

SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION Co., Ltd.

Test Verification of Conformity

Certificate No.: CTS18050188 R/C: 91844

Issued Date: May 24, 2018

In accordance with the following Applicable Directives:

Directive 2014/35/EU

Low Voltage Directive

The equipment, as described herewith, was tested pursuant to applicable test procedure and complies with the requirements of:

EN 61010-1:2010

The test results are traceable to the international or national standards.

Applicant: SHANGHAI PINYAN M&C TECHNOLOGY CO., LTD

Unit 55, No.2155, Lianhua south Road, Minhang District, Shanghai, China

Manufacturer: SHANGHAI PINYAN M&C TECHNOLOGY CO., LTD

Unit 55,No.2155, Lianhua south Road, Minhang District, Shanghai, China

EUT Name:	Rogowski Coil
Model number:	NRC-150
Listed Model <mark>(s</mark>):	See next page
Laboratory:	Shenzhen Huatongwei International Inspection Co., Ltd.
	Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, Guangdong, China
	Tel: 86-755-26748078 Fax: 86-755-26748089
	Http://www.szhtw.com.cn E-mail: cs@szhtw.com.cn

Note:

The certification is only valid for the equipment and configuration described, in conjunction with the test data detailed above. The CE mark as shown beside can be used, under the responsibility of the manufacturer, after completion of an EC Directive of Conformity and compliance with all relevant EC Directive.

For and on behalf of Shenzhen Huatongwei International Inspection Co., Ltd.

Authorized by:

(F

Caroline li







SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION Co., Ltd.

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(Attachment Page)

Certificate No.: CTS18050188 R/C: 91844

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Listed Model(s):

NRC-60、NRC-100、NRC-200、Y-FCT-200、Y-FCT-350、Y-FCT-510、Y-FCT-620、Y-FCT-800、FCT-420、FCT-510、FCT-620、FCT-800、MRC-16、MRC-24、MRC-36









TEST REPORT IEC/EN 61010-1 Safety requirements for electrical equipment for measurement, control, and laboratory use Part 1: General requirements				
Report Number:		R/C: 91844		
Tested by (name + signature):	Tank Lan	Tank Lan Terry Wen Caroline li		
Supervised by (name + signature):	Terry Wen	Terry Wen		
Approved by (name + signature):	Caroline Li	Caroline li		
Date of issue:	2018-05-24			
Testing Laboratory	Shenzhen HuaTongWe	i International Inspection Co., Ltd.		
Testing location/ address	Hongfa Hi-tech Industrial Shenzhen, Guangdong,	Park, Genyu Road, Tianliao, Gongming, China		
Applicant's name:	SHANGHAI PINYAN M8	C TECHNOLOGY CO.,LTD		
Address:	Unit 55,No.2155, Lianhua China	a south Road, Minhang District, Shanghai,		
Manufacturer's name:	Same as applicant			
Address	Same as applicant			
Test specification:				
Standard	🗌 IEC 61010-1:2010 (Th	ird Edition)		
	🔀 EN 61010-1:2010			
Test procedure:	Test report			
Non-standard test method:	N/A			
Test Report Form No:	IEC61010_1J			
Test Report Form(s) Originator:	VDE Testing and Certific	ation Institute		
Master TRF	2013-11			
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acknowledged as copyright owner and	source of the material. IE	ommercial purposes as long as the IECEE is CEE takes no responsibility for and will not ation of the reproduced material due to its		
Test item description:	Rogowski Coil			
Trade Mark:				
Model/Type reference:	Test model: NRC-150			
		NRC-100, NRC-200, Y-FCT-200, Y-FCT-350 Y-FCT-800, FCT-420, FCT-510, FCT-620 C-24, MRC-36		
Ratings	CAT III 1000V, CAT IV 6	600V		

Summary of testing:	
Tests performed:	Testing location:
The sample(s) tested complies with the requirements of the standard(s).	Co., Ltd.
The EUTs (equipments under test) passed all relevant tests.	Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, Guangdong, China
Summary of compliance with National Difference	s:
N/A	
Copy of marking plate:	
	TPOI®
MEA	RICAL
ROGOV	VSKI COIL
	C-150
CAT II	I 1000V
CATI	V 600V
	E

Test item particulars:	
Type of item:	Laboratory
Description of equipment function:	The system is an in vitro diagnostic (IVD) medical equipment, used for detecting current
Connection to MAINS supply:	Detachable power supply cord
Overvoltage category	OVC II
Pollution degree	2
Means of protection:	Class I
Environmental conditions	Extended (Specify): -25°C-55°C; RH: 5%-95%, altitude below 2000 meters
For use in wet locations:	No
Equipment mobility:	Portable
Operating conditions	Continuous
Overall size of equipment (size B):	150mm
Mass of equipment (kg):	0.28kg
Marked degree of protection to IEC 60529	N/A, Ordinary equipment
Altitude during operation (m)	Up to 2000
Altitude of test laboratory (m)	Less than 500
Possible test case verdicts:	
- Test case does not apply to the test object :	N/A (Not Applicable)
- Test object does meet the requirement:	P (Pass)
- Test object does not meet the requirement :	F (Fail)
Testing:	
Date of receipt of test item:	2018-05-10
Date (s) of performance of tests:	2018-05-10 to 2018-05-21
General remarks:	
The test results presented in this report relate only to the This report shall not be reproduced, except in full, without (and Except a subject of the subje	ut the written approval of the issuing testing laboratory.

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

"(see Form A.xx)" refers to a table appended to the report. Bottom lines for measurement tables Form A.xx are optional if used as record.

Throughout this report a \Box comma / \boxtimes point is used as the decimal separator.

General product information	:		
-	Y-FCT-800、FC	:-60、NRC-100、NRC-200、Y-FCT-200、Y CT-420、FCT-510、FCT-620、FCT-800、N c (IVD) medical equipment.	
2. The all models are identical	to each except f	for coil size.	
	·		
Abbreviations used in the rep	port:		
- normal conditions	N.C.	- single fault conditions	S.F.C
- functional insulation	OP	- basic insulation	BI
- double insulation	DI	 supplementary insulation 	SI
 between parts of opposite polarity 	вор	- reinforced insulation	RI
- · · · · · · · · · · · · · · · · · · ·			
Indicate used abbreviations	(if any)		
_			

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IEC/EN 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict
4	TESTS		N/A
4.4	Testing in SINGLE FAULT CONDITIONS		N/A
4.4.1	Fault tests	(see Form A.1)	N/A
4.4.2	Application of SINGLE FAULT CONDITIONS		N/A
4.4.2.1	SINGLE FAULT CONDITIONS not covered by 4.4.2.2 to 4.4.2.14	(see Form A.1)	—
4.4.2.2	PROTECTIVE IMPEDANCE		N/A
4.4.2.3	PROTECTIVE CONDUCTOR	(see Form A.6)	N/A
4.4.2.4	Equipment or parts for short-term or intermittent operation		N/A
4.4.2.5	Motors		—
	 stopped while fully energized 		N/A
	 prevented from starting 		N/A
	- one phase interrupted (multi-phase)		N/A
4.4.2.6	Capacitors	No such capacitors	N/A
4.4.2.7	MAINS transformers		N/A
4.4.2.7.2	Short circuit	(see Form A.39)	N/A
4.4.2.7.3	Overload	(see Form A.26B and A.40)	N/A
4.4.2.8	Outputs		N/A
4.4.2.9	Equipment for more than one supply		N/A
4.4.2.10	Cooling	(see Form A.26A)	N/A
	– air holes closed		N/A
	 – fans stopped 		N/A
	 – coolant stopped 		N/A
	 loss of cooling liquid 		N/A
4.4.2.11	Heating devices		N/A
	- timer overridden		N/A
	- temperature controller overridden		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	(see Form A.1)	—
4.4.4	Conformity after application of fault conditions	(see Form A.1; A.6, A.18)	N/A

5	MARKING AND DOCUMENTATION	Р
5.1.1	Required equipment markings	—
	 visible from the exterior; or 	Р
	 visible after removing cover or opening door 	N/A

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Clause	Requirement — Test Result — Remark	Verdict
	- visible after removal from a rack or panel	N/A
	Not put on parts which can be removed by an operator	Р
	Letter symbols (IEC 60027) used	N/A
	Graphic symbols (IEC 61010-1: Table 1) used	N/A
5.1.2	Identification	Р
	Equipment is identified by:	—
	a) Manufacturer's or supplier's name or trademark	P
	b) Model number, name or other means NRC-150	Р
	Manufacturing location identified	Р
5.1.3	MAINS supply	N/A
	Equipment is marked as follows:	—
	a) Nature of supply:	_
	1) a.c. RATED MAINS frequency or range of frequencies See marking plate	—
	2) d.c. with symbol 1	—
	b) RATED supply voltage(s) or range	—
	c) Max. RATED power (W or VA) or input current	—
	The marked value not less than 90 % of the (see Form A.2) maximum value	N/A
	If more than one voltage range:	—
	Separate values marked; or	N/A
	Values differ by less than 20 % (see Form A.2)	N/A
	 d) OPERATOR-set for different RATED supply voltages: 	—
	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
	 Accessory MAINS socket-outlets accepting standard MAINS plugs are marked: 	—
	With the voltage if it is different from the MAINS su	—
	For use only with specific equipment	N/A
	If not marked for specific equipment it is marked with:	
	The maximum rated current or power; or	N/A
	Symbol 14 with full details in the documentation	N/A
5.1.4	Fuses	N/A

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Clause	Requirement — Test	Result — Remark	Verdict
	Operator replaceable fuse marking (see also 5.4.5)		_
5.1.5	TERMINALS, connections and operating devices		N/A
5.1.5.1	General		
	Where necessary for safety, indication of purpose of TERMINALS, connectors, controls and indicators marked		N/A
	If insufficient space, symbol 14 used		N/A
	Push-buttons and actuators of emergency stop devices and indicators:		
	 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):		—
	 to safety of persons; or 		N/A
	 – safety of the environment 		N/A
5.1.5.2	TERMINALS		
	MAINS supply TERMINAL identified		N/A
	Other TERMINAL marking:		—
	a) FUNCTIONAL EARTH TERMINALS (symbol 5 used)		N/A
	b) PROTECTIVE CONDUCTOR TERMINALS:		
	Symbol 6 is placed close to or on the TERMINAL; or		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		N/A
	Standard MAINS socket outlet; or		N/A
	RATINGS marked; or		N/A
	Symbol 14 used		N/A
5.1.6	Switches and circuit breakers		N/A
	If disconnecting device, off position clearly marked		N/A
	If push-button used as power supply switch:		
	 – symbol 9 and 15 used for on-position 		N/A
	- symbol 10 and 16 used for off-position		N/A
	- 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

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Clause	Requirement — Test	Result — Remark	Verdict
	Protected throughout (symbol 11 used)		N/A
	Only partially protected (symbol 11 not used)		N/A
5.1.8	Field-wiring TERMINAL boxes		N/A
	If TERMINAL OF ENCLOSURE exceeds 60 °C:	(see Form A.26A)	_
	Cable temperature RATING marked		_
	Marking visible before and during connection or beside TERMINAL		N/A
5.2	Warning markings		N/A
	Visible when ready for NORMAL USE		N/A
	Are near or on applicable parts		N/A
	Symbols and text correct dimensions and colour:		_
	a) symbols min 2,75 mm and text 1,5 mm high and contrasting in colour with background		N/A
	 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		N/A
	Statement to isolate or disconnect if access by using a tool to HAZARDOUS LIVE parts is permitted		N/A
5.3	Durability of markings		N/A
	The required markings remain clear and legible in NORMAL USE	(see Form A.3)	N/A
5.4	Documentation		Р
5.4.1	General		Р
	Equipment is accompanied by documentation for safety purposes for OPERATOR or RESPONSIBLE BODY		Р
	Safety documentation for service personnel authorized by the manufacturer		Р
	Documentation necessary for safe operation is provided in printed media or		Р
	in electronic media if available at any time		N/A
	Documentation includes:	User manual	_
	a) intended use		Р
	b) technical specification		Р
	c) name and address of manufacturer or supplier		Р
	d) information specified in 5.4.2 to 5.4.6		Р
	e) information to mitigate residual RISK (see also subclause 17)		Р
	f) accessories for safe operation of the equipment specified		N/A

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	IEC/EN 01010-1	T	
Clause	Requirement — Test	Result — Remark	Verdict
	 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 		Р
	h) instructions for lifting and carrying		Р
	Warning statements and a clear explanation of warning symbols:		—
	- provided in the documentation; or		Р
	 information is marked on the equipment 		Р
5.4.2	Equipment ratings		Р
	Documentation includes:		—
	a) Supply voltage or voltage range		—
	Frequency or frequency range		—
	Power or current rating		—
	b) Description of all input and output connections in accordance to 6.6.1 a)		N/A
	c) RATING of insulation of external circuits in accordance to 6.6.1 b)		N/A
	d) Statement of the range of environmental conditions (see 1.4)	Temperature: -25°C~55°C; RH: 5%-95%, altitude below 2000 meters	Р
	e) Degree of protection (IEC 60529)	Ordinary equipment	N/A
	f) If impact rating less than 5 J:		
	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
5.4.3	Equipment installation	User manual provided	Р
	Documentation includes instructions for:		
	a) assembly, location and mounting requirements		Р
	b) protective earthing		N/A
	c) connections to supply		Р
	d) PERMANENTLY CONNECTED EQUIPMENT:		—
	1) Supply wiring requirements		N/A
	2) If external switch or circuit-breaker, requirements and location recommendation		N/A
	e) ventilation requirements		Р
	f) special services (e. g. air, cooling liquid)		Р
	g) instructions relating to sound level		N/A
5.4.4	Equipment operation	User manual provided	Р
	Instructions for use include:		_

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Clause	Requirement — Test	Result — Remark	Verdict
	a) identification and description of operating controls		Р
	b) positioning for disconnection		Р
	c) instructions for interconnection		Р
	d) specification of intermittent operation limits		N/A
	e) explanation of symbols used		Р
	f) replacement of consumable materials		N/A
	g) cleaning and decontamination		Р
	 h) listing of any poisonous or injurious gases and quantities 		N/A
	 RISK reduction procedures relating to flammable liquids (see 9.5) 	No flammable liquids used in equipment	N/A
	 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		Р
5.4.5	Equipment maintenance and Service	User manual provided	Р
	Instructions for RESPONSIBLE BODY include:		—
	Instructions sufficient in detail permitting safe maintenance and inspection and continued safety:		—
	Instruction against the use of detachable MAINS supply cord with inadequate rating		N/A
	Specific battery type of user replaceable batteries		N/A
	Any manufacturer specified parts		Р
	Rating and characteristics of fuses		N/A
	Instructions include following subjects permitting safe servicing and continued safety:		—
	a) product specific RISKS may affect service personnel		N/A
	b) protective measures for these RISKS		N/A
	c) verification of the safe state after repair		N/A
5.4.6	Integration into systems or effects resulting from special conditions		N/A
	Aspects described in documentation		N/A

6	PROTECTION AGAINST ELECTRIC SHOCK		Р
6.1	General	(see Form A.14 and A.15)	Р
6.1.1	Requirements		Р
	Protection against electric shock maintained in NORMAL CONDITION and SINGLE FAULT CONDITION		N/A

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Clause	Requirement — Test	Result — Remark	Verdict
	ACCESSIBLE parts not HAZARDOUS LIVE		N/A
	Voltage, current, charge or energy below the limits in NORMAL CONDITION and in SINGLE FAULT CONDITION between:		-
	ACCESSIBLE parts and earth		N/A
	two ACCESSIBLE parts on same piece of the equipment within a distance of 1,8 m		Р
	Conformity is checked by the determination of 6.2 and 6.3 followed by the tests of 6.4 to 6.11		Р
6.1.2	Exceptions		N/A
	Following HAZARDOUS LIVE parts may be ACCESSIBLE to an OPERATOR:		—
	 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	(see Form A.5)	N/A
	Capacitance test if charge is received from internal capacitor	(see Form A.4 and A.5)	N/A
6.2	Determination of ACCESSIBLE parts	(see Form A.4)	Р
6.2.1	General		Р
	Unless obviously determination of ACCESSIBLE parts as specified in 6.2.2 to 6.2.4		Р
6.2.2	Examination		Р
	- with jointed test finger (as specified B.2)		Р
	 – with rigid test finger (as specified B.1) and a force of 10 N 		Р
6.2.3	Openings above parts that are HAZARDOUS LIVE	No opening above hazardous live parts	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	No such controls	N/A
	 test pin with length of 100 mm and 3 mm in diameter applied 		N/A
6.3	Limit values for ACCESSIBLE parts		N/A
6.3.1	Levels in NORMAL CONDITION	(see Form A.5)	
	a) Voltage limits less than 33 V r.m.s. and 46,7 V peak or 70 V d.c.		N/A
	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:		

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Clause	Demiroment Test	Decult Demorts	Vardiat
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 		N/A
	for WET LOCATIONS measuring circuit A.4 used		N/A
	70 mA r.m.s. when measured with circuit A.3 for higher frequencies		N/A
	or		—
	c) Levels of capacitive charge or energy less:		
	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	(see Form A.6)	
	 a) Voltage limits less than 55 V r.m.s. and 78 V peak or 140 V d.c. 		N/A
	for WET LOCATIONS voltage limits less than 33 V r.m.s. and 46,7 V peak or 70 V d.c.		N/A
	Voltages are not HAZARDOUS LIVE the levels of:		
	 b) Current less than 3,5 mA r.m.s. for sinusoidal, 5 mA peak non-sinusoidal or mixed frequencies or 15 mA d.c. when measured with measuring circuit A.1 or A.2 if less than 100 Hz 		N/A
	for WET LOCATIONS measuring circuit A.4 used		N/A
	500 mA r.m.s. when measured with circuit A.3 for higher frequencies		N/A
	or		
	c) Levels of capacitive charge or energy less line B of Figure 3		N/A
6.4	Primary means of protection		Р
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)		Р
	b) BASIC INSULATION (see 6.4.3)		Р
	c) Impedance (see 6.4.4)		N/A
6.4.2	ENCLOSURES OF PROTECTIVE BARRIERS	(see Form A.15 and A.16)	
	- meet rigidity requirements of 8.1		Р
	 meet requirements for BASIC INSULATION, if protection is provided by insulation 		Р
	 meet requirements of 6.7 for CREEPAGE and CLEARANCES between ACCESSIBLE parts and HAZARDOUS live parts, if protection is provided by limited access 		Ρ

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Clause	Requirement — Test	Result — Remark	Verdict
6.4.3	BASIC INSULATION	(see Form A.15 and A.16)	
	 meet CLEARANCE, CREEPAGE DISTANCE and solid insulation requirements of 6.7 		Р
6.4.4	Impedance	(see Form A.12 and A.15)	_
	Impedance used as primary means of protection meets all of following requirements:		_
	a) limits current or voltage to level of 6.3.2	(see Form A.6)	N/A
	b) RATED for maximum WORKING VOLTAGE and the amount of power it will dissipate		N/A
	c) CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of BASIC INSULATION of 6.7	(see Form A.15)	N/A
6.5	Additional means of protection in case of SINGLE FAULT CONDITION		Р
6.5.1	ACCESSIBLE parts are prevented from becoming HAZARDOUS live by the primary means of protection and supplemented by one of:		
	a) PROTECTIVE BONDING (see 6.5.2)		N/A
	b) SUPPLEMENTARY INSULATION (see 6.5.3)		Р
	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:		_
	e) REINFORCED INSULATION (see 6.5.3)		Р
	f) PROTECTIVE IMPEDANCE (see 6.5.4)		N/A
6.5.2	PROTECTIVE BONDING	(see Form A.7, A.8, A.9, A.10 or A.11)	N/A
6.5.2.1	ACCESSIBLE conductive parts, may become HAZARDOUS LIVE in SINGLE FAULT CONDITION:		
	Bonded to the PROTECTIVE CONDUCTOR TERMINAL; or		N/A
	Separated by conductive screen or barrier bonded to PROTECTIVE CONDUCTOR TERMINAL		N/A
6.5.2.2	Integrity of PROTECTIVE BONDING		—
	 PROTECTIVE BONDING consists of directly connected structural parts or discrete conductors or both; and withstands thermal and dynamic stresses 		N/A
	b) Soldered connections:		
	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; or		N/A

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Clause	Requirement — Test	Result — Remark	Verdict
	exempted as removable part carries MAINS SUPPLY input connection		N/A
	e) Any movable 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
	Impedance meets 6.5.2.4		N/A
	 h) Protective conductors bare or insulated, if insulated, green/yellow 		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		—
	a) Contact surfaces are metal		N/A
	b) Appliance inlet used		N/A
	c) For rewirable 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:		—
	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	(see Form A.7)	N/A
	f) If plug-in, makes first and breaks last		N/A
	 g) If also used for other bonding purposes, PROTECTIVE CONDUCTOR: 		—
	Applied first;		N/A
	Secured independently;		N/A
	Unlikely to be removed by servicing		N/A
	h) PROTECTIVE CONDUCTOR of measuring circuit:		—
	 Current RATING equivalent to measuring circuit TERMINAL; 		N/A

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Clause	Requirement — Test	Result — Remark	Verdict
	2) PROTECTIVE BONDING: not interrupted by any		N/A
	switch or interrupting device		N/A
	i) FUNCTIONAL EARTH TERMINALS allow independent connection		IN/A
	 j) If a binding screw used for PROTECTIVE CONDUCTOR TERMINAL: 		—
	Suitable size for bond wire		N/A
	Not smaller than M 4		N/A
	At least 3 turns of screw engaged		N/A
	Passes tightening torque test	(see Form A.8)	N/A
	 k) Contact pressure not capable being reduced by deformation of materials 		N/A
6.5.2.4	Impedance of PROTECTIVE BONDING of plug- connected equipment	(see Form A.9)	
	Impedance between PROTECTIVE CONDUCTOR TERMINAL and each ACCESSIBLE part where PROTECTIVE BONDING is specified, is:		_
	– 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	(see Form A.10)	—
6.5.2.6	Transformer PROTECTIVE BONDING screen	(see Form A.11)	
	Transformer provided with screen for PROTECTIVE BONDING:		_
	screen bonding consists of directly connected structural parts or discrete conductors or both; and withstands thermal and dynamic stresses (see 6.5.2.2 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 and REINFORCED INSULATION		N/A
	Meet CLEARANCE, CREEPAGE DISTANCE and solid insulation requirements of 6.7		N/A
6.5.4	PROTECTIVE IMPEDANCE	(see Form A.12)	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
	CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of DOUBLE OR REINFORCED INSULATION of 6.7	(see Form A.15)	N/A
	The PROTECTIVE IMPEDANCE consists of one or more of the following:	(see TABLE 1 and Form A.12)	—

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Clause	Requirement — Test	Result — Remark	Verdict
	a) appropriate single component suitable for safety and reliability for protection, it is:		—
	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 as PROTECTIVE 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 devices	(see Form A.12)	N/A
	Device complies with all of:		
	a) RATED to limit the current or voltage to the level of 6.3.2	(see Form A.6)	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	(see Form A.14, A.15)	N/A
6.6	Connections to external circuits		N/A
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		N/A
	– the equipment		N/A
	Protection achieved by separation of circuits; or		N/A
	short circuit of separation does not cause a HAZARD		N/A
	Instructions or markings for each terminal include:		—
	a) RATED conditions for TERMINAL		N/A
	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	(see Form A.5)	N/A
6.6.3	Circuits with terminals which are HAZARDOUS LIVE	No such terminals	N/A
	These circuits are:		
	Not connected to ACCESSIBLE conductive parts; or		N/A

Clause	Requirement — Test	Result — Remark	Verdict
	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:		
	- 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		N/A
6.7	Insulation requirements		N/A
6.7.1	The nature of insulation		_
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		N/A
6.7.1.2	CLEARANCES		
	Required CLEARANCES reflecting factors of 6.7.1.1	(see Form A.14 and A.15)	N/A
	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		
	Required CREEPAGE DISTANCES reflecting factors of 6.7.1.1 a) to d)	(see Form A.14 and A.15)	N/A
	CTI material group reflected by requirements	IIIb	N/A
	CTI test performed		N/A
6.7.1.4	Solid insulation		—
	Required solid insulation reflecting factors of 6.7.1.1 a) to d)	(see Form A.14 and A.15)	N/A
6.7.1.5	Requirements for insulation according to type of circuit	(see Form A.14 and A.15)	—
	a) 6.7.2 MAINS circuits of OVERVOLTAGE CATEGORY II up to nominal supply voltage of 300 V		N/A
	 b) 6.7.3 secondary circuits separated from circuits defined in a) by transformer 		N/A
	c) K.1 MAINS circuits of OVERVOLTAGE CATEGORY III and IV or OVERVOLTAGE CATEGORY II over 300 V		N/A
	d) K.2 secondary circuits separated from circuits defined in c) by transformer		N/A
	e) K.3 circuits having one or more of:		_
	1) maximum TRANSIENT OVERVOLTAGE is limited to known level below the level of MAINS CIRCUIT		N/A

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Clause	Requirement — Test	Result — Remark	Verdict
	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
	 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 CATEGORY II with a nominal supply voltage up to 300 V		N/A
6.7.2.1	CLEARANCES and CREEPAGE DISTANCES	(see Form A.14 and A.15)	—
	Values for MAINS CIRCUITS of Table 4 are met		N/A
	Coatings to achieve reduction to POLLUTION DEGREE 1 comply with requirements of Annex H		N/A
6.7.2.2	Solid insulation		—
6.7.2.2.1	Withstands electrical and mechanical stresses in normal use and all RATED environmental conditions of 1.4		Р
	Equipment passed voltage tests of 6.8.3 with values of Table 5	(see Form A.18)	Р
	Complies as applicable:		—
	a) ENCLOSURE or PROTECTIVE BARRIER of Clause 8		Р
	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		—
	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 insulating layers of printed wiring boards		—
	Separated by at least 0,4 mm between same two layers		N/A
	REINFORCED INSULATION have adequate electric strength; one of following methods used:		—
	a) thickness of insulation is 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

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Clause	Requirement — Test	Result — Remark	Verdict
6.7.2.2.4	Thin-film insulation		_
	Conductors between same two layers are separated by applicable CLEARANCES and CREEPAGE DISTANCE of 6.7.2.1		N/A
	REINFORCED INSULATION have adequate electric strength; one of following methods used:		_
	a) thickness through the insulation 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 	(see Form A.18)	N/A
6.7.3	Insulation for secondary circuits derived from MAINS CIRCUITS of OVERVOLTAGE CATEGORY II up to 300 V		N/A
6.7.3.1	Secondary circuits where separation from MAINS CIRCUITS is achieved by a transformer providing:		—
	- REINFORCED INSULATION		N/A
	- DOUBLE INSULATION		N/A
	 – screen connected to the PROTECTIVE CONDUCTOR TERMINAL 		N/A
6.7.3.2	CLEARANCES		
	a) meet the values of Table 6 for BASIC INSULATION and SUPPLEMENTARY INSULATION; or		N/A
	twice the values of Table 6 for REINFORCED		N/A
	or		
	b) pass the voltage tests of 6.8 with values of Table 6;	(see Form A.18)	—
	with following adjustments:		
	1) values for reinforced insulation are 1,6 times the values for basic insulation		N/A
	2) if operating altitude is greater than 2000 m values of CLEARANCES multiplied with factor of Table 3		N/A
	3) minimum CLEARANCE is 0,2 mm for POLLUTION DEGREE 2 and 0,8 mm for POLLUTION DEGREE 3		N/A
6.7.3.3	CREEPAGE DISTANCES		
	Based on WORKING VOLTAGE meets the values of Table 7 for BASIC and SUPPLEMENTARY INSULATION		N/A
	Values for REINFORCED INSULATION are twice the values of BASIC INSULATION		N/A
	Coatings to achieve reduction to POLLUTION DEGREE 1 comply with requirements of Annex H		N/A
6.7.3.4	Solid insulation		

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Clause	Requirement — Test	Result — Remark	Verdict
6.7.3.4.1	Withstands electrical and mechanical stresses in normal use and all RATED environmental conditions of 1.4		_
	a) Equipment passed voltage test of 6.8.3.1 for 5 s with VALUES of Table 6 for BASIC and SUPPLEMENTARY INSULATION	(see Form A.18)	N/A
	values for REINFORCED INSULATION are 1,6 times the values of BASIC INSULATION		N/A
	b) if WORKING VOLTAGE exceeds 300 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	(see Form A.18)	N/A
	value for REINFORCED INSULATION are twice the WORKING VOLTAGE		N/A
	Complies as applicable:		_
	1) ENCLOSURE OF PROTECTIVE BARRIER OF 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		
	Conductors between same two layers are separated by applicable distances of Table 8		N/A
6.7.3.4.3	Inner insulation layers of printed wiring boards		
	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:		—
	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		—
	Conductors between same two layers are separated by applicable CLEARANCES and CREEPAGE DISTANCE of 6.7.3.2 and 6.7.3.3		N/A
	REINFORCED INSULATION have adequate electric strength; one of following methods used:		—
	a) thickness at least applicable distance of Table 8		N/A

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Clause	Requirement — Test	Result — Remark	Verdict
	 b) insulation is assembled of min. two separate layers, each RATED for test voltage of Table 6 for BASIC INSULATION 		N/A
	 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: 	(see Form A.18)	—
	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 dielectric strength tests	(see Form A.14 and A.18)	N/A
6.9	Constructional requirements for protection against electric shock		N/A
6.9.1	If a failure could cause a HAZARD:		
	a) security of wiring connections		N/A
	b) screws securing removable covers		N/A
	c) accidental loosening		N/A
	d) CLEARANCES and CREEPAGE DISTANCES not reduced below the values of basic insulation by loosening of parts or wires		N/A
6.9.2	Insulating materials		N/A
	Material not to be used for safety relevant insulation:		
	a) easily damaged materials not used		N/A
	 b) non-impregnated hygroscopic materials not 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 equalization conductors;		N/A
	d) functional earth conductors		N/A
6.10	Connection to MAINS supply source and connections between parts of equipment		N/A
6.10.1	MAINS supply cords		
	RATED for maximum equipment current (see 5.1.3 c)		N/A
	Cable complies with IEC 60227 or IEC 60245		N/A
	Heat-resistant if likely to contact hot parts		N/A
	Temperature RATING (cord and inlet)		_
	Green/yellow used only for connection to PROTECTIVE CONDUCTOR TERMINALS		N/A
	Detachable cords with IEC 60320 MAINS connectors:		

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Clause	Requirement — Test	Result — Remark	Verdict
	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		
6.10.2.1	Cord entry		
	 a) inlet or bushing with a smoothly rounded opening; or 		N/A
	b) insulated cord guard protruding >5 D (diameter)		N/A
6.10.2.2	Cord anchorage		
	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
	 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	(see Form A.19)	N/A
6.10.3	Plugs and connectors		N/A
	MAINS supply plugs, connectors etc., conform with relevant specifications		N/A
	If equipment supplied at voltages below 6.3.2.a) or from a sole source:		
	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		Р
	Plug pins which receive a charge from an internal capacitor	(see Form A.5)	N/A
	Accessory MAINS socket outlets:		
	a) marking if accepts a standard MAINS supply plug (see 5.1.3e)		N/A
	 b) input has a protective earth conductor if outlet has EARTH TERMINAL CONTACT 		N/A
6.11	Disconnection from supply source		N/A
6.11.1	Disconnects all current-carrying conductors		N/A
6.11.2	Exceptions		N/A
6.11.3	Requirements according to type of equipment		

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Clause	Requirement — Test	Result — Remark	Verdict
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:		-
	a) switch or circuit-breaker to be included in building 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 one of the following:		
	a) switch or circuit-breaker		N/A
	b) appliance coupler (disconnectable without tool)		N/A
	c) separable plug (without locking device)		N/A
6.11.4	Disconnecting devices		N/A
6.11.4.1	Disconnecting device part of equipment		N/A
	Electrically close to the SUPPLY		N/A
	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		N/A
	When used as disconnection device:		_
	Meets IEC 60947-1 and IEC 60947-3		N/A
	Marked to indicate function		_
	Not incorporated in MAINS cord		N/A
	Does not interrupt PROTECTIVE EARTH CONDUCTOR		N/A
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):		—
	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		Р
7.1	Equipment does not cause a mechanical HAZARD in NORMAL nor in SINGLE FAULT CONDITION		Р

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Clause	Requirement — Test	Result — Remark	Verdict
	Conformity is checked by 7.2 to 7.7		Р
7.2	Sharp edges		Р
	Easily touched parts are smooth and rounded		Р
	Do not cause injury during NORMAL USE and		Р
	Do not cause injury during SINGLE FAULT CONDITION		Р
7.3	Moving parts		N/A
7.3.1	HAZARDS from moving parts limited to a tolerable level with the conditions specified in 7.3.2 and 7.3.5		N/A
	RISK assessment in accordance with 7.3.3 carried out		N/A
7.3.2	Exceptions		N/A
	Access to HAZARDOUS moving parts permitted under following circumstances:		—
	 a) obviously intended to operate on parts or materials external 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: 		-
	1) access requires TOOL		N/A
	2) statement about training in the instructions		N/A
	 warning markings on covers prohibiting access by untrained OPERATORS 		N/A
	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:		—
	A. Low level measures		N/A
	B. Moderate measures		N/A
	C. Stringent measures		N/A
7.3.4	Limitation of force and pressure	(see Form A.20)	N/A
	Following levels are met in NORMAL and SINGLE FAULT CONDITION:		—
	Continuous contact pressure below 50 N / cm ² with force below 150 N		N/A
	Temporary force below 250 N for an area at least of 3 cm ² for a maximum duration of 0,75 s		N/A
7.3.5	Gap limitations between moving parts	(see Form A.20)	N/A
7.3.5.1	Access normally allowed		

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Clause	Requirement — Test	Result — Remark	Verdict
	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		_
	Maximum gap as specified in table 14 assured in NORMAL and in SINGLE FAULT CONDITION		N/A
7.4	Stability		Р
	Equipment not secured to building structure is physical stable		Р
	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:		_
	a) 10° tilt test for other than handheld equipment		N/A
	 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
	 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 :		
	Has means for lifting or carrying; or		N/A
	Directions in documentation		N/A
7.5.2	Handles and grips		
	Handles or grips withstand four times weight		N/A
7.5.3	Lifting devices and supporting parts		
	RATED for maximum load; or		N/A
	tested with four times maximum static load		N/A
7.6	Wall mounting		N/A
	Mounting brackets withstand four times weight		N/A
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	Р
8.1	Equipment does not cause a HAZARD when subjected to mechanical stresses in NORMAL USE	Р

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Clause	Requirement — Test	Result — Remark	Verdict
	Normal protection level is 5 J		Р
	Levels below 5 J but not less than 1 J are acceptable if all of following criteria are met:		_
	a) lower level justified by RISK assessment of manufacturer		N/A
	 equipment installed in its intended application is not easily touched 		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:		—
	1) static test of 8.2.1		Р
	2) impact test of 8.2.2 with 5 J except for HAND- HELD EQUIPMENT		Р
	if impact energy not selected to 5 J alternate method of IEC 62262 used		N/A
	 drop test of 8.3.1 or 8.3.2 except for FIXED EQUIPMENT and equipment with mass over 100 kg 	100mm applied.	Р
	Equipment RATED with an impact rating of IK 08 that obviously meets the criteria		N/A
	After the tests inspection with following results:		
	- HAZARDOUS LIVE parts above the limits of 6.3.2 not ACCESSIBLE		Р
	- insulation pass the voltage tests of 6.8	(see Form A.30)	Р
	i) no leaks of corrosive and harmful substances	No such substances	N/A
	ii) ENCLOSURE shows no cracks resulting in a HAZARD		Р
	iii) CLEARANCES not less than their permitted values		Р
	iv) insulation of internal wiring remains undamaged		Р
	v) PROTECTIVE BARRIERS not damaged or loosened	No such barriers	N/A
	vi) No moving parts exposed, except permitted by 7.3		Р
	vii) no damage which could cause spread of fire		Р
8.2	ENCLOSURE rigidity test		Р
8.2.1	Static test	(see Form A.21A)	Р
	- 30 N with 12 mm rod to each part of ENCLOSURE		Р

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Т

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Clause	Requirement — Test	Result — Remark	Verdict
	 in case of doubt test conducted at maximum RATED ambient temperature 		Р
8.2.2	Impact test	(see Form A.21A)	Р
	Impact applied to any part of ENCLOSURE causing a HAZARD if damaged		Р
	Impact energy level and corresponding IK code	5J, IK08	—
	Non-metallic ENCLOSURES cooled to minimum RATED ambient temperature if below 2 °C		N/A
8.3	Drop test	(see Form A.21B)	Р
8.3.1	Other than HAND-HELD and DIRECT-PLUG-IN EQUIPMENT		Р
	Tests conducted with a drop height or angle of	100mm	—
8.3.2	HAND-HELD and DIRECT-PLUG-IN EQUIPMENT		—
	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		Р
9.1	No spread of fire in NORMAL and SINGLE FAULT CONDITION		Р
	MAINS supplied equipment meets requirements of 9.6 additionally		Р
	Conformity is checked by minimum one or a combination of the following (see Figure 11):	(see Form A.22)	-
	a) SINGLE FAULT test of 4.4; or	(see Form A.1)	Р
	b) Application of 9.2 (eliminating or reducing the sources of ignition); or		Р
	c) Application of 9.3 (containment of fire within the equipment)		Р
9.2	Eliminating or reducing the sources of ignition within the equipment		Р
	a) 1) Limited-energy circuit (see 9.4); or		N/A
	b) 2) BASIC INSULATION provided for parts of different potential; or	(see Form A.14 and A.18)	Р
	Bridging the insulation does not cause ignition	(see Form A.1)	Р
	 c) Surface temperature of liquids and parts (see 9.5) 		N/A
	d) No ignition in circuits designed to produce heat	(see Form A.1)	N/A
9.3	Containment of the fire within the equipment, should it occur		N/A
9.3.1	Spread of fire outside equipment reduced to a tolerable level if:		—

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Clause	Requirement — Test	Result — Remark	Verdict
	a) Energizing of the equipment is controlled by an OPERATOR held switch		N/A
	b) ENCLOSURE is conform with constructional requirements of 9.3.2; and		N/A
	Requirements of 9.5 are met		N/A
9.3.2	Constructional requirements		_
	a) Connectors and insulating material have flammability classification V-2 or better	(see TABLE 1 or Form A.23)	Р
	 Insulated wires and cables are flame retardant (VW-1 or equivalent) 	(see TABLE 1 or Form A.23)	Р
	c) ENCLOSURE meets following requirements:	(see Form A.22)	
	 Bottom and sides in arc of 5 ° (see Figure 13) to non-limited circuits (9.4) meets: 		—
	i) no openings; or	No openings in bottom	Р
	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
	 Material of ENCLOSURE and any baffle or flame barrier is made of: 		
	Metal (except magnesium); or		N/A
	Non-metallic materials have flammability classification V-1 or better	(see TABLE 1 or Form A.22)	Р
	 ENCLOSURE and any baffle or flame barrier have adequate rigidity 		Р
9.4	Limited-energy circuit	(see Form A.24)	N/A
	a) Potential not more than 30V r.m.s. and 42,4 V peak, or 60 V dc		N/A
	b) Current limited by one of following means:		
	 Inherently or by impedance (see table 17); or 		N/A
	 Overcurrent protective device (see table 18); or 		N/A
	 A regulating network limits also in SINGLE FAULT CONDITION (see table 17) 		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		N/A
	Flammable liquids contained in or specified for use with equipment do not cause spread of fire	(see Form A.25)	N/A
	RISK is reduced to a tolerable level:		_

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Clause	Requirement — Test	Result — Remark	Verdict
	 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		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
	BASIC INSULATION between MAINS parts of opposite polarity provided	(see Form A.14 and A.15)	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 protection device:		_
	Fitted within the equipment; or		N/A
	Specified in manufacturer's instructions		N/A
9.6.3	Other equipment		—
	Protection within the equipment		N/A

10 10.1	EQUIPMENT TEMPERATURE LIMITS AND RESISTANCE TO HEAT		N/A
	Surface temperature limits for protection against burns		N/A
	Easily touched surfaces within the limits in NORMAL and in SINGLE FAULT CONDITION:	(see Form A.26A)	—
	 – at an specified ambient temperature of 40 °C 		Р
	 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:	(see Form A.26B)	
	NORMAL CONDITION		N/A
	SINGLE FAULT CONDITION		N/A
10.3	Other temperature measurements		Р
	Following measurements conducted if applicable:	(see Form A.26A)	

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Clause	Requirement — Test	Result — Remark	Verdict
	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
	 Parts made of insulating material supporting parts connected to MAINS supply 		N/A
	e) Terminals carrying a current more than 0,5 A		N/A
10.4	Conduct of temperature tests		N/A
10.4.1	Tests conducted under reference test conditions and manufacturer's instructions	(see Form A.26A)	N/A
10.4.2	Temperature measurement of heating equipment		N/A
	Tests conducted in test corner	(see Form A.26A)	N/A
10.4.3	Equipment intended for installation in a cabinet or wall		N/A
	Equipment built in as specified in installation instructions	(see Form A.26A)	N/A
10.5	Resistance to heat		N/A
10.5.1	Integrity of CLEARANCE and CREEPAGE DISTANCES	(see Form A.16)	N/A
10.5.2	Non-metallic ENCLOSURES	(see Form A.27)	N/A
	Within 10 min after treatment:		
	Equipment subjected to suitable stresses of 8.2 and 8.3 complying with criteria of 8.1		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:		N/A
	1) Ball pressure test; or	(see Form A.28)	N/A
	2) Vicat softening test of ISO 306	(see Form A.29)	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	(see Form A.30)	N/A
11.3	Spillage	(see Form A.30)	N/A
11.4	Overflow	(see Form A.30)	N/A
11.5	Battery electrolyte		N/A

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Clause	Requirement — Test	Result — Remark	Verdict
			N1/A
	Battery electrolyte leakage presents no HAZARD		N/A
11.6	Specially protected equipment	(see Form A.30)	N/A
11.7	Fluid pressure and leakage		N/A
11.7.1	Maximum pressure	(see Form A.31)	—
	Maximum pressure of any part does not exceed $P_{\text{\tiny RATED}}$		N/A
11.7.2	Leakage and rupture at high pressure		
	Fluid-containing parts subjected to hydraulic test if	(see Form A.31)	—
	 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- 2-89		N/A
11.7.3	Leakage from low-pressure parts	(see Form A.32)	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	(see Form A.33)	N/A
12.2.1.1	Equipment meets the following requirements:		—
	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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Clause	Requirement — Test	Result — Remark	Verdict
12.2.1.2	Equipment intended to emit radiation		_
	Effective dose rate of radiation measured		
	If dose rate exceeds 5 µSv/h marked with the following:		-
	a) symbol 17 (ISO 361)		N/A
	b) abbreviations of the radionuclides		_
	c) with maximum dose at 1 m; or		_
	with dose rate value between 1 μ Sv/h and 5 μ Sv/h in m		-
12.2.1.3	Equipment not intended to emit radiation	(see Form A.34)	_
	Limit for unintended stray radiation of 1 µSv/h at any easily reached point kept		_
12.2.2	Accelerated electrons		
	Compartments opened only by the use of a TOOL		N/A
12.3	Ultraviolet (UV) radiation		N/A
	No unintentional HAZARDOUS escape of UV radiation:		_
	- checked by inspection; and		N/A
	- evaluation of RISK assessment documentation		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	(see Form A.35)	
	No HAZARDOUS sound emission		N/A
	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	(see Form A.36)	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:		_
	Marked with Symbol 14 of table 1		N/A
	and following information in the documentation:		
	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

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Clause	Requirement — Test	Result — Remark	Verdict

Equipment meets requirements of IEC 60825-1	
---	--

N/A

13	PROTECTION AGAINST LIBERATED GASES AND SUBSTANCES, EXF AND IMPLOSION	PLOSION N/A
13.1	Poisonous and injurious gases and substances	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	N/A
13.2.1	Components	N/A
	Components liable to explode:	
	Pressure release device provided; or	N/A
	Apparatus incorporates operator protection (see also 7.7)	N/A
	Pressure release device:	
	Discharge without danger	N/A
	Cannot be obstructed	N/A
13.2.2	Batteries and battery charging (see Form A.37)	_
	If explosion or fire HAZARD could occur:	—
	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

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Clause	Requirement — Test	Result — Remark	Verdict

If glass screen, not in contact with surface of tube

N/A

14	COMPONENTS AND SUBASSEMBLIES		Р
14.1	Where safety is involved, components and subassemblies meet relevant requirements	(see TABLE 1)	Р
14.2	Motors		N/A
14.2.1	Motor temperatures		N/A
	Does not present a HAZARD when stopped or prevented from starting; or	(see Form A.1; A.26B)	N/A
	Protected by over-temperature 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
	Devices operating in a SINGLE FAULT CONDITION	(see Form A.38)	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 a HAZARD, 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	(see Form A.39 and A.40)	N/A
14.7	Printed circuit boards		N/A
	Data shows conformity with V-1 of IEC 60695-11- 10 or better; or		N/A
	Test shows conformity with V-1 of IEC 60695-11- 10 or better	(see Form A.23)	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	(see Form A.41)	N/A
	No HAZARD resulting from rupture or overheating of the component:		
	- no bridging of safety relevant insulation		N/A
	- no heat to other parts above the self-ignition points		N/A
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Clause	Requirement — Test	Result — Remark	Verdict

15	PROTECTION BY INTERLOCKS	N/A
15.1 Interlocks are designed to remove a HAZARD before OPERATOR exposed		N/A
15.2	Prevention of reactivation	N/A
15.3	Reliability	N/A
	Single fault unlikely to occur; or	N/A
	Cannot cause a HAZARD	N/A

16	HAZARDS RESULTING FROM APPLICATION					
16.1	REASONABLY FORESEEABLE MISUSE		Р			
	No HAZARDS arising from settings not intended and not described in the instructions	See risk management report	Р			
	Other cases of REASONABLY FORESEEABLE MISUSE addressed by RISK assessment	See risk management report	Р			
16.2	Ergonomic aspects		N/A			
	Factors giving rise to a HAZARD the RISK assessment is reflecting those aspects:		—			
	a) limitation of body dimensions		N/A			
	b) displays and indicators		N/A			
	c) accessibility and conventions of controls		N/A			
	d) arrangement of TERMINALS		N/A			

17	RISK ASSESSMENT	Р		
	RISK assessment conducted, if HAZARD might arise and not covered by Clauses 6 to 16	Р		
	TOLERABLE RISK achieved by iterative documented process covering the following:			
	a) RISK analysis	Р		
	Identifies HAZARDS and estimates RISK	Р		
	b) RISK evaluation	Р		
	Plan to judge acceptability of resulting RISK level based on the estimated severity and likelihood of a RISK	Р		
	c) RISK reduction	Р		
	Initial RISK reduced by counter measures;	Р		
	Repeated RISK evaluation without new RISKS introduced	Р		
	RISKS remaining after RISK assessment addressed in instructions to RESPONSIBLE BODY:	—		
	Information contained how to mitigate these RISKS	Р		

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Clause	Requirement — Test	Result — Remark	Verdict
			· · · · · · · · · · · · · · · · · · ·
	Following principles in methods of RISK reduction applied by manufacturer in given order:		—
	1) RISKS eliminated or reduced as far as possible		Р
	2) Protective measures taken for RISKS that cannot be eliminated		Р
	 User information about residual RISK due to any defect of the protective measures 		Р
	Indication of particular training is required		Р
	Specification of the need for personal protective equipment		Р
	Conformity checked by evaluation of the RISK assessment documentation		Р

ANNEX F	ROUTINE TESTS		N/A
	Manufacturer 's declaration		N/A

ANNEX H	QUALIFICATION OF CONFORMAL COATINGS FOR PROTECTION AGAINST POLLUTION					
H.1	General					
	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; 					
	b) RATED operating temperature include the temperature range of the indicated application;		N/A			
	c) CTI, insulation resistance and dielectric strength are suitable for the intended application;		N/A			
	 d) Coating have adequate UV resistance, if it is exposed to sunlight; 		N/A			
	e) Flammability RATING of the coating is at least the required flammability RATING of the applied PWB.		N/A			
H.3	Qualification of coatings (see Form A.42)					
	Coating complies with the conformity requirements.		N/A			

ANNEX K	INSULATION REQUIREMENTS NOT COVERED	(see Form A.15 and A.18)	N/A
	BY CLAUSE 6.7		1

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Clause	Requirement — Test	Result — Remark	Verdict

4.4	TABLE: Testing in SINGLE FAULT CONDITION Form A - Results - Results				Form A.1			
Test subclause	Fault No.	Fault description	Тd 4.4.3 (NOTE)		4.4.3		How was test terminated Comments	Meets 4.4.4
Record dieled	ctric streng	on in hh:mm:ss gth test on Form A.18 and temperature tes ts column for each test whether carried out						
Suppleme				0				

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Claus	Clause Requirement — Test		est	Result — Remark			Verdict		
5.1.3c	;)	TABL	E: MAINS SUP	ply				Form A.2	N/A
		Marke	ed rating	:			Vd.c.		—
	Phase:			:					_
Frequency:					Hz				
Current				3	A				
	Power:					W			
	Power:				VA				
Test	Test Voltage Frequency Current			Por	Power Comments		Comments		
No.	[\	/]	[Hz]	[A]	[W]	[VA]			
NOTE	Maggi	romonto		d for marked ret	ingo				
Suppl	<u>– Measu</u> ementa	rements ary info	are only require ormation:	<u>d for marked rat</u>	ings.				

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Clause	Requirement — Test	Result — Remark	Verdict
Olduse	requirement — rest	Result — Remark	Vertuiet

5.3	TABLE: Dur	ability of markings		Form A.3 P				
	Markir	ng method (see NOT	ΓE)	Agent				
1) Adhesive	e label		A Water					
2) Ink printe	ed			B Isopropyl alc	ohol 70%			
3) Laser ma	arked			C (specify age	nt)			
4) Film-coated (plastic foil control panel) D (specify agent)								
5) Imprinted	d on plastic (m	oulded in)		E (specify age	nt)			
	type, fixing me	e include print meth ethod, adhesive and						
	Marking loc	ation		Marking method (se	ee above)			
Identificatio	n (5.1.2)		1),2)					
MAINS SUPP	oly (5.1.3)		1),2)					
Fuses (5.1.	4)		N/A					
Terminals	and operating	devices (5.1.5.2)	N/A					
Switches a	nd circuit breal	kers (5.1.6)	2)					
Double/rein	forced equipm	ient (5.1.7)	N/A					
Field wiring	Terminal boxe	es (5.1.8)	N/A					
Warning ma	arking (5.2)		1)					
Battery cha	rging (13.2.2)		N/A					
	<u>.</u>							
Method	Test agent	Remains legible	Label loose	Curled edges	Comments			
		Verdict	Verdict	Verdict				
1)	A	Legible	No loose	Edges not curled	Pass			
1)	В	Legible	No loose	Edges not curled	Pass			
2)	А	Legible	No loose	Edges not curled	Pass			
2)	В	Legible	No loose	Edges not curled	Pass			

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Clause	Requirement — Test	Result — Remark	Verdict

	TABLE: List of ACCESSIBLE parts		Form A.4	Р				
6.1.2	Exceptions			—				
6.2	Determination of ACCESSIBLE parts							
Item	Description Determination method Exception under (NOTE 5) (NOTE 4)							
1	Enclosure	sure V						
NOTE 2 – NOTE 3 – which is not 6 NOTE 4 – NOTE 5 –	Test fingers and pins are to be applied w Special consideration should be given to Parts are considered to be ACCESSIBLE if considered to provide su Capacitor test may be required (see For The determination methods are: = visual; R = rigid test finger; J = jointed to	inadequate insulation and l f they could be touched in th itable insulation (see 6.4). m A.5).	high voltage parts (s le absence of any c	see 6.2) overing				
	ary information:							

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Clause

Requirement — Test

Result — Remark

Verdict

6	TABLE	: Values	in Norm	MAL CONDITI	ON								Form A.5	N/A
6.1.2	Exception	ons						11.2 Cleaning and decontamination						
6.3.1	Values	IN NORMA	L CONDI	TION (see N	OTE 1)		11.3 Spillage						
6.6.2	Termina	als for ext	ternal ci	rcuit				11.4 Overflow						
6.10.3	Plugs a	nd conne												
Item	Voltage Current							icitanc e		0 s / tes [:] NOT	t	Comme	nts	
(see Form A.4)	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	m J		
				-	-	-	-	-	-	-	-	1	*	
				-	-	-	-	-	-	-	-	-	*	
				-	-	-	-	-	-	-	-	-	*	
				-	-	-	-	-	-	-	-	-	*	
voltage Suppler * : Volta	below th mentary age levels	<u>e limits g</u> informati s do not e	given fro on: exceed	in 6.1.2 a) l om figure 3 33Vrms, 40 ed current 0	of EN 6.7 Vpk	<u>61010</u> k, or 70	<u>-1.</u>)Vdc					e cap	acitance level	versus

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Result — Remark

Verdict

6.3.2	TABLE: Va	BLE: Values in SINGLE FAULT CONDITION								Form A.6 N/A		N/A	
ltem	Subclause and		Voltage		Tran (se NO	sient ee TE)	Current		Capacitance	Com	iments		
(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)		
			ļ										
NOTE	- Transient	voltages	must be	below	the lir	nits g	iven from F	igure 2	and t	he ca	pacitance belo	ow the	e limits
	gure 3 of EN mentary info												
* · Curi	rent levels le	ess than	limited ci	irrent 3	3.5mA	rms							

*: Current levels less than limited current 3.5mA r.m.s
 **: Voltage levels do not exceed 55Vrms, 78 Vpk, or 140Vdc

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Clause	Requirement — Test	Result — Remark	Verdict

6.5.2.2	TABLE: Cross-sectional a	ea of bonding condu	ictors	Form A.7	N/A
	Conductor location		S-SECTIONAL AREA [mm²]		Verdict
Suppleme	ntary information:				
6.5.2.3	TABLE: Tightening torque	test		Form A.8	N/A
	Conductor location		Size of screw	Tightening torque [Nm]	Verdict
Suppleme	ntary information:				

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Clause	Requirement — Test	Result — Remark	Verdict

ACCESSIBLE part under test Test current Voltage attained after 1 min Calculated resist (Maximum 0,1 or [Ω] (NOTE 1								
[A] [V] [Ω] (NOTE 1								
NOTE 1 – For none-detachable power cord the impedance between protective conductor p cord and each ACCESSIBLE part shall not exceed 0,2 Ohm.	lug pin of MAINS							
Supplementary information:								
6.5.2.5 TABLE: Bonding impedance of permanently connected equipment Form A.10 N								
ACCESSIBLE part under test Test Voltage attained after 1 n current (maximum 10 V) [A] [V]	nin Verdict							
Supplementary information:								
6.5.2.6 TABLE: Transformer PROTECIVE BONDING screen Form	A.11 N/A							
ACCESSIBLE part under test Test current Voltage attained Calculated res								
(see NOTE) after 1 min (maximum 0 (maximum 10 V)),1 Ω)							
[A] [V] [Ω]								
NOTE – Test current must be twice the value of the overcurrent protection means of the wi	nding. Test is							
specified in 6.5.2.6 a) or b).	-							
Supplementary information:								

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Clause	Requirement — Test	Result — Remark	Verdict
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6.5.4	TABLE: pro	otective impeda	ince						Form A.12	N/A
				A single	componer	nt				
Cor	mponent	Location	Meas	sured	Calculated	R	ated	Verdict	Comme	nts
			Workin Current g d voltage [A] [V]		Power dissipation [W]	Workin g voltage [V]	g dissipation voltage [W]			
			A cor	nbinatio	n of compo	onents				
	Componer	nt		Locati	on		Comments			
a vacui		TIVE IMPEDANCE s emiconductor. rmation:	hall not t	be a sing	gle electron	ic device	e that empl	oys ele	ctron conduc	tion in

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6.5.6 TABLE: Current- or voltage-limiting device Form A.1									N/A
Co	omponent	Location	Meas	Rat	ed	Verdict	Commen	its	
			Working voltage [V]	Current [A]	Workin g voltage [V]				
Supple	mentary inform	ation:			•	-			

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6.7	5.7 TABLE: Insulation requirements- Block diagram of system							N/A
Pollu	ition degree: II		Ove	rvoltage	category	: 11		
Area		Insulation type	Insulation WORKING VOLTAGE			Test voltage		ments TE 3)
		(NOTE 1)	RMS [V]	Peak [V]	Frequency [kHz]	(NOTE 2) [V]	•	
BI = DI = PI = RI = SI = see a	BASIC INSULATION DOUBLE INSULATION PROTECTIVE IMPEDANCE Reinforced INSULATION Supplementary INSULATION also Form A.15 for further details	CATEGORIE Peak impulse test voltage (pulse) or POLLUTIO			LLUTION DEGF d be shown เ	REES which	ch differ	
Supp	plementary Information:							

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6.7			E: Insula ances an					Form A.15					A.15	N/A
6.2	.2	Exam	ination				6.5.4	Protect	ive impe	edance				_
6.4	.2	ENCLO	SURES ar	nd pro	tective	barriers	6.5.6	Curren	t- or volt	age-limiti	ng devi	ce		—
6.4	.4	Imped	lance				9.6.1	BASIC IN	NSULATIC	N betwee	en oppo	site pola	rity	_
Area		cation nsulatior WORKING VOLTAGE type (NOTE 2) e Form (NOTE 1) RMS Peak Frequency Re			rance Measured		Creepage Required easured		Verdict	Cor	nments			
		14)	,	[V]	[V]	[kHz]	[mm]	[mm]	[mm]	[mm]				
						of insulati nsulation (nsulatior	n diagram			Ν	NOTE 2 -
Input supply 240 V 50/60 Hz voltage:														
Su	oplen	nentary	/ informati	on:	<u>.</u>									

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6.7	TABLE: In CLEARANC					-						Form A.16	N/A
6.4. 2	ENCLOSUR	ES Or PR	OTECT	IVE BA	RRIER	S	9.6.1		Overcurrent protection basic insulation between MAINS parts				—
8	Mechanica impact	al resista	ance t	o sho	ck and	ł	10.5.1		Integrity of CLEARANCES and CREEPAGE			REEPAGE	_
Ar ea	Location	Insula tion type	Μ	Mechanical tests (NOTE)			Test at max.		sured test uired)	Ver dict	Comments		
	(See Form A.14)		Appl ied forc e		idity .2))rop 8.3)	RATED ambient	CLEAR ANCE				
			[N]	Stat ic (8.2 .1)	Imp act (8.2 .2)	Nor mal (8.3. 1)	Hand- held/ Plug-in	(10.5.1)	[mm]	[mm]			
	E – Refer to Fo plementary			ctric st	rength t	ests fol	lowing the	above tests					

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6.7.2.2.2	TABLE:	Reliability of potted	d C	omponents		Form A.17	(optional)	N/A
14.1 b)	Compon	ents and subassen	nbl	es				
Temperature C	ycling Tes	t						
Manufacturer		:						
Туре		:						
		:						
Potting compou	und	:						
CREEPAGE dista	ances mea	asured:						
CLEARANCES m	easured	······						
Thickness throu	ugh insula	tion						
Adhesive test F	Pass/Fail							
Test temperatu	re T °C	:						
Cycles at U= A	C 500 V				L		rrent (500 V าA)
Number of cycl	es	D	ate		68 h /	1 h /	2 h /	1 h /
					125 °C	25 °C	0 °C	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	כ					
8. Cycle from		to)					
9. Cycle from		to)					
10. Cycle from		to)					
After Cycling Te	est :							
Humidity condit	ioning					48 h		
Requirements f	or dielectr	ic strength (s. insula	tior	diagram)	Test vol	tage V r.m.	s Ve	rdict
Basic insulatior)	V r.m.s.						
Supplementary	insulation	V r.m.s.						
Reinforced insu	ulation	V r.m.s.						
		aluation of compone						the
Supplementary	informatio	on:						

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6.8	TABI	E: Dielectric	strength	ests		Form A.18	N/A						
4.4.4.1 b)	Conf	Conformity after application of SINGLE FAULT CONDITIONS ¹											
6.4	Prima	Primary means of protection ²											
6.6	Conn	Connections to external circuits											
6.7.	Insula	Insulation requirements ² (see Annex K)											
6.10.2	Fitting	Fitting of non-detachable MAINS supply cords ¹											
9.2 a) 2)	Elimi	Eliminating or reducing the sources of ignition within the equipment											
9.4 c)	Limite	Limited-energy circuit											
9.6.1	Over	current protec	tion basic i	nsulation betw	reen MAINS - par	ts	Р						
	Test	site altitude			······		_						
	Test	voltage correc	ction factor	(see table 10)	:	-	—						
Location references	from or		Humidity	Working voltage	Test voltage	Comments (NOTE)	Verdict						
Forms A.1 A.14	and	sub-clause	Yes/No	V	r.m.s./peak/ d.c.								
required.	t durati	on may be rec		before the die	lectric strength t	est. ² Humidity precondition	ing						

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6.10.2	TABLE: Cord	l anchora	ge				Form A.19	N/A
Loc	ation	Mass [kg]	Pull [N]	Verdict	Torque [Nm]	Verdict	Comment	
	ength test for 1		.3.1)	:		V r.m.	S.	
Supplement	ary information	:					·	

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7.	TABLE: Protection against Form A.20 mechanical HAZARDS Form A.20										N/A						
7.3.4	Lin	nitation of fo	rce and pre	essure													
7.3.5	Ga par	p limitations ts	between n	noving	1												
Part		Clause	e 7.3.4			С	lause	97.3.	5.1			Clau	ise 7	.3.5.2	Verdict		
Locati	ion	Continuous	Temporary		Ν	/linir	num	gaps	s [mn	n]		Maxi	mum [mm	n gaps]		ę	6
		Contact pressure max. 50 N /cm ² @ max. 150 N	max. 250 N / 3 cm² @ max. 0,75 s	500	Head 300	Leg 180	Foot 120	Toes 50	Ar m 120	100	Finger 25	Head 120		Finger 4			
Supple	Supplementary information:																
Supple	ente	niary morm	auun.														

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Clause	Requirement — Test	Result — Remark	Verdict

7.4	TABLE:	: Stability Form A.20A						Р		
	Equipme	ent height /	mass			:	15	50 mm	0.28kg	_
	Equipme	ent (Contair	ners) loa	ded		:	[y	/es / no]		_
	Castors	at unfavou	rable pos	sition		:	[y	/es / no]		_
	Doors, c	Irawers and	movabl	e arms clo	sed	:	[y	/es / no]		
	Doors a	nd drawers	at unfav	ourable po	sition	:	[y	/es / no]		_
Loca	ation	Tilt angle		Applie	d force		1	Cor	nments	Verdict
		10°	250 N	20% [N]	800 N	4 tim load				
Front side		10°	—		_		-	No	hazard	Р
Left side		10°	—		—		_	No	hazard	Р
Rear side		10°	—		—		-	No	hazard	Р
Right side		10°	_	_	_		_	No	hazard	Р
Top side			—		—		-	No	hazard	Р
Working su	urface		—		—		-	No	hazard	Р
Ledge			—		—		-	No	hazard	Р
Castor / su	pport foot	10°					-	No	No hazard	
Castor / su removed	pport foot	10°	—	_	—	_	-	No	hazard	Р
Supplemer	ntary inform	ation:								
7.6	TABLE:	Wall mou	nting						Form A.20B	N/A
	Equipme	ent weight				:		kg		_
	Equipme	ent mountee	d as spe	cified by m	anufactu	irer:	[y	/es / no]		_
	Equipme	ent mounte	d at plas	terboard (c	lrywall)	:	[y	/es / no]		
	More that	an one faste	ener use	d		:	[y	/es / no]		
	Test ma	intained (after 5 s to 10 s to full load) 1 min								
Loca	ation		Appl	lied weight				Comn	nents	Verdict
		4 tin weigh			2 times eight [kg]					
Mounting brackets										
Supplemer	ntary inform	ation:		•			•			

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Clause	Requirement — Test	Result — Remark	Verdict

8.2	ENCLOSURE rigidity test		Form A.21A	Р	
8.2.1	Static test	30N		Р	
	Material of enclosure:	Metal / non-meta	allic		
	Preparation for the test:				
	Operated at ambient temperature:	55 ° C	7 h		
	Location	Comm	nents	Verdict	
1) top and	side enclosure	No hazard		Р	
2) bottom e	enclosure	No hazard		Р	
Supplemer	ntary information:				
8.2.2	Dynamic test			Р	
	Material of enclosure:	Metal / non-meta	allic		
	Corresponding IK-code:	IK08		_	
	Preparation for the test:				
	Cooled to (temperature):		°C	_	
	Location	Comm	nents	Verdict	
1) Тор		No hazard		Р	
2) Side left	/ right	No hazard	Р		
3) Bottom		No hazard	No hazard		
Supplementary information:					

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Clause	Requirement — Test	Result — Remark	Verdict

8.3	Drop test			Form A.21B	Р			
8.3.1	Other equipment							
	Location	Raised	up to	Comments	_			
		[mm]	30 °		_			
1) Front sid	e	100	-	No hazard				
2) Rear side	Э	100	-	No hazard				
3) Left side		100	-	No hazard				
4) Right sid	e	100	-	No hazard				
8.3.2	Hand-held EQUIPME	ENT and direct plug-	in equipment		N/A			
	Material of enclosure:			Metal / non-metallic	_			
	Preparation for the	test:						
	Cooled to (tempera	°C	—					
	Loc	ation		Comments	Verdict			
1) Side								
2) Edge								
3) Corner								
Supplemen	tary information:							

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Clause	Requirement — Test	Result — Remark	Verdict

9	TABLE: Protection against the s fire	pread of	Form A.22	2 N/A	
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	
Supple	mentary information:	1		<u> </u>	

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9.3.2	TABLE: Constructional req	uirements				For	m A.23	N/A
14.7	Printed circuit boards							
Material	tested	· · · ·						_
Generic	name	· · · ·						_
Material	manufacturer	······						_
Туре		······:						—
Colour		:						_
Condition	ning details	:						—
Condition	ning details	::						_
Conditio	ning details	::			Sa	mple		
Condition	ning details		1	2	Sa 3	mple	5	6
	ning details		1	2		1	5	6
Thicknes			1	2		1	5	6
Thicknes Duration Duration	ss of specimen	mm	1	2		1	5	6
Thicknes Duration Duration After sec	ss of specimen of flaming after first Application of flaming plus glowing	mm s	1	2		-	5	6
Thicknes Duration Duration After sec	ess of specimen of flaming after first Application of flaming plus glowing cond application en burns to holding clamp	mm s s		2		-	5	6

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9.4	TABLE	: Limited-energ	y circuit				Form A.24	N/A
lte	em	9.4 a)	9.4 b) Curre (NO		9.4 c)	Decision	Comment	S
Loc	or ation rm A.22)		Maximum available current	Overload protection after 120 s	Circuit separation	Yes/No		
		[V]	[A]	[A]				
NOTE -	- Maximu	um values see T	ables 17 and ²	18 of EN 6101	0-1			
		nformation:						

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Clause	Requirement — Test	Result — Remark	Verdict

9.5	TABLE: Requirements for equ	ipment containing or	using flammable liquids	N/A
	Type of liquid	9.5 F	lammable liquids	Verdict
		b) Quantity	c) Containment]
Supple	ementary information:			
L				

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Clause	Requirement — Test	Result — Remark	Verdict

10.	TABLE :	TABLE : Temperature Measurements Form A.26A						
10.1	Surface to	Surface temperature limits – NORMAL CONDITION and / or SINGLE FAULT CONDITION						
10.2	Temperat	Temperature of windings – NORMAL CONDITION and / or SINGLE FAULT CONDITION						
10.3	Other tem	Other temperature measurements						N/A
Operating of	conditions:	Maximum no	rmal opera	ation.				
Frequency	· · · ·	Hz	Test roor	n ambient te	emperatur	e (ta):	°C	
Voltage		Vdc	Test dura	ation		:	1 h 30 min	
P	art / Locatio	on	t _m [°C]	t _c [°C]	<i>t</i> _{max} [°C]	Verdict	Comments	
1.								
2.								
3.								
4.								
5.								
6.								
7.								
8.								
9.								
10.								
11.								
12.								
13.								
14.								
15.								
16.								
ambient) t _{max} NOTE 2 - NOTE 3 - additional fr NOTE 4 -	t _m correcte	ssary n A.26B for de	C or max. Emperature rence to co MAL CONDI	e omponent o TION and / or	SINGLE F	AULT CONDIT	ION in this Form use	

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Clause	Requirement — Test	Result — Remark	Verdict

10.2		Temperature of windings nce method Temperature Measurements							Form A.26B	
4.4.2.7	MAINS tran	sformers								
14.2.1	Motor tem	peratures								
Operating co	onditions:									
Frequency	:	Hz	Test ro	om ambie	ent tempe	erature (ta	a1/ta2).:	/	°C (init	ial / final)
Voltage	:	V	Test du	iration			:		h mir	1
Part / Des	signation	Rcold [Ω]	Rwarm [Ω]	Current [A]	<i>t</i> _r [K]	<i>t</i> _c [°C]	t _{max} [°C]	Verdict	Comm	ients
NOTE 1-	Riniti	al resistanc			R	= final re:	sistance			
$t_r = 1$	temperature	e rise		4	$t_{\rm c} = t_{\rm r}$		$(t_{\rm c} = t_{\rm r} - \{$	<i>t</i> _{a2} - <i>t</i> _{a1} } ·	+ [40 °C or n	nax
ر NOTE 2 - NOTE 3 - additional fo	Record va	sulation cla lues for NO	ss (IEC	60085) ur				TION in th	is Form use	
Supplement										

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10.5.2 TABLE: Resistance to heat of non-metallic ENCLOSURES Form A.27							
	Test method	d used:				—	
	Non-operativ	ve treatment	[√]			Р	
	Empty ENCL	OSURE	[√]			Р	
	Operative tr	eatment	[]			N/A	
		e during tests	70°C				
De	scription	Material		Coi	nments	Verdict	
Plastic en	closure			No	hazard	Р	
					· · · · ·		
		.8): es of the end of treatment suitable tests in			r.m.s. /peak/d.c . d 8 3 must be con	ducted	
and pass	criteria of 8.1.		acc. 10 0.2	an		ucieu	
Suppleme	entary information	on:					
l							
1							

Report No.: TRS18050188 Page 64 of 77 Issued: 2018-05-24 IEC/EN 61010-1 Clause Requirement — Test Result — Remark Verdict 10.5.3 **TABLE: Insulating Materials** Form A.28 N/A 10.5.3 1) Ball-pressure test Max. allowed impression diameter: 2 mm ____ Part Test temperature Impression diameter Verdict [°C] [mm] Supplementary information: 10.5.3 2) Vicat softening test (ISO 306) Form A.29 N/A Vicat softening temperature Thickness of sample Part Verdict [mm] [°C] Supplementary information:

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8 Т	ABLE: I	/ lechani	ical resi	stance to s	hock and	impact				For	rm A.30	N/A
11 P	rotectio	n again	St HAZAF	RDS from flu	uids and ຮ	olid fore	ign object	is				. <u></u> i
Voltage tes two forms of			t once afte	r performing th	he tests of cla	ause 8 and r	clause 11. Ho	owever, if	voltage tests ar	re carried out separatel	y after eac	h set of tes
		Claus	se 8 tests	5		Clause 1	1 tests					
Location (see Form A.14)	Static (8.2.1) 30 N		(8.3.1)	Handheld Plug-in (8.3.2)	Cleaning (11.2)	Spillage (11.3)	Overflow (11.4)	IEC 60529 (11.6)	•	Test voltage [r.m.s./peak/d.c.]	Verdict	Comme s
	<u> </u>	ا <u> </u>			<u> </u>			<u> </u>	'			
	'	ا ــــــــــــــــــــــــــــــــــــ		'	 '	!	ļ'	 '	'		'	
	! - !	ا ا	 	'	<u> </u> '	 '	 '	 '	 '		 	
		├ ───	 	'	 '	↓ '	 '	 '	'		 	
		<u> </u> '	 	'	 '	'	 '	 '	'		 	
	 	├ ───	 	'	<u> '</u>	'	<u> </u> '	 '	'			<u> </u>
	[!]	<u> </u> '	 	'	<u> '</u>	'	<u> </u> '	 '	'			<u> </u>
	<u> </u> !	<u>├</u> ───	<u> </u>	'	├ ───'	'	<u> </u> '	 '	'		<u> </u> !	<u> </u>
			<u> </u>	'	·'	'	<u> </u> '	<u> </u> '	'		!	<u> </u>
			<u> </u>	·'	·'	 '	<u> </u> '	├ ───'	·'			<u> </u>
	<u> </u>	<u> </u>	k to indico	ite the used tes		<u> </u>	<u>'</u> '	<u>ب</u>	<u> </u>	<u> </u>	<u> </u>	<u>ı</u>

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11.7.2	TABLE:	Leakage and	rupture a	at high pres	sure		Form A.31	N/A
Part		Maximum permissible working pressure	Test pressu	•	e Deformation	Burst	Comm	ents
		[MPa]	[MPa]] Yes / N	o Yes / No	Yes / No		
NOTE – see Supplementa	also Ann	ex G with requ	uirements	for USA and	Canada.			
11.7.3	Leakage	e from low-pre	essure pa	arts			Form A.32	N/A
	Part	pr	Test essure MPa]	Leakage Yes / No		Comme	nts	

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12.2.1	TABLE: Ionizing radiation Form A				N/A
12.2.1.2	Equipment intend	ded to emit radiation			
Loca	ations tested	Measured values [µSv/h]	Verdict	Comments	
Supplement	ary information:				
12.2.1.3	Equipment not in	tended to emit radiation		Form A.34	N/A
12.2.1.5	1	ective dose rate at 100 mr	n ·	1 µSv/h	
	ations tested	Measured values	Verdict	Comments	
2000		[µSv/h]	Verdiet	Commente	
Supplement	ary information:				

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12.5.1	TABLE: Sound level			Form A.35	N/A
Lo	cations tested	maxin pres	IeasuredCalculated maximum sourd power levelssure leveldB(A)		
	tor's normal position ystanders' positions				
a)					
b)					
c)					
d)					
e)					
f)	ary information:				
12.5.2	Ultrasonic pressure			Form A.36	N/A
Lo	cations tested	Measu	ured values	Comments	
		[dB]	[kHz]		
	s normal position				
	the ENCLOSURE				
a)					
b)					
c)					
d)					
				3 above the reference pressure value n 20 kHz and 100 kHz.	of 20

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13.2.2	TABLE: Batteries			Form A.37	N/A
10.2.2	Battery load and charging circuit diagra	am.			
		~			
	Battery type	:			
	Battery manufacturer/model/catalogue				—
	Battery ratings	:			
	Reverse polarity instalment test				
	Single component failures		Verdict		
	Component	Open c	ircuit	Short circu	ıit
Suppleme	ntary information:				
	-				

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14.3	TABLE: Overtem	perature prot	ection devic	ces	Form A.38	N/A
			Reliability	test		
C	omponent	Type (NOTE)	Verdict		Comments	
NOTE: NSR=non-s NR =non-r SR =self-re	elf-resetting (10 t esetting (1 time) esetting (200 times	imes)				

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4.4.2.7	TABLE: MAIN	IS transformer			Form A.39	N/A
4.4.2.7.2	Short circuit					
14.6	MAINS transfo	ormers tested outside	equipment			
Туре	:					—
Manufactur	er:					—
Test in equi	ipment					
Test on ber	nch					
Test repeat	ed inside equip	ment (see 14.6)				
Optional – I	nsulation class	(IEC 60085) of the lo	west rated wind	ling:		_
Winding ide	entification					
Type of Pro	tector for windi	ng (NOTE 1)				
Elapsed tim	ne					
Current, A	primary					
	secondary					
Winding ter	mperature, °C p	orimary				
(see NOTE	2) secon	dary				
Tissue pap (Pass / Fail	er / cheesecloth)	י OK ?				
Voltage tes	ts (see NOTE 3	3)				
Primary to s	secondary	V				
Primary to o	core	V				
Secondary	to secondary	V				
Secondary	to core	V				
Verdict						
NOTE 2: I NOTE 3: F	f resistance me Record the volta	re protection ection I of measurement ethod is used, record r age applied and the ty B = no breakdown	- R = resis resistance in co pe of voltage (r	.m.s. / d.c. / pe	ondition in FormA.26B	

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Clause	Requirement — Test	Result — Remark	Verdict

4.4.2.7	TABLE: MAIN	s transformer			Form A.40	N/A		
4.4.2.7.3	Overload test	Overload tests (for MAINS transformers)						
14.6	MAINS transfo	ormers tested outside	equipment					
Туре	:					—		
Manufactur	er:					_		
Test in equ	ipment							
Test on ber	nch							
Test repeat	ted inside equipr	nent (see 14.6)						
Optional – I	Insulation class	(IEC 60085) of the lo	west rated win	ding:		_		
Winding ide	entification							
Type of Pro	otector for windir	g (NOTE 1)						
Elapsed tim	ne							
Current, A	primary							
	secondary							
Winding ter	mperature, °C pr	imary						
(see NOTE	2) second	ary						
Tissue pap (Pass / Fail	er / cheesecloth l)	OK ?						
Voltage tes	ts (see NOTE 3)	1						
Primary to :	secondary	V						
Primary to	core	V						
Secondary	to secondary	V						
Secondary	to core	V						
Verdict								
NOTE 1: NOTE 2: NOTE 3:	If resistance me Record the volta	e protection ection I of measurement ethod is used, record age applied and the t	R = resis resistance in c ype of voltage	(r.m.s. / d.c. / p	condition in FormA.26E	3.		
Supplemen	results use N ntary information	B = no breakdown	or B = break	down				
Supplemen	nary mormation							

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14.8	4.8 TABLE: Transient overvoltage limiting devices								Form A.41		N/A	
	oonent / gnation	Overvoltage Category	MAINS voltage [V rms]	Test voltage [V]	t _m [°C]	t _c [°C]	t _{max} [°C]	Rupture Yes / No	Circuit breaker tripped	Verdict	Com	ments
	om ambie ature:	ent	°C									
NOTE	$t_m = mea$ $t_c = t_m corr$ $t_{max} = max$	asured temper ected ($t_m - t_a +$ timum permit ecked by app	40 °C ted	ositive an	d 5 ne	egative	e impi	ulses with	n the appli	cable im	npulse wit	thstand
		nformation:				<u> </u>						

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Clause	Requirement — Test	Result — Remark	Verdict
		1	

Anne	хH		ualification of ion against			coati	ng				Form	n A.42	N/A	
Tech	nical prop	erties												
Manu	facturer												_	
Туре													_	
Meet	requireme	ents of ANSI	/ UL 746E		[yes /	no]								
Manu	lfacturer d	eclaration of	coating mat	erial	[yes /	no]								
		perature of c			[]°C									
		acking index	(CTI)		[]									
	ation resis				[]Ω									
	ctric stren				[]V									
		(if required)			[yes /	no]								
	mability ra		••••••		F (1								
			imens condu Parameter		[yes /	noj	Com				Vardiat	Com	Comments	
Item	Test con	altioning	Parameter	Td			1	ples			Verdict Comm			
1	Saratah	resistance		h	1	2	3	4	5	6				
1														
	Visual in	spection												
2	Cold			24										
3	Dry heat			48										
4	Rapid ter change	mp.												
5	Damp he	eat		24										
6	Adhesio	n of coating	5 N											
	Visual in	spection												
7	Humidity	,		48										
8	Insulation resistance	n	>= 100 Ω											
	Visual in	spection												
										1				
NOT	ו Td = Te	st duration ti	ne me	<u> </u>		1	1	1	1	1				
		information												

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Clause Requirement — Test Result — Remark Verdict

TABLE: Add	litional or special tests conducted	Form A.43	N/A
Clause and name of test	Test type and condition	Observed results	
upplementary information:	· · · · ·		
-			

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Clause Requirement — Test	Result — Remark	Verdict
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	1: - List of con on for safety	nponents and circ	uits			Р
Unique component reference or location	Application/ function	Manufacturer / trademark (NOTE 1)	Type / model	Technical data (NOTE 2)	Standar d	Mark(s) of conformity evidence of acceptance (NOTE 3 and 4)
Wire	Current carrying material	SHANGHAI CARDIFF CABLE CO LTD	20234	80 ℃	-	Test with appliance
Plastic enclosure	Enclosure	Ningbo Keyao enclosure Co., Ltd.	RC	80℃	-	Test with appliance
\rightarrow 2 May includ \rightarrow 3 List licenc	de electrical, me e no or method	anufacturers of the a echanical values of acceptance ssuring agreed leve	·	ts		



Annex I Photos of Product

----End of Report----