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CNAS L5772




Test Report issued under the responsibility of:



TEST REPORT	
IEC 61010-1	
Safety requirements for electrical equipment for measurement, control, and laboratory use	
Part 1: General requirements	
Report Number.....	PTC23070310003S-IE01
Date of issue.....	2023-07-20
Total number of pages	77
Name of Testing Laboratory preparing the Report	Precise Testing & Certification (Guangdong) Co., Ltd. Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China
Applicant's name	Infitek Co., Ltd.
Address.....	RM.2014, BLDG.3, LIGAOGUOJIHUAYUAN, NO.1222, WEST AOTI ROAD, LIXIA DISTRICT, JINAN, SHANDONG
Test specification:	
Standard	IEC 61010-1:2010, IEC 61010-1:2010/AMD1:2016
Test procedure	PTC
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
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General disclaimer:	
The test results presented in this report relate only to the object tested.	
Projects marked with "☆" in the report have not been qualified or recognized, and are only used for research, teaching or internal quality control.	





Test item description :	Refrigerator	
Trade Mark(s)	INFITEK	
Manufacturer	Infitek Co., Ltd. RM.2014, BLDG.3, LIGAOGUOJIHUAYUAN, NO.1222, WEST AOTI ROAD, LIXIA DISTRICT, JINAN, SHANDONG	
Model/Type reference :	PR5-315 (other models see model list)	
Ratings :	Input: AC 220V, 50Hz, 294W, 1.3A	
Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
<input checked="" type="checkbox"/> Testing Laboratory:	Precise Testing & Certification (Guangdong) Co., Ltd.	
Testing location/ address	Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China	
Tested by (name, function, signature) :	Ringo Chen Project Engineer	
Approved by (name, function, signature) .. :	Alan Ao Reviewer	
		
<input type="checkbox"/> Testing procedure: CTF Stage 1:		
Testing location/ address		
Tested by (name, function, signature) :		
Approved by (name, function, signature) .. :		
<input type="checkbox"/> Testing procedure: CTF Stage 2:		
Testing location/ address		
Tested by (name, function, signature) :		
Witnessed by (name, function, signature) .. :		
Approved by (name, function, signature) .. :		
<input type="checkbox"/> Testing procedure: CTF Stage 3:		
<input type="checkbox"/> Testing procedure: CTF Stage 4:		
Testing location/ address		
Tested by (name, function, signature) :		
Witnessed by (name, function, signature) .. :		
Approved by (name, function, signature) .. :		
Supervised by (name, function, signature) :		

List of Attachments (including a total number of pages in each attachment):
ATTACHMENT 1: Photo Documentation (6 pages).
Summary of testing:
Tests performed (name of test and test clause):

Based on general product information, full tests were carried out on model PR5-315.

The submitted samples fulfilled the requirements of specified standards.

Testing location:

Precise Testing & Certification (Guangdong) Co., Ltd.
Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China

Summary of compliance with National Differences (List of countries addressed):

N/A

☐ The product fulfils the requirements of

Statement concerning the uncertainty of the measurement systems used for the tests

(may be required by the product standard or client)

☐ Internal procedure used for type testing through which traceability of the measuring uncertainty has been established:

Procedure number, issue date and title:



Calculations leading to the reported values are on file with the NCB and testing laboratory that conducted the testing.

☐ Statement not required by the standard used for type testing

(Note: When IEC or ISO standard requires a statement concerning the uncertainty of the measurement systems used for tests, this should be reported above. The informative text in parenthesis should be delete in both cases after selecting the applicable option)

Copy of marking plate:

The below marking is only for representative.

Infitek 2-8°C Refrigerator	
PR5-315	
Add.:	Voltage:
Rm. 2014, Bldg. 3, Ligao	AC 220V/50Hz
guojihuayuan, No. 1222,	294W /1.3A
West Aoti Road, Lixia District,	Production Date:
Jinan, Shandong	2023/07
Made In China	Serial No.:
Tel: +86-531-88982330	
Fax: +86-531-88983691	
Web: https://infitek.com	
 	

Remark:

1. As declared by the applicant, the importer (and manufacturer, if it is different)'s name, registered trade name or registered trademark and the postal address will be marked on the products before being place on the market. The contact details shall be in a language easily understood by end-users and market surveillance authorities.
2. Marking on the packaging or in a document accompanying the electrical equipment is only acceptable if it is not possible to place such markings on the product.
3. Height of "CE" symbol shall be at least 5mm.
4. Labels of other models are identical with Label of model PR5-315 except for model name.

**Test item particulars:**

Type of item: Refrigerator
Description of equipment function: See general product information for detail.
Connection to MAINS supply: Power cord with pulg
Overvoltage category: II
POLLUTION DEGREE: 2
Means of protection: Class I
Environmental conditions: Normal
For use in wet locations: No
Equipment mobility: Movable
Operating conditions: Continuous
Overall size of equipment (W x D x H): 1220mm*650mm*1885mm
Mass of equipment (kg): See manual
Marked degree of protection to IEC 60529: IPX0

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: 2023-07-03
Date (s) of performance of tests: 2023-07-03 to 2023-07-10

General remarks:

The test results presented in this report relate only to the object tested.
This report shall not be reproduced, except in full, without the written approval of the issuing testing laboratory.
"(see ENCLOSURE #)" refers to additional information appended to the report.
"(see Form A.xx)" refers to a Table appended to the report.
Bottom lines for measurement Tables Forms A.xx are optional if used as record.

Throughout this report a ☐ comma / ☒ point is used as the decimal separator.

Manufacturer's Declaration per sub-clause 4.2.5 of IEC 60335-1:

The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided: ☐ Yes ☒ Not applicable

When differences exist; they shall be identified in the general product information section.

Name and address of factory (ies): Infitek Co., Ltd.
RM.2014, BLDG.3, LIGAOGUOJIHUYUAN,
NO.1222, WEST AOTI ROAD, LIXIA DISTRICT,
JINAN, SHANDONG

General product information and other remarks:

1. This Refrigerator is used to for indoor use.
2. Input: AC 220V, 50Hz, 294W, 1.3A

Description of model differences:
1.Model list:

PR5-315, CLR-2, CLR-8, CLR-1.5, CLR-54, CLR-5, CLR-30, CLR-12, CLR-10, CLR-6, CLR-18, CLR-45, CLR-65, BR4-110, BR4-210, BR4-370, BR4-1000, CRF10-S97, MCFR-1000, MCFR-2000, MCFR-3000E, MCFR-3000, MCFR-4000, MCFR-6000, CRF25-300, CRF25-370, CRF40-370, CR-20, CR-25, CR-30-X, CR-35-F, CR-40-X, CR-30, CR-45-F, CR-50-X, CR-55-F, CR-40, CR-50, CR-75, CR-15-B, CR-20-B, MFR25-30, MFR25-80, MR4-700, CLR-2, CLR-8, CLR-1.5, CLR-54, CLR-5, CLR-30, CLR-12, CLR-10, CLR-6, CLR-18, CLR-45, CLR-65, PR5-60, PR5-100F, PR5-100, PR5-250, PR5-320, PR5-310, PR5-420, PR5-415, PR5-1000, PR5-1500, PR5-660, LF25-H110, LF25-100, LF40-H110, LF25-280W, LF25-H310, LF25-270E, LF25-H490, LF40-280E, LF25-330E, LF40-270E, LF40-H310, LF40-330E, LF60-H110, LF40-H490, LF25-360, LF25-530, ULF86-60E, LF60-H490, LF40-360, LF40-530, LF45-408, ULF86-H110, ULF86-190E, ULF86-340E, ULF86-340, ULF86-410E, ULF86-H490, ULF86-590E, ULF86-410, LF25-940, ULF86-590, ULF86-730E, LF40-940, ULF86-410P, ULF86-840E, ULF86-590P, ULF86-730, ULF86-840, ULF86-730P, ULF86-840P, ULF150-H130, BR4-660

Models PR5-315 and other models are identical except for model name and colors. These models have the same construction, circuits designed and electrical components.

Description of special features:

(HV circuits, high pressure systems etc.)

N/A

Summary of testing:	
Clause	Comment
5 Language of safety markings/instructions	Instructions and equipment marking related to safety is applied and checked in English, the instruction and marking should be checked again when marketed in the countries using other language.

IEC 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
4	TESTS		P
4.4	Testing in single fault conditions		P
4.4.1	Fault tests	(see Form A.1)	P
4.4.2	Application of single fault conditions		P
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		P
4.4.2.3	Protective conductor		P
4.4.2.4	Equipment or parts for short-term or intermittent operation		N/A
4.4.2.5	Motors		—
	– stopped while fully energized		P
	– prevented from starting		P
	– one phase interrupted (multi-phase)		P
4.4.2.6	Capacitors		P
4.4.2.7	Mains transformers		P
4.4.2.7.2	Short circuit		P
4.4.2.7.3	Overload		P
4.4.2.8	Outputs		P
4.4.2.9	Equipment for more than one supply		N/A
4.4.2.10	Cooling		P
	– air holes closed		P
	– fans stopped		P
	– coolant stopped		P
	– loss of cooling liquid		P
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		P
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.18)	P

5	MARKING AND DOCUMENTATION		P
5.1.1	Required equipment markings		—
	– visible from the exterior; or		P
	– visible after removing cover or opening door		N/A
	– visible after removal from a rack or panel		N/A
	Not put on parts which can be removed by an operator		P

IEC 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Letter symbols (IEC 60027) used	See marking label	P
	Graphic symbols (IEC 61010-1: Table 1) used	See marking label	P
5.1.2	Identification		P
	Equipment is identified by:		—
	a) Manufacturer's or supplier's name or trademark	See marking label	P
	b) Model number, name or other means	See marking label	P
	Manufacturing location identified	See marking label	P
5.1.3	Mains supply		P
	Equipment is marked as follows:		—
	a) Nature of supply:		—
	1) a.c. rated mains frequency or range of frequencies	See marking label	—
	2) d.c. with symbol 1		—
	b) rated supply voltage(s) or range	See marking label	—
	c) Max. rated power (W or VA) or input current	See marking label	—
	The marked value not less than 90 % of the maximum value		P
	If more than one voltage range:		—
	Separate values marked; or		N/A
	Values differ by less than 20 %		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
	e) Accessory mains socket-outlets accepting standard mains plugs are marked:		—
	With the voltage if it is different from the mains supply voltage		—
	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		P
	Operator replaceable fuse marking (see also 5.4.5).....		—
5.1.5	Terminals, connections and operating devices		P
5.1.5.1	General		—
	Where necessary for safety, indication of purpose of terminals, connectors, controls and indicators marked		P

IEC 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
	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		P
	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		P
	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		P
	If disconnecting device, off position clearly marked		P
	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		P
	Protected throughout (symbol 11 used)		P
	Only partially protected (symbol 11 not used)		P
5.1.8	Field-wiring terminal boxes		P
	If terminal or 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		P

IEC 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Visible when ready for normal use	On the surface of the appliance	P
	Are near or on applicable parts		P
	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		P
	The required markings remain clear and legible in normal use	(see Form A.3)	P
5.4	Documentation	See the user manual	P
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		P
	Documentation necessary for safe operation is provided in printed media or		P
	in electronic media if available at any time		N/A
	Documentation includes:		—
	a) intended use		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 to mitigate residual RISK (see also subclause 17)		P
	f) accessories for safe operation of the equipment specified		P
	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		P
	Warning statements and a clear explanation of warning symbols:		—
	– provided in the documentation; or		P
	– information is marked on the equipment		P
5.4.2	Equipment ratings		P

IEC 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
	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)		N/A
	e) Degree of protection (IEC 60529)	IPX0 only	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		P
	Documentation includes instructions for:		—
	a) assembly, location and mounting requirements		P
	b) protective earthing		N/A
	c) connections to supply		N/A
	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		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		P
	c) instructions for interconnection		N/A
	d) specification of intermittent operation limits		P
	e) explanation of symbols used		P
	f) replacement of consumable materials		N/A
	g) cleaning and decontamination		P
	h) listing of any poisonous or injurious gases and quantities		N/A
	i) risk reduction procedures relating to flammable liquids (see 9.5)		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	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		P
5.4.5	Equipment maintenance and Service		P
	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		P
	Rating and characteristics of fuses		P
	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		P
	Aspects described in documentation		P

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		P
	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	No such parts	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Those parts not hazardous live 10 s after interruption of supply		P
	Capacitance test if charge is received from internal capacitor		P
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		P
	– with jointed test finger (as specified B.2)		P
	– with rigid test finger (as specified B.1) and a force of 10 N		P
6.2.3	Openings above parts that are hazardous live	No opening	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		P
	– test pin with length of 100 mm and 3 mm in diameter applied		P
6.3	Limit values for accessible parts		P
6.3.1	Levels in normal condition		—
	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.		P
	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		P
	70 mA r.m.s. when measured with circuit A.3 for higher frequencies		P
	or		—
	c) Levels of capacitive charge or energy less:		—
	1) 45 μ C 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 55 V r.m.s. and 78 V peak or 140 V d.c.		P
	for wet locations voltage limits less than 33 V r.m.s. and 46,7 V peak or 70 V d.c.		P
	Voltages are not hazardous live the levels of:		—

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Clause	Requirement + Test	Result - Remark	Verdict
	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		P
	for wet locations measuring circuit A.4 used		P
	500 mA r.m.s. when measured with circuit A.3 for higher frequencies		P
	or		—
	c) Levels of capacitive charge or energy less line B of Figure 3		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)		P
	c) Impedance (see 6.4.4)		P
6.4.2	enclosures or protective barriers		—
	– meet rigidity requirements of 8.1		P
	– meet requirements for basic insulation, 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		—
	– meet clearance, creepage distance and solid insulation requirements of 6.7		P
6.4.4	Impedance		—
	Impedance used as primary means of protection meets all of following requirements:		—
	a) limits current or voltage to level of 6.3.2		P
	b) rated for maximum working voltage and the amount of power it will dissipate		P
	c) clearance, creepage distance between terminations of the impedance meet requirements of basic insulation of 6.7		P
6.5	Additional means of protection in case of single fault condition		P
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)		P
	b) supplementary insulation (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)		P

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Clause	Requirement + Test	Result - Remark	Verdict
	Alternatively one of the single means of protection is used:		—
	e) reinforced insulation (see 6.5.3)		P
	f) protective impedance (see 6.5.4)		P
6.5.2	Protective bonding		P
6.5.2.1	Accessible conductive parts, may become hazardous live in single fault condition:		—
	Bonded to the protective conductor terminal; or		P
	Separated by conductive screen or barrier bonded to protective conductor terminal		N/A
6.5.2.2	Integrity of protective bonding		—
	a) protective bonding consists of directly connected structural parts or discrete conductors or both; and withstands thermal and dynamic stresses		P
	b) Soldered connections:		—
	Independently secured against loosening		P
	Not used for other purposes		P
	c) Screw connections are secured		P
	d) protective bonding not interrupted; or		P
	exempted as removable part carries mains supply input connection		P
	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;		P
	Impedance meets 6.5.2.4		P
	h) Protective conductors bare or insulated, if insulated, green/yellow		P
	Exceptions:		—
	1) earthing braids;		N/A
	2) internal protective conductors etc.;		N/A
	Green/yellow not used for other purposes		P
	terminal suitable for connection of a protective conductor, and meets 6.5.2.3		P
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

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Clause	Requirement + Test	Result - Remark	Verdict
	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		P
	f) If plug-in, makes first and breaks last		P
	g) If also used for other bonding purposes, protective conductor:		—
	Applied first;		P
	Secured independently;		P
	Unlikely to be removed by servicing		P
	h) Protective conductor of measuring circuit:		—
	1) Current rating equivalent to measuring circuit terminal;		P
	2) protective bonding: not interrupted by any switch or interrupting device		P
	i) functional earth terminals allow independent connection		P
	j) If a binding screw used for Protective conductor terminal		—
	Suitable size for bond wire		P
	Not smaller than M 4		P
	At least 3 turns of screw engaged		P
	Passes tightening torque test		P
	k) Contact pressure not capable being reduced by deformation of materials		P
6.5.2.4	Impedance of protective bonding of plug-connected equipment		—
	Impedance between protective conductor terminal and each accessible part where protective bonding is specified, is:		—
	– less than 0,1 Ohm; or		P
	– 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		—
6.5.2.6	Transformer protective bonding screen		—
	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

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Clause	Requirement + Test	Result - Remark	Verdict
	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		P
	Meet clearance, creepage distance and solid insulation requirements of 6.7		P
6.5.4	Protective impedance		P
	Limits current or voltage to level of 6.3.1 in normal and to level of 6.3.2 in single fault condition		P
	clearance, creepage distance between terminations of the impedance meet requirements of double or reinforced insulation of 6.7		P
	The protective impedance consists of one or more of the following:		—
	a) appropriate single component suitable for safety and reliability for protection, it is:		—
	1) rated twice the maximum working voltage		P
	2) resistor rated for twice the power dissipation for maximum working voltage		N/A
	b) combination of components		P
	Single electronic device not used as protective impedance		P
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		P
	Device complies with all of:		—
	a) rated to limit the current or voltage to the level of 6.3.2		P
	b) rated for the maximum working voltage; and		P
	rated for the maximum operational current if applicable		P
	c) clearance, creepage distance between terminations of the impedance meet requirements of supplementary insulation of 6.7		P
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

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Clause	Requirement + Test	Result - Remark	Verdict
	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		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		P
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		P
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	See form A.15	P
6.7.1.2	Clearances		—
	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		—
	Required creepage distances reflecting factors of 6.7.1.1 a) to d)		P
	CTI material group reflected by requirements		P
	CTI test performed		N/A
6.7.1.4	Solid insulation		—
	Required solid insulation reflecting factors of 6.7.1.1 a) to d)		P
6.7.1.5	Requirements for insulation according to type of circuit		—
	a) 6.7.2 mains circuits of overvoltage category II up to nominal supply voltage of 300 V		P

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Clause	Requirement + Test	Result - Remark	Verdict
	b) 6.7.3 secondary circuits separated from circuits defined in a) by transformer		P
	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
	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 category II with a nominal supply voltage up to 300 V		P
6.7.2.1	Clearances and creepage distances		—
	Values for mains circuits of Table 4 are met		P
	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		P
	Equipment passed voltage tests of 6.8.3 with values of Table 5		P
	Complies as applicable:		—
	a) enclosure or protective barrier of Clause 8		P
	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		P
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

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Clause	Requirement + Test	Result - Remark	Verdict
	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		—
	Conductors between same two layers are separated by applicable clearances and creepage distance of 6.7.2.1		P
	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		P
6.7.3	Insulation for secondary circuits derived from mains circuits of overvoltage category II up to 300 V		P
6.7.3.1	Secondary circuits where separation from mains circuits is achieved by a transformer providing:		—
	– reinforced insulation		P
	– double insulation		P
	– 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		P
	twice the values of Table 6 for reinforced insulation		P
	or		—
	b) pass the voltage tests of 6.8 with values of Table 6;		—
	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		P
	Values for reinforced insulation are twice the values of basic insulation		P

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Clause	Requirement + Test	Result - Remark	Verdict
	Coatings to achieve reduction to pollution degree 1 comply with requirements of Annex H		N/A
6.7.3.4	Solid insulation		—
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		P
	values for reinforced insulation are 1,6 times the values of basic insulation		P
	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		P
	value for reinforced insulation are twice the working voltage		P
	Complies as applicable:		—
	1) enclosure or protective barrier of Clause 8		P
	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		P
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		P
	Reinforced insulation have adequate electric strength; one of following methods used:		—
	a) thickness at least applicable distance of Table 8		P

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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		P
	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:		—
	a.c. test of 6.8.3.1; or		P
	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		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		P
	c) accidental loosening		P
	d) clearances and creepage distances not reduced below the values of basic insulation by loosening of parts or wires		P
6.9.2	Insulating materials		P
	Material not to be used for safety relevant insulation:		—
	a) easily damaged materials not used		P
	b) non-impregnated hygroscopic materials not used		P
6.9.3	Colour coding		P
	Green-and-yellow insulation shall not be used except:		—
	a) protective earth conductors;		P
	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		P
6.10.1	Mains supply cords		—
	rated for maximum equipment current (see 5.1.3 c)		P
	Cable complies with IEC 60227 or IEC 60245		P
	Heat-resistant if likely to contact hot parts		P
	Temperature rating (cord and inlet)..... :		—
	Green/yellow used only for connection to protective conductor terminals		P
	Detachable cords with IEC 60320 mains connectors:		—
	Conform to IEC 60799; or		N/A
	Have the current rating of the mains connector		P

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Clause	Requirement + Test	Result - Remark	Verdict
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
	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:		—
	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:		—
	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		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		—
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

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Clause	Requirement + Test	Result - Remark	Verdict
	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		P
	Equipment is provided with one of the following:		—
	a) switch or circuit-breaker		N/A
	b) appliance coupler (disconnectable without tool)		P
	c) separable plug (without locking device)		N/A
6.11.4	Disconnecting devices		P
6.11.4.1	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:		—
	Meets IEC 60947-1 and IEC 60947-3		P
	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		P
	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		P
	Single-phase portable equipment cord length not more than 3 m		N/A
	Protective earth conductor connected first and disconnected last		P

7	PROTECTION AGAINST MECHANICAL HAZARDS		P
7.1	Equipment does not cause a mechanical hazard in normal nor in single fault condition	Operation cannot lead to a mechanical in normal condition or single fault condition	P
	Conformity is checked by 7.2 to 7.7		P
7.2	Sharp edges	All easily-touch parts of the equipment are smooth and rounded	P
	Easily touched parts are smooth and rounded		P
	Do not cause injury during normal use and		P
	Do not cause injury during single fault condition		P

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Clause	Requirement + Test	Result - Remark	Verdict
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
	3) 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		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		N/A
7.3.5.1	Access normally allowed		—
	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		P
	Equipment not secured to building structure is physical stable		P

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Clause	Requirement + Test	Result - Remark	Verdict
	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		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
	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		P
8.1	Equipment does not cause a hazard when subjected to mechanical stresses in normal use		P
	Normal protection level is 5 J		P
	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		P
	b) equipment installed in its intended application is not easily touched		P
	c) only occasional access during normal use		P
	d) IK code in accordance to IEC 62262 marked or symbol 14 used with full information in the documentation		P

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Clause	Requirement + Test	Result - Remark	Verdict
	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		P
	Conformity is checked by performing following tests:		—
	1) static test of 8.2.1		P
	2) impact test of 8.2.2 with 5 J except for hand-held equipment		P
	if impact energy not selected to 5 J alternate method of IEC 62262 used		N/A
	3) drop test of 8.3.1 or 8.3.2 except for fixed equipment and equipment with mass over 100 kg		N/A
	Equipment rated with an impact rating of IK 08 that obviously meets the criteria		P
	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 a hazard		P
	iii) clearances not less than their permitted values		P
	iv) insulation of internal wiring remains undamaged		P
	v) protective barriers not 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 test		P
8.2.1	Static test		P
	– 30 N with 12 mm rod to each part of enclosure	See form A.16	P
	– in case of doubt test conducted at maximum rated ambient temperature		P
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.....:		—
	Non-metallic enclosures cooled to minimum rated ambient temperature if below 2 °C		N/A
8.3	Drop test	See form A.16	N/A
8.3.1	Other than hand-held and direct-plug-in equipment		N/A
	Tests conducted with a drop height or angle of:		—
8.3.2	hand-held and direct-plug-in equipment		—
	Non-metallic enclosures cooled to minimum rated ambient temperature if below 2 °C	See form A.16	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	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 requirements of 9.6 additionally		P
	Conformity is checked by minimum one or a combination of the following (see Figure 11):		—
	a) Single Fault test of 4.4; or		P
	b) Application of 9.2 (eliminating or reducing the sources of ignition); or		P
	c) Application of 9.3 (containment of fire within the equipment)		P
9.2	Eliminating or reducing the sources of ignition within the equipment		P
	a) 1) Limited-energy circuit (see 9.4); or		P
	b) 2) basic insulation provided for parts of different potential; or		P
	Bridging the insulation does not cause ignition		N/A
	c) Surface temperature of liquids and parts (see 9.5)		N/A
	d) No ignition in circuits designed to produce heat		P
9.3	Containment of the fire within the equipment, should it occur		P
9.3.1	Spread of fire outside equipment reduced to a tolerable level if:		—
	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		P
	Requirements of 9.5 are met		P
9.3.2	Constructional requirements		—
	a) Connectors and insulating material have flammability classification V-2 or better		P
	b) Insulated wires and cables are flame retardant (VW-1 or equivalent)		P
	c) Enclosure meets following requirements:		—
	1) Bottom and sides in arc of 5 ° (see Figure 13) to non-limited circuits (9.4) meets:		—
	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

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Clause	Requirement + Test	Result - Remark	Verdict
	2) Material of enclosure and any baffle or flame barrier is made of:		—
	Metal (except magnesium); or		P
	Non-metallic materials have flammability classification V-1 or better		N/A
	3) Enclosure and any baffle or flame barrier have adequate rigidity		P
9.4	Limited-energy circuit		P
	a) Potential not more than 30 r.m.s. and 42,4 V peak, or 60 V dc		P
	b) Current limited by one of following means:		—
	1) Inherently or by impedance (see table 17); or		N/A
	2) Overcurrent protective device (see table 18); or	See table 18	N/A
	3) A regulating network limits also in single fault condition (see table 17)		P
	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		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		N/A
	c) Flames are contained within the equipment		N/A
	Detailed instructions for risk-reduction provided		N/A
9.6	Overcurrent protection		P
9.6.1	Mains supplied equipment protected		P
	Basic insulation between mains parts of opposite polarity provided		P
	Devices not in the protective conductor		P
	Fuses or single-pole circuit-breakers not fitted in neutral (multi-phase)		P
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

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Clause	Requirement + Test	Result - Remark	Verdict
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:		—
	– 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		P
	– Are marked with symbol 13		N/A
	– Guards are not removable without tool		N/A
10.2	Temperatures of windings		P
	Limits not exceeded in:		—
	normal condition		P
	single fault condition		P
10.3	Other temperature measurements		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
	d) Parts made of insulating material supporting parts connected to mains supply		P
	e) Terminals carrying a current more than 0,5 A		P
10.4	Conduct of temperature tests		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		P
	Equipment built in as specified in installation instructions		P
10.5	Resistance to heat		P
10.5.1	Integrity of clearance and creepage distances		P
10.5.2	Non-metallic enclosures		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		P

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Clause	Requirement + Test	Result - Remark	Verdict
	a) Parts supporting parts connected to mains supply		P
	b) Terminals carrying a current more than 0,5 A		P
	Examination of material data; or	Insulating material can have adequate resistance to heat	P
	in case of doubt:		P
	1) Ball pressure test; or		P
	2) Vicat softening test of 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	Indoor use	N/A
11.7	Fluid pressure and leakage		N/A
11.7.1	Maximum pressure :		—
	Maximum pressure of any part does not exceed P_{rated}		N/A
11.7.2	Leakage and rupture at high pressure		—
	Fluid-containing parts subjected to hydraulic test if :		—
	a) product of pressure and volume > 200 kPa; 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		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

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Clause	Requirement + Test	Result - Remark	Verdict
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:		—
	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
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 µSv/h and 5 µSv/h in m..... :		—
12.2.1.3	Equipment not intended to emit radiation		—
	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		N/A
	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		N/A
	Equipment not intended to emit ultrasound does not exceed limit of 110 dB between 20 kHz and 100 kHz		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	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
	Equipment meets requirements of IEC 60825-1		N/A

13	PROTECTION AGAINST LIBERATED GASES AND SUBSTANCES, EXPLOSION AND IMPLOSION		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		—
	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

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Clause	Requirement + Test	Result - Remark	Verdict
	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		P
14.1	Where safety is involved, components and subassemblies meet relevant requirements		P
14.2	Motors	No motor used	N/A
14.2.1	Motor temperatures		N/A
	Does not present a hazard when stopped or prevented from starting; or		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		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		P
	No access to hazardous live parts		N/A
14.5	Mains voltage selecting devices	No 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		P
	Data shows conformity with V-1 of IEC 60695-11-10 or better; or	Printed circuit boards are made of material with flammability classification of V-0	P
	Test shows conformity with V-1 of IEC 60695-11-10 or better		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	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:		—
	– 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 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		P
16.1	Reasonably foreseeable misuse		P
	No hazards arising from settings not intended and not described in the instructions	No hazards	P
	Other cases of reasonably foreseeable misuse addressed by risk assessment		P
16.2	Ergonomic aspects		P
	Factors giving rise to a hazard the risk assessment is reflecting those aspects:	No hazards	—
	a) limitation of body dimensions		N/A
	b) displays and indicators		P
	c) accessibility and conventions of controls		P
	d) arrangement of TERMINALS		P
17	RISK ASSESSMENT		N/A
	Risk assessment conducted, if hazard might arise and not covered by Clauses 6 to 16	No such hazards	N/A
	Tolerable risk achieved by iterative documented process covering the following:		—
	a) Risk analysis		N/A
	Identifies hazards and estimates risk		N/A
	b) Risk evaluation		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Plan to judge acceptability of resulting risk level based on the estimated severity and likelihood of a risk		N/A
	c) Risk reduction		N/A
	Initial risk reduced by counter measures;		N/A
	Repeated risk evaluation without new risks introduced		N/A
	Risks remaining after risk assessment addressed in instructions to responsible body:		—
	Information contained how to mitigate these risks		N/A
	Following principles in methods of risk reduction applied by manufacturer in given order:		—
	1) Risks eliminated or reduced as far as possible		N/A
	2) Protective measures taken for risks that cannot be eliminated		N/A
	3) User information about residual risk due to any defect of the protective measures		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:		—
	a) Manufacturer indicate that it is a coating for PWBs;		N/A
	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		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Coating complies with the conformity requirements.		N/A
ANNEX K	INSULATION REQUIREMENTS NOT COVERED BY CLAUSE 6.7		P

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Clause	Requirement + Test	Result - Remark	Verdict
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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	
4.4.2.2	1	Protective impedance	--		P	
4.4.2.3	2	Protective conductor	--		P	
4.4.2.4	3	Equipment or parts for short-term or intermittent operation	--	Continuously operation	N/A	
4.4.2.5	4	Motors	--		P	
4.4.2.6	5	Capacitors	--	No motors capacitors	N/A	
4.4.2.7	6	Mains transformers attach drawing of mans TxS showing all protective devices	--	No mains transformers	N/A	
4.4.2.8	7	Outputs	--	Output protection	P	
4.4.2.9	8	Equipment for more than one supply	--	220V	N/A	
4.4.2.10	9	Cooling - air holes closed - fans stopped - coolant stopped	--		P	
4.4.2.11	10	Heating devices - timer overridden - temperature controller overridden - loss of cooling liquid - overfilled or empty or both	--		P	
4.4.2.12	11	Insulation between circuits and parts	--	See appendix table 4.4	P	
4.4.2.13	12	Interlocks	--	No interlocks	N/A	
4.4.2.14	13	Voltage selectors	--	No voltage selectors	N/A	

NOTE Td = Test duration in hh:mm:ss Record dielectric strength test on Form A.18 and temperature tests on Form A.26A and or A.26B.

Record in the comments column for each test whether carried out during or after single fault condition.

Supplementary information:

IEC 61010-1

Clause	Requirement + Test	Result - Remark	Verdict
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4.4	TABLE: Testing in SINGLE FAULT CONDITION – Results			Form A.1		N/A
Test subclause	Fault No.	Fault description	Td 4.4.3 (NOTE)	How was test terminated Comments	Meets 4.4.4	
--	--	--	--	--	--	
--	--	--	--	--	--	
--	--	--	--	--	--	
--	--	--	--	--	--	
--	--	--	--	--	--	
--	--	--	--	--	--	
--	--	--	--	--	--	
--	--	--	--	--	--	
--	--	--	--	--	--	
--	--	--	--	--	--	

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.

Supplementary information:

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Clause	Requirement + Test				Result - Remark	Verdict
5.1.3c)	TABLE: MAINS supply				Form A.2	P
	Marked rating		220 V			—
	Phase					—
	Frequency		50 Hz			—
	Current		1.3 A			—
	Power		W			—
	Power		VA			—
Test No.	Voltage [V]	Frequency [Hz]	Current [A]	Power [W] [VA]		Comments
--	220	50	1.18	--	259.6	Maximum normal load.
NOTE – Measurements are only required for marked ratings. Initial inrush currents are not regarded.						
Supplementary information:						

IEC 61010-1					
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)		3)			
Mains supply (5.1.3)		N/A			
Fuses (5.1.4)		5)			
Terminals and operating devices (5.1.5.2)		N/A			
Switches and circuit breakers (5.1.6)		2)			
Double/reinforced equipment (5.1.7)		N/A			
Field wiring Terminal boxes (5.1.8)		N/A			
Warning marking (5.2)		1), 2)			
Battery charging (13.2.2)		N/A			
Method	Test agent	Remains legible	Label loose	Curled edges	Comments
		Verdict	Verdict	Verdict	
1/2/3	A/B	P	P	P	Clearly legible
Supplementary information:					

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Clause	Requirement + Test	Result - Remark	Verdict
6.2	TABLE: List of accessible parts		Form A.4
6.1.2	Exceptions		—
6.2	Determination of accessible parts		—
Item	Description	Determination method (note 5)	Exception under 6.1.2 (note 4)
1	Scale panel	V, R, J	N/A
2	screen	V, R, J	N/A
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 – Capacitor 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.			
Supplementary information:			

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Clause	Requirement + Test	Result - Remark	Verdict

6.5.2.2	TABLE: Cross-sectional area of bonding conductors		P	
Conductor location		CROSS-SECTIONAL AREA [mm ²]	Verdict	
Protective bonding conductor		0.75	P	
Supplementary information:				
6.5.2.3	TABLE: Tightening torque test		Form A.8	N/A
Conductor location		Size of screw	Tightening torque [Nm]	Verdict
--		--	--	--
--		--	--	--
--		--	--	--
--		--	--	--
--		--	--	--

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Clause	Requirement + Test		Result - Remark	Verdict
6.5.2.4	TABLE: BONDING impedance of plug-connected equipment			Form A.9
	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)
	Earthing to protective bonding conductor terminal	25	1.275	0.051
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
	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 PROTECTIVE BONDING screen			Form A.11
	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]
	--	--	--	--
	--	--	--	--
	--	--	--	--
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).				
Supplementary information:				

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Clause	Requirement + Test	Result - Remark	Verdict
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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.									
Supplementary information:									

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Clause	Requirement + Test	Result - Remark	Verdict
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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]			
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
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Supplementary information:								

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Clause	Requirement + Test	Result - Remark	Verdict

6.7	TABLE: Insulation requirements - Block diagram of system -	Form A.14	N/A									
Pollution degree.....:						Overvoltage category.....:						
Area	Location	Insulation type (NOTE 1)	WORKING VOLTAGE			CLEARANCE (NOTE 3) [mm]	CREEPAGE DISTANCE (NOTE 3)				Test voltage (NOTE 2) [V]	Comments (NOTE 3)
			RMS [V]	Peak [V]	Freq. [kHz]		PWB [mm]	CTI	Other [mm]	CTI		
A	--	--	--	--	--	--	--	--	--	--	--	--
B	--	--	--	--	--	--	--	--	--	--	--	--
C	--	--	--	--	--	--	--	--	--	--	--	--
D	--	--	--	--	--	--	--	--	--	--	--	--
E	--	--	--	--	--	--	--	--	--	--	--	--
F	--	--	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--	--	--
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:												

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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	Different polarities of L/N before fuse	BI	250	420	--	1.5	3.5	3.0	3.5	100	P	Pollution degree 2, Overvoltage category II
B	Power supply board to metal enclosure	BI	250	420	--	1.5	5.6	3.0	5.6	100	P	Pollution degree 2, Overvoltage category II
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.....:		V	Hz									
Supplementary information:												

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Clause	Requirement + Test	Result - Remark	Verdict
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6.7	TABLE: Insulation requirements- Clearances and Creepages									Form A.16	N/A	
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	Rigidity (8.2)		Drop (8.3)		RATED ambient	Clearance	Creepage distance		
			N	Static (8.2.1)	Impact (8.2.2)	Normal (8.3.1)	Hand-held/ Plug-in	(10.5.1)	mm	mm		
--	--	--	--	--	--	--	--	--	--	--	--	--
NOTE – Refer to Form A.18 for dielectric strength tests following the above tests.												
Supplementary information:												

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						N/A
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 /	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	--	--	--	--	--
8. Cycle from	--	to	--	--	--	--	--
9. Cycle from	--	to	--	--	--	--	--
10. 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)							
Supplementary information:							

IEC 61010-1			
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					P
9.2 a) 2)	Eliminating or reducing the sources of ignition within the equipment					P
9.4 c)	Limited-energy circuit					P
9.6.1	Overcurrent protection basic insulation between MAINS - parts					P
	Test site altitude			Under 2000m		—
	Test voltage correction factor (see table 10)			1		—
Location or references from Forms A.1 and A.14	Clause or sub-clause	Humidity	Working voltage	Test voltage	Comments (NOTE)	Verdict
		Yes/No	V	r.m.s./peak/d.c.		
L/N to enclosure	/	Yes	240	4200 Vdc	1 min	P
L/N to output terminal	/	Yes	240	4200 Vdc	1 min	P

¹ Record the fault, test or treatment applied before the dielectric strength test. ² Humidity preconditioning required.

NOTE: Test duration may be recorded.

Supplementary information:

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					P
9.2 a) 2)	Eliminating or reducing the sources of ignition within the equipment					P
9.4 c)	Limited-energy circuit					P
9.6.1	Overcurrent protection basic insulation between MAINS - parts					P
	Test site altitude			Under 2000m		—
	Test voltage correction factor (see table 10)			1		—
Location or references from Forms A.1 and A.14	Clause or sub-clause	Humidity	Working voltage	Test voltage	Comments (NOTE)	Verdict

IEC 61010-1

Clause	Requirement + Test	Result - Remark	Verdict
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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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Supplementary information:

IEC 61010-1								
Clause	Requirement + Test					Result - Remark	Verdict	
7.4	TABLE: Stability					Form A.20A	P	
	Equipment height / mass					480 mm 35.62 kg	—	
	Equipment (Containers) loaded					[yes / no]	—	
	Castors at unfavourable position					[yes / no]	—	
	Doors, drawers and movable arms closed					[yes / no]	—	
	Doors and drawers at unfavourable position					[yes / no]	—	
	Location	Tilt angle	Applied force				Comments	Verdict
		10°	250 N	20% [N]	800 N	4 times load [N]		
	Front side	yes	yes	--	--	--	--	P
	Left side	yes	yes	--	--	--	--	P
	Rear side	yes	yes	--	--	--	--	P
	Right side	yes	yes	--	--	--	--	P
	Top side	yes	yes	--	--	--	--	P
	Working surface	yes	yes	--	--	--	--	P
	Ledge	--	--	--	--	--	--	N/A
	Castor / support foot	--	--	--	--	--	--	N/A
	Castor / support foot removed	--	--	--	--	--	--	N/A
Supplementary information:								
7.6	TABLE: Wall mounting					Form A.20B	N/A	
	Equipment weight					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]				
	Mounting brackets							
Supplementary information:								

IEC 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
8.2	TABLE: ENCLOSURE rigidity test	Form A.21A	P
8.2.1	Static test		N/A
	Material of enclosure	Metal / non-metallic	—
	Preparation for the test:		—
	Operated at ambient temperature	°C h	—
	Location	Comments	Verdict
	1) Top	No hazard, no damaged	P
	2) Side left / right	No hazard, no damaged	P
	3) Bottom	No hazard, no damaged	P
Supplementary information:			
8.2.2	TABLE: Impact test		P
	Material of enclosure	Metal / non-metallic	—
	Corresponding IK-code	--	—
	Preparation for the test:	--	—
	Cooled to (temperature)	°C	—
	Location	Comments	Verdict
	1) Top	No hazard, no damaged	P
	2) Side left / right	No hazard, no damaged	P
	3) Bottom	No hazard, no damaged	P
Supplementary information:			

IEC 61010-1				
Clause	Requirement + Test		Result - Remark	Verdict
8.3	TABLE: Drop test			Form A.21B
8.3.1	Other equipment			N/A
	Location	Raised up to		Comments
		[mm]	30 °	
1)		--	--	--
2)		--	--	--
3)		--	--	--
4)		--	--	--
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			--	--
Supplementary information:				

IEC 61010-1

Clause	Requirement + Test	Result - Remark	Verdict
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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	Measuring circuit	9c	Insulated wire of VW-1, PCB of V-0	P	
3	Other circuit on PCB	9c	PCB of V-0, enclosure of V-0	P	
Supplementary information:					

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						N/A
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	--	--	--	--	--	--
Supplementary information:							

IEC 61010-1

Clause	Requirement + Test	Result - Remark	Verdict
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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		
--	--	--	--	
--	--	--	--	
--	--	--	--	
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--	--	--	--	
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Supplementary information:				

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:		Load: t the multimeter measuring the current 10A for 10s every each 15minutes According to the instruction specified by the manufacturer.					
Frequency		50 Hz	Test room ambient temperature (ta)...		24.2 °C		
Voltage		198/242 V	Test duration		2 h 10 min		
Part / Location		198V50Hz [°C]	242V50Hz [°C]	t_{max} [°C]	Verdict	Comments	
1.Power cord		34.3	34.8	70	P	--	
2.Input wire		35.2	35.7	80	P	--	
3.Switch shell		32.1	32.6	95	P	--	
4.PCB		48.7	48.9	130	P	--	
5. Motor		59.5	61.3	100	P	--	
6.Internal wiring		51.3	51.8	80	P	--	
7. Compressor		62.3	63.5	100	P	--	
8. Power switch		33.8	34.2	70	P	--	
9.Screen		33.4	34.1	80	P	--	
10.Ambient		30.0	30.0	--	P	--	
NOTE 1 - t_m = measured temperature $t_c = t_m$ corrected ($t_m - t_a + 30^\circ\text{C}$ 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 Supplementary information:							

10.2	TABLE: Temperature of windings					Form A.26B	N/A
Resistance method Temperature Measurements							
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]
--		--	--	--	--	--	--
--		--	--	--	--	--	--

IEC 61010-1									
Clause	Requirement + Test						Result - Remark		Verdict
--	--	--	--	--	--	--	--	--	--
NOTE 1- R_{cold} = initial resistance R_{warm} = final resistance t_r = temperature rise $t_c = t_r$ corrected ($t_c = t_r + [40\text{ °C or max RATED ambient}]$) 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									
Supplementary information:									

IEC 61010-1								
Clause	Requirement + Test					Result - Remark		Verdict
10.2	TABLE: Temperature of windings Resistance method Temperature Measurements						Form A.26B	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	R _{cold} [Ω]	R _{warm} [Ω]	Current [A]	t _r [K]	t _c [°C]	t _{max} [°C]	Verdict	Comments
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
NOTE 1- R _{cold} = initial resistance t _r = temperature rise t _{max} = maximum permitted temperature R _{warm} = final resistance t _c = t _r corrected (t _c = t _r + [40 °C or max RATED ambient]) 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								
Supplementary information:								

IEC 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
10.5.2	TABLE: Resistance to heat of non-metallic ENCLOSURES	Form A.27	N/A
	Test method used:		—
	Non-operative treatment	[]	N/A
	Empty ENCLOSURE	[]	N/A
	Operative treatment	[]	NA
	Temperature during tests	70 °C	—
	Description	Material	Comments
	--	--	--
Dielectric strength test (6.8).....: V [r.m.s./peak/d.c.]			
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.			
Supplementary information:			

10.5.3	TABLE: Insulating material	Form A.28	P
10.5.3 1)	Ball-pressure test		
	Max. allowed impression diameter.....:	2 mm	—
	Part	Test temperature [°C]	Impression diameter [mm]
	PCB	125	1.10
Verdict			
P			
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]
	--	--	--
	--	--	--
Supplementary information:			

IEC 61010-1

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

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)				
Enclosure	30N Φ12mm	--	--	1m	--	--	--	--	1000Vac	5312V r.m.s	P	Handheld equipment
Probe assembly	20N Φ12mm	--	--	1m	--	--	--	--	1000Vac	5312V r.m.s	P	Tested according to EN61010-031cl, 8.1, 8.2 and 8.3

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

Supplementary information:

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		
--		--	--	--		
Supplementary information:						

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		--	--	--
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.				
Supplementary information:				

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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--	--	--	
--	--	--	
Supplementary information:			

IEC 61010-1

Clause	Requirement + Test	Result - Remark	Verdict
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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	
--	--	--	--	--	--	--	--	--	--	--	--	
--	--	--	--	--	--	--	--	--	--	--	--	
--	--	--	--	--	--	--	--	--	--	--	--	
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--	--	--	--	--	--	--	--	--	--	--	--	
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).												
Supplementary information:												

IEC 61010-1

Clause	Requirement + Test	Result - Remark	Verdict
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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				[yes / no]						N/A	
Manufacturer declaration of coating				[yes / no]						N/A	
Operating temperature of coating				[] °C						N/A	
Comparative tracking index (CTI)				[]						N/A	
Insulation resistance				[] MΩ						N/A	
Dielectric strength				[] V						N/A	
UV resistance (if required)				[yes / no]						N/A	
Flammability rating										N/A	
Preparation of the test specimens				[yes / no]						N/A	
Item	Test conditioning	Parameter	Td h	Samples						Verdict	Comments
				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		--	--	--	--	--	--	--	--
6.	Visual inspection			--	--	--	--	--	--	--	--
7.	Humidity		48	--	--	--	--	--	--	--	--
8.	Insulation resistance	≥ 100 MΩ		--	--	--	--	--	--	--	--
9.	Visual inspection			--	--	--	--	--	--	--	--
10.				--	--	--	--	--	--	--	--
NOTE Td = Test duration time											
Supplementary information:											

IEC 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
TABLE: Additional or special tests conducted			Form A.43
Clause and name of test	Test type and condition	Observed results	—
--	--	--	--
Supplementary information:N/A			

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)
1.	Input wire	Hunan Valin Cable Co., Ltd.	GR-B8	--	--	UL
2.	Power supply cord	Ching Cheng Wire Material Co., Ltd.	WW05VAS-F	3 x1.0 mm ²	--	VDE
3.	PCB	Dongguan Formosto Electronics Co., Ltd.	OF-2	--	--	UL
4.	Power switch	Omron Automation (China) Co., Ltd.	JA-9	Single pole, 10E3, Rated AC250V, 16A, Rated AC125V, 16A	--	VDE
5.	Motor	Kunming Yunnei Power Co., Ltd.	GI-12	--	--	VDE
6.	Compressor	Jinan Compressor Factory Co., Ltd.	MFA-1P	--	--	TUV
7.	electrical control system	Shandong Aipu Electric Equipment Co., Ltd.	MT-150	--	--	VDE
NOTE → 1 List all different manufacturers of the above components → 2 May include electrical, mechanical values → 3 List licence no or method of acceptance → 4 asterisk indicates mark assuring agreed level of surveillance						

ATTACHMENT 1 Photo Documentation

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Report No.:
PTC23070310003S-IE01

Product: Refrigerator
Type Designation: See test report for details



Fig. 1



Fig. 2

ATTACHMENT 1 Photo Documentation

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Report No.:
PTC23070310003S-IE01

Product: Refrigerator
Type Designation: See test report for details

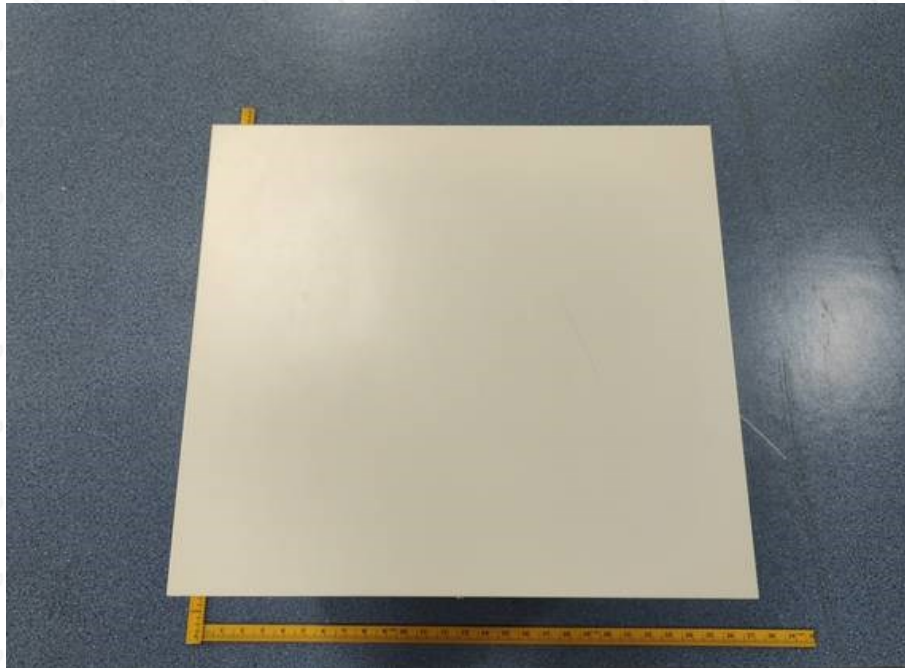


Fig. 3



Fig. 4

ATTACHMENT 1 Photo Documentation

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Product: Refrigerator
Type Designation: See test report for details



Fig. 5



Fig. 6

ATTACHMENT 1 Photo Documentation

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Product: Refrigerator
Type Designation: See test report for details

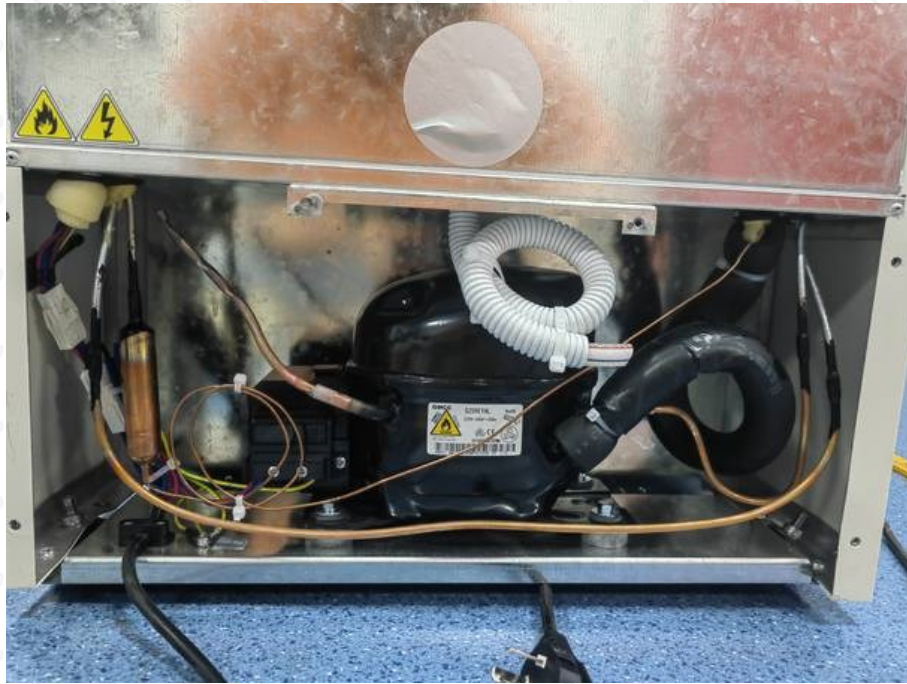


Fig. 7

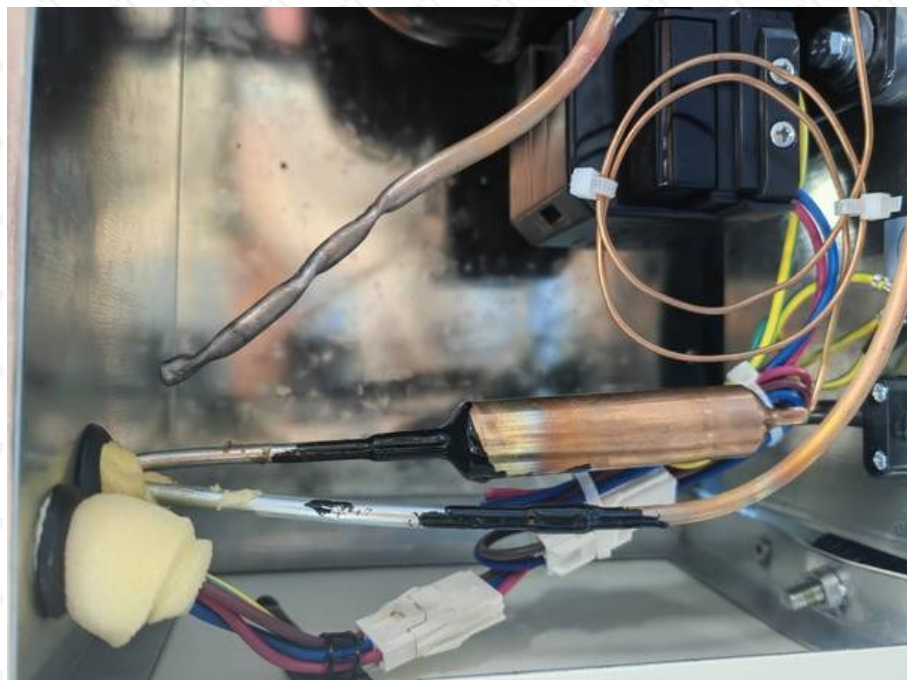


Fig. 8

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Fig. 9



Fig. 10

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Fig. 11