARDOUS live parts, if protection is provided by limited access		P
6.4.3	Basic insulation		P
	- meet CLEARANCE, CREEPAGE DISTANCE and solid insulation requirements of 6.7		N/A
6.4.4	Impedance		N/A
	Impedance used as primary means of protection meets all of following requirements:		N/A
	a) limits current or voltage to level of 6.3.2		N/A
	b) RATED for maximum WORKINGVOLTAGE and the amount of power it will dissipate		N/A
	c) CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of BASICINSULATION of 6.7		N/A
6.5	Additional means of protection in case of single fault condition		P

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IEC 61010-1			
Clause	Requirement – Test	Result - Remark	Verdict
6.5.1	ACCESSIBLE parts are prevented from becoming HAZARDOUS live by the primary means of protection and supplemented by one of:		P
	a) PROTECTIVEBONDING(see 6.5.2)		P
	b) SUPPLEMENTARYINSULATION (see 6.5.3)		P
	c) automatic disconnection of the supply (see 6.5.5)		N/A
	d) current-or voltage-limiting device (see 6.5.6)		N/A
	Alternatively one of the single means of protection is used:		N/A
	e) REINFORCED INSULATION(see 6.5.3)		N/A
	f) PROTECTIVE IMPEDANCE (see 6.5.4)		P
6.5.2	Protective bonding		P
6.5.2.1	ACCESSIBLE conductive parts, may become HARZARDOUSLIVE in SINGLE FAULT CONDITION:		P
	Bonded to the PROTECTIVE CONDUCTOR TERMINAL; or	Metal enclosure bonded to the PE.	P
	Separated by conductive screen or barrier bonded to PROTECTIVE CONDUCTOR TERMINAL		N/A
6.5.2.2	Integrity of protective bonding		P
	a) Protective bonding consists of directly connected structural parts or discrete conductors or both; and withstands thermal and dynamic stresses		P
	b) Soldered connections:		P
	Independently secured against loosening		N/A
	Not used for other purposes		N/A
	c) Screw connections are secured		N/A
	d) Protective bonding not interrupted		P
	exempted as removable partcarries MAINS SUPPLY INPUT connection		N/A
	e) Any moveable PROTECTIVE BONDING connection specifically designed, and meets 6.5.2.4		N/A
	f) No external metal braid of cables used (not regarded as PROTECTIVE BONDING)		N/A
	g) If mains supply passes through:		--
	Means provided for passing protective conductor		N/A

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IEC 61010-1			
Clause	Requirement – Test	Result - Remark	Verdict
	Impedance meets 6.5.2.4		N/A
	h) Protective conductors bare or insulated, if insulated, green-and-yellow	Green/yellow insulated protective used.	N/A
	Exceptions:		--
	1) earthing braids		N/A
	2) internal protective conductors etc.		N/A
	Green/yellow not used for other purposes		N/A
	TERMINAL suitable for connection of a PROTECTIVE CONDUCTOR, and meets 6.5.2.3		N/A
6.5.2.3	Protective conductor terminal		N/A
	a) Contact surfaces are metal		N/A
	b) Appliance inlet used	Approved inlet used	N/A
	c) For rewireable cords and permanently connected equipment, protective conductor terminal is close to mains supply terminals		N/A
	d) If no mains supply is required, any protective conductor terminal:		N/A
	Is near terminals of circuit for which protective earthing is necessary		N/A
	External if other terminals external		N/A
	e) Equivalent current-carrying capacity to mains supply terminals		N/A
	f) If plug-in, makes first and breaks last		N/A
	g) If also used for other bonding purposes, protective conductor:		N/A
	Applied first		N/A
	Secured independently		N/A
	Unlikely to be removed by servicing		N/A
	h) Protective conductor of measuring circuit:	No need to provide protective conductor for measuring circuit	--
	1) Current RATING equivalent to measuring circuit TERMINAL;		N/A
	2) PROTECTIVE BONDING:		N/A
	Not interrupted; or		N/A
	i) Functional earth terminals allow independent connection		N/A

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IEC 61010-1			
Clause	Requirement – Test	Result - Remark	Verdict
	j) If a binding screw used for PROTECTIVE CONDUCTOR TERMINAL:		N/A
	Suitable size for bond wire		N/A
	Not smaller than 4,0mm (No. 6)		N/A
	At least 3 turns of screw engaged		N/A
	Passes tightening torque test		N/A
	k) Contactpressure not capable being reduced by deformation of materials		N/A
6.5.2.4	Impedance of protective bonding of plug-connected equipment		N/A
	Impedance between PROTECTIVE CONDUCTOR TERMINAL and each ACCESSIBLE part where PROTECTIVE BONDING is specified, is:		N/A
	less than 0,1 Ohm; or		N/A
	less than 0,2 Ohm if equipment is provided with non detachable cord		N/A
6.5.2.5	Bonding impedance of PERMANENTLY CONNECTED EQUIPMENT		N/A
6.5.2.6	Transformer protective bonding screen		N/A
	Transformer provided with screen for protective bonding:		N/A
	screen bonding consists of directly connected structural parts or discrete conductors or both; and withstands thermal and dynamic stresses (see6.5.2.2 a)		N/A
	screen bonding with soldered connection (see 6.5.2.2 b) is:		N/A
	- Independently secured against loosening		N/A
	- Not used for other purposes		N/A
6.5.3	Supplementary insulation and reinforced insulation		N/A
	- meet CLEARANCE, CREEPAGE DISTANCE and solid insulation requirements of 6.7		N/A
6.5.4	Protective impedance		N/A
	Limits current or voltage to level of 6.3.1 in NORMAL and to level of 6.3.2 in SINGLE FAULT CONDITION		N/A

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IEC 61010-1			
Clause	Requirement – Test	Result - Remark	Verdict
	CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of DOUBLE or REINFORCE DINSULATION of 6.7		N/A
	The protective impedance consists of one or more of the following:		N/A
	a) appropriate single component suitable for safety and reliability for protection, it is:		N/A
	1) RATED twice the maximum WORKING VOLTAGE		N/A
	2) resistor RATED for twice the power dissipation for maximum WORKING VOLTAGE		N/A
	b) combination of components		N/A
	Single electronic device not used asPROTECTIVE IMPEDANCE		N/A
6.5.5	Automatic disconnection of the supply		N/A
	a) RATED to disconnect the load within time specified in Figure 2		N/A
	b) RATED for the maximum load conditions of the equipment		N/A
6.5.6	Current- or voltage-limiting device		N/A
	Device complies with all of:		N/A
	a) RATED to limit the current or voltage to the level of 6.3.2		N/A
	b) RATED for the maximum working voltage; and		N/A
	RATED for the maximum operational current if applicable		N/A
	c) CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of SUPPLEMENTARY INSULATION of 6.7		N/A
6.6	Connections to external circuits		P
6.6.1	Connections do not cause ACCESSIBLE parts of the following to become HAZARDOUS LIVE in NORMAL CONDITION or SINGLE FAULT CONDITION:		--
	- the external circuits		P
	- the equipment		N/A
	Protection achieved by separation of circuits; or		N/A
	short circuit of separation does not cause a HAZARD		N/A

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IEC 61010-1			
Clause	Requirement – Test	Result - Remark	Verdict
	Instructions or markings for each terminal include:		N/A
	a) Rated conditions for terminal		P
	b) Required rating of external circuit insulation		N/A
6.6.2	Terminals for external circuits		N/A
	TERMINALS which receive a charge from an internal capacitor are not HAZARDOUS LIVE after 10 s of interrupting supply connection		N/A
6.6.3	Circuits with terminals which are hazardous live		N/A
	These circuits are:		--
	Not connected to accessible conductive parts; or		N/A
	Connected to accessible conductive parts, but are not mains circuits and have one terminal contact at earth potential		N/A
	No accessible conductive parts are hazardous live		N/A
6.6.4	Accessible terminals for stranded conductors		N/A
	No RISK of accidental contact because:		N/A
	Located or shielded		N/A
	Self-evident or marked whether or not connected to ACCESSIBLE conductive parts		N/A
	ACCESSIBLE TERMINALS will not work loose		P
6.7	Insulation requirements		P
6.7.1	The nature of insulation		P
6.7.1.1	Insulation between ACCESSIBLE parts or between separate circuits consist of CLEARANCES, CREEPAGE DISTANCES and solid insulation if provided as protection against a HAZARD		P
6.7.1.2	Clearances		P
	Required CLEARANCES reflecting factors of 6.7.1.1		P
	Equipment rated for operating altitude greater than 2000 m correction factor of Table 3 of 61010-1 applied		N/A
6.7.1.3	Creepage distances		P
	Required CLEARANCES reflecting factors of 6.7.1.1		P
	CTI material group reflected by requirements	IIIa/ IIIb	P
	CTI test performed		N/A

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IEC 61010-1			
Clause	Requirement – Test	Result - Remark	Verdict
6.7.1.4	Solid insulation		P
	Required CLEARANCES reflectingfactors of 6.7.1.1		P
6.7.1.5	Requirements for insulation according to type of circuit		P
	a) In 6.7.2 for mains circuits of overvoltage category II with a nominal supply voltage up to 300V		P
	b) In 6.7.3 for secondary circuits separated from the circuits in a) only by means of a transformer		P
	c) In K.1 for mains circuits of overvoltage category III or IV or for overvoltage category II over 300V		N/A
	d) In K.2 for secondary circuits separated from the circuits in c) only by means of a transformer		N/A
	e) In K.3 for circuits that have one or more of:		N/A
	1) maximum TRANSIENT OVERVOLTAGE is limited to known level below the level of MAINS CIRCUIT		N/A
	2) maximum TRANSIENT OVERVOLTAGE above the level of MAINS CIRCUIT		N/A
	3) WORKING VOLTAGE is the sum of more than one circuit or a mixed voltage		N/A
	4) WORKING VOLTAGE includes recurring peak voltage, may include non-sinusoidal or non-periodic waveform		N/A
	5) WORKING VOLTAGE with a frequency above 30 kHz		N/A
6.7.2	Insulation for mains circuits of overvoltage II with a nominal supply voltage up to 300V		N/A
6.7.2.1	CLEARANCES and CREEPAGE DISTANCES		N/A
	Values for MAINS CIRCUITS of table 4 are met		N/A
	Coatings to achieve reduction to POLLUTION DEGREE I comply with requirements of Annex H		N/A
6.7.2.2	Solid insulation		N/A
6.7.2.2.1	Withstands electrical and mechanical stresses in normal use and all RATED environmental conditions of 1.4		N/A
	Equipment passed voltage tests of 6.8.3 with values of Table 5		N/A
	Complies as applicable:		N/A

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IEC 61010-1			
Clause	Requirement – Test	Result - Remark	Verdict
	a) ENCLOSUREor PROTECTIVE BARRIER Clause 8		N/A
	b) moulded and potted parts requirements of 6.7.2.2.2		N/A
	c) inner layers of printed wiring boards requirements of 6.7.2.2.3		N/A
	d) thin-film insulation requirements of 6.7.2.2.4		N/A
6.7.2.2.2	Moulded and potted parts		N/A
	Conductors between same two layers are separated by at least 0,4 mm after moulding is completed		N/A
6.7.2.2.3	Inner insulation layers of printed wiring boards		P
	Separated by at least 0,4 mm between same two layers		N/A
	REINFORCE DINSULATION have adequate electric strength; one of following methods used:		N/A
	a) thickness at least 0,4 mm		N/A
	b) insulation is assembled of minimum two separate layers, each RATED for test voltage of Table 5 for BASIC INSULATION		N/A
	c) insulation is assembled of minimum two separate layers, where the combination is rated for test voltage of Table 5 for REINFORCED INSULATION		N/A
6.7.2.2.4	Thin-film insulation		N/A
	Conductors between same two layers are separated by applicable CLEARANCES and CREEPAGE DISTANCES		N/A
	REINFORCE DINSULATION have adequate electric strength; one of following methods used:		N/A
	a) thickness at least 0,4 mm		N/A
	b) insulation is assembled of min two separate layers, each RATED for test voltage of Table 5 for BASIC INSULATION		N/A
	c) insulation is assembled of min three separate layers, where the combination of two layers passed voltage tests of 6.8.3 with values of Table 5 for REINFORCED INSULATION		N/A
6.7.3	Insulation for secondeary circuits derived from mains circuits of overvoltage II with a nominal supply voltage up to 300V		P

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IEC 61010-1			
Clause	Requirement – Test	Result - Remark	Verdict
6.7.3.1	Secondary circuits where separation from MAINS CIRCUITS is achieved by a transformer providing:		P
	- REINFORCED INSULATION		P
	- DOUBLE INSULATION		N/A
	- screen connected to the PROTECTIVE CONDUCTOR TERMINAL		N/A
6.7.3.2	CLEARANCES		P
	a) meet the values of Table 6 for BASIC INSULATION and SUPPLEMENTARY INSULATION; or		P
	twice the values of Table 6 for REINFORCED INSULATION		P
	b) pass the voltage tests of 6.8 with values of Table 6; with following adjustments:		P
	1) values forREINFORCED INSULATION are 1,6 times the values for BASIC INSULATION		P
	2) if operating altitude is greater than 2000 m values of CLEARANCES multiplied with factor of Table 3	Operating altitude is up to 2000m.	N/A
	3) minimum CLEARANCE is 0,2 mm for POLLUTION DEGREE 2 and 0,8 mm for POLLUTION DEGREE 3		P
6.7.3.3	CREEPAGE DISTANCES		P
	Based on WORKING VOLTAGE meets the values of Table 7 for BASIC and SUPPLEMENTARY INSULATION		P
	Values for REINFORCED INSULATION are twice the values of BASIC INSULATION		P
	Coatings to achieve reduction to POLLUTION DEGREE I comply with requirements of Annex H		N/A
6.7.3.4	Solid insulation		N/A
6.7.3.4.1	Withstands electrical and mechanical stresses in normal use and all RATED environmental conditions of 1.4		N/A
	a) Equipment passed voltage test of 6.8.3.1 for 5 s with VALUES of Table 6 for BASIC and SUPPLEMENTARY INSULATION		N/A
	values for REINFORCED INSULATION are 1,6 times the values of BASIC INSULATION		N/A

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IEC 61010-1			
Clause	Requirement – Test	Result - Remark	Verdict
	b) if WORKING VOLTAGE exceeds300 V, equipment passed voltage test of 6.8.3.1 for 1 min with a test voltage of 1,5 times working voltage for BASIC or SUPPLEMENTARY INSULATION		N/A
	value for REINFORCED INSULATION are twice the WORKING VOLTAGE		N/A
	Complies as applicable:		N/A
	1) ENCLOSURE or protective barrier Clause 8		N/A
	2) moulded and potted parts requirements of 6.7.3.4.2		N/A
	3) inner layers of printed wiring boards requirements of 6.7.3.4.3		N/A
	4) thin-film insulation requirements of 6.7.3.4.4		N/A
6.7.3.4.2	Moulded and potted parts		N/A
	Conductors between same two layers are separated by applicable distancesof Table 8		N/A
6.7.3.4.3	Inner insulation layers of printed wiring boards		N/A
	Separated by at least by applicable distances of Table 8 between same two layers		N/A
	REINFORCED INSULATION have adequate electric strength; one of following methods used:		N/A
	a) thickness at least applicable distance of Table 8		N/A
	b) insulation is assembled of minimum two separate layers, each RATED for test voltage of Table 6 for BASIC INSULATION		N/A
	c) insulation is assembled of min two separate layers, where the combination is rated for 1,6 times the test voltage of Table 6		N/A
6.7.3.4.4	Thin-film insulation		N/A
	Conductors between same two layers are separated by applicable CLEARANCES andCREEPAGE DISTANCES		N/A
	REINFORCED INSULATION have adequate electric strength; one of following methods used:		N/A
	a) thickness at least applicable distance of Table 8		N/A
	b) insulation is assembled of min two separate layers, each RATEDfor test voltage of Table 6 for BASIC INSULATION		N/A

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IEC 61010-1			
Clause	Requirement – Test	Result - Remark	Verdict
	c) insulation is assembled of min three separate layers, where the combination of two layers passed voltage tests with 1,6 time values of Table 6:		N/A
	a.c. test of 6.8.3.1; or		N/A
	d.c. test of 6.8.3.2 for circuits stressed only by d.c. voltages		N/A
6.8	Procedure for voltage tests		P
6.9	Constructional requirements for protection against electric shock		P
6.9.1	If a failure could cause a HAZARD:		--
	a) Security of wiring connections		P
	b) Screws securing removable covers	No such screws	N/A
	c) Accidental loosening		P
	d) CREEPAGE and CLEARANCES not reduced below the values of basic insulation by loosening		P
6.9.2	Material not to be used for safety relevant insulation:		P
	Easily damaged materials not used		P
	Non-impregnated hydroscopic materials not used	No such materials used	N/A
6.9.3	Colour coding		N/A
	Green-and-yellow insulation shall not be used except:		--
	a) protective earth conductors;		N/A
	b) protective bonding conductors;		N/A
	c) potential equilization conductors;		N/A
	d) functional earth conductors		N/A
6.10	Connection to mains supply source and connections between parts of equipment		P
6.10.1	Mains supply cords		P
	Rated for maximum equipment current		P
	Cable complies with IEC 60227 or IEC 60245		P
	Heat-resistant if likely to contact hot parts		N/A
	Temperature rating (cord and inlet)		N/A
	Green-and-yellow used only for connection to protective conductor terminals		N/A

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Clause	Requirement – Test	Result - Remark	Verdict
	Detachable cords with IEC 60320 mains connectors:		N/A
	Conform to IEC 60799; or		N/A
	Have the current rating of the mains connector		N/A
6.10.2	Fitting of non-detachable mains supply cords		N/A
6.10.2.1	Cord entry		N/A
	Inlet or bushing smoothly rounded; or		N/A
	Insulated cord guard protruding >5D		N/A
6.10.2.2	Cord anchorage:		N/A
	Protective earth conductor is the last to take the strain		N/A
	a) Cord is not clamped by direct pressure from a screw		N/A
	b) Knots are not used		N/A
	c) Cannot push the cord into the equipment to cause a hazard		N/A
	d) No failure of cord insulation in anchorage with metal parts		N/A
	e) Not to be loosened without a tool		N/A
	f) Cord replacement does not cause a HAZARD and method of strain relief is clear		N/A
	Push-pull and or torque test		N/A
6.10.3	Plugs and connectors		P
	Mains supply plugs, connectors etc., conform with relevant specifications		P
	If equipment supplied at voltages below 6.3.2.a) or from a sole source:		N/A
	Plugs of supply cords do not fit mains sockets above rated supply voltage		N/A
	MAINS-type plugs used only for connection to MAINS supply		P
	Plug pins which receive a charge from an internal capacitor		N/A
	Accessory MAINS socket outlets:		N/A
	a) Marking if accepts a standard MAINSplug (see 5.1.3e)		N/A
	b) Input has a protective earth conductor if outlet has EARTH TERMINAL CONTACT		N/A

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IEC 61010-1			
Clause	Requirement – Test	Result - Remark	Verdict
6.11	Disconnection from supply source		P
6.11.1	Disconnects all current carrying conductors		P
6.11.2	Exceptions		N/A
6.11.3	Requirements according to type of equipment		P
6.11.3.1	Permanently connected equipment and multi-phase equipment		N/A
	Employs switch or circuit-breaker		N/A
	If switch or circuit-breaker is not part of the equipment, documentation requires:		N/A
	a) Switch or circuit-breaker must be included in the installation		N/A
	b) Suitable location easily reached		N/A
	c) Marking as disconnecting for the equipment		N/A
6.11.3.2	Single-phase cord-connected equipment		N/A
	Equipment is provided with:		N/A
	a) Switch or circuit-breaker; or		N/A
	b) Appliance coupler (disconnectable without tool);		N/A
	c) Separable plug (without locking device)		N/A
6.11.4	Disconnecting devices		P
	Electrically close to the SUPPLY		P
6.11.4.1	General		P
	Disconnecting device part of equipment		P
	Electrically close to the supply		P
	Power-consuming components not electrically located between the supply source and the disconnecting device		N/A
	Except electromagnetic interference suppression circuits permitted to be located on the supply side of the disconnecting device		N/A
6.11.4.2	Switches and circuit-breakers		P
	When used as disconnection device:		N/A
	Meets IEC 60947-1 and IEC 60947-3		N/A
	Marked to indicate function.....:		N/A
	Not incorporated in MAINS cord		N/A
	Does not interrupt PROTECTIVE EARTH CONDUCTOR		N/A

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Clause	Requirement – Test	Result - Remark	Verdict
6.11.4.3	Appliance couplers and plugs		N/A
	Where an appliance coupler or separable plug is used as the disconnecting device (see 6.11.3.2):		N/A
	Readily identifiable and easily reached by the operator		N/A
	Single-phase portable equipment cord length not more than 3 m		N/A
	Protective earth conductor connected first and disconnected last		N/A
7	**Protection against mechanical hazards**		P
7.1	Equipment does not cause a mechanical HAZARD in NORMAL nor in SINGLE FAULT CONDITION		P
	Conformity is checked by 7.2 to 7.7		P
7.2	Sharp edges	No sharp edges	P
	Easily-touched parts are smooth and rounded		P
	Do not cause an injury in normal use and		P
	Do not cause an injury in single fault condition		P
7.3	Moving parts		P
7.3.1	HAZARDS from moving parts limited to a tolerable level with the conditions specified in 7.3.2 and 7.3.5		P
	RISK assessment in accordance with 7.3.3 carried out		P
7.3.2	Exceptions:		--
	Access to HAZARDOUS moving parts permitted under following circumstances:		N/A
	a) obviously intended to operate on parts or materials outside of the equipment		N/A
	inadvertent touching of moving parts minimized by equipment design (e .g. guards or handles)		N/A
	b) If operator access is unavoidable outside normal use following precautions have been taken:		N/A
	1) Access requires TOOL		N/A
	2) Statement about training in the instructions		N/A
	3) Warning markings on covers prohibiting access by untrained operators		N/A

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IEC 61010-1			
Clause	Requirement – Test	Result - Remark	Verdict
	or symbol 14 with full details in documentation		N/A
7.3.3	Risk assessment for mechanical HAZARDS to body parts		N/A
	RISK is reduced to a tolerable level by protective measures as specified in Table 12		N/A
	Minimum protective measures:		N/A
	A. Low level measures		N/A
	B. Moderate measures		N/A
	C. Stringent measures		N/A
7.3.4	Limitation of force and pressure		N/A
	Following levels are met in normal and single fault condition:		N/A
	Continuous contact pressure below 50 N / cm² with force below 150 N		N/A
	Temporary force below 250 N for an area at least of 3 cm² for a maximum duration of 0,75 s		N/A
7.3.5	Gap limitations between moving parts		N/A
7.3.5.1	Access normally allowed		N/A
	If levels of 7.3.4 exceeded and body part may be inserted minimum gap as specified in Table 13 assured in NORMAL and in SINGLE FAULT CONDITION		N/A
7.3.5.2	Access normally prevented		N/A
	Maximum gap as specified in Table 14 assured in NORMAL and in SINGLE FAULT CONDITION		N/A
7.4	Stability		P
	Equipment not secured to the building structure is physical stable		P
	Stability maintained after opening of drawers, etc. by automatic means, or		N/A
	Warning marking requires the application of means		N/A
	Compliance checked by following tests as applicable:		N/A
	a) 10° tilt test for other than handheld equipment		P
	b) multi-directional force test for equipment exceeds height of 1 m and mass of 25 kg		N/A
	c) downward force test for floor-standing equipment		N/A

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IEC 61010-1			
Clause	Requirement – Test	Result - Remark	Verdict
	d) overload test with 4 times maximum load for castor or support that supports greatest load		N/A
	e) castor or support that supports greatest load removed from equipment		N/A
7.5	Provisions for lifting and carrying		N/A
7.5.1	Equipment more than 18 kg:		N/A
	Has means for lifting or carrying; or		N/A
	Directions in documentation		N/A
7.5.2	Handles or grips		N/A
	Handles or grips withstand four times weight		N/A
7.5.3	Lifting devices and supporting parts		N/A
	Rated for maximum load; or		N/A
	tested with four times maximum static load		N/A
7.6	Wall mounting		P
	Mounting brackets withstand four times weight		P
7.7	Expelled parts		N/A
	Equipment contains or limits the energy		N/A
	Protection not removable without the aid of a tool		N/A
8	**Resistance to mechanical stresses**		**P**
8.1	Equipment does not cause a hazard when subjected to mechanical stresses in normal use		P
	Normal protection level is 5J	Considered 5J	P
	Levels below 5 J but not less than 1 J are acceptable if all the following criteria are met		N/A
	a) lower level be justified by manufacturer		P
	b) cannot easily be touched by unauthorzed persons or the general public		N/A
	c) only occasional access during NORMAL USE		N/A
	d) IK code in accordance to IEC 62262 marked or symbol 14 used with full information in the documentation		N/A
	For non-metallic ENCLOSURES rated below 2 °C ambient temperature value chosen for minimum rated temperature		N/A
	Impact energies between IK values, the IK code marked for nearest lower value		N/A
	Conformity is checked by performing following tests:		--

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IEC 61010-1			
Clause	Requirement – Test	Result - Remark	Verdict
	1) the static test of 8.2.1		P
	2) impact test of 8.2.2 with 5J except for hand-held equipment		P
	If impact energy not selected to 5J alternate method of IEC 62262 used		N/A
	3) drop test of 8.3.1 or 8.3.2 except for fixed and equipment with mass over 100kg		P
	Equipment rated with an impact rating of Ik 08 by that clearly meets the criteria		N/A
	After the tests inspection with following results:		--
	- Hazardous live parts above the limits of 6.3.2 not accessible		P
	- insulation pass the voltage tests of 6.8		P
	i) no leaks of corrosive and harmful substances		P
	ii) Enclosure shows no cracks resulting in hazard		P
	iii) CLEARANCES not less than their permitted values		P
	iv) the insulation of internal wiring remains undamaged;		P
	V) Protective barriers necessary for safety have not been damaged or loosened		P
	vi) No moving parts exposed, except permitted by 7.3		P
	vii) no damage which could cause spread of fire		P
8.2	Enclosure rigidity tests		P
8.2.1	Static test		P
	- 30N with 12mm rod to each part of enclosure		P
	- in case of doubt test conducted at maximum rated ambient temperature		N/A
8.2.2	Impact test		P
	Impact applied to any part of enclosure causing a hazard if damaged		P
	Impact energy level and corresponding IK code…:		P
	Non-metallic enclosure cooled to minimum rated ambient temperature if below 2°C		P
8.3	Drop test		P
8.3.1	Equipment other than HAND-HELD EQUIPMENT and DIRECT PLUG-IN EQUIPMENT		P
	Test conducted with a drop height or angle of……:	100mm drop test conducted	P
8.3.2	HAND-HELD EQUIPMENT and DIRECT PLUG-IN EQUIPMENT		N/A

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IEC 61010-1			
Clause	Requirement – Test	Result - Remark	Verdict
	Non-metallic ENCLOSURES cooled to minimum RATED ambient temperature if below 2 °C		N/A
	Drop test conducted with an height of 1 m		N/A
9	**Protection against the spread of fire**		**P**
9.1	No spread of fire in normal and single fault condition		P
	Mains supplied equipment meets requirement of 9.6 additionally		P
	Conformity for each source of HAZARD or area of the equipment is checked by one of the following:		P
	a) Fault test of 4.4; or		P
	b) Application of 9.2 (eliminating or reducing the sources of ignition); or		N/A
	c) Application of 9.3 (containment of fire within the equipment)		P
9.2	Eliminating or reducing the sources of ignition within the equipment		N/A
	a) 1) Limited-energy circuit (see 9.4); or		N/A
	2) Insulation meets the requirements for BASIC INSULATION; OR		N/A
	Bridging the insulation does not cause ignition		N/A
	b) Any ignition HAZARD related to flammable liquids (see 9.5)	No liquids used	N/A
	c) No ignition in circuits designed to produce heat		N/A
9.3	Containment of the fire within the equipment, should it occur		P
	a) Energizing of the equipment is controlled by an operator held switch		N/A
	b) ENCLOSURE is conform with constructional requirements of 9.3.1; and		P
	Requirements of 9.5 are met		N/A
9.3.1	Constructional requirements		P
	a) Connectors and insulating material have flammability classification V-2 or better		N/A
	b) Insulated wires and cables are flame retardant (VW-1 or equivalent)		P
	c) ENCLOSURE meets following requirements:		N/A

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IEC 61010-1			
Clause	Requirement – Test	Result - Remark	Verdict
	1) Bottom and sides in arc of 5 ° (see Figure 13) to non-limited circuits (9.4) meets:		N/A
	i) no openings; or		N/A
	ii) perforated as specified in Table 16; or		N/A
	iii) metal screen with a mesh; or		N/A
	iv) baffles as specified in Figure 12		N/A
	2) Material of ENCLOSURE and any baffle or flame barrier is made of:		N/A
	Metal (except magnesium); or		N/A
	Non-metallic materials have flammability classification V-1 or better		N/A
	3) ENCLOSURE and any baffle or flame barrier have adequate rigidity		N/A
9.3.2	Construction requirements		N/A
9.4	Limited-energy circuit		N/A
	a) Potential not more than 30 r.m.s. and 42.4 V peak, or 60 V dc		N/A
	b) Current limited by one of following means:		N/A
	1) Inherently or by impedance;		N/A
	2) Over current protective device;		N/A
	3) A regulating network limits also in SINGLE FAULT CONDITION		N/A
	c) Is separated by at least BASIC INSULATION		N/A
	Fuse or a nonadjustable electromechanical device is used		N/A
9.5	Requirements for equipment containing or using flammable liquids	No flammable liquids used	N/A
	Flammable liquids contained in or specified for use with equipment do not cause spread of fire		N/A
	Risk is reduced to a tolerable level :		--
	a) The temperature of surface or parts in contact with flammable liquids is 25 °C below fire point		N/A
	b) The quantity of liquid is limited	No such liquid used	N/A
	c) Flames are contained within the equipment		N/A
	Detailed instructions for risk-reduction provided		N/A
9.6	Overcurrent protection		N/A
9.6.1	Mains supplied equipment protected		N/A

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IEC 61010-1			
Clause	Requirement – Test	Result - Remark	Verdict
	Basic insulation between mains parts of opposite polarity provided		N/A
	Devices not in the protective conductor		N/A
	Fuses or single pole circuit-breakers not fitted in neutral (multi-phase)		N/A
9.6.2	Permanently connected equipment		N/A
	Overcurrent device:		N/A
	Fitted within the equipment; or		N/A
	Specified in manufacturer's instructions		N/A
9.6.3	Other equipment		N/A
	Protection within the equipment		N/A
10	**Equipment temperature limits and resistance to heat**		**P**
10.1	Surface temperature limits for protection against burns		P
	Easily touched surfaces within the limits in NORMAL and in SINGLE FAULT CONDITION:	(see appended table)	P
	- at an specified ambient temperature of 40 °C		P
	- for equipment rated above 40 °C ambient temperature limits not exceeded raised by the difference to 40 °C		N/A
	Heated surfaces necessary for functional reasons exceeding specified values:		--
	Are recognizable as such by appearance or function; or		N/A
	Are marked with symbol 13		N/A
	Guards are not removable without TOOL		N/A
10.2	Temperatures of windings		N/A
	Limits not exceeded in:		--
	NORMAL CONDITION		N/A
	SINGLE FAULT CONDITION		N/A
10.3	Other temperature measurements	(see appended table)	P
	Following measurements conducted if applicable:		--
	a) Value of 60 °C of field-wiring terminal box not exceeded		N/A
	b) Surface of flammable liquids and parts in contact with this liquids		N/A
	c) Surface of non-metallic enclosures		N/A

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IEC 61010-1			
Clause	Requirement – Test	Result - Remark	Verdict
	d) Parts made of insulating material supporting parts connected to mains supply		N/A
	e) Terminals carring a current more than 0,5A		P
10.4	Conduct of temperature test		P
10.4.1	Tests conducted under reference test conditions and manufacturer's instructions		P
10.4.2	Temperature measurement of heating equipment		N/A
	Tests conducted in test corner		N/A
10.4.3	Equipment intended for installation in a cabinet or wall		N/A
	Equipment built in as specified in installation instructions		N/A
10.5	Resistance to heat		P
10.5.1	Integrity of CLEARANCE and CREEPAGE DISTANCES		P
10.5.2	Non-metallic ENCLOSURES		P
	Within 10 min after treatment:		N/A
10.5.3	Insulating material		N/A
	a) Parts supporting parts connected to MAINS supply		N/A
	b) TERMINALS carrying a current more than 0.5 A		N/A
	Examination of material data; or		N/A
	in case of doubt::		--
	1) Ball pressure test; or		N/A
	2)* Vicat softening testof ISO 306		N/A
11	**Protection against hazards from fluids**		**N/A**
11.1	Protection to OPERATORS and surrounding area provided by EQUIPMENT		N/A
	All fluids specified by manufacturer considered		N/A
11.2	Cleaning		N/A
11.3	Spillage		N/A
11.4	Overflow		N/A
11.5	Battery electrolyte		N/A
	Battery electrolyte leakage presents no hazard		N/A
11.6	Specially protected equipment		N/A
11.7*	Fluid pressure and leakage		N/A

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IEC 61010-1			
Clause	Requirement – Test	Result - Remark	Verdict
11.7.1	Maximum pressure		N/A
	Maximum pressure of any part does not exceed P_{RATED}		N/A
11.7.2	Leakage and rupture at high pressure		N/A
	Fluid containing parts subjected to hydraulic test if:		N/A
	a) product of pressure and volume > 200 kPal; and		N/A
	b) pressure > 50 kPa		N/A
	Parts of refrigerating systems meets pressure-related requirements of IEC 60335-24 or IEC 60335-24		N/A
11.7.3	Leakage from low-pressure parts		N/A
11.7.4	Overpressure safety device		N/A
	Does not operate in NORMAL USE		N/A
	a) Connected as close as possible to parts intended to be protected		N/A
	b) Easy access for inspection, maintenance and repair		N/A
	c) Adjustment only with TOOL		N/A
	d) No discharge towards person		N/A
	e) No HAZARD from deposit of discharged material		N/A
	f) Adequate discharge capacity		N/A
	No shut-off valve between overpressure safety device and protected parts		N/A
12*	**Protection against radiation, including laser sources, and against sonic and ultrasonic pressure**		**N/A**
12.1	Equipment provides protection		N/A
12.2	Equipment producing ionizing radiation		N/A
12.2.1	Ionizing radiation		N/A
12.2.1.1	Equipment meets the following requirements:		N/A
	a) if intended to emit radiation meets requirements of 12.2.1.2; or		N/A
	tested, classified and marked in accordance to IEC 60405		N/A
	b) if only emits stray radiation meets requirements of 12.2.1.3		N/A

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IEC 61010-1			
Clause	Requirement – Test	Result - Remark	Verdict
12.2.1.2	Equipment intended to emit radiation		N/A
	Effective dose rate of radiation measured.....:		N/A
	If dose rate exceeds 5 µSv/h marked with the following:		N/A
	a) Symbol 17 (ISO 361)		N/A
	b) Abbreviations of the radionuclides.....:		N/A
	c) With maximum dose at 1 m;or.....:		N/A
	with dose rate value between 1 µSv/h and 5 µSv/h in m.....:		N/A
12.2.1.3	Equipment not intended to emit radiation		N/A
	Limit for unintended stray radiation of 1 µSv/h at any easily reached point kept.....:		N/A
12.2.2	Accelerated electrons		N/A
	Compartments opened only by the use of aTOOL		N/A
12.3	Optical radiation		N/A
	No unintentional HAZARDOUS escape of optical radiation as ultraviolet, visible or infrared radiation, including light emitting diodes:		N/A
	– Checked by inspection; and		N/A
	– Radiation sources assessed in acc. to the requirements of IEC 62471, except for sources considered to be safe (Table 22) or conditionally safe (Table 23).		N/A
	– Lamp and lamp systems assessed to Risk Groups 1, 2, or 3 of IEC 62471 are labelled in acc. to IEC 62471-2		N/A
	– If labelling impractical, lamp or lamp systems marked with symbol 14		N/A
	– Protective measures, restrictions on use, and operating instructions that may be necessary are provided, including the applicable conditions of use of Table 23		N/A
12.4	Microwave radiation		N/A
	Power density does not exceed 10 W/m^2.....:		N/A
12.5	Sonic and ultrasonic pressure		N/A
12.5.1	Sound level		N/A
	No HAZARDOUS sound emission		N/A

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IEC 61010-1			
Clause	Requirement – Test	Result - Remark	Verdict
	Maximum sound pressure level measured and calculated for maximum sound power level as specified in ISO 3746 or ISO 9614-1		N/A
	Instruction describes measures for protection		N/A
12.5.2	Ultrasonic pressure		N/A
	Equipment not intended to emit ultrasound does not exceed limit of 110 dB between 20 kHz and 100 kHz		N/A
	Equipment intended to emit ultrasound:		N/A
	Outside useful beam does not exceed limit of 110 dB between 20 kHz and 100 kHz		N/A
	If inside useful beam above values exceeded:		N/A
	Marked with Symbol 14 of Table 1		N/A
	and following information in the documentation:		N/A
	a) dimensions of useful beam		N/A
	b) area where ultrasonic pressure exceed 110 dB		N/A
	c) maximum sound pressure inside beam area		N/A
12.6	Laser sources		N/A
	Equipment meets requirements of IEC 60825-1		N/A
13*	**Protection against liberated gases, explosion and implosion**		**N/A**
13.1	Poisonous and injurious gases and substances	No injurious gases	N/A
	No poisonous or injurious gases or substances liberated in NORMAL CONDITION		N/A
	Attached data/test reports demonstrate conformity		N/A
13.2	Explosion and implosion		--
13.2.1	Components		N/A
	Components liable to explode:		N/A
	Pressure release device provided; or		N/A
	Apparatus incorporates OPERATOR protection (see also 7.7)		N/A
	Pressure release device:		N/A
	Discharge without danger		N/A
	Cannot be obstructed		N/A
13.2.2	Batteries and battery charging		N/A
	If explosion or fire hazard could occur:		--

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Clause	Requirement – Test	Result - Remark	Verdict
	Protection incorporated in the equipment; or		N/A
	Instructions specify batteries with built-in protection		N/A
	In case of wrong type of battery used:		--
	No HAZARD; or		N/A
	Warning by marking and within instructions		N/A
	Equipment with means to charge rechargeable batteries:		--
	Warning against the charging of non-rechargeable batteries; and		N/A
	Type of rechargeable battery indicated; or		N/A
	Symbol 14 used		N/A
	Battery compartment design		N/A
	Single component failure		N/A
	Polarity reversal test		N/A
13.2.3	Implosion of cathode ray tubes		N/A
	If maximum face dimensions > 160 mm:		--
	Intrinsically protected and correctly mounted; or		N/A
	ENCLOSURE provides protection:		N/A
	If non-intrinsically protected:		--
	Screen not removable without TOOL		N/A
	If glass screen, not in contact with surface of tube		N/A
14*	**Components and subassemblies**		N/A
14.1	Where safety is involved, components meet relevant requirements		N/A
14.2	Motors		N/A
14.2.1	Motor temperatures		N/A
	Does not present a HAZARD when stopped or prevented form starting; or		N/A
	Protected by overtemperature or thermal protection device conform with 14.3		N/A
14.2.2	Series excitation motors		N/A
	Connected direct to device, if overspeeding causes a HAZARD		N/A
14.3	Overtemperature protection devices		N/A

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IEC 61010-1			
Clause	Requirement – Test	Result - Remark	Verdict
	Devices operating in a SINGLE FAULT CONDITION		N/A
	a) Reliable function is ensured		N/A
	b) RATED to interrupt maximum current and voltage		N/A
	c) Does not operate in NORMAL USE		N/A
	If self-resetting device used to prevent aHAZARD, protected part requires intervention before restarting		N/A
14.4	Fuse holders		N/A
	No access to HAZARDOUS LIVE parts		N/A
14.5	Mains voltage selecting devices		N/A
	Accidental change not possible		N/A
14.6	Mains transformers tested outside equipment		N/A
14.7	Printed wiring boards		N/A
	Data shows conformity with V-1 of IEC 60695-11-10 or better; or	Rated V-0 or better	N/A
	Test shows conformity with V-1 of IEC 60695-11-10 or better		N/A
	Not applicable for printed wiring boards with limited-energy circuits (9.4)		N/A
14.8	Circuits or components used as TRANSIENT OVERVOLTAGE limiting devices		N/A
	Test conducted between each pair of MAINS SUPPLY TERMINALS		N/A
	No HAZARD resulting from rupture or overheating of the component:		N/A
	- no bridging of safety relevant insulation		N/A
	- no heat to other parts above the self-ignition points		N/A

15*	**Protection by interlocks**		**N/A**
15.1	Interlocks are designed to remove a hazard before OPERATOR exposed		N/A
15.2	Prevention of reactivating		N/A
15.3	Reliability		N/A
	Single fault unlikely to occur; or		N/A
	Cannot cause a HAZARD		N/A

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IEC 61010-1			
Clause	Requirement – Test	Result - Remark	Verdict
16*	**HAZARDS resulting from application**		N/A
16.1	REASONABLY FORESEEABLE MISUSE		N/A
	No hazards arising from setting not intended and not described in the instructions	All hazards are described and only use according to instruction is intended.	N/A
	Other cases of reasonable foreseeable misues addressed by risk assessment		N/A
16.2	Ergonomic aspects		N/A
	Factors giving rise to a HAZARD the RISK assessment is reflecting those aspects:		N/A
	a) Limitation of body dimensions		N/A
	b) Displays and indicators		N/A
	c) Accessibility and conventions of controls		N/A
	d) Arrangements of TERMINALS		N/A
17*	**Risk assessment**		**N/A**
	Risk assessment conducted, if hazard might arise and not covered by clausedd 6 to 16		N/A
	Tolerable rish achieved by iterative documented process covering the following:		N/A
	a) RISK analysis		N/A
	identify HAZARDS and estimate RISKS		N/A
	b) RISK evaluation		N/A
	plan to judge acceptability of resulting risk level based on the estimated severity and likelihood of a rish		N/A
	c) Rish reduction		N/A
	Initial risk reduced by counter measures:		N/A
	Repeated risk evalution without new risks introduced		N/A
	Risks remaining after risk assessment addressed in instruction to responsible body:		N/A
	Information contained how to mitigate these rishs		N/A
	Following principles in methods of risk reduction applied by manufactuer in giver order:		N/A
	1) RISKS eliminated or reduced as far as possible		N/A
	2) Protective measures taken for risks that cannot be eliminated		N/A

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Clause	Requirement – Test	Result - Remark	Verdict
	3) User information about residual risk due to any defect of the protective measure		N/A
	Indication of particular training is required		N/A
	Specification of the need for personal protective equipment		N/A
	Conformity checked by evaluation of the risk assessment documentation		N/A
ANNEX F*	**ROUTINE TESTS**		N/A
	Manufacturer's declaration		N/A
ANNEX H*	**QUALIFICATION OF CONFORMAL COATINGS FOR PROTECTION AGAINST POLLUTION**		N/A
H.1	**General**		N/A
	Conformal coatings meet the requirements of Clause H.2 and H.3.		N/A
H.2	**Technical properties**		N/A
	Technical properties of conformal coatings are suitable for the intended application. In particular:		--
	Manufacturer indicate that it is a coating for PWBs;		N/A
	RATED operating temperature include the temperature range of the indicated application;		N/A
	CTI, insulation resistance and dielectric strength are suitable for the intended application;		N/A
	Coating have adequate UV resistance, if it is exposed to sunlight;		N/A
	Flammability RATING of the coating is at least the required flammability RATING of the applied PWB.		N/A
H.3	**Qualification of coatings**		--
	Coating complies with the conformity requirements.		N/A
ANNEX K*	**INSULATION REQUIREMENTS NOT COVERED BY CLAUSE 6.7**		N/A

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IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict

4.4	**TABLE: Testing in SINGLE FAULT CONDITION – Results**			**Form A.1**	P
Test subclause	Fault No.	Fault description	Td 4.4.3 (NOTE)	How was test terminated Comments	Meets 4.4.4
4.4.2.7.2	1	IC6 pin 2-13 (short-circuit)	1h	EUT immediately protected, Not risk Input current: 0A	P
4.4.2.10	2	IC5 pin D-S (short-circuit)	1h	EUT immediately protected, Not risk Input current: 0A	P
4.4.2.10	3	U2 pin 3-4 (short-circuit)	1h	EUT immediately protected, Not risk Input current: 0A	P

NOTE Td = Test duration in hh:mm:ss
Record dielectric strength test on Form A.18 and temperature tests on Forms A.26A and / or A.26B.
Record in the comments column for each test whether carried out during or after SINGLE FAULT CONDITION.

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IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict

5.1.3c)	**TABLE: MAINS supply**	**Form A.2**	P
	Marked rating .....:	85-265VAC or 100-300VDC	—
	Phase .....:	--	—
	Frequency .....:	50/60	—
	Current .....:	--	—
	Power .....:	2W	—
	Power .....:	-- VA	—

Test No.	Voltage [V]	Frequency [Hz]	Current [A]	Power [W]	Power [VA]	Comments
1	76.5	50	0.007	0.66	--	Normal operation
2	76.5	60	0.007	0.66	--	Normal operation
3	85	50	0.006	0.71	--	Normal operation
4	85	60	0.006	0.72	--	Normal operation
5	265	50	0.006	0.86	--	Normal operation
6	265	60	0.006	0.89	--	Normal operation
7	291.5	50	0.006	1.00	--	Normal operation
8	291.5	60	0.006	1.03	--	Normal operation
9	100	/	0.005	0.50	--	Normal operation
10	300	/	0.002	0.60	--	Normal operation

NOTE – Measurements are only required for marked ratings. Initial inrush currents are not regarded.

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Clause	Requirement — Test	Result — Remark	Verdict

5.3	**TABLE: Durability of markings**	**Form A.3**	P

Marking method (see NOTE)	Agent
1) Adhesive label	A Water
2) Ink printed	B Isopropyl alcohol 70%
3) Laser marked	C (specify agent)
4) Film-coated (plastic foil control panel)	D (specify agent)
5) Imprinted on plastic (moulded in)	E (specify agent)

NOTE – Where applicable include print method, label material, ink or paint type, fixing method, adhesive and surface to which marking is fixed.

Marking location	Marking method (see above)
Identification (5.1.2)	2)
MAINS supply (5.1.3)	2)
Fuses (5.1.4)	--
Terminals and operating devices (5.1.5.2)	--
Switches and circuit breakers (5.1.6)	--
Double/reinforced equipment (5.1.7)	--
Field wiring Terminal boxes (5.1.8)	--
Warning marking (5.2)	2)
Battery charging (13.2.2)	--

Method	Test agent	Remains legible	Label loose	Curled edges	Comments
		Verdict	Verdict	Verdict	
2)	A/B	Legible	Intact	No curling	--

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Clause	Requirement — Test	Result — Remark	Verdict

6.2	**TABLE: List of ACCESSIBLE parts** **Form A.4**	P
6.1.2	Exceptions	—
6.2	Determination of ACCESSIBLE parts	—

Item	Description	Determination method (NOTE 5)	Exception under 6.1.2 (NOTE 4)
1)	Enclosure	V, R, J	--
2)	Button	V, R, J	--
3)	Terminal	V, R, J	Discharge test required (see form A.5)

NOTE 1 – Test fingers and pins are to be applied without force unless a force is specified (see 6.2.2)
NOTE 2 – Special consideration should be given to inadequate insulation and high voltage parts (see 6.2)
NOTE 3 – Parts are considered to be ACCESSIBLE if they could be touched in the absence of any covering which is not considered to provide suitable insulation (see 6.4).
NOTE 4 – Capacitance test may be required (see Form A.5).
NOTE 5 – The determination methods are:
V = visual; R = rigid test finger; J = jointed test finger; P3 = pin 3 mm diameter; P4 = pin 4 mm diameter.

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Clause	Requirement — Test	Result — Remark	Verdict

6	**TABLE: Values in NORMAL CONDITION**	**Form A.5**	P
6.1.2	Exceptions	11.2 Cleaning and decontamination	—
6.3.1	Values in NORMAL CONDITION (see NOTE 1)	11.3 Spillage	—
6.6.2	Terminals for external circuit	11.4 Overflow	—
6.10.3	Plugs and connections		—

Item (see Form A.4)	Voltage			Current				Capacitance		10 s / 5 s test (NOTE)			Comments
	V r.m.s.	V peak	V d.c.	Test circuit A1/A2/A3	mA r.m.s.	mA peak	mA d.c.	µC	mJ	V	µC	mJ	
Enclosure	--	--	--	A1	--	0.01	--	--	--	--	--	--	Limit: 0.7mA. pk, 0.5mA rms
Button	--	--	--	A1	--	0.01	--	--	--	--	--	--	Limit: 0.7mA. pk, 0.5mA rms
Terminal	--	--	--	A1	--	0.01	--	--	--	--	--	--	Limit: 0.7mA. pk, 0.5mA rms

NOTE – A 10 s test is specified in 6.1.2 a) b). A. 5 s test is specified in 6.10.3. The capacitance level versus voltage below the limits given from figure 3 of IEC 61010-1.

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Clause	Requirement — Test	Result — Remark	Verdict

6.3.2	**TABLE: Values in SINGLE FAULT CONDITION**										**Form A.6**	P
Item	Subclause and	Voltage			Transient (see NOTE)		Current				Capacitance	Comments
(see Form A.4)	fault No. (see Form A.1)	V r.m.s.	V peak	V d.c.	V	s	Test circuit A1/A2/A3	mA r.m.s.	mA peak	mA d.c.	µF (see NOTE)	
Enclosure	1-3	--	--	--	--	--	A1	--	0.01	--	--	Limit: 5mA, peak, 3.5mA r.m.s
Button	1-3	--	--	--	--	--	A1	--	0.01	--	--	Limit: 5mA, peak, 3.5mA r.m.s
Terminal	1-3	--	--	--	--	--	A1	--	0.01	--	--	Limit: 5mA, peak, 3.5mA r.m.s

NOTE – Transient voltages must be below the limits given from Figure 2 and the capacitance below the limits from figure 3 of IEC 61010-1.

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IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict

6.5.2.2	TABLE: Cross-sectional area of bonding conductors	Form A.7	N/A
Conductor location	CROSS-SECTIONAL AREA [mm²]		Verdict
Supplementary information:			

6.5.2.3	TABLE: Tightening torque test	Form A.8	N/A
Conductor location	Size of screw	Tightening torque [Nm]	Verdict
Supplementary information:			

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IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict

6.5.2.4	TABLE: BONDING impedance of plug-connected equipment Form A.9				N/A
ACCESSIBLE part under test		Test current [A]	Voltage attained after 1 min [V]	Calculated resistance (Maximum 0,1 or 0,2 Ω) [Ω] (NOTE 1)	Verdict
Earth terminal AC inlet and metal enclosure					

NOTE 1 – For none-detachable power cord the impedance between protective conductor plug pin of MAINS cord and each ACCESSIBLE part shall not exceed 0,2 Ohm.

Supplementary information:

6.5.2.5	TABLE: BONDING impedance of PERMANENTLY CONNECTED EQUIPMENT Form A.10			N/A
ACCESSIBLE part under test		Test current [A]	Voltage attained after 1 min (maximum 10 V) [V]	Verdict

Supplementary information:

6.5.2.6	TABLE: Transformer PROTECIVE BONDING screen Form A.11				N/A
ACCESSIBLE part under test		Test current (see NOTE) [A]	Voltage attained after 1 min (maximum 10 V) [V]	Calculated resistance (maximum 0,1 Ω) [Ω]	Verdict

NOTE – Test current must be twice the value of the overcurrent protection means of the winding. Test is specified in 6.5.2.6 a) or b).

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Clause	Requirement — Test	Result — Remark	Verdict

6.5.4	TABLE: PROTECTIVE IMPEDANCE	Form A.12	N/A

A single component

Component	Location	Measured		Calculated	Rated		Verdict	Comments
		Working voltage [V]	Current [A]	Power dissipation [W]	Working voltage [V]	Power dissipation [W]		

A combination of components

Component	Location	Comments

NOTE – A PROTECTIVE IMPEDANCE shall not be a single electronic device that employs electron conduction in a vacuum, gas or semiconductor.

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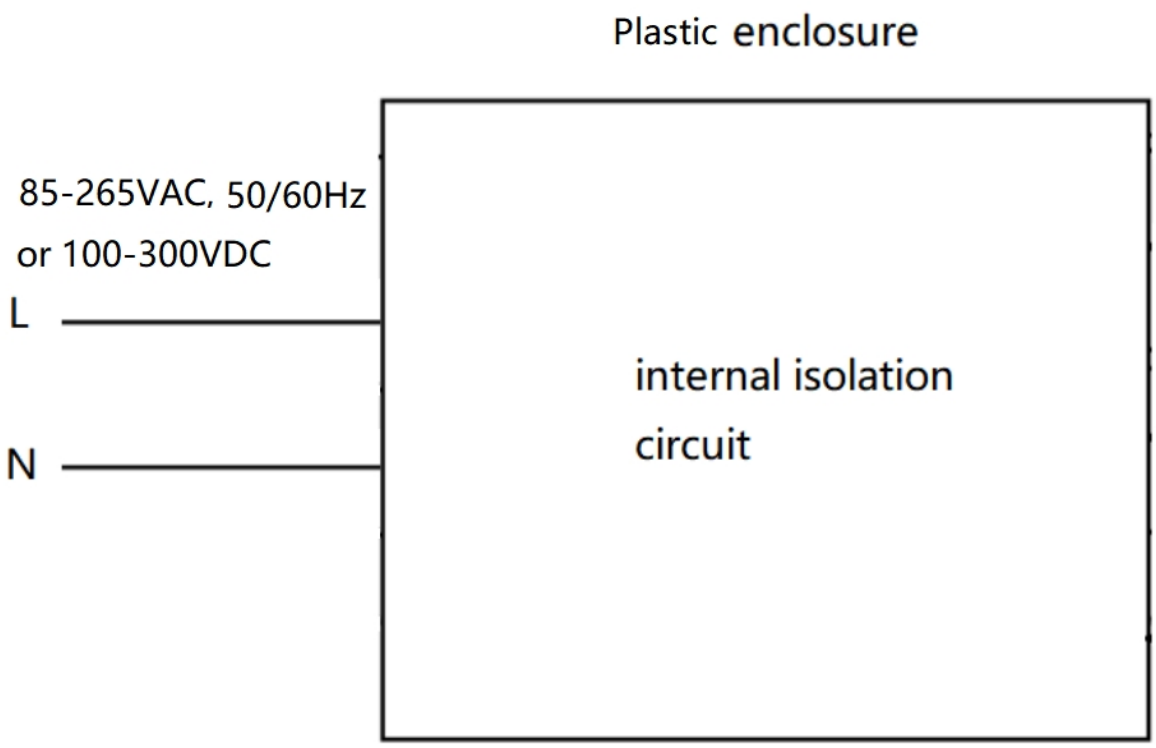
IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict

6.5.6	TABLE: Current- or voltage-limiting device						Form A.13	N/A
Component	Location	Measured		Rated		Verdict	Comments	
		Working voltage [V]	Current [A]	Working voltage [V]	Current [A]			
Supplementary information:								

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Clause	Requirement — Test	Result — Remark	Verdict

6.7	**TABLE: Insulation requirements - Block diagram of system -**	**Form A.14**	P



Pollution degree .....: PD2	Overvoltage category .....: OVC II

Area	Location	Insulation type (NOTE 1)	WORKING VOLTAGE			CLEARANCE (NOTE 3)	CREEPAGE DISTANCE (NOTE 3)				Test voltage (NOTE 2)	Comments (NOTE 3)
			RMS [V]	Peak [V]	Freq. [kHz]	[mm]	PWB [mm]	CTI	Other [mm]	CTI	[V]	
A	Conduct to enclosure	BI	265	--	0.06	1.5	--	--	3.0	IIIa/IIIb	1500Vac	--
B	Conduct to button	RI	265	--	0.06	3.0	--	--	6.0	IIIa/IIIb	3000Vac	--
C	Primary circuit to accessible enclosure	RI	265	--	0.06	3.0	--	--	6.0	IIIa/IIIb	3000Vac	--

NOTE 1 – Type of insulation:
BI = BASIC INSULATION
DI = DOUBLE INSULATION
PI = PROTECTIVE IMPEDANCE
RI = Reinforced INSULATION
SI = Supplementary INSULATION
see also Form A.15 for further details

NOTE 2 - Types of voltage
Peak impulse test voltage (pulse)
r.m.s.
d.c.
peak

NOTE 3 - OVERVOLTAGE CATEGORIES or POLLUTION DEGREES which differ should be shown under "Comments"

Supplementary Information: All transformer are identical.

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Clause	Requirement — Test	Result — Remark	Verdict

6.7	**TABLE: Insulation requirements - CLEARANCES and CREEPAGES**		**Form A.15**	P
6.2.2	Examination	6.5.4	Protective impedance	—
6.4.2	ENCLOSURES and protective barriers	6.5.6	Current- or voltage-limiting device	—
6.4.4	Impedance	9.6.1	BASIC INSULATION between opposite polarity	—

Area	Location (See Form A.14)	Insulation type (NOTE 1)	WORKING VOLTAGE (NOTE 2)			CLEARANCE		CREEPAGE DISTANCE		CTI	Verdict	Comments
			RMS [V]	Peak [V]	Frequency [kHz]	Required [mm]	Measured [mm]	Required [mm]	Measured [mm]			
A	Conduct to enclosure	Basic insulation	265	--	0.06	1.5	5.3	3.0	5.3	IIIa/IIIb	P	--
B	Conduct to button	Reinforced insulation	265	--	0.06	3.0	9.2	6.0	9.2	IIIa/IIIb	P	--
C	Primary circuit to accessible enclosure	Reinforced insulation	265	--	0.06	3.0	8.7	6.0	8.7	IIIa/IIIb	P	--

NOTE 1 – refer to Form A.14 for type of insulation shown in the insulation diagram NOTE 2 - to be used for definition of required insulation (see Form A.14)

Input supply voltage…….:	85-265	V	50/60	Hz

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Clause	Requirement — Test	Result — Remark	Verdict

6.7	**TABLE: Insulation requirements - CLEARANCES and CREEPAGES**		**Form A.16**	P
6.4.2	ENCLOSURES or PROTECTIVE BARRIERS	9.6.1	Overcurrent protection basic insulation between MAINS parts	—
8	Mechanical resistance to shock and impact	10.5.1	Integrity of CLEARANCES and CREEPAGE DISTANCES	—

Area	Location (See Form A.14)	Insulation type	Mechanical tests (NOTE)					Test at max.	Measured after test (if required)		Verdict	Comments
			Applied force [N]	Rigidity (8.2)		Drop (8.3)		RATED ambient (10.5.1)	CLEARANCE [mm]	CREEPAGE DISTANCE [mm]		
				Static (8.2.1)	Impact (8.2.2)	Normal (8.3.1)	Hand-held/ Plug-in					
A	Conduct to enclosure	BI	30	30N	5J	100mm	--	40°C	5.3	5.3	P	--
B	Conduct to button	RI	30	30N	5J	100mm	--	40°C	9.2	9.2	P	--
C	Primary circuit to accessible enclosure	RI	30	30N	5J	100mm	--	40°C	8.7	8.7	P	--

NOTE – Refer to Form A.18 for dielectric strength tests following the above tests.

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IEC 61010-1			
Clause	Requirement – Test	Result — Remark	Verdict

6.7.2.2.2	**TABLE: Reliability of potted components**	**Form A.17 (optional)**	N/A
14.1 b)	**Components and subassemblies**		

Temperature Cycling Test	
Manufacturer .....:	
Type .....:	
Construction .....:	
Potting compound .....:	
CREEPAGE DISTANCES measured .....:	
CLEARANCES measured .....:	
Thickness through insulation.....:	
Adhesive test Pass/Fail .....:	
Test temperature T °C.....:	

Cycles at U= AC 500 V				Leakage current (at AC 500 V) mA			
Number of cycles	Date			68 h / 125 °C	1 h / 25 °C	2 h / 0 °C	1 h / 25 °C
1. Cycle from		to					
2. Cycle from		to					
3. Cycle from		to					
4. Cycle from		to					
5. Cycle from		to					
6. Cycle from		to					
7. Cycle from		to					
8. Cycle from		to					

After Cycling Test :		
Humidity conditioning	48 h	
Requirements for dielectric strength (s. insulation diagram)	Test voltage V r.m.s.	Verdict
Basic insulation _____ V r.m.s.		
Supplementary insulation _____ V r.m.s.		
Reinforced insulation _____ V r.m.s.		
NOTE - to be used for evaluation of components containing insulation through solid insulation, when the component standard require thermal cycling test. Ref Clause 14.1 and Figure 15, option b)		
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Clause	Requirement — Test	Result — Remark	Verdict

6.8	**TABLE: Dielectric strength tests**	**Form A.18**	P
4.4.4.1 b)	Conformity after application of SINGLE FAULT CONDITIONS[1]		P
6.4	Primary means of protection[2]		P
6.6	Connections to external circuits		P
6.7	Insulation requirements[2] (see Annex K)		P
6.10.2	Fitting of non-detachable MAINS supply cords[1]		N/A
9.2 a) 2)	Eliminating or reducing the sources of ignition within the equipment		N/A
9.4 c)	Limited-energy circuit		N/A
9.6.1	Overcurrent protection basic insulation between MAINS - parts		N/A
	Test site altitude .....:	≤2000m	—
	Test voltage correction factor (see table 10).....:	1.0	—

Location or references from Forms A.1 and A.14	Clause or sub-clause	Humidity Yes/No	Working voltage [r.m.s./d.c.]	Test voltage [r.m.s./peak/d.c.]	Comments (NOTE)	Verdict
L/N to test Terminal	4.4.4.1 b) 6.4, 6.7	Yes	265V r.ms.	1500Vac (1min)	No breakdown	P
L/N to plastic enclosure	4.4.4.1 b) 6.4, 6.7	Yes	265V r.ms.	1500Vac (1min)	No breakdown	P

[1] Record the fault, test or treatment applied before the dielectric strength test. [2] Humidity preconditioning required.
NOTE: Test duration may be recorded.

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Clause	Requirement — Test	Result — Remark	Verdict

6.10.2	TABLE: Cord anchorage				Form A.19	N/A
Location	Mass [kg]	Pull [N]	Verdict	Torque [Nm]	Verdict	Comment
Dielectric strength test for 1 min. (6.8.3.1) .....:			V r.m.s.			
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Clause	Requirement — Test	Result — Remark	Verdict

7.	**TABLE: Protection against mechanical HAZARDS** **Form A.20**	N/A
7.3.4	Limitation of force and pressure	—
7.3.5	Gap limitations between moving parts	—

Part / Location	Clause 7.3.4		Clause 7.3.5.1								Clause 7.3.5.2			Verdict	Comments
	Continuous	Temporary	Minimum gaps [mm]								Maximum gaps [mm]				
	Contact pressure max. 50 N /cm² @ max. 150 N	max. 250 N / 3 cm² @ max. 0,75 s	Torso 500	Head 300	Leg 180	Foot 120	Toes 50	Arm 120	Hand 100	Finger 25	Head 120	Foot 35	Finger 4		
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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IEC 61010-1			
Clause	Requirement – Test	Result - Remark	Verdict
7.4	**TABLE: Stability**	**Form A.20A**	P
	Equipment height / mass	-- mm 0.249 kg	—
	Equipment (Containers) loaded	[~~yes~~ / no]no	—
	Castors at unfavourable position	[~~yes~~ / no]no	—
	Doors, drawers and movable arms closed	[~~yes~~ / no]no	—
	Doors and drawers at unfavourable position	[~~yes~~ / no]no	—

Location	Tilt angle	Applied force				Comments	Verdict
	10°	250 N	20% [N]	800 N	4 times load [N]		
Front side	P	—	—	—	—	Not overturned	P
Left side	P	—	—	—	—	Not overturned	P
Rear side	P	—	—	—	—	Not overturned	P
Right side	P	—	—	—	—	Not overturned	P
Top side	—	—	—	—	—		N/A
Working surface	—	—	—	—	—		N/A
Ledge	—	—	—	—	—		N/A
Castor / support foot	—	—	—	—	—		N/A
Castor / support foot removed	—	—	—	—	—		N/A

Supplementary information:

7.6	**TABLE: Wall mounting**	**Form A.20B**	P
	Equipment weight	0.249 kg	—
	Equipment mounted as specified by manufacturer	[yes / ~~no~~]	—
	Equipment mounted at plasterboard (drywall)	[yes / ~~no~~]	—
	More than one fastener used	[~~yes~~ / no]	—
	Test maintained (after 5 s to 10 s to full load)	1 min	—

Location	Applied weight		Comments	Verdict
	4 times weight [kg]	2 times weight [kg]		
Normal mounting	0.249*4	--	Not damage, not shedding.	P

Supplementary information:

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IEC 61010-1				
Clause	Requirement – Test	Result - Remark		Verdict
8.2	**TABLE: ENCLOSURE rigidity test**		**Form A.21A**	P
8.2.1	Static test			P
	Material of enclosure .....:	Plastic		—
	Preparation for the test:	Not required		—
	Operated at ambient temperature .....:	40 °C	7 h	—
Location		Comments		Verdict
1)Front enclosure		No hazard, no cracks		P
2)Side enclosure		No hazard, no cracks		P
3)Right enclosure		No hazard, no cracks		P
4)Left enclosure		No hazard, no cracks		P
Supplementary information:				
8.2.2	**TABLE: Impact test**			P
	Material of enclosure .....:	Plastic		—
	Corresponding IK-code .....:	IK08		—
	Preparation for the test:	Not required		—
	Cooled to (temperature) .....:	-10 °C		—
Location		Comments		Verdict
1) Top		No hazard, no cracks		P
2) Side left / right		No hazard, no cracks		P
3) Bottom		No hazard, no cracks		P
4)Rear		No hazard, no cracks		P
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IEC 61010-1			
Clause	Requirement – Test	Result - Remark	Verdict
8.3	**TABLE: Drop test**	**Form A.21B**	P
8.3.1	Other equipment		

Location	Raised up to		Comments	—
	[mm]	30 °		
1)Left	100	--	No damage	P
2)Right	100	--	No damage	P
3)Front	100	--	No damage	P
4)Rear	100	--	No damage	P

Supplementary information:

8.3.2	HAND-HELD EQUIPMENT and DIRECT PLUG-IN EQUIPMENT		N/A
	Material of enclosure .....:	Metal / non-metallic	—
	Preparation for the test:		—
	Cooled to (temperature) .....:	°C	—

Location	Comments	Verdict
1) Side		
2) Edge		
3) Corner		

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IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict

9	**TABLE: Protection against the spread of fire**		**Form A.22**	P
Item	Source of HAZARD or area of the equipment considered (circuit, component, liquid etc.)	Protection Method (9.1 a, b or c)	Protection details	Verdict
1)	All circuits	9a, 9c	PCB with V-0, components on PCB at least V-2 except small parts, V-0 enclosure	P
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IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict

9.3.2	**TABLE: Constructional requirements**	**Form A.23**	N/A
14.7	Printed wiring boards		

Material tested.....		—
Generic name:		—
Material manufacturer		—
Type:		—
Colour:		—
Conditioning details:		—

		Sample					
		1	2	3	4	5	6
Thickness of specimen	mm						
Duration of flaming after first Application	s						
Duration of flaming plus glowing After second application	s						
Specimen burns to holding clamp	Yes/No						
Cotton ignited	Yes/No						
Sample result	Pass/Fail						

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IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict

9.4	**TABLE: Limited-energy circuit**				**Form A.24**	N/A
Item or Location (see Form A.22)	9.4 a)	9.4 b) Current limitation (NOTE)		9.4 c)	Decision	Comments
	Maximum potential in circuit voltage r.m.s./d.c. [V]	Maximum available current [A]	Overload protection after 120 s [A]	Circuit separation	Yes/No	

NOTE – Maximum values see Tables 17 and 18 of IEC 61010-1

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IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict

9.5	TABLE: Requirements for equipment containing or using flammable liquids		Form A.25	N/A
Type of liquid	9.5 Flammable liquids			Verdict
	b) Quantity	c) Containment		
Supplementary information:				

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IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict

10.	**TABLE: Temperature Measurements** **Form A.26A**	P
10.1	Surface temperature limits – NORMAL CONDITION and / or SINGLE FAULT CONDITION	P
10.2	Temperature of windings – NORMAL CONDITION and / or SINGLE FAULT CONDITION	N/A
10.3	Other temperature measurements	P

Operating conditions:	Normal condition		
Frequency.....:	50 Hz	Test room ambient temperature (ta) ...:	25.0 °C
Voltage .....:	291.5 V	Test duration .....:	3 h 45 min

Part / Location	t_m [°C]	t_c [°C]	t_{max} [°C]	Verdict	Comments
AC terminal	26.2	46.2	125	P	--
PCB near DB1	30.4	45.4	130	P	--
PCB near IC1	28.9	43.9	130	P	--
U2	28.5	43.5	100	P	--
C1	29.8	44.8	125	P	--
T1 winding	35.2	50.2	110	P	--
T1 core	31.7	46.7	110	P	--
C3	30.2	45.2	105	P	--
PCB near U1	29.7	44.7	130	P	--
PCB near IC2	30.4	45.4	130	P	--
L2 winding	32.1	47.1	130	P	--
C10	29.4	44.4	105	P	--
PCB near IC6	32.0	47.0	130	P	--
PCB near U3	31.7	46.7	130	P	--
Switch surface	27.1	42.1	Ref.	P	--
Enclosure inside near power supply	26.8	41.8	Ref.	P	--
Enclosure outside near power supply	25.8	40.8	Ref.	P	--
Ambient	25.0	40.0	--	P	--

NOTE 1 - t_m = measured temperature
t_c = t_m corrected (t_m–t_a+ **40 °C** or max. RATED ambient)
t_{max} = maximum permitted temperature
NOTE 2 - see also 14.1 with reference to component operating conditions
NOTE 3 - Record values for NORMAL CONDITION and / or SINGLE FAULT CONDITION in this Form use additional form if necessary
NOTE 4 - see Form A.26B for details of winding temperature measurements

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IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict

10.2	**TABLE: Temperature of windings** **Form A.26B** **Resistance method Temperature Measurements**	N/A
4.4.2.7	MAINS transformers	
14.2.1	Motor temperatures	

Operating conditions ..:			
Frequency .....:	Hz	Test room ambient temperature (ta1/ta2) .:	/ °C (initial / final)
Voltage .....:	V	Test duration .....:	h min

Part / Designation	Rcold [Ω]	Rwarm [Ω]	Current [A]	t_r [K]	t_c [°C]	t_{max} [°C]	Verdict	Comments

NOTE 1- R_{cold} = initial resistance R_{warm} = final resistance
t_r = temperature rise t_c = t_r corrected (t_c= t_r + [40 °C or max RATED ambient])
t_{max} = maximum permitted temperature
NOTE 2 - Indicate insulation class (IEC 60085) under comments (optional)
NOTE 3 - Record values for NORMAL CONDITION and / or SINGLE FAULT CONDITION in this Form use additional form if necessary

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IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict
10.5.2	**TABLE: Resistance to heat of non-metallic ENCLOSURES** **Form A.27**		P
	Test method used:		—
	Non-operative treatment	[X]	P
	Empty ENCLOSURE	[ ]	N/A
	Operative treatment	[ ]	N/A
	Temperature during tests	70°C	—

Description	Material	Comments	Verdict
7 hours at temperature of 70°C	Plastic part	After treatment at 70°C for 7h, passed cl. 8.1.1, 8.2 & 6.8	P

Dielectric strength test (6.8).....:	1500	V	[r.m.s./~~peak/d.c.~~]	P

NOTE – Within 10 minutes of the end of treatment suitable tests in acc. to 8.2 and 8.3 must be conducted and pass criteria of 8.1.

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IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict

10.5.3	**TABLE: Insulating material**	**Form A.28**	N/A
10.5.3 1)	Ball-pressure test		N/A
	Max. allowed impression diameter.....:	2 mm	—

Part	Test temperature [°C]	Impression diameter [mm]	Verdict

Supplementary information:

10.5.3 2)	**Vicat softening test (ISO 306)**	**Form A.29**	N/A

Part	Vicat softening temperature [°C]	Thickness of sample [mm]	Verdict

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IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict
8	**TABLE: Mechanical resistance to shock and impact**	**Form A.30**	P
11	**Protection against HAZARDS from fluids and solid foreign objects**		P

Voltage tests can be carried out once after performing the tests of clause **8** and clause **11**. However, if voltage tests are carried out separately after each set of tests, two forms can be used.

Location (see Form A.14)	Clause 8 tests				Clause 11 tests				Working voltage [r.m.s./d.c.]	Test voltage [r.m.s./peak/d.c.]	Verdict	Comments
	Static (8.2.1) 30 N	Impact (8.2.2)	Normal (8.3.1)	Handheld Plug-in (8.3.2)	Cleaning (11.2)	Spillage (11.3)	Overflow (11.4)	IEC 60529 (11.6)				
Plastic enclosure	30N	5J	Test	--	--	--	--	--	265V r.m.s	1500Vac	P	No breakdown

NOTE – Use r.m.s., d.c. or peak to indicate the used test voltage.

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IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict

11.7.2	TABLE: Leakage and rupture at high pressure				Form A.31	N/A
Part	Maximum permissible working pressure [MPa]	Test pressure [MPa]	Leakage Yes / No	Deformation Yes / No	Burst Yes / No	Comments

NOTE – see also Annex G with requirements for USA and Canada.

Supplementary information:

11.7.3	TABLE: Leakage from low-pressure parts			Form A.32	N/A
Part	Test pressure [MPa]	Leakage Yes / No	Comments		

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IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict

12.2.1	**TABLE: Ionizing radiation**	**Form A.33**	N/A
12.2.1.2	Equipment intended to emit radiation		

Locations tested	Measured values [μSv/h]	Verdict	Comments

Supplementary information:

12.2.1.3	**Equipment not intended to emit radiation**	**Form A.34**	N/A
	Max. allowed effective dose rate at 100 mm……:	1 μSv/h	—

Locations tested	Measured values [μSv/h]	Verdict	Comments

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IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict

12.5.1	**TABLE: Sound level**	**Form A.35**	N/A

Locations tested	Measured maximum sound pressure level dB(A)	Calculated maximum sound power level
At operator's normal position and at bystanders' positions		
a)		
b)		
c)		
d)		
e)		
f)		

Supplementary information:

12.5.2	**TABLE: Ultrasonic pressure**	**Form A.36**	N/A

Locations tested	Measured values		Comments
	[dB]	[kHz]	
At operator's normal position			
At 1 m from the ENCLOSURE			
a)			
b)			
c)			
d)			
e)			

NOTE – No limit is specified at present, but a limit of 110 dB above the reference pressure value of 20 μPa is under consideration for applicable frequencies between 20 kHz and 100 kHz.

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IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict
13.2.2	**TABLE: Batteries and battery charging** **Form A.37**		N/A
	Battery load and charging circuit diagram:		
	Battery type .....:		—
	Battery manufacturer/model/catalogue No. .....:		—
	Battery ratings .....:		—
	Reverse polarity instalment test		

Single component failures	Verdict	
Component	Open circuit	Short circuit

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IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict

14.3	**TABLE: Overtemperature protection devices**	**Form A.38**	N/A

Reliability test

Component	Type (NOTE)	Verdict	Comments

NOTE:
NSR = non-self-resetting (10 times)
NR = non-resetting (1 time)
SR = self-resetting (200 times)

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IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict

4.4.2.7	**TABLE: MAINS transformer**			**Form A.39**	N/A
4.4.2.7.2	Short circuit				N/A
14.6	MAINS transformers tested outside equipment				N/A
Type .....:					—
Manufacturer .....:					—
Test in equipment					N/A
Test on bench					N/A
Test repeated inside equipment (see 14.6)					N/A
Optional – Insulation class (IEC 60085) of the lowest rated winding .....:					—
Winding identification		Transformer			
Type of Protector for winding (NOTE 1)					
Elapsed time					
Current, A primary					
secondary					
Winding temperature, °C primary					
(see NOTE 2) secondary					
Tissue paper / cheesecloth OK ? (Pass / Fail)					
Voltage tests (see NOTE 3)					
Primary to secondary	V r.m.s				
Primary to core	-- V				
Secondary to secondary	-- V				
Secondary to core	V r.m.s				
Verdict					

NOTE 1: Primary fuse - PF / ( ) A
Secondary fuse - SF / ( ) A
Overtemperature protection - OP / ( ) °C
Impedance protection - Z

NOTE 2: Indicate method of measurement - TC = with thermocouple
- R = resistance method
If resistance method is used, record resistance in cold and warm condition in Form A.26B.

NOTE 3: Record the voltage applied and the type of voltage (r.m.s. / d.c. / peak) and for results use NB = no breakdown or B = breakdown

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IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict

4.4.2.7	**TABLE: MAINS transformer**			**Form A.40**	N/A
4.4.2.7.3	Overload tests (for MAINS transformers)				N/A
14.6	MAINS transformers tested outside equipment				N/A
Type .....:					—
Manufacturer .....:					—
Test in equipment					N/A
Test on bench					N/A
Test repeated inside equipment (see 14.6)					N/A
Optional – Insulation class (IEC 60085) of the lowest rated winding .....:					—
Winding identification					
Type of Protector for winding (NOTE 1)					
Elapsed time					
Current, A primary					
secondary					
Winding temperature, °C primary					
(see NOTE 2) secondary					
Tissue paper / cheesecloth OK ? (Pass / Fail)					
Voltage tests (see NOTE 3)					
Primary to secondary	_____ V ____				
Primary to core	_____ V ____				
Secondary to secondary	_____ V ____				
Secondary to core	_____ V ____				
Verdict					

NOTE 1: Primary fuse - PF / ( ) A
Secondary fuse - SF / ( ) A
Overtemperature protection - OP / ( ) °C
Impedance protection - Z

NOTE 2: Indicate method of measurement TC = with thermocouple
R = resistance method
If resistance method is used, record resistance in cold and warm condition in Form A.26B.

NOTE 3: Record the voltage applied and the type of voltage (r.m.s. / d.c. / peak) and for results use NB = no breakdown or B = breakdown

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IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict

14.8	**TABLE: Circuits used to limit TRANSIENT OVERVOLTAGES**	**Form A.41**	N/A

Circuit / Designation	Overvoltage Category	MAINS voltage [V r.m.s.]	Test voltage [V]	t_m [°C]	t_c [°C]	t_{max} [°C]	Ignited Yes / No	Safely suppressed Yes / No	Properly functional Yes / No	Verdict	Comments

Test room ambient temperature:		°C

NOTE - t_m = measured temperature
t_c = t_m corrected (t_m–t_a+ **40 °C** or max. RATED ambient)
t_{max} = maximum permitted temperature
Conformity is checked by applying 5 positive and 5 negative impulses with the applicable impulse withstand voltage, spaced up to 1 min apart, from a hybrid impulse generator (see IEC 61180-1).

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IEC 61010-1			
Clause	Requirement – Test	Result — Remark	Verdict

Annex H	**TABLE: Qualification of conformal coating for protection against pollution**	**Form A.42**	N/A

Technical properties		
Manufacturer.....:		—
Type.....:		—
Meet requirements of ANSI / UL 746E.....:	[yes / no]	
Manufacturer declaration of coating material.:	[yes / no]	
Operating temperature of coating .....:	[ ] °C	
Comparative tracking index (CTI) .....:	[ ]	
Insulation resistance .....:	[ ] MΩ	
Dielectric strength .....:	[ ] V	
UV resistance (if required) .....:	[yes / no]	
Flammability rating.....:		
Preparation of the test specimens conducted:	[yes / no]	

Item	Test conditioning	Parameter	Td	Samples						Verdict	Comments
			h	1	2	3	4	5	6		
1	Cold		24								
2	Dry heat		48								
3	Rapid temp. change										
4	Damp heat		24								
5	Adhesion of coating	5 N									
	Visual inspection										
6	Humidity		48								
7	Insulation resistance	≥ 100 MΩ									
	Visual inspection										

NOTE Td = Test duration time

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IEC 61010-1			
Clause	Requirement – Test	Result — Remark	Verdict

	TABLE: Additional or special tests conducted	**Form A.43**	N/A
Clause and name of test	Test type and condition	Observed results	—
Supplementary information:			

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IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict

	TABLE 1.A: List of components and circuits relied on for safety					P
Unique component reference or location	Application/function	Manufacturer / trademark (NOTE 1)	Type / model	Technical data (NOTE 2)	Standard	Mark(s) of conformity evidence of acceptance (NOTE 3 and 4)
Front panel (transparent screen plastic and flip on terminal)	Protection	MITSUBISHI ENGINEERING-PLASTICS CORP	S-3000VR	V-2, Min 2mm thick, 115 ºC	C22.2 No. 0.17 UL94, UL746B	UL E41179
Material of enclosure	Housing	ZHEN JIANG CHI MEI CHEMICAL CO LTD	PC-6610	V-0, Min 2mm thick, 115 ºC	C22.2 No. 0.17 UL94, UL746B	UL E194560
Terminal block (J4,J13,J14)	Electrical connections	DEGSON TECHNOLOGY CO.,LTD.	DG125*yy	300VAC	UL 1059	UL E228872
Terminal block(J8)	Electrical connections	CIXI KAIFENG ELECTRONIC CO LTD	KF-25	300V	UL 1059	UL E305844
Plastic enclosure	Protection	ZHEN JIANG CHI MEI CHEMICAL CO LTD	PC-6610(f1)(a)	V-0, Minimum 1.5mm, 130°C	UL 94 UL 746B	UL E194560
PCB	Support components	Palwonn Electronics (Shenzhen) Co Ltd	M3	V-0, 130°C	UL 796 UL 746A	UL E230435
Varistor (RTV1)	Overvoltage protection	HUNAN JINYANG ELECTRIC CO LTD	MZ11-06D150-500RM/7D471	300V, -40~50°C, 860Vpk	UL 1449	UL E481249
X2 cap (#C4)	Safety capacitor	QI RONG ELECTRONIC TECHNOLOGY CO LTD	MKP	X2, Capacitance: 0.15UF, Rated Voltage: 310V	UL 60384-14	UL E492807
Capacitor (#C12)	Safety capacitor	Sichuan TRX Technology Co., Ltd.	TRX	Capacitance: 2.2nF, Rated Voltage: 400VAC	UL 60384-14	UL E315719

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IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict

	TABLE 1.A: List of components and circuits relied on for safety					P
Unique component reference or location	Application/function	Manufacturer / trademark (NOTE 1)	Type / model	Technical data (NOTE 2)	Standard	Mark(s) of conformity evidence of acceptance (NOTE 3 and 4)
Optocoupler(U2, U3, U5)	Electrical isolation	LITE-ON Technology Corporation	LTV-356T	Isolation voltage of 3750Vrms	UL 1577	UL E113898
Optocoupler(#U1)	Electrical isolation	EVERLIGHT ELECTRONICS CO LTD	EL1019	Isolation voltage of 5000Vrms	UL 1577	UL E214129
Transformer (#T1)	Electrical isolation	Qingzhou Hongrun Electronic Technology Co.,Ltd	EPC13	1442uH±10%	IEC 61010-1 EN 61010-1	Tested with appliance
-Bobbin	Support winding	CHANG CHUN PLASTICS CO.,LTD	T375HF	V-0, 150°C	UL 94 UL 746B	UL E59481
-Magnet wire	Electrical connections	HUBEI SHOUTONG MAGNET WIRE TECHNOLOGY CO.,LTD	xUEW/155	MW79-C,155°C	UL 1446	UL E362846
-Triple insulated wire	Electrical connections	SHANGHAI SURAN ELECTRONICS FACTORY	TIW-F*	155°C, Class F	UL 2353	UL E335392
-Tape	Electrical isolation	JINGJIANG JINGYI ADHESIVE PRODUCT CO.,LTD	JY25-A(b)	130°C	UL 510A	UL E246950
-Barrier tape	Electrical isolation	JINGJIANG JINGYI ADHESIVE PRODUCT CO.,LTD	WF310(a)	130°C	UL 510A	UL E246950

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IEC 61010-1			
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	TABLE 1.A: List of components and circuits relied on for safety					P
Unique component reference or location	Application/function	Manufacturer / trademark (NOTE 1)	Type / model	Technical data (NOTE 2)	Standard	Mark(s) of conformity evidence of acceptance (NOTE 3 and 4)
-Varnish	Electrical isolation	ZHEJIANG RONGTAI TECHNICAL INDUSTRY CO.,LTD	R-831-*	MW5-C,180°C	UL 1446	UL E227128
-Tube	Electrical isolation	NANTONG BAISILING NEW ENERGY TECHNOLOGY CO.,LTD.	TFL-201	150V, 200°C	UL 224	UL E341417

NOTE → 1 List all different manufacturers of the above components → 4 asterisk indicates mark assuring agreed level of surveillance
→ 2 May include electrical, mechanical values
→ 3 List licence no or method of acceptance

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Attachment 1: EU difference

IEC 61010_1L ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
ATTACHMENT TO TEST REPORT **IEC 61010-1:2010/AMD1:2016** **EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES** (Electrical Equipment For Measurement, Control, and Laboratory Use; Part1: General Requirements)			
Differences according to.....: EN 61010-1:2010/A1			
Attachment Form No. .....: According to OD-2020, Subclause 3.3.3 **Attachment Originator .....**: TÜV Rheinland LGA Products GmbH **Master Attachment** .....: Date 2019-12-05			
Copyright © 2017 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved.			
	CENELEC COMMON MODIFICATIONS (EN)		--
	Procedure for voltage tests		--
6.8.3.1	**The a.c. voltage test** *Replace the first sentence by the following sentence:* The voltage tester shall be capable of maintaining the test voltage throughout the test within +/- 5 % of the specified value.		P
Annex ZA (normative)	The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.		P
Annex ZZ (informative)	Relationship between this European standard and the safety objectives of Directive 2014/35/EU [2014 OJ L96] aimed to be covered		P

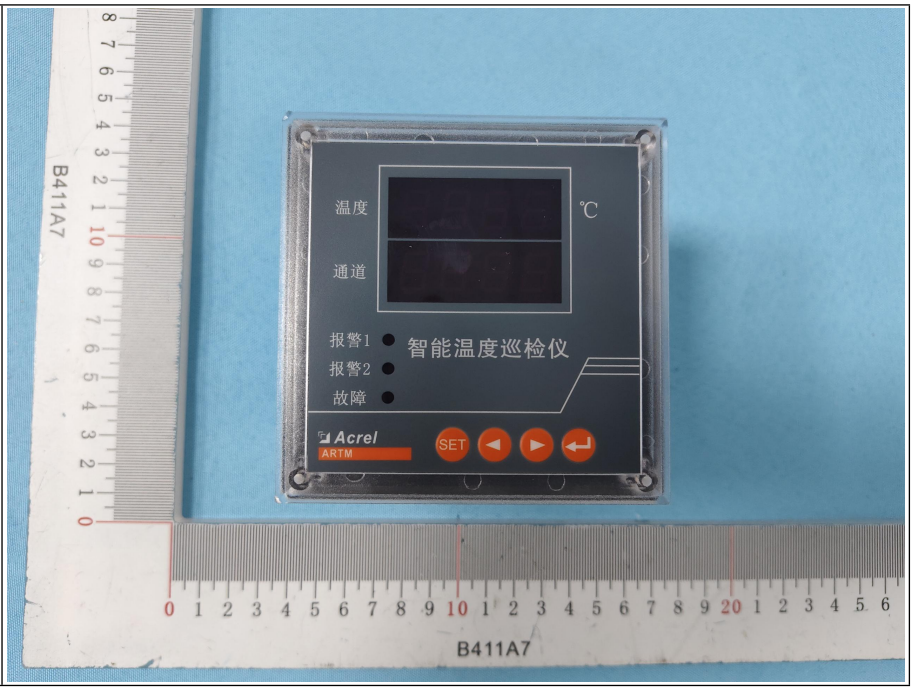
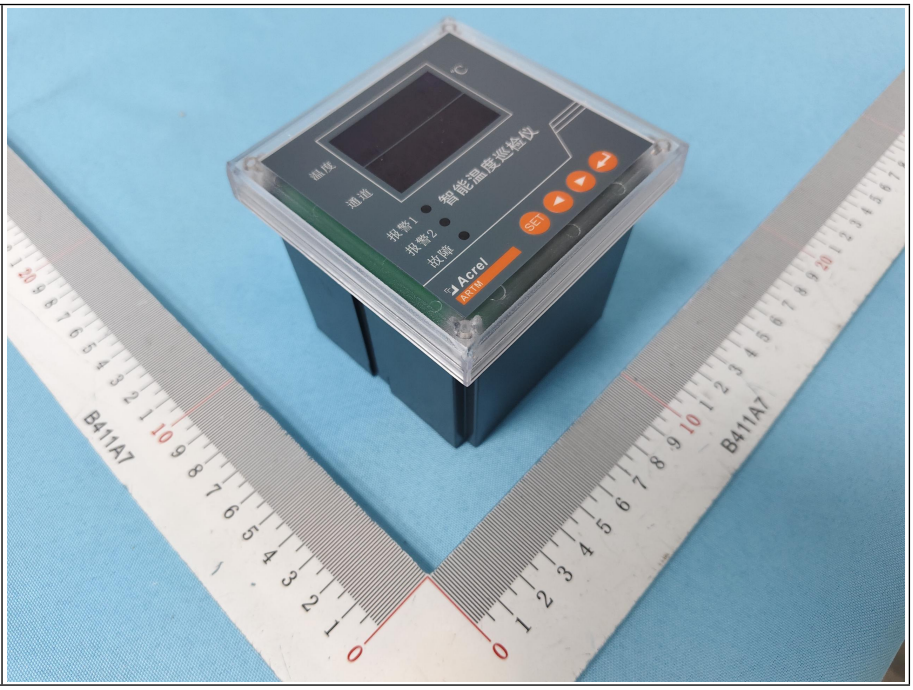
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Attachment 2: Photo documentation

Photo 1 **External**	
Photo 2 **External**	

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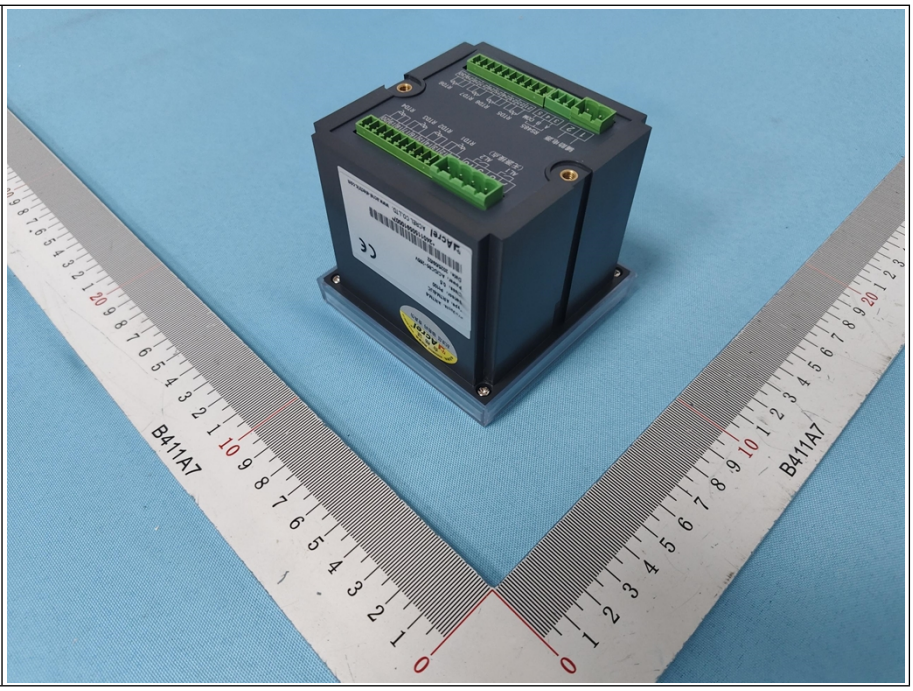
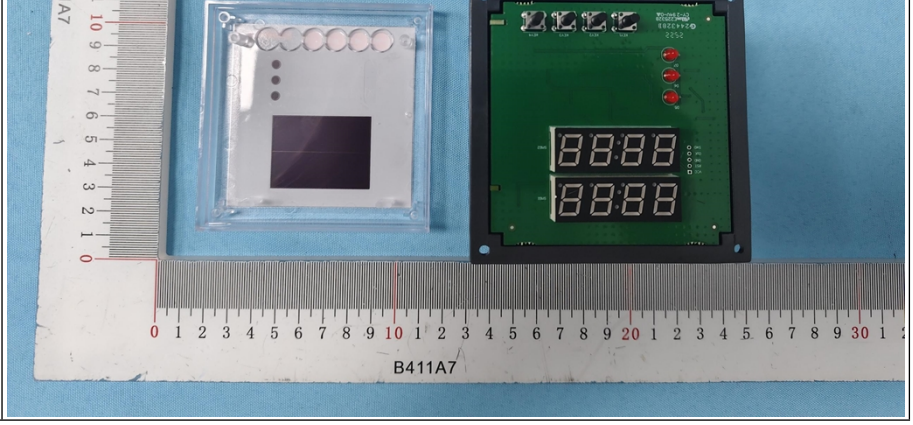
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Photo 4 **External**	

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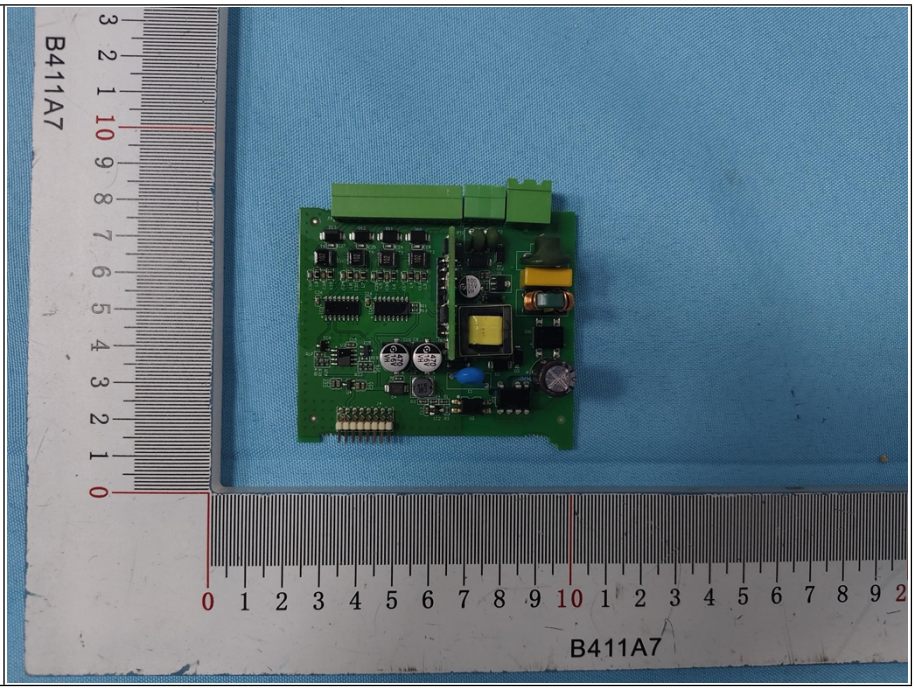
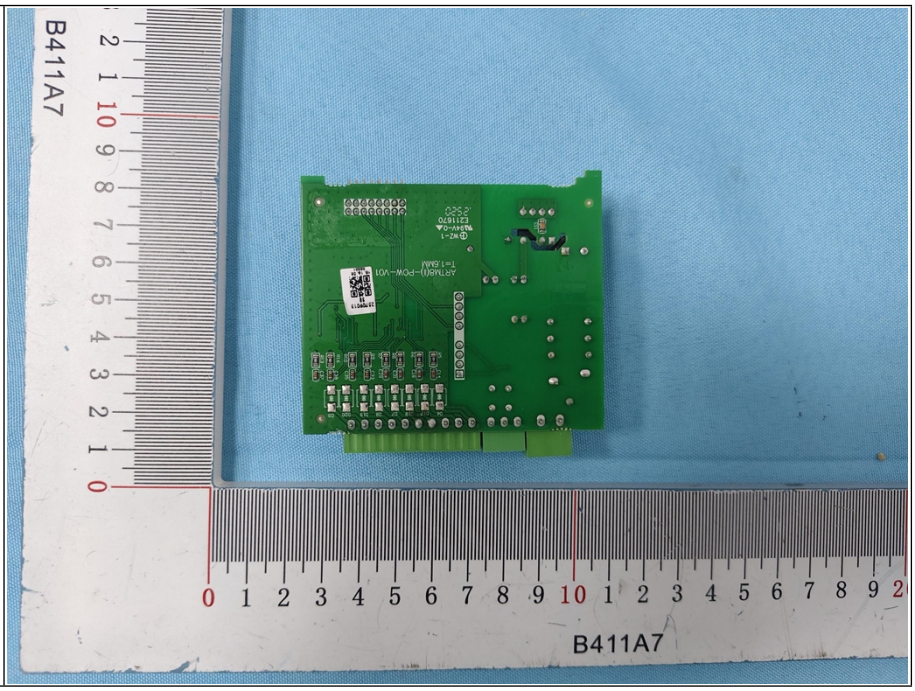
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Photo 6 **Internal**	

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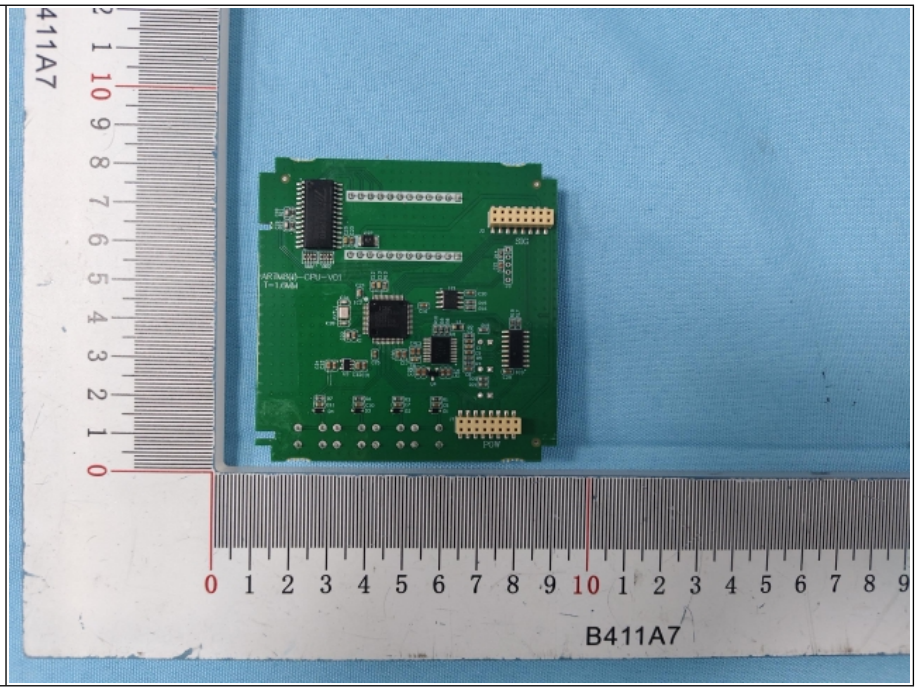
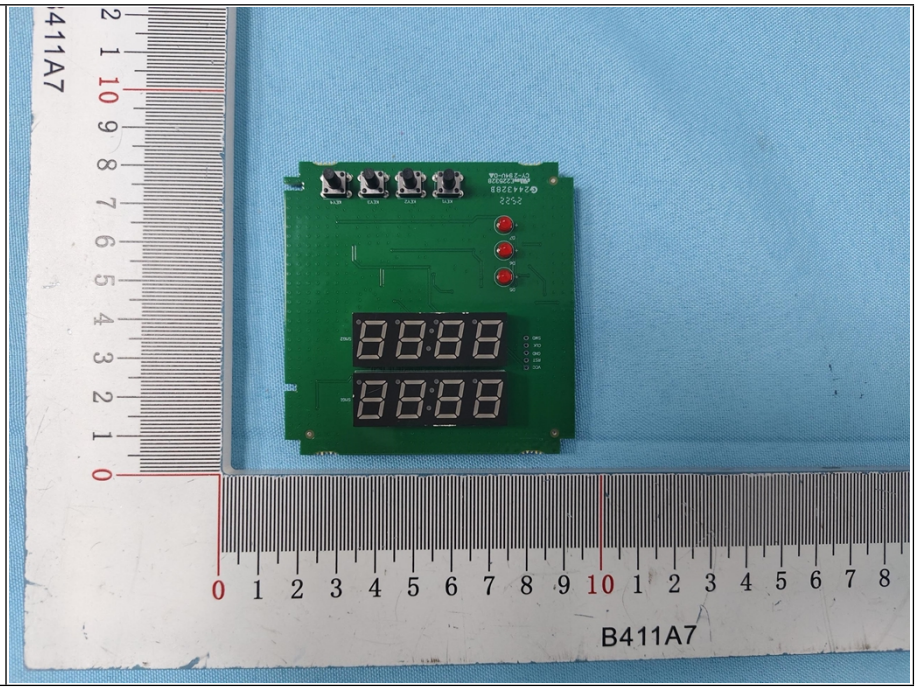
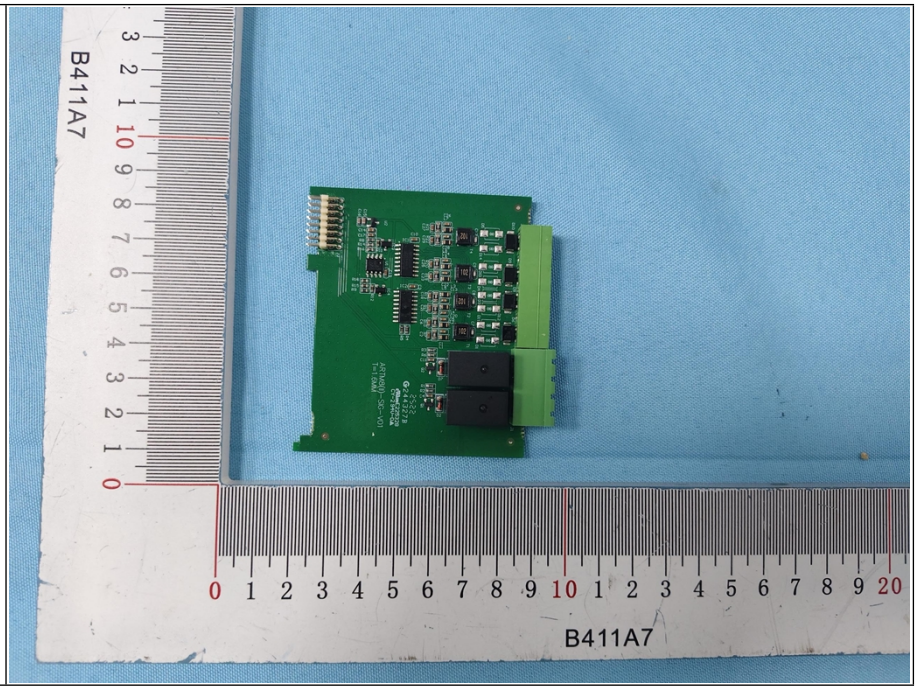
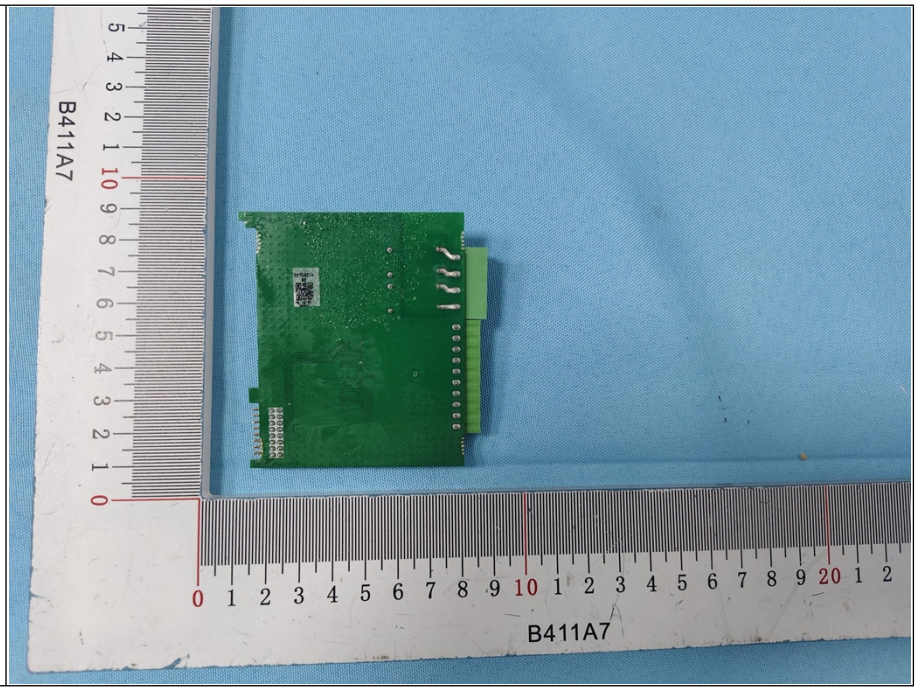
Photo 7 **Internal**	

Photo 8 **Internal**	

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Attachment 2: Photo documentation

Photo 9 **Internal**	
Photo 10 **Internal**	

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