

Shenzhen Toby Technology Co., Ltd.

Report No.: TB-LVD164620 Page: 1 of 77

LVD Test Report

Application No. TB190321128

Dongguan YuYuanSen Electronic Technology Co. LTD **Applicant**

Equipment Under Test (EUT)

Hand massager **EUT Name**

WJS-628A Model No.

Series Model No.

Brand Name wujianshi

2019-03-11 **Issue Date**

EN 60335-1: 2012+A11: 2014 **Standards**

Conclusions Complied

This report shows that the product technically complies with the Council LVD

Directive 2014/35/EU requirements.

Report by (Sarck Lew)

Shulen Benny Xu Westin zheng Checked by (Benny Xu)

Approved by (Justin Zhang)

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Revision History

Report No.	Version	Description	Issued Date
TB-LVD164620	Rev.01	Initial issue of report	2019-03-11
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TEST REPORT IEC/EN 60335-1

Household and similar electrical appliances –

Safety - Part 1: General requirements

Report Reference No. TB-LVD164620

Total number of pages:: 77 pages

Testing Laboratory name: Shenzhen Toby Technology Co., Ltd.

1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Address:

Xixiang Section 467, Xixiang, Bao'an Shenzhen, Guangdong,

China

Applicant's name: Dongguan YuYuanSen Electronic Technology Co. LTD

Address: Xinhe Road NO.2, Xinxing Industrail Area, Shitanbu, Tangxia

Town, Dongguan City. Guangdong Province, China

Manufacturer's name..... Dongguan YuYuanSen Electronic Technology Co. LTD

Address Xinhe Road NO.2, Xinxing Industrail Area, Shitanbu, Tangxia

Town, Dongguan City. Guangdong Province, China

Test specification:

X EN 60335-1: 2012+A11: 2014 Standard

CE-LVD test procedure Test procedure:

Non-standard test method..... N/A

Test Report Form No.: IECEN60335 1B

Test Report Form(s) Originator.....: **TOBY**

Dated 2014-01 Master TRF

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Test item description....: Hand massager

Trade Mark....: wujianshi

Dongguan YuYuanSen Electronic Technology Co. LTD Manufacturer....:

Address....: Xinhe Road NO.2, Xinxing Industrail Area, Shitanbu, Tangxia

Town, Dongguan City. Guangdong Province, China

Model/Type reference: **WJS-628A** DC25.2V, 1A Ratings.....:

Battery: 22.2V, 2400mAh



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Test item particulars	
Electrical safety class:	Class III
IP number:	IP20
Classification of installation and use :	Portable appliance
Possible test case verdicts:	
- test case does not apply to the test object:	N/A
- test object does meet the requirement:	P (Pass)
- test object does not meet the requirement	F (Fail)
Date of receipt of test item	2019-03-04
Date (s) of performance of tests:	2019-03-04 to 2019-03-11

General remarks:

"(see remark #)" refers to a remark appended to the report.

"(see appended table)" refers to a table appended to the report.

Throughout this report a comma is used as the decimal separator.

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

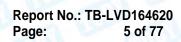
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General product information:

Hand massager, powered by DC25.2V adapter or internal lithium battery.

Copy of marking plate:



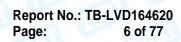




	IEC/EN 60335-1		
Clause	Requirement - Test	Result - Remark	Verdict
5	GENERAL CONDITIONS FOR THE TESTS		Р
THE STATE OF	Tests performed according to cl. 5, e.g. nature of supply, sequence of testing, etc.	TON TO	P
5.2	If the test of Annex D has to be carried out, an additional appliance may be used	THE THE PARTY	Р
5.3	The tests of Clause 14 and 21.2 and 22.24 are carried out after the tests of Clause 29.	TOUS TOUR	N
THE STATE OF	The test of 19.14 is carried out before the tests of 19.11	TOBY T	N
5.14	NOTE: Guidance is given in Annex P for enhanced requirements that may be used to ensure an acceptable level of protection against electrical and thermal hazards for particular types of appliances used in an installation without a protective earthing conductor in countries that have warm damp equable climates.		N N

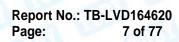
6	CLASSIFICATION	The same	Р
6.1	Protection against electric shock: Class I, II, II	Class III	P
TIME	Class II or class III for hand-held kitchen machines. (EN 60335-1)		N N
	Class 0 or class I if their rated voltage does not exceed 150 V. (EN 60335-1)		N
6.2	Protection against harmful ingress of water	IP20	N

7	MARKING AND INSTRUCTIONS	THE PARTY OF THE P	Р
7.1	Rated voltage or voltage range (V):	25.2V or 22.2V	Р
TOP	The marking of rated voltage or rated voltage range, for appliances intended to be connected to the supply mains, shall cover:	THE PERSON OF TH	N
	- 230 V for single-phase appliances	3 - 1000	N
100	- 400 V for multi-phase appliances		N
	Nature of supply:		N
27	Rated frequency (Hz):		N
The	Rated power input (W):		N
	Rated current (A):	1A	Р
TIE	Manufacturer's or responsible vendor's name, trademark or identification mark:	See marking plate	Р
	Model or type reference:	23 0000	P
(Tree	Symbol 5172 of IEC 60417, for Class II appliances	Class III	N



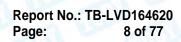


	IEC/EN 60335-1		
Clause	Requirement - Test	Result - Remark	Verdict
6	symbol 5180 of IEC 60417, for class III appliances	The course of the	N
	-this marking is not necessary for appliances that are operated only by batteries	TODAY TODAY	N
J BR	IP number, other than IPX0:	The state of the s	N
1013	The enclosure of electrically-operated water valves incorporated in external hose-sets for connection of an appliance to the water mains shall be marked with symbol IEC 60417-5036 (DB:2002-10) if their working voltage exceeds extra-low voltage.	EN LOSS LOSS LOSS	N
7.2	Warning for stationary appliances for multiple supply	THE PERSON NAMED IN	N
(1)	Warning placed in vicinity of terminal cover		N
7.3	Range of rated values marked with the lower and upper limits separated by a hyphen	TODY TODY	N
Jan Jan	Different rated values marked with the values separated by an oblique stroke	THE THE PARTY OF T	N
7.4	Appliances adjustable for different rated voltages, the voltage setting is clearly discernible	No adjustment of voltage	N
7.5	Appliances with more than one rated voltage or one or more rated voltage ranges, marked with rated input or rated current for each rated voltage or range, unless		N
133	the power input is related to the arithmetic mean value of the rated voltage range	TOTAL TOTAL	N
	Relation between marking for upper and lower limits of rated power input or rated current and voltage is clear	ON TONI	N
7.6	Correct symbols used		N
TOBS	[symbol IEC 60417-5021 (DB:2002-10)] equipotentiality	LIDE TO THE	N
E P	[symbol IEC 60417-5036 (DB:2002-10)] dangerous voltage	TOTAL STORY	N
7.7	Connection diagram fixed to appliances to be connected to more than two supply conductors and appliances for multiple supply		N
7.8	Except for type Z attachment, terminals for connect follows:	ion to the supply mains indicated as	Р
TOB	- marking of terminals exclusively for the neutral conductor (N)		Р
- 1	- marking of protective earthing terminals (symbol 5019 of IEC 60417)	The state of the s	Р



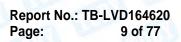


	IEC/EN 60335-1			
Clause	Requirement - Test	Result - Remark	Verdict	
	- marking not placed on removable parts		N	
7.9	Marking or placing of switches which may cause a hazard	EDDA TOTAL	P	
7.10	Indications of switches on stationary appliances and controls on all appliances by use of figures, letters or other visual means:		N	
000	The figure 0 indicates only OFF position, unless no confusion with the OFF position		N	
7.11	Indication for direction of adjustment of controls	LOS TON	N	
7.12	Instructions for safe use provided	1 1000	Р	
1133	The instructions state that:		Р	
	-the appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.	Statement included.	P	
Barre	-children being supervised not to play with the appliance	Statement included.	P	
	-a part of class III construction supplied from a detachable power supply unit shall state that the appliance is only to be used with the power supply unit provided with the appliance.		N	
THE REAL PROPERTY.	- class III appliances shall state that it must only be supplied at safety extra low voltage corresponding to the marking on the appliance. This instruction is not necessary for battery- operated appliances if the battery is a primary battery or secondary battery charged outside of the appliance.		N	
William .	CAUTION: Ensure that the blender is switched off before removing it from the stand.	The same of the sa	Р	
	The instructions include details on how to clean surfaces in contact with food	COLUMN TOUR	Р	
B W	Switch off the appliance before changing accessories or approaching parts which move in use	THE PARTY OF THE P	P	
7.12.1	Sufficient details for installation supplied		Р	





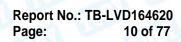
	IEC/EN 60335-1		
Clause	Requirement - Test	Result - Remark	Verdict
7.12.2	Stationary appliances not fitted with means for disconnection from the supply mains having a contact separation in all poles that provide full disconnection under overvoltage category III, the instructions state that means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules	Not stationary appliance	N
7.12.3	Insulation of the fixed wiring in contact with parts exceeding 50 K during clause 11; instructions stating that the fixed wiring must be protected		N
7.12.4	Instructions for built-in appliances:		N
THE V	- dimensions of space		N
المعتلا	- dimensions and position of supporting means	Burn Comment	Z
33 m	- distances between parts and surrounding structure		N
	- dimensions of ventilation openings and arrangement	THE PARTY OF THE P	N
MORE	- connection to supply mains and interconnection of separate components	TODY TODY	N
OB C	- necessity to allow disconnection of the appliance from the supply after installation, unless the appliance incorporates a switch complying with 24.3		N
	- The disconnection may be achieved by having the plug accessible or by incorporating a switch in the fixed wiring in accordance with the wiring rules.	TODAY TODAY TODAY	N
7.12.5	Replacement cord instructions, type X attachment with a specially prepared cord	TODY TODY	N
	Replacement cord instructions, type Y attachment	The same of the sa	N
11175	Replacement cord instructions, type Z attachment	TOUR TOUR	N
7.12.6	The instructions for heating appliances incorporating out that is reset by disconnection of the supply main following:		N
	CAUTION: In order to avoid a hazard due to inadvertent resetting of the thermal cut-out, this appliance must not be supplied through an external switching device, such as a timer, or connected to a circuit that is regularly switched on and off by the utility		N
7.12.7	The instructions for fixed appliances shall state how the appliance is to be fixed to its support.	3 TODAY TO	N
7.12.8	The instructions for appliances connected to the wa	ater mains shall state	N





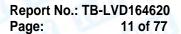
	IEC/EN 60335-1				
Clause	Requirement - Test	Result - Remark	Verdict		
	- the maximum inlet water pressure, in pascals;	The appliance not connected to water mains	N		
A ED	- the minimum inlet water pressure, in pascals, if this is necessary for the correct operation of the appliance.		N		
TOP!	The instructions for appliances connected to the water mains by detachable hose-sets shall state that the new hose-sets supplied with the appliance are to be used and that old hose-sets should not be reused.		N		
7.13	Instructions and other texts in an official language	In English or/and local language	Р		
7.14	Marking clearly legible and durable	WUBB WOODS	Р		
D W	Compliance is checked by inspection and by rubbing the marking by hand for 15 s with a piece of cloth soaked with water and again for 15 s with a piece of cloth soaked with petroleum spirit.		P		
HOLE	After all the tests of this standard, the marking shall be clearly legible. It shall not be easily possible to remove marking plates nor shall they show curling.		Р		
7.15	The markings specified in 7.1 to 7.5 shall be on a main part of the appliance.		Р		
	Markings on the appliance shall be clearly discernible from the outside of the appliance but if necessary after removal of a cover.	THE PERSON OF TH	Р		
3 000	For portable appliances, it shall be possible to remove or open this cover without the aid of a tool.	THE THE PARTY OF	N		
MODE	For stationary appliances, name, trademark or identification mark and model or type reference visible after installation		N		
TO STATE OF THE PARTY OF THE PA	For fixed appliances, name, trademark or identification mark and model or type reference visible after installation according to the instructions		P		
I THE	Indications for switches and controls placed on or near the components. Marking not on parts which can be positioned or repositioned in such a way that the marking is misleading		N		
7.16	Marking of a possible replaceable thermal link or fuse link clearly visible with regard to replacing the link		N		

8	PROTECTION AGAINST ACCESS TO LIVE PARTS	N
		and the same of th





	IEC/EN 60335-1		
Clause	Requirement - Test	Result - Remark	Verdict
8.1	Adequate protection against accidental contact with live parts	3 1000	N N
8.1.1	Requirement applies for all positions, detachable parts removed	TODIS OF	N
SI CO	Insertion or removal of lamps, protection against contact with live parts of the lamp cap	TOTAL TOTAL	N
100	Use of test probe B probe of EN 61032: no contact with live parts		N
8.1.2	Use of test probe 13 of IEC 61032 through openings in class 0 appliances and class II appliances/ constructions: no contact with live parts		N
33 0	Test probe 13 also applied through openings in earthed metal enclosures having a non-conductive coating: no contact with live parts		N
8.1.3	For appliances other than class II, use of test probe 41 of IEC 61032: no contact with live parts of visible glowing heating elements		N
8.1.4	Accessible part not considered live if:	TOTAL TOTAL	N
1	- safety extra-low a.c. voltage: peak value not exceeding 42.4 V	The state of the s	N
The same	- safety extra-low d.c. voltage: not exceeding 42.4 V	TO TO THE REAL PROPERTY.	N
133	- or separated from live parts by protective impedance	EDES THE PERSON OF THE PERSON	N
B	If protective impedance: d.c. current not exceeding 2 mA, and	003	N
Mills	a.c. peak value not exceeding 0.7 mA	TO THE REAL PROPERTY.	N
TO B	- for peak values over 42.4 V up to and including 450 V, capacitance not exceeding 0,1 μF	THE PERSON NAMED IN	N
	- for peak values over 450 V up to and including 15 kV, discharge not exceeding 45 μC	3 1000	N
TIPE OF THE	-for peak values over 15 kV, the energy in the discharge not exceeding 350 mJ	COLUMN TO SERVICE STATE OF THE PARTY OF THE	N
	The quantity of electricity in the discharge is measured using a resistor having a nominal non-inductive resistance of 2 000 Ω	TOTAL TOTAL	N
8.1.5	Live parts protected at least by basic insulation before	ore installation or assembly:	N
mB3	- built-in appliances		N
- (- fixed appliances		N
	- appliances delivered in separate units		N





	IEC/EN 60335-1		
Clause	Requirement - Test	Result - Remark	Verdic
8.2	Class II appliances and constructions constructed so that there is adequate protection against accidental contact with basic insulation and metal parts separated from live parts by basic insulation only		N
	Only possible to touch parts separated from live parts by double or reinforced insulation	TOUR THE PARTY OF	N
	Compliance is checked by inspection and by applying test probe B of IEC 61032 in accordance with the conditions specified in 8.1.1.	EL COLL	N
	Test probe B of IEC 61032 is applied to built-in appliances and fixed appliances only after installation.	TO T	N
9	STARTING OF MOTOR-OPERATED APPLIANCE	:S	N
(ED)	Requirements and tests are specified in part 2 when necessary	THE REAL PROPERTY AND THE	N
10	POWER INPUT AND CURRENT		P
10.1	Power input at normal operating temperature, rated voltage and normal operation not deviating from rated power input by more than shown in table 1	(see appended table)	N
133	Test for an appliance with one or more rated voltage ranges	TO THE REAL PROPERTY.	N
10.2	Current at normal operating temperature, rated voltage and normal operation not deviating from rated current by more than shown in table 2	(see appended table)	Р
	Test for an appliance with one or more rated voltage ranges		Р
Million		The state of the s	THE
11	HEATING		Р
11.1	No excessive temperatures in normal use	THE REAL PROPERTY.	Р
11.2	Placing and mounting of appliance as described	The state of the	Р
11.3	Temperature rises, other than of windings, determined by thermocouples	Determined by thermocouples	Р

Temperature rises of windings determined by resistance method, unless

the windings makes it difficult to make the

Heating appliances operated under normal operation at 1.15 times rated power input:

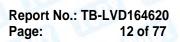
necessary connections

11.4

Р

N

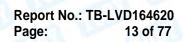
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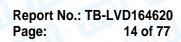
	IEC/EN 60335-1				
Clause	Requirement - Test	Result - Remark	Verdict		
11.5	Motor-operated appliances operated under normal operation at most unfavourable voltage between 0.94 and 1.06 times rated voltage:	TOTAL TOTAL	P		
11.6	Combined appliances operated under normal operation at most unfavourable voltage between 0.94 and 1.06 times rated voltage:	(see appended table)	N		
11.8	Temperature rises not exceeding values in table 3	(see appended tables)	Р		
	Protective devices do not operate	DIS TUDIO	Р		
WILLIAM STATE	Sealing compound does not flow out	LINE TO THE	Р		
ON S	Components in protective electronic circuits are allowed to operate provided they are tested for the number of cycles of operation specified in 24.1.4	HOLL HOLL	N		

13	LEAKAGE CURRENT AND ELECTRIC STRENGT TEMPERATURE	TRIC STRENGTH AT OPERATING	P
13.1	Leakage current not excessive and electric strength adequate	103	N
Birs	Heating appliances operated at 1.15 times rated power input:	D TOWN THE	N
033	Motor-operated appliances and combined appliances supplied at 1.06 times rated voltage:	THE PARTY OF	N
33 V	Protective impedance and radio interference filters disconnected before carrying out the tests	No such parts	N
13.2	For class 0 appliances, class II appliances and class III appliances, leakage current measured by means of the circuit described in figure 4 of IEC 60990. For other appliances, a low impedance ammeter capable of measuring the true r.m.s. value of the leakage current may be used.		P
TIME	Leakage current measurements	(see appended table)	Р
13.3	Electric strength tests according to table 4	(see appended table)	₩ P
	The appliance is disconnected from the supply and the insulation is immediately subjected to a voltage having a frequency of 50 Hz or 60 Hz for 1 min, in accordance with IEC 61180-1.	CONTRACTOR OF THE PARTY OF THE	13 PU
	The high-voltage source used for the test is to be capable of supplying a short circuit current Is between the output terminals after the output voltage has been adjusted to the appropriate test voltage.		P



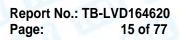


	IEC/EN 60335-1		
Clause	Requirement - Test	Result - Remark	Verdic
III T	The overload release of the circuit is not to be operated by any current below the tripping current Ir. The values of Is and Ir are given in Table 5 for various high-voltage sources.	TODA TODA	P
3 10	No breakdown during the tests	No breakdown	Р
14	TRANSIENT OVERVOLTAGES		N
TO B	Appliances withstand the transient overvoltages to which they may be subjected		N
	Clearances having a value less than specified in table 16 subjected to an impulse voltage test, the test voltage specified in table 6	TODIS TODIS	N
O O	No flashover during the test, unless of functional insulation	The state of the s	N
TO S	In case of flashover of functional insulation, the appliance complies with clause 19 with the clearance short circuited		N
ann'			
15	MOISTURE RESISTANCE		Р
15.1	Enclosure provides the degree of moisture protection according to classification of the appliance	IP20	N
000	Compliance checked as specified in 15.1.1, taking into account 15.1.2, followed by the electric strength test of 16.3	EDERA CONTRACTOR	N
TOU	No trace of water on insulation which can result in a reduction of clearances and creepage distances below values specified in clause 29	OUR COLUMN	N
15.1.1	Appliances, other than IPX0, subjected to tests as specified in IEC 60529:	THE REAL PROPERTY.	N
	Water valves containing live parts and that are incorporated in external hoses for connection of an appliance to the water mains are subjected to the test specified for IPX7 appliances.		N
15.1.2	Hand-held appliance turned continuously through the most unfavourable positions during the test	TODY TODY	N
603	Built-in appliances installed according to the instructions		N
	Appliances with an automatic cord reel are tested with the cord in the most unfavourable position in such a way that the reeling of the wet cord may affect electrical insulation during operation. The cord shall not be dried before reeling.		N



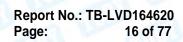


	IEC/EN 60335-1		
Clause	Requirement - Test	Result - Remark	Verdict
	Appliances placed or used on the floor or table placed on a horizontal unperforated support	3 (0)23	N
	Appliances normally fixed to a wall and appliances with pins for insertion into socket-outlets are mounted on a wooden board		N N
10113	Appliances normally fixed to a ceiling are mounted underneath a horizontal unperforated support that is constructed to prevent water spraying onto its top surface. The pivot axis of the oscillating tube is located at the same level as the underside of the support and aligned centrally with the appliance. The spray is directed upwards.		
	For IPX3 appliances, the base of wall mounted appliances is placed at the same level as the pivot axis of the oscillating tube	ED33 EED	N N
TO S	For IPX4 appliances, the horizontal centre line of the appliance is aligned with the pivot axis of the oscillating tube	TOTAL STATE OF THE PARTY OF THE	mB N
MORE	However, for appliances normally used on the floor or table, the movement is limited to two times 90° for a period of 5 min, the support being placed at the level of the pivot axis of the oscillating tube	N CON TO THE	N
Diss	Wall-mounted appliances, take into account the distance to the floor stated in the instructions	TOP TO	N
	Appliances with type X attachment fitted with a flexible cord as described	TOBS TOP	N
· 600	Detachable parts tested as specified		N
15.2	Spillage of liquid does not affect the electrical insulation	The same of the sa	P
	Appliances with type X attachment fitted with a flexible cord as described	33 - 1033	N
	Appliances incorporating an appliance inlet tested with or without an connector, whichever is most unfavourable	TOTAL STORY	N
San	Detachable parts removed	War and the	P
B W	The appliance withstands the electric strength test of 16.3		Р
ED.	No trace of water on insulation that can result in a reduction of clearances and creepage distances below values specified in clause 29	IN THE PARTY OF	P
15.3	Appliances proof against humid conditions	THE PARTY OF THE	Р
-	Humidity test for 48 h in a humidity cabinet	93% R.H., 25°C, 48h	Р
TIES	The appliance withstands the tests of clause 16	See clause 16 table	Р



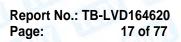


	IEC/EN 60335-1	1	1
Clause	Requirement - Test	Result - Remark	Verdic
5			Military
16	LEAKAGE CURRENT AND ELECTRIC STRENGT	H	Р
16.1	Leakage current not excessive and electric strength adequate		N
	Protective impedance disconnected from live parts before carrying out the tests	DIS THE REAL PROPERTY.	N
16.2	Single-phase appliances: test voltage 1.06 times rated voltage:	1.06X240V	Р
A COLUMN	Three-phase appliances: test voltage 1.06 times rated voltage divided by √3:	3 TOTAL TOTAL	N
137	Leakage current measurements	(see appended table)	Р
16.3	Electric strength tests according to table 7	(see appended table)	Р
28 6	No breakdown during the tests	THE MAN THE PARTY OF THE PARTY	Р
			33
17	OVERLOAD PROTECTION OF TRANSFORMERS	S AND ASSOCIATED CIRCUITS	N
TORY	No excessive temperatures in transformer or associated circuits in event of short-circuits likely to occur in normal use	N CONTRACTOR CONTRACTOR	N
0033	Appliance supplied with 1.06 or 0.94 times rated voltage and the most unfavourable short-circuit or overload likely to occur in normal use applied:	TODY TODY	N
	Temperature rise of insulation of the conductors of safety extra-low voltage circuits not exceeding the relevant value specified in table 3 by more than 15 K		N
MODE	Temperature of the winding not exceeding the value specified in table 8,		N
W.	however limits do not apply to fail-safe transformers complying with sub-clause 15.5 of IEC 61558-1	TITLE TO THE	N
18	ENDURANCE	THE REAL PROPERTY.	N
3 0	Requirements and tests are specified in part 2 when necessary		N
19	ABNORMAL OPERATION	THE PARTY OF THE P	Р
19.1	The risk of fire or mechanical damage under abnormal or careless operation obviated		P
	Electronic circuits so designed and applied that a fault will not render the appliance unsafe	The state of the s	N



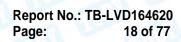


	IEC/EN 60335-1		
Clause	Requirement - Test	Result - Remark	Verdict
THE STATE OF THE S	Appliances incorporating contactors or relays subjected to the test of 19.14, being carried out before the tests of 19.11	TOTAL TOTAL	N
	Appliances incorporating an electronic circuit that relies upon a programmable component to function correctly are subjected to the test of 19.11.4.8,unless		N
	Restarting at any point in the operating cycle after interruption of operation due to a supply voltage dip will not result in a hazard		N
19.2	Test of appliance with heating elements with restricted heat dissipation; test voltage (V): power input of 0.85 times rated power input:		N
19.3	Test of 19.2 repeated; test voltage (V): power input of 1.24 times rated power input:	TO SECOND VICTORIAN VICTORIA VICTORIAN VICTORIAN VICTORIAN VICTORIAN VICTORIAN VICTORIAN VICTORIAN VICTORIAN VICTORI	N
19.4	Test conditions as in cl. 11, any control limiting the temperature during tests of cl. 11 short-circuited	TO THE OWNER OF THE PARTY OF TH	N
19.5	Test of 19.4 repeated on Class 0I and I appliances with tubular sheathed or embedded heating elements. No short-circuiting, but one end of the element connected to the elements sheath		N
DOM:	The test repeated with reversed polarity and the other end of the heating element connected to the sheath	TODAY TODAY	N
3 000	The test is not carried out on appliances intended to be permanently connected to fixed wiring and on appliances where an all-pole disconnection occurs during the test of 19.4		N
19.6	Appliances with PTC heating elements tested at rated voltage, establishing steady conditions	No PTC heating elements	N
	The working voltage of the PTC heating element is increased by 5% and the appliance is operated until steady conditions are re-established. The voltage is then increased in similar steps until 1.5 times working voltage or until the PTC heating element ruptures		N
19.7	Stalling test by locking the rotor if the locked rotor torque is smaller than the full load torque or locking moving parts of other appliances		Р
TO TO	Locked rotor, motor capacitors open-circuited or short-circuited, if required	III WILLIAM	N
MILL	Locked rotor, capacitors open-circuited one at a time	a man and	N
TES	Test repeated with capacitors short-circuited one at a time, if required	4033	N



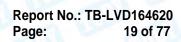


	IEC/EN 60335-1			
Clause	Requirement - Test	Result - Remark	Verdict	
D T	Appliances with timer or programmer supplied with rated voltage for each of the tests, for a period equal to the maximum period allowed	TOUR TOUR DE	N	
a W	Other appliances supplied with rated voltage for a period as specified	TODAY TO	N	
500	Winding temperatures not exceeding values specified in table 8	(see appended table)	Р	
19.8	Multi -phase motors operated at rated voltage with one phase disconnected	DIS TOUR FORM	N	
19.9	Running overload test on appliances incorporating motors intended to be remotely or automatically controlled or liable to be operated continuously	Not such appliances	N	
	Winding temperatures not exceeding values as specified	(see appended table)	N	
19.10	Series motor operated at 1.3 times rated voltage for 1 min:	TOP TOP	Р	
	During the test, parts not being ejected from the appliance	The state of the s	Р	
19.11	Electronic circuits, compliance checked by evaluation of the fault conditions specified in 19.11.2 for all circuits or parts of circuits, unless they comply with the conditions specified in 19.11.1		N	
	Appliances incorporating a protective electronic circuit are subjected to the tests of 19.11.3 and 19.11.4	EDES EDES	N	
TOR	Appliances having a switch with an off position obtained by electronic disconnection, or a switch that can place the appliance in a stand-by mode, are subjected to the tests of 19.11.4	No such switch	N	
1003 P	Appliances incorporating an electronic circuit that relies upon a programmable component to function correctly, subjected to the test of 19.11.4.8		N	
19.11.1	Before applying the fault conditions a) to f) in 19.11 circuit meet both of the following conditions:	.2, it is checked if circuits or parts of	N	
TO S	- the electronic circuit is a low-power circuit, that is, the maximum power at low-power points does not exceed 15 W according to the tests specified	TOPS THE PERSON	N	
	- the protection against electric shock, fire hazard, mechanical hazard or dangerous malfunction in other parts of the appliance does not rely on the correct functioning of the electronic circuit	B TODAY TODAY	N	



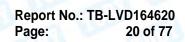


	IEC/EN 60335-1			
Clause	Requirement - Test	Result - Remark	Verdic	
19.11.2	Fault conditions applied one at a time, the applianc specified in cl. 11, but supplied at rated voltage, the		N	
	a) short circuit of functional insulation if clearances or creepage distances are less than the values specified in 29	THE REAL PROPERTY AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND	N	
100	b) open circuit at the terminals of any component	The same of the same	N	
ARD.	c) short circuit of capacitors, unless they comply with IEC 60384-14	ES COURS	N	
1011	d) short circuit of any two terminals of an electronic component, other than integrated circuits. This fault condition is not applied between the two circuits of an optocoupler		N	
TIE	e) failure of triacs in the diode mode	William William	N	
1	f) failure of an integrated circuit.		N	
CITIES .	g) failure of an electronic power switching device		N	
19.11.3	If the appliance incorporates a protective electronic circuit which operates to ensure compliance with clause 19, the relevant test is repeated with a single fault simulated, as indicated in a) to g) of 19.11.2	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAM	N	
19.11.4	Appliances having a device with an off position obtained by electronic disconnection, or a device that can be placed in the stand-by mode, are subjected to the tests of 19.11.4.1 to 19.11.4.7. The tests are carried out with the appliance supplied at rated voltage, the device being set in the off position or in the stand-by mode.		N	
	Appliances incorporating a protective electronic circuit are subjected to the tests of 19.11.4.1 to 19.11.4.7. The tests are carried out after the protective electronic circuit has operated during the relevant tests of Clause 19 except 19.2, 19.6 and 19.11.3. However, appliances that are operated for 30 s or 5 min during the test of 19.7 are not subjected to the tests for electromagnetic phenomena			
	The tests are carried out with surge protective devices disconnected, unless they incorporate spark gaps.		N	
19.11.4.1	The appliance is subjected to electrostatic discharges in accordance with IEC 61000-4-2, test level 4		N	
19.11.4.2	The appliance is subjected to radiated fields in accordance with IEC 61000-4-3, test level 3 being applicable	TO T	N	





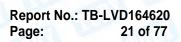
Clause	Requirement - Test	Result - Remark	Verdic
19.11.4.3	The appliance is subjected to fast transient bursts in accordance with IEC 61000-4-4, test level 3 or 4 as specified	COM COM COM	N
19.11.4.4	The power supply terminals of the appliance subjected to voltage surges in accordance with IEC 61000-4-5, test level 3 or 4 as specified		N
B.O.	Earthed heating elements in class I appliances are disconnected during this test	THE PARTY OF THE P	N
19.11.4.5	The appliance is subjected to injected currents in accordance with IEC 61000-4-6, test level 3	J. CODY	N
19.11.4.6	The appliance is subjected to voltage dips and interruptions in accordance with IEC 61000-4-11		N
II W	The appliance is subjected to the Class 3 voltage dips and interruptions in accordance with IEC 610004-11	TOTAL TOTAL TOTAL	N
19.11.4.7	The appliance is subjected to mains signals in accordance with IEC 61000-4-13, test level class 2		N
19.11.4.8	The appliance is supplied at rated voltage and operated under normal operation. After 60s the power supply is reduces to a level such that the appliance ceases to respond or a programmable component cease to operate		N
19.12	If the safety of the appliance for any of the fault conditions specified in 19.11.2 depends on the operation of a miniature fuse-link complying with IEC 60127, the test is repeated, measuring the current flowing through the fuse-link; measured current (A); rated current of the fuse-link (A):		N
19.13	During the tests the appliance does not emit flames, molten metal, poisonous or ignitable gas in hazardous amounts	Appliance does not emit flames, molten metal	N
W a	Temperature rises not exceeding the values shown in table 9	(see appended table)	N
3 00	After the tests, and when the appliance has cooled to approximately room temperature, compliance with Clause 8 shall not be impaired.		N
MOB	-If the appliance can still be operated it complies with 20.2	TODAY TODAY	N
TO S	-if they become operational, not result in a dangerous malfunction during or after the tests of 19.11.4.		N
	Insulation, other than of class III appliance, withstar	nd the electric strength test of 16.3,	N





	IEC/EN 60335-1				
Clause	Requirement - Test	Result - Remark	Verdict		
6	- basic insulation:		N		
THE STATE OF	- supplementary insulation:		N		
611	- reinforced insulation:	1000	N		
19.14	Appliances are operated under the conditions of Clause 11. Any contactor or relay contact that operates under the conditions of Clause 11 is short-circuited.		N		
TOW	If a relay or contactor with more than one contact is used, all contacts are short-circuited at the same time.		N		
19.15	For appliances incorporating a mains voltage selector switch, this switch is set to the lowest rated voltage position and the highest value of rated voltage is applied.		N		

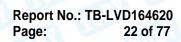
20	STABILITY AND MECHANICAL HAZARDS	N
20.1	Adequate stability	N
Em.	Tilting test through an angle of 10° (appliance placed on an inclined plane/horizontal plane); appliance does not overturn	N
NO. OF	Tilting test repeated on appliances with heating elements, angle of inclination increased to 15°	N
	Possible heating test in overturned position; temperature rise does not exceed values shown in table 9	N
20.2	Moving parts adequately arranged or enclosed as to provide protection against personal injury	N
100	Protective enclosures, guards and similar parts are non-detachable	N
PILL S	Adequate mechanical strength and fixing of protective enclosures	N
	Self-resetting thermal cut-outs and overcurrent protective devices not causing a hazard, by unexpected reclosure	N
	Compliance is checked by inspection, by the tests of 21.1 and by means of	N
	- a test probe that is similar to test probe B of IEC 61032 but having a circular stop face with a diameter of 50 mm, instead of the non circular face, applied with a force of 5N with the accessories and detachable covers removed	N N N N N N N N N N N N N N N N N N N
W.	Not possible to touch dangerous moving parts with test probe	N





	IEC/EN 60335-1		
Clause	Requirement - Test	Result - Remark	Verdict
	- centrifugal juicers, the cover and the container for collecting the residue are in position	3 1000	N
3 00	- graters and shredders, this is only applicable to accessories that are removed while the appliance is in operation	TODY OF	N
	- appliances specified in the list	The same of the sa	N
BROTH .	- the following parts of other appliances:		N
1000	smooth shafts having a diameter not exceeding 8 mm, rotating at a speed not exceeding 1 500 rev/min and driven by motors having an input not exceeding 200 W		N
11:53	outlet sides of grating and shredding disks rotating at a speed not exceeding 1 500 rev/min	Constant of the	MI N
	projections from the surface of grinding disks, cones and similar parts having a height less than 4 mm		N
	- a height of at least 100 mm, measured from the upper edge of the cutting blade	The state of the s	N
033	- an average of the maximum and minimum cross- sectional dimensions of the feed opening that does not exceed 65.5 mm:		N
ED C	- a maximum cross-sectional dimension of the feed opening that does not exceed 76 mm:	TOTAL TOTAL	N

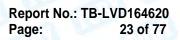
21	MECHANICAL STRENGTH		Р
21.1	Appliance has adequate mechanical strength and is constructed as to withstand rough handling	I TO THE REAL PROPERTY.	Р
TURE	Compliance is checked by applying blows to the appliance in accordance with test Ehb of IEC 60068-2-75, the spring hammer test.		P
23 E	The appliance is rigidly supported and three blows, having an impact energy of 0,5J, are applied to every point of the enclosure that is likely to be weak.	0.5J, three blows, no damage	I PU
60	If necessary, repetition of groups of three blows on a new sample	TO THE PARTY OF TH	N
21.2	Accessible parts of solid insulation shall have sufficient strength to prevent penetration by sharp implements		N





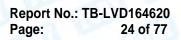
	IEC/EN 60335-1		
Clause	Requirement - Test	Result - Remark	Verdict
	Compliance is checked by subjecting the insulation to the following test, unless the thickness of supplementary insulation is at least 1 mm and that of reinforced insulation is at least 2 mm	TODA TODA	N M
	The insulation is raised to the temperature measured during the test of Clause 11	DE THE	N
TOP	The surface of the insulation is then scratched by means of a hardened steel pin, the end of which has the form of a cone with an angle of 40°: Its tip is rounded with a radius of 0.25 mm ± 0.02 mm.		N N
N C	The pin is held at an angle of 80° - 85° to the horizontal and loaded so that the force exerted along its axis is $10 \text{ N} \pm 0.5 \text{ N}$.	Constant of the	N
TO	The scratches are made by drawing the pin along the surface of the insulation at a speed of approximately 20 mm/s. Two parallel scratches are made.		N TUB
ETTE S	They are spaced sufficiently apart so that they are not affected by each other, their length covering approximately 25% of the length of the insulation.	N COM	N
	Two similar scratches are made at 90° to the first pair without crossing them	TODY O	N
	The test fingernail of Figure 7 is then applied to the scratched surface with a force of approximately 10 N. No further damage, such as separation of the material, shall occur. The insulation shall then withstand the electric strength test of 16.3.		TORY MORY
	The hardened steel pin is then applied perpendicularly with a force of 30 N ± 0,5 N to an unscratched part of the surface. The insulation shall then withstand the electric strength test of 16.3 with the pin still applied and used as one of the electrodes		N

22	CONSTRUCTION		Р
22.1	Appliance marked with the first numeral of the IP system, relevant requirements of IEC 60529 are fulfilled	IP20	P
22.2	Stationary appliance: means to provide all-pole disconnection from the supply provided, the following means being available:		N
M	- a supply cord fitted with a plug	Not stationary appliance	N



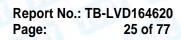


Clause	Requirement - Test	Result - Remark	Verdict
Clause		Result - Remark	1
_ 0	- a switch complying with 24.3		N
	 a statement in the instruction sheet that a disconnection incorporated in the fixed wiring is to be provided 	TODY TO TO	N
10	- an appliance inlet		N
TOIS	Single-pole switches and single-pole protective devices that disconnect heating elements from the supply mains in single-phase, permanently connected class 0I appliances and class I appliances shall be connected to the phase conductor.	EN TODAY TODAY TODAY	N
22.3	Appliance provided with pins: no undue strain on socket-outlets	EDITO TO TO	N
a W	Applied torque not exceeding 0.25 Nm		N
	Pull force of 50N to each pin after the appliance has being placed in the heating cabinet; when cooled to room temperature the pins are not displaced by more than 1mm		N
	Each pin subjected to a torque of 0.4Nm; the pins are not rotating unless rotating does not impair compliance with the standard	D COLUMN	N
22.4	Appliance for heating liquids and appliance causing undue vibration not provided with pins for insertion into socket-outlets	Appliance not for heating liquids	N
22.5	No risk of electric shock when touching the pins of the plug, charged capacitors having a rated capacitance exceeding 0,1µF		N
THE PARTY OF THE P	The appliance is supplied at rated voltage. Any switch is then placed in the off position and the appliance is disconnected from the supply mains at the instant of voltage peak. One second after disconnection, the voltage between the pins of the plug is measured with an instrument that does not appreciably affect the value to be measured.		N TIME
Miles.	The voltage shall not exceed 34 V	CONTRACTOR OF THE PARTY OF THE	N
22.6	Electrical insulation not affected by condensing water or leaking liquid	No condensing water	N
MUB	Electrical insulation of Class II appliances not affected in case of a hose rupture or seal leak		N
22.7	Adequate safeguards against the risk of excessive pressure in appliances provided with steam-producing devices	No such devices	N



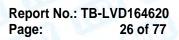


	IEC/EN 60335-1		
Clause	Requirement - Test	Result - Remark	Verdict
22.8	Electrical connections not subject to pulling during cleaning of compartments to which access can be gained without the aid of a tool, and that are likely to be cleaned in normal use	No such compartments	N
22.9	Insulation, internal wiring, windings, commutators and slip rings not exposed to oil, grease or similar substances		N
	Adequate insulating properties of oil or grease to which insulation is exposed	EI TOWN	N
22.10	It shall not be possible to reset voltage- maintained non-self-resetting thermal cut-outs by the operation of an automatic switching device incorporated within the appliance	No such devices	N
O O	-NOTE 1: Voltage-maintained controls will automatically reset if they become de-energized	TOP TOP TO STATE OF THE PARTY O	N
	Non-self-resetting thermal motor protectors shall have a trip-free action unless they are voltage maintained	THE PARTY OF THE P	N
ELDET.	-NOTE 2: Trip-free is an automatic action that is independent of manipulation or position of the actuating member	N CON THE REAL PROPERTY OF THE PERSON OF THE	N
OB T	Reset buttons of non-self-resetting controls shall be located or protected so that their accidental resetting is unlikely to occur if this could result in a hazard.	TOTAL TOTAL	N
3 50	-NOTE 3: For example, this requirement precludes the location of reset buttons on the back of an appliance, which could result in them being reset by pushing the appliance against a wall.		N
22.11	Reliable fixing of non-detachable parts that provide the necessary degree of protection against electric shock, moisture or contact with moving parts		P
TOTA N	Obvious locked position of snap-in devices used for fixing such parts	LODS LODS	N
B W	No deterioration of the fixing properties of snap-in devices used in parts that are likely to be removed during installation or servicing	THE PERSON NAMED IN	N
dill.	Tests as described	The state of the	N
22.12	Handles, knobs etc. fixed in a reliable manner	The state of	N
COURS !	Fixing in wrong position of handles, knobs etc. indicating position of switches or similar components not possible	B TODY TO	N



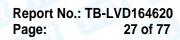


	IEC/EN 60335-1		
Clause	Requirement - Test	Result - Remark	Verdict
	Axial force 15 N applied to parts, the shape being so that an axial pull is unlikely to be applied	TOUR TOUR	P
STO STORY	Axial force 30 N applied to parts, the shape being so that an axial pull is likely to be applied	TODIA CO	N
22.13	Unlikely that handles, when gripped as in normal use, make the operators hand touch parts having a temperature rise exceeding the value specified for handles which are held for short periods only		N
22.14	No ragged or sharp edges creating a hazard for the user in normal use, or during user maintenance	No such parts	N
ODE OF	No exposed pointed ends of self tapping screws etc., liable to be touched by the user in normal use or during user maintenance	Maria Contraction	N
22.15	Storage hooks and the like for flexible cords smooth and well rounded	No storage hooks	N
22.16	Automatic cord reels cause no undue abrasion or damage to the sheath of the flexible cord, no breakage of conductors strands, no undue wear of contacts	No automatic cord reels	N
mil I	Cord reel tested with 6000 operations, as specified		N
TO TO	Electric strength test of 16.3, voltage of 1000 V applied		N
22.17	Spacers not removable from the outside by hand or by means of a screwdriver or a spanner	No such spacer	N
22.18	Current-carrying parts and other metal parts resistant to corrosion under normal conditions of use		N
22.19	Driving belts not used as electrical insulation	No driving belts	N
22.20	Direct contact between live parts and thermal insulation effectively prevented, unless material used is non-corrosive, non-hygroscopic and non-combustible		N
	Compliance is checked by inspection and, if necessary, by appropriate test		N
22.21	Wood, cotton, silk, ordinary paper and fibrous or hygroscopic material not used as insulation, unless impregnated	No such material used	N
TOBE	This requirement does not apply to magnesium oxide and mineral ceramic fibres used for the electrical insulation of heating elements	a mail m	N
22.22	Appliances not containing asbestos	COLOR STATE	N



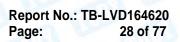


	IEC/EN 60335-1			
Clause	Requirement - Test	Result - Remark	Verdict	
22.23	Oils containing polychlorinated biphenyl (PCB) not used	1000	N	
22.24	Bare heating elements adequately supported	No heating elements	N	
D W	In case of rupture, the heating conductor is unlikely to come in contact with accessible metal parts	013 mm 1013	N	
22.25	Sagging heating conductors cannot come into contact with accessible metal parts	No heating conductors	N	
22.26	The insulation between parts operating at safety extra-low voltage and other live parts complies with the requirements for double or reinforced insulation		N	
22.27	Parts connected by protective impedance separated by double or reinforced insulation	No protective impedance	N	
22.28	Metal parts of Class II appliances conductively connected to gas pipes or in contact with water: separated from live parts by double or reinforced insulation	TO TO THE REAL PROPERTY.	N	
22.29	Class II appliances permanently connected to fixed wiring so constructed that the required degree of access to live parts is maintained after installation		N	
22.30	Parts serving as supplementary or reinforced insulation fixed so that they cannot be removed without being seriously damaged, or		N	
	so constructed that they cannot be replaced in an incorrect position, and so that if they are omitted, the appliance is rendered inoperable or manifestly incomplete		N	
22.31	Clearances and creepage distances over supplementary and reinforced insulation not reduced below values specified in clause 29 as a result of wear		N	
	Clearances and creepage distances between live parts and accessible parts not reduced below values for supplementary insulation, if wires, screws etc. become loose		N	
22.32	Supplementary and reinforced insulation designed or protected against deposition of dirt or dust	THE REAL PROPERTY.	N	
TODA	Supplementary insulation of natural or synthetic rubber resistant to ageing, or arranged and dimensioned so that creepage distances are not reduced below values specified in 29.2		N	



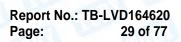


	IEC/EN 60335-1			
Clause	Requirement - Test	Result - Remark	Verdict	
DB E	Ceramic material not tightly sintered, similar material or beads alone not used as supplementary or reinforced insulation	TODY TODY	N	
a m	Oxygen bomb test at 70 °C for 96 h and 16 h at room temperature	TODA TO	N	
0.000	Insulating material in which heating conductors are embedded is considered to be basic insulation and not reinforced insulation	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COL	N	
22.33	Conductive liquids that are or may become accessible in normal use are not in direct contact with live parts	3 TODY TOWN	N	
THE	Electrodes not used for heating liquids		N	
II W	For class II constructions, conductive liquids that are or may become accessible in normal use, not in direct contact with basic or reinforced insulation	No conductive liquids	N	
	For class II constructions, conductive liquids which are in contact with live parts, not in direct contact with reinforced insulation	THE PROPERTY OF THE PARTY OF TH	N	
22.34	Shafts of operating knobs, handles, levers etc. not live, unless the shaft is not accessible when the part is removed	No such part used	N	
22.35	For constructions other than those of class III, handles, levers and knobs, held or actuated in normal use, not becoming live in the event of a failure of basic insulation	THE PERSON OF TH	N	
	Such parts being of metal, and their shafts or fixings are likely to become live in the event of an insulation fault, they are either adequately covered by insulation material, or their accessible parts are separated from their shafts or fixings by supplementary insulation		N	
	This requirement does not apply to handles, levers and knobs on stationary appliances other than those of electrical components, provided they are either reliably connected to an earthing terminal or earthing contact, or separated from live parts by earthed metal	TITLES TODAY OF	N	
22.36	Handles continuously held in the hand in normal use are so constructed that when gripped as in normal use, the operators hand is not likely to touch metal parts, unless they are separated from live parts by double or reinforced insulation		N	
22.37	Capacitors in Class II appliances not connected to accessible metal parts, unless complying with 22.42	B LOSS LOSS	N	





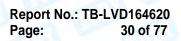
	IEC/EN 60335-1			
Clause	Requirement - Test	Result - Remark	Verdict	
III T	Metal casings of capacitors in Class II appliances separated from accessible metal parts by supplementary insulation, unless complying with 22.42	TOTAL TOTAL	N	
22.38	Capacitors not connected between the contacts of a thermal cut-out		N	
22.39	Lamp holders used only for the connection of lamps	No lamp holders	N	
22.40	Motor-operated appliances and combined appliances intended to be moved while in operation, or having accessible moving parts, fitted with a switch to control the motor. The actuating member of the switch being easily visible and accessible		N	
	Unless the appliance can operate continuously, automatically or remotely without giving rise to a hazard, appliances for remote operation being fitted with a switch. The actuating member of the switch being easily visible and accessible		N	
22.41	No components, other than lamps, containing mercury	No mercury	N	
22.42	Protective impedance consisting of at least two separate components	No protective impedance	N	
D C	Values specified in 8.1.4 not exceeded if any one of the components are short-circuited or open-circuited		N	
22.43	Appliances adjustable for different voltages, accidental changing of the setting of the voltage unlikely to occur	No such adjustable devices	N	
22.44	Appliances are not allowed to have an enclosure that is shaped and decorated so that the appliance is likely to be treated as a toy by children	Appliance is unlikely to be treated as a toy by children	N	
22.45	When air is used as reinforced insulation, clearances not reduced below the values specified in 29.1.4 due to deformation as a result of an external force applied to the enclosure		N	
22.46	Software used in protective electronic circuits shall be software class B or software class C		N	
22.47	Appliances intended to be connected to the water mains shall withstand the water pressure expected in normal use	EN TOUR THE	N	
MILL	No leakage from any part, including any inlet water hose	a more	N	





	IEC/EN 60335-1			
Clause	Requirement - Test	Result - Remark	Verdict	
22.48	Appliances connected to the water mains constructed to prevent backsiphonage of non-potable water		N	
a m	Compliance is checked by the relevant tests of IEC 61770	TODAY.	N	
22.49	For remote operation, the duration of operation shall be set before the appliance can be started, unless	TODY OF	N	
	the appliance switches off automatically or can operate continuously without hazard	The state of the s	N	
22.50	Controls incorporated in the appliance take priority over controls actuated by remote operation	3 1000	N	
22.51	A control on the appliance being manually adjusted to the setting for remote operation before the appliance can be operated in this mode	TOTAL STORY	N	
TO 3	There is a visual indication showing that the appliance is adjusted for remote operation	2000 m	N	
TOBE	Manual setting and visual indication not necessary on appliances that can operate as follows, without giving rise to a hazard	TO THE REAL PROPERTY.	N M	
A FOR	-operate continuously,		N	
W. D.	-operate automatically, or	The same	N	
	-be operated remotely		N	
22.52	Socket-outlets on appliances accessible to the user in accordance with the socket-outlet system used in the country in which the appliance is sold		M N	

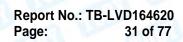
23	INTERNAL WIRING		Р
23.1	Wireways smooth and free from sharp edges	Smooth edges	Р
PULL	Wires protected against contact with burrs, cooling fins etc.	Wires located and fixed properly inside the appliance	Р
TO	Wire holes in metal well rounded or provided with bushings	2003	N
B W	Wiring effectively prevented from coming into contact with moving parts		Р
23.2	Beads etc. on live wires cannot change their position, and are not resting on sharp edges or corners		N
TO S	Beads inside flexible metal conduits contained within an insulating sleeve	a many many	N





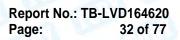
	IEC/EN 60335-1		
Clause	Requirement - Test	Result - Remark	Verdict
23.3	Electrical connections and internal conductors movable relatively to each other not exposed to undue stress	No internal conductors movable relatively to each other	N
a Bu	Flexible metallic tubes not causing damage to insulation of conductors	No flexible metallic tubes	N
	Open-coil springs not used		N
A STORE	Adequate insulating lining provided inside a coiled spring, the turns of which touch one another	E3 1000 1000	N
1000 Pa	No damage after 10 000 flexings for conductors flexed during normal use or 100 flexings for conductors flexed during user maintenance	TO TO TO THE REAL PROPERTY OF THE PARTY OF T	N
Dist	Electric strength test, 1000 V between live parts and accessible metal parts	English top	N
23.4	Bare internal wiring sufficiently rigid and fixed	No bare internal wiring	N
23.5	The insulation of internal wiring withstanding the electrical stress likely to occur in normal use	TO TO TO	Р
TORY	No breakdown when a voltage of 2000 V is applied for 15 min between the conductor and metal foil wrapped around the insulation	TOTAL TOTAL	Р
23.6	Sleeving used as supplementary insulation on internal wiring retained in position by positive means		Р
23.7	The colour combination green/yellow used only for earthing conductors		Р
23.8	Aluminium wires not used for internal wiring		Р
23.9	No lead-tin soldering of stranded conductors where they are subject to contact pressure, unless	Dis TORS	Р
Marie	clamping means so constructed that there is no risk of bad contact due to cold flow of the solder	N CONTRACTOR	Р
23.10	The insulation and sheath of internal wiring, incorporated in external hoses for the connection of an appliance to the water mains, shall be at least equivalent to that of light polyvinyl chloride sheathed flexible cord (code designation 60227 IEC 52).		N

24	COMPONENTS		Р
24.1	Components comply with the safety requirements specified in the relevant standards		Р
BRIEFE	List of components	(see appended table)	Р



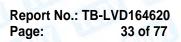


	IEC/EN 60335-1			
Clause	Requirement - Test		Result - Remark	Verdict
III S	Components not tested and found to conthe relevant standard for the number of specified, they are tested in accordance 24.1.1 to 24.1.9.	cycles	TODA TODA	N
E TOP	Components not tested and found to conthe relevant standard, components not mot used in accordance with their markin under the conditions occurring in the app	narked or g, tested	TOPY TOPY TOPY	N
	Lamp holders and starter holders that he been previously tested and found to conthe relevant standard are tested as a parappliance and shall additionally comply gauging and interchangeability requirements the relevant standard under the condition occurring in the appliance. Where the restandard specifies these gauging and interchangeability requirements at elevatemperatures, the temperatures measure the tests of Clause 11 are used.	mply with art of the with the nents of ons elevant		N
24.1.1	Capacitors likely to be permanently subject the supply voltage and used for radio into suppression or for voltage dividing, complEC 60384-14, or	erference	No such capacitor	N
10.50	tested according to annex F		William Minne	N
24.1.2	Safety isolating transformers complying v 61558-2-6, or	with IEC	No safety isolating transformer	N
-	tested according to annex G			N
24.1.3	Switches complying with IEC 61058-1, the of cycles of operation being at least 10 0			N
WITH THE	tested according to annex H	133		N
TOBS	If the switch operates a relay or contacte complete switching system is subjected test		TOTAL TOTAL	N
24.1.4	Automatic controls complying with IEC 6 cycles of operation being:	0730-1 wit	h relevant part 2. The number of	N
	- thermostats:	10 000		N
33	- temperature limiters:	1 000		N
	- self-resetting thermal cut-outs:	300		N
	- voltage-maintained non-self-resetting thermal cut-outs	1 000	DI TOUR	N
1	- other non-self-resetting thermal cut- outs	30	A COUNTY OF	N
W. S.	- timers:	3 000	COLUMN TO THE PARTY OF THE PART	N





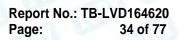
	IEC/EN 60335-1			
Clause	Requirement - Test	Result - Remark	Verdict	
	- energy regulators: 10 000		N	
	Thermal motor protectors are tested in combination with their motor under the conditions specified in Annex D	TODA TODA	N	
1013 1013	For water valves containing live parts and that are incorporated in external hoses for connection of an appliance to the water mains, the degree of protection provided by enclosures against harmful ingress of water declared for subclause 6.5.2 of IEC 60730-2-8 shall be IPX7		N	
24.1.5	Appliance couplers complying with IEC 60320-1	No couplers	N	
THE PARTY	The relevant standard for interconnection couplers is IEC 60320-2-2	TO TO	N	
B W	However, appliances classified higher than IPX0, the appliance couplers complying with IEC 60320-2-3		N	
24.1.6	Small lamp holders similar to E10 lampholders complying with IEC 60238, the requirements for E10 lampholders being applicable		N	
24.1.7	If the remote operation of the appliance is via a telecommunication network, the relevant standard for the telecommunication interface circuitry in the appliance is IEC 62151.	NOTE TO BE	N	
24.1.8	The relevant standard for thermal links is IEC 60691. Thermal links not complying with IEC 60691 are considered to be an intentionally weak part for the purposes of Clause 19		N	
24.1.9	Relays, other than motor starting relays, tested as part of the appliance	The same	N	
	They are also tested in accordance with Clause 17 of IEC 60730-1, the number of operations in 24.1.4 selected according to the relay function in the appliance.		N	
24.2	No switches or automatic controls in flexible cords	3 5000	N	
	No devices causing the protective device in the fixed wiring to operate in the event of a fault in the appliance		N	
	No thermal cut-outs that can be reset by soldering	Wind Company	N	
24.3	Switches intended for all-pole disconnection of stationary appliances are directly connected to the supply terminals and having a contact separation in all poles, providing full disconnection under overvoltage category III conditions		N	





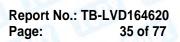
IEC/EN 60335-1				
Clause	Requirement - Test	Result - Remark	Verdict	
24.4	Plugs and socket-outlets for extra-low voltage circuits and heating elements, not interchangeable with plugs and socket-outlets listed in IEC 60083 or IEC 60906-1 or with connectors and appliance inlets complying with the standard sheets of IEC 60320-1	No such devices		
24.5	Capacitors in auxiliary windings of motors marked with their rated voltage and capacitance and used accordingly	ESS TODAY	N	
	Voltage across capacitors in series with a motor winding does not exceed 1,1 times rated voltage, when the appliance is supplied at 1,1 times rated voltage under minimum load		N	
24.6	Working voltage of motors connected to the supply mains and having basic insulation that is inadequate for the rated voltage of the appliance, not exceeding 42V.	No such motor	N TI	
3	In addition, the motors are complying with the requirements of Annex I		N	
24.7	Hose-sets for the connection of appliances to the water mains shall comply with IEC 61770. They shall be supplied with the appliance	I TURN TOWN	N N	
24.8	Motor running capacitors in appliances for which 30.2.3 is applicable and that are permanently connected in series with a motor winding shall not cause a hazard in the event of a capacitor failure.	TOTA TOTAL	B TI B N	

25	SUPPLY CONNECTION AND EXTERNAL FLEXIBLE CORDS	
25.1	Appliance not intended for permanent connection to fixed wiring, means for connection to the supply:	
	- supply cord fitted with a plug	N
1113	- an appliance inlet having at least the same degree of protection against moisture as required for the appliance	N
	- pins for insertion into socket-outlets	N
25.2	Appliance not provided with more than one means of connection to the supply mains	N
	Stationary appliance for multiple supply may be provided with more than one means of connection, provided electric strength test of 1250 V for 1 min between each means of connection causes no breakdown	N



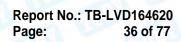


	IEC/EN 60335-1			
Clause	Requirement - Test	Result - Remark	Verdict	
25.3	Connection of supply conductors for appliance intended to be permanently connected to fixed wiring possible after the appliance has been fixed to its support		N	
D W	Appliance provided with a set of terminals for the connection of cables or fixed wiring, cross-sectional areas specified in 26.6		N	
	Appliance provided with a set of terminals allowing the connection of a flexible cord	EI CON	N	
ETT.	Appliance provided with a set of supply leads accommodated in a suitable compartment	3 1000	N	
	Appliance provided with a set of terminals and cable entries, conduit entries, knock-outs or glands, allowing connection of appropriate type of cable or conduit		N	
25.4	Cable and conduit entries, rated current of appliance not exceeding 16 A, dimensions according to table 10		N	
MORE	Introduction of conduit or cable does not reduce clearances or creepage distances below values specified in 29		N	
25.5	Method for assemble supply cord with the appliance	e: mili	Р	
	- type X attachment		N	
a co	- type Y attachment		N	
	- type Z attachment, if allowed in part 2		N	
B CONTRACTOR	Type X attachment, other than those with a specially prepared cord, not used for flat twin tinsel cords		N	
25.6	Plugs fitted with only one flexible cord		N	
25.7	Supply cords for appliances other than class III appliances shall be one of the following types:	EDD3 - EDD33	N	
7	-Rubber sheathed (at least 60245 IEC 53)	a Company	N	
S EL	NOTE 1: These cords are not suitable for appliances intended to be used outdoors or when they are liable to be exposed to significant amounts of ultraviolet radiation.		N	
	-Polychloroprene sheathed (at least 60245 IEC 57)	TOTAL TOTAL	N	
	-Cross-linked polyvinyl chloride sheathed (at least 60245 IEC 88)	The state of the s	N	
	Polyvinyl chloride sheathed: Not used if they are likely to touch metal parts havir 75K during the test of Clause 11.	ng a temperature rise exceeding	N	



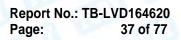


IEC/EN 60335-1			
Clause	Requirement - Test	Result - Remark	Verdict
	- light polyvinyl chloride sheathed cord (60227 IEC 52), appliance not exceeding 3 kg	TOUR DE LA COURTE	N
000	- ordinary polyvinyl chloride sheathed cord (60227 IEC 53), appliance exceeding 3 kg	THE PROPERTY OF	N
	Heat resistant polyvinyl chloride sheathed: Not used for type X attachment other than specially	prepared cords.	N
THE STATE OF	- heat-resistant light polyvinyl chloride sheathed cord (at least 60227 IEC 56), appliances not exceeding 3 kg		N
	- heat-resistant polyvinyl chloride sheathed cord (60227 IEC 57), other appliances	3 1000	N
Dist.	Supply cords for class III appliances:	William Comment	N
	Halogen-free thermoplastic compounds sheathed. Their properties shall be at least those of	TO TO STATE OF	N
	 Halogen-free thermoplastic compound sheathed cords (code designation H03Z1Z1H2-F, H03Z1Z1-F), for appliances having a mass not exceeding 3 kg; 		
	 Halogen-free thermoplastic compound sheathed cords (code designation H05Z1Z1H2-F, H05Z1Z1-F), for other appliances. 	D TODAY	
D. C	Cross-linked halogen-free compound sheathed. Their properties shall be at least those of cross-linked halogen-free compound sheathed cords (code designation H07ZZ-F).	TOTA TOTAL	N
25.8	Nominal cross-sectional area of supply cords according to table 11; rated current (A); cross-sectional area (mm²)		N
25.9	Supply cord not in contact with sharp points or edges	21 TOBY	N
25.10	Green/yellow core for earthing purposes in Class I appliance	J THE WOLLD	N
25.11	Conductors of supply cords not consolidated by lead-tin soldering where they are subject to contact pressure, unless	EDDIS LOSS	N
	clamping means so constructed that there is no risk of bad contacts due to cold flow of the solder	TOPIS TOPIS	N
25.12	Moulding the cord to part of the enclosure does not damage the insulation of the supply cord		N
25.13	Inlet opening so shaped as to prevent damage to the supply cord	a man	N



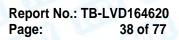


Clause	Requirement - Test	Result - Remark	Verdict
Clause	Unless the enclosure at the inlet opening is of insulation material, a non-detachable lining or bushing complying with 29.3 for supplementary insulation provided	result - Nemark	N
3 5	If unsheathed supply cord, a similar additional bushing or lining is required, unless	ON TON	N
	the appliance is class 0		N
25.14	Supply cords adequately protected against excessive flexing	DIS TUDE	N
All Indian	Flexing test:		N
000	- applied force (N)	GODI CO	N
	- number of flexings	TODIS TODIS	N
	The test does not result in:		N
ann'i	- short circuit between the conductors		N
	- breakage of more than 10% of the strands of any conductor	II TODA	N
Militar	- separation of the conductor from its terminal	The same	N
	- loosening of any cord guard		N
	- damage, within the meaning of the standard, to the cord or the cord guard	THE STATE OF THE PARTY OF THE P	N
	- broken strands piercing the insulation and becoming accessible	THE PERSON NAMED IN	N
25.15	Conductors of the supply cord relieved from strain, twisting and abrasion by use of cord anchorage	I TOO TOO	N
1000	The cord cannot be pushed into the appliance to such an extent that the cord or internal parts of the appliance can be damaged	TODAY OF	N
B W	Pull and torque test of supply cord, values shown in table 10: pull (N); torque (not on automatic cord reel) (Nm)	CONTRACTOR OF THE PARTY OF THE	N
TO S	Max. 2 mm displacement of the cord, and conductors not moved more than 1 mm in the terminals		N
The last	Creepage distances and clearances not reduced below values specified in 29.1	3 0000	N
25.16	Cord anchorages for type X attachments constructed	ed and located so that:	N



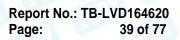


	IEC/EN 60335-1			
Clause	Requirement - Test	Result - Remark	Verdict	
	- replacement of the cord is easily possible		N	
	- it is clear how the relief from strain and the prevention of twisting are obtained	EDDS FOR	N	
a W	- they are suitable for different types of cord	The state of the s	N	
TO	- cord cannot touch the clamping screws of cord anchorage if these screws are accessible, unless separated from accessible metal parts by supplementary insulation		N M	
ALTO DE	- the cord is not clamped by a metal screw which bears directly on the cord	A ELLIS	N	
	- at least one part of the cord anchorage securely fixed to the appliance, unless part of a specially prepared cord	TODIS TODIS	N	
B	- screws which have to be operated when replacing the cord do not fix any other component, if applicable	TODA TODA	N	
	- if labyrinths can be bypassed the test of 25.15 is nevertheless withstood	The state of the s	N	
0033	- for Class 0, 0I and I appliances: they are of insulating material or are provided with an insulating lining, unless a failure of the insulation of the cord does not make accessible metal parts live			
	- for Class II appliances: they are of insulating material, or if of metal, they are insulated from accessible metal parts by supplementary insulation		N	
25.17	Adequate cord anchorages for type Y and Z attachment	TODY TO	N	
25.18	Cord anchorages only accessible with the aid of a tool, or	THE PARTY OF THE P	N	
No. of	so constructed that the cord can only be fitted with the aid of a tool	3 1000	N	
25.19	Type X attachment, glands not used as cord anchorage in portable appliances	COLUMN TO THE REAL PROPERTY OF THE PERTY OF	N	
3 15	Tying the cord into a knot or tying the cord with string not used	TOUR STORY	N	
25.20	Conductors of the supply cord for type Y and Z attachment adequately additionally insulated	THE REAL PROPERTY OF THE PARTY	N	



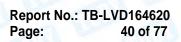


	IEC/EN 60335-1		
Clause	Requirement - Test	Result - Remark	Verdict
25.21	Space for supply cord for type X attachment or for connection of fixed wiring constructed to permit checking of conductors with respect to correct positioning and connection before fitting any cover, no risk of damage to the conductors when fitting the cover, no contact with accessible metal parts if a conductor becomes loose, etc.		N
	For portable appliances, the uninsulated end of a conductor prevented from any contact with accessible metal parts, unless the end of the cord is such that the conductors are unlikely to slip free	EN TOPS TOPS	N
25.22	Appliance inlet:	De la Company	N
0:30	- live parts not accessible during insertion or removal	Marie Line	N
a v	- connector can be inserted without difficulty		N
	- the appliance is not supported by the connector		N
	- is not for cold conditions if temp. rise of external metal parts exceeds 75 K, unless the supply cord is not likely to touch such metal parts		N
25.23	Interconnection cords comply with the requirements for the supply cord, except as specified	No interconnection cords	N
	If necessary, electric strength test of 16.3		N
25.24	Interconnection cords not detachable without the aid of a tool if compliance with the standard is impaired when they are disconnected	DOLLA TOUR	N
25.25	Dimensions of pins compatible with the dimensions of the relevant socket-outlet. Dimensions of pins and engagement face in accordance with the relevant plug in IEC 60083		N
			2
26	TERMINALS FOR EXTERNAL CONDUCTORS		N
26.1	Appliances provided with terminals or equally effective devices for connection of external conductors		N
	Terminals only accessible after removal of a non-detachable cover	TODY COUNTY	N
	However, earthing terminals may be accessible if a tool is required to make the connections and means are provided to clamp the wire independently from its connection		N





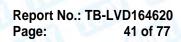
	IEC/EN 60335-1			
Clause	Requirement - Test	Result - Remark	Verdict	
26.2	Appliances with type X attachment and appliances for connection to fixed wiring provided with terminals in which connections are made by means of screws, nuts or similar devices, unless the connections are soldered		N	
CITIES .	Screws and nuts serve only to clamp supply conductors, except	DIS THE TOTAL	N	
	internal conductors, if so arranged that they are unlikely to be displaced when fitting the supply conductors		N	
	If soldered connections used, the conductor so positioned or fixed that reliance is not placed on soldering alone	TOTAL TOTAL	N	
B W	Soldering alone used, barriers provided, clearances and creepage distances satisfactory if the conductor becomes free at the soldered joint	TODIS TODIS IN	N	
26.3	Terminals for type X attachment and for connection to fixed wiring so constructed that the conductor is clamped between metal surfaces with sufficient contact pressure and without damaging the conductor		N	
TIES '	Terminals for type X attachment and those for connwhen tightening or loosening the clamping means:	ection to fixed wiring so fixed that	N	
	- the terminal does not loosen		N	
37	- internal wiring is not subjected to stress		N	
TO TO	- clearances and creepage distances are not reduced below the values in 29	TO TO THE REAL PROPERTY.	N	
TOUR	Compliance is checked by inspection and by the test of Subclause 9.6 of IEC 60999-1, the torque applied being equal to two-thirds of the torque specified.		N	
26.4	Terminals for type X attachment, except those with a specially prepared cord, and those for connection to fixed wiring, no special preparation of conductors required, and so constructed or placed that conductors prevented from slipping out		N	
26.5	Terminals for type X attachment so located or shielded that if a wire of a stranded conductor escapes, no risk of accidental connection to other parts that result in a hazard		N	
	Stranded conductor test, 8 mm insulation removed		N	





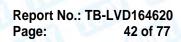
	IEC/EN 60335-1		
Clause	Requirement - Test	Result - Remark	Verdict
	No contact between live parts and accessible metal parts and, for class II constructions, between live parts and metal parts separated from accessible metal parts by supplementary insulation only		N
26.6	Terminals for type X attachment and for connection to fixed wiring suitable for connection of conductors with required cross-sectional area according to table 13; rated current (A); nominal cross-sectional area (mm²)		N
000	Terminals only suitable for a specially prepared cord	TODAY TODAY	N
26.7	Terminals for type X attachment accessible after removal of a cover or part of the enclosure	TO THE REAL PROPERTY.	N
26.8	Terminals for the connection to fixed wiring, including the earthing terminal, located close to each other	THE PERSON OF TH	N
26.9	Terminals of the pillar type constructed and located as specified	J. EDITO	N
26.10	Terminals with screw clamping and screwless terminals not used for flat twin tinsel cords, unless conductors ends fitted with a device suitable for screw terminals		N
والأرا	Pull test of 5 N to the connection	William I The	N
26.11	For type Y and Z attachment: soldered, welded, crimped and similar connections may be used	THE REAL PROPERTY OF	N
MORE	For Class II appliances: the conductor so positioned or fixed that reliance is not placed on soldering, welding or crimping alone	The state of the s	N
	For Class II appliances: soldering, welding or crimping alone used, barriers provided, clearances and creepage distances satisfactory if the conductor becomes free		N

27	PROVISION FOR EARTHING	N
27.1	Accessible metal parts of Class 0I and I appliances, permanently and reliably connected to an earthing terminal or contact of the appliance inlet	MIN TONY
Bir	Earthing terminals and earthing contacts not connected to neutral terminal	N





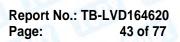
Clause	Nausa Baguirament Toet Begult Bemark Vardis			
Clause	Requirement - Test	Result - Remark	Verdic	
- D	Class 0, II and III appliance have no provision for earthing	3 1000	N	
	Safety extra-low voltage circuits not earthed, unless protective extra-low voltage circuits	THE REAL PROPERTY.	N	
27.2	Clamping means adequately secured against accidental loosening	1003 TO 10033	N	
TO STORE	Terminals used for the connection of external equipotential bonding conductors allow connection of conductors of 2.5 to 6 mm², and	EL TOP LOUIS	N	
	do not provide earthing continuity between different parts of the appliance	3 1003	N	
Dista	Conductors can not be loosened without the aid of a tool	ED112 LINE	N	
27.3	If a detachable part having an earth connection is plugged into another part of the appliance, the earth connection shall be made before the current-carrying connections are established. The current-carrying connections shall be separated before the earth connection when removing the part		N	
	For appliances with supply cord, current-carrying conductors become taut before earthing conductor, if the cord slips out of the cord anchorage		N	
27.4	No risk of corrosion resulting from contact between metal of earthing terminal and other metal	TOTAL TOTAL	N	
	Adequate resistance to corrosion of coated or uncoated parts providing earthing continuity, other than parts of a metal frame or enclosure	ODE COMPANY	N	
TOB!	Parts of steel providing earthing continuity provided at the essential areas with an electroplated coating, thickness at least 5 µm	THE PERSON WELL	N	
DI C	Adequate protection against rusting of parts of coated or uncoated steel, only intended to provide or transmit contact pressure	COLUMN TO THE PARTY OF THE PART	N	
	In case of aluminium alloys precautions taken to avoid risk of corrosion	THE PERSON NAMED IN	N	
27.5	Low resistance of connection between earthing terminal and earthed metal parts	TODY OF	N	
TODAY T	This requirement does not apply to connections providing earthing continuity in the protective extra-low voltage circuit, provided that clearances of basic insulation are based on the rated voltage of the appliance	3 TODY TODY T	N	





IEC/EN 60335-1				
Clause	Requirement - Test	Result - Remark	Verdict	
-	Resistance not exceeding 0,1 Ω at the specified low-resistance test	3 00000	N	
27.6	The printed conductors of printed circuit boards not used to provide earthing continuity in handheld appliances		N M	
TO	They may be used to provide earthing continuity in other appliances if at least two tracks are used with independent soldering points and the appliance complies with 27.5 for each circuit		N	

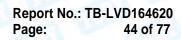
28	SCREWS AND CONNECTIONS		Р
28.1	Fixings, electrical connections and connections providing earthing continuity withstand mechanical stresses		Р
	Screws not of soft metal liable to creep, such as zinc or aluminium	THE REAL PROPERTY.	Р
3	Diameter of screws of insulating material min. 3 mm	No insulating material screws	N
1003 1000	Screws of insulating material not used for any electrical connection or connections providing earthing continuity		N
133	Screws used for electrical connections or connections providing earthing continuity screw into metal		N
a W	Screws not of insulating material if their replacement by a metal screw can impair supplementary or reinforced insulation		N
	Type X attachment, screws to be removed for replacement of supply cord or for user maintenance, not of insulating material if their replacement by a metal screw can impair basic insulation		N
	For screws and nuts; test as specified	(see appended table)	Р
28.2	Electrical connections and connections providing earthing continuity constructed so that contact pressure not transmitted through insulating material liable to shrink or distort, unless shrinkage or distortion compensated		N
	This requirement does not apply to electrical connections in circuits carrying a current not exceeding 0.5A		N
28.3	Space-threaded (sheet metal) screws only used for electrical connections if they clamp the parts together	TO THE OWNER OF THE OWNER	N





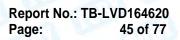
	IEC/EN 60335-1		
Clause	Requirement - Test	Result - Remark	Verdict
DI C	Thread-cutting (self-tapping) screws only used for electrical connections if they generate a full form standard machine screw thread	MODEL TO TO	N
3 00	Thread-cutting (self-tapping) screws not used if they are likely to be operated by the user or installer	ON TON	N
	Thread-cutting, thread rolling and space threaded screws may be used in connections providing earthing continuity provided it is not necessary to disturb the connection:		N
	- in normal use,	3 600	N
THE PARTY	- during user maintenance,		N
	- when replacing a supply cord having a type X attachment, or	(033)	N
	- during installation		N
COLUMN TO SERVICE SERV	At least two screws being used for each connection providing earthing continuity, unless		N
MORY	the screw forms a thread having a length of at least half the diameter of the screw	TODY OF	N
28.4	Screws and nuts that make mechanical connection secured against loosening if they also make electrical connections or connections providing earthing continuity	No such screws	N
	Rivets for electrical connections or connections providing earthing continuity secured against loosening if subjected to torsion	TORS TO	N

29	CLEARANCES, CREEPAGE DISTANCES AND SOLID INSULATION	N
	Clearances, creepage distances and solid insulation withstand electrical stress	N
100 P	For coatings used on printed circuits boards to protect the microenvironment (Type 1) or to provide basic insulation (Type 2), annex J applies:	N
	The microenvironment is pollution degree 1 under Type 1 coating	N
33	No clearance or creepage distance requirements under Type 2 coating	N



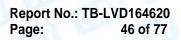


	IEC/EN 60335-1		
Clause	Requirement - Test	Result - Remark	Verdic
29.1	Clearances shall not be less than the values specified in Table 16, taking into account the rated impulse voltage for the overvoltage categories of Table 15, unless, for basic insulation and functional insulation, they comply with the impulse voltage test of Clause 14. However, if the construction is such that the distances could be affected by wear, by distortion, by movement of the parts or during assembly, the clearances for rated impulse voltages of 1 500 V and above are increased by 0,5 mm and the impulse voltage test is not applicable.		
	The impulse voltage test is not applicable when the microenvironment is pollution degree 3 or for basic insulation of class 0 appliances and class 0 appliances	COLL COL	N N
20	Appliances are in overvoltage category II	TOP TO	N
TU	Clearances less than specified in table 16 not allowed for basic insulation of class 0 and class 0 appliances,		N
BRITIS	or if pollution degree 3 is applicable	a filler	N
1033	Compliance is checked by inspection and measurements as specified	(see appended table)	N
29.1.1	Clearances of basic insulation withstand the overvoltages, taking into account the rated impulse voltage		N
	Clearance at the terminals of tubular sheathed heating elements may be reduced to 1mm if the microenvironment is pollution degree 1	ON CONTRACTOR	N
Mins	Lacquered conductors of windings are considered to be bare conductors	N CONTRACTOR OF	N
29.1.2	Clearances of supplementary insulation not less than those specified for basic insulation in table 16	(see appended table)	N
29.1.3	Clearances of reinforced insulation not less than those specified for basic insulation in table 16, but using the next higher step for rated impulse voltage	(see appended table)	Z
29.1.4	For functional insulation, the values of table 16 are applicable, unless	TOPS COMPANY	N
	the appliance complies with clause 19 with the functional insulation short-circuited	THE TOTAL	N
MILL OF	Lacquered conductors of windings considered to be bare conductors	3 THE STATE OF	N
	Clearances at crossover points of lacquered conductors not measured	TODA TODA	N





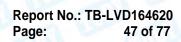
Clause	Requirement - Test	Result - Remark	Verdict
0.000		Troodic Tromain	7-4
0	Clearance between surfaces of PTC heating elements may be reduced to 1mm	S TOWN	N
29.1.5	Appliances having higher working voltage than rated voltage, the voltage used for determining clearances from table 16 is the sum of the rated impulse voltage and the difference between the peak value of the working voltage and the peak value of the rated voltage		
TOES OF	If the secondary winding of a step-down transformer is earthed, or if there is an earthed screen between the primary and secondary windings, clearances of basic insulation on the secondary side not less than those specified in table 16, but using the next lower step for rated impulse voltage		Z
	Circuits supplied with a voltage lower than rated voltage, clearances of functional insulation based on the working voltage used as the rated voltage in table 15		N
29.2	Creepage distances not less than those appropriate for the working voltage, taking into account the material group and the pollution degree	II TODI O	N
III.	Pollution degree 2 applies, unless	Pollution degree 2	N
(1)	precautions taken to protect the insulation; pollution degree 1	TOTAL TOTAL	N
a W	insulation subjected to conductive pollution; pollution degree 3	TO TO THE REAL PROPERTY.	N
TOU	Compliance is checked by inspection and measurements as specified	(see appended table)	N
29.2.1	Creepage distances of basic insulation not less than specified in table 17	(see appended table)	N
	For pollution degree 1, creepage distance not less than the minimum specified for the clearance in table 16, if the clearance has been checked according to the test of clause 14	TOTA TOTA	N
29.2.2	Creepage distances of supplementary insulation at least as specified for basic insulation in table 17	(see appended table)	N
29.2.3	Creepage distances of reinforced insulation at least double as specified for basic insulation in table 17	(see appended table)	N
29.2.4	Creepage distances of functional insulation not less than specified in table 18	a Comment of	N





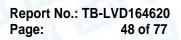
	IEC/EN 60335-1		
Clause	Requirement - Test	Result - Remark	Verdict
TIS S	Creepage distances may be reduced if the appliance complies with clause 19 with the functional insulation short-circuited		N
29.3	Supplementary and reinforced insulation having adequate thickness, or a sufficient number of layers, to withstand the electrical stresses	ON TON	N
0.00	Compliance is checked by:	1000	N
	measurement, in accordance with 29.3.1	Die Company	N
MIN'S	and electric strength test in accordance with 29.3.2	A COURS	N
	for accessible reinforced insulation consisting of a single layer, measurement in accordance with 29.3.4	CONTRACTOR OF	N
29.3.1	Supplementary insulation having a thickness of at least 1 mm	TOTAL TOTAL	N
3 600	Reinforced insulation having a thickness of at least 2 mm		N
29.3.2	Each layer of material withstand the electric strength test of 16.3 for supplementary insulation		N
TOB3	Supplementary insulation consisting of at least 2 layers		N
	Reinforced insulation consisting of at least 3 layers		N
29.3.3	The insulation is subjected to the dry heat test Bb of IEC 60068-2-2, followed by	EDITO EDITOR	N
a W	the electric strength test of 16.3		N
TU	If the temperature rise during the tests of Clause 19 does not exceed the value specified in Table 3, the test of IEC 60068-2-2 is not carried out		N
29.3.4	For accessible reinforced insulation consisting of a single layer, the thickness of the layer complies with table 19; rated voltage (V); overvoltage category; thickness (mm)	TOTAL TOTAL OF	N

30	RESISTANCE TO HEAT AND FIRE		N
30.1	External parts of non-metallic material,	Diss and Different	N
OIL)	parts supporting live parts, and		N
	thermoplastic material providing supplementary or reinforced insulation,	The same of the sa	N
Aller	sufficiently resistant to heat		N
100	Ball-pressure test according to IEC 60695-10-2	(see appended table)	N





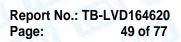
	IEC/EN 60335-1			
Clause	Requirement - Test	Result - Remark	Verdic	
	External parts: at 40 °C plus the maximum temperature rise determined during the test of clause 11, or at 75 °C, whichever is the higher; temperature (°C):	TOTA TOTA	N N	
TO THE	Parts supporting live parts: at 40°C plus the maximum temperature rise determined during the test of clause 11, or at 125°C, whichever is the higher; temperature (°C):		N	
1013	Parts of thermoplastic material providing supplementary or reinforced insulation, 25°C plus the maximum temperature rise determined during clause 19, if higher; temperature (°C):		N	
30.2	Parts of non-metallic material adequately resistant to ignition and spread of fire	EDITO TOTAL	N	
TO S	This requirement does not apply to decorative trims, knobs and other parts unlikely to be ignited or to propagate flames that originate inside the appliance	TODY TODY	N N	
	Compliance checked by the test of 30.2.1. In addition:	TO THE OWNER OF THE OWNER OWNER OF THE OWNER O	N	
	-attended appliances, 30.2.2 applies	Mark Comments	N	
TO V	-unattended appliances, 30.2.3 applies		N	
	Appliances for remote operation, 30.2.3 applies		N	
	Base material of printed circuit board, 30.2.4 applies	TIES TOP	N	
30.2.1	Glow-wire test of IEC 60695-2-11 at 550 °C, unless	(see appended table)	N	
THE	the material is classified at least HB40 according to IEC 60695-11-10	TODAY OF	N	
WI C	Parts for which the glow-wire test cannot be carried out meet the requirements in ISO9772 for category HBF material	TITLE TO	N N	
30.2.2	Appliances operated while attended, parts of insulating material supporting current-carrying connections and parts within a distance of 3mm subjected to the glow-wire test of IEC 60695-2-11:		N	
CITE S	-750°C, for connections carrying a current exceeding 0,5A during normal operation	The Court of the C	N	
	-650°C, for other connections	WAR WORK IN	N	
TIB3	Test not applicable to conditions as specified		N	
30.2.3	Appliances operated while unattended, tested as specified in 30.2.3.1 and 30.2.3.2	3 (00)	N	
The same	Test not applicable to conditions as specified	and the	N	





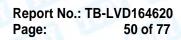
	IEC/EN 60335-1		
Clause	Requirement - Test	Result - Remark	Verdict
30.2.3.1	Parts of insulating material supporting connections carrying a current exceeding 0.2A during normal operation, and		N
a Go	parts of insulating material within a distance of 3mm,	TODAY	N
TO THE	subjected to the glow-wire test of IEC 60695-2-11 with a test severity of 850°C		N
TOTA	Glow-wire test not carried out on parts of material classified as having a glow-wire flammability index of at least 850°C according to IEC 60695-2-12		N N N N N N N N N N N N N N N N N N N
30.2.3.2	Parts of insulating material supporting current- carrying connections, and		N
B m	parts of insulating material within a distance of 3mm,	TO TO	N
CITI'S	subjected to glow-wire test of IEC 60695-2-11		N
MORE	Test not carried out on material having a glowwire ignition temperature according to IEC 60695-2-13 of at least:	TO TO TO TO	N
T 8000	-775°C, for connections carrying a current exceeding 0,2A during normal operation	The Contract of the Contract o	N
1	-675°C, for other connections	The same of the sa	N
2 P	Glow-wire test of IEC 60695-2-11, the temperature	e being:	N
TO S	-750°C, for connections carrying a current exceeding 0,2A during normal operation	TO TO THE REAL PROPERTY.	N N
3	-650°C, for other connections	UBA TOTAL	N
Milita	Parts that during the test produce a flame persisting longer than 2 s, tested as specified	TO TO THE REAL PROPERTY.	N
	If a flame persists longer than 2 s during the test, parts above the connection, as specified, subjected to the needle-flame test of annex E, unless	TOTAL TOTAL	N N
	the material is classified as V-0 or V-1 according to IEC 60695-11-10	COLUMN TO THE REAL PROPERTY.	N
30.2.4	Base material of printed circuit boards subjected to needle-flame test of annex E	THE TOTAL STATE OF	N
O. D.	Test not applicable to conditions as specified		N

31	RESISTANCE TO RUSTING		Р
	Relevant ferrous parts adequately protected against rusting	No ferrous parts	P



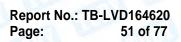


	IEC/EN 60335-1			
Clause	Requirement - Test	Result - Remark	Verdict	
6			Mr. Par	
32	RADIATION, TOXICITY AND SIMILAR HAZARDS		Р	
B W	Appliance shall not emit harmful radiation, present a toxic or similar hazard due to their operation in normal use		Р	
CITE OF	Relevant tests specified in part 2, if necessary		N	
	Compliance regarding electromagnetic fields is checked according to EN 50366 or EN 62233	Ell Elles	Р	
OHO.			THE STATE	
A	ANNEX A (INFORMATIVE) ROUTINE TESTS		N	
1 O	Description of routine tests to be carried out by the manufacturer	Carried out by the manufacturer, not inspected	N	
В	ANNEX B (NORMATIVE) APPLIANCES POWERED BY RECHARGEABLE E		N	
	The following modifications to this standard are applicable for appliances powered by batteries that are recharged in the appliance	No rechargeable batteries	N	
10:30	This annex does not apply to battery chargers	Will be the same	N	
3.1.9	Appliance operated under the following conditions:		N	
000	-the appliance, supplied by its fully charged battery, operated as specified in relevant part 2	TORS THE	N	
D WE	-the battery is charged, the battery being initially discharged to such an extent that the appliance cannot operate		N	
	-if possible, the appliance is supplied from the supply mains through its battery charger, the battery being initially discharged to such an extent that the appliance cannot operate. The appliance is operated as specified in relevant part 2		N	
	If the appliance incorporates inductive coupling between two parts that are detachable from each other, the appliance is supplied from the supply mains with the detachable part removed	THE PARTY OF THE P	N	
3.6.2	Part to be removed in order to discard the battery is not considered to be detachable	THE PARTY OF THE P	N	
5.101	Appliances supplied from the supply mains tested as specified for motor-operated appliances	The state of the s	N	
7.1	Battery compartment for batteries intended to be replaced by the user, marked with battery voltage and polarity of the terminals		N	



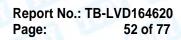


	IEC/EN 60335-1		
Clause	Requirement - Test	Result - Remark	Verdict
7.12	The instructions for appliances incorporating batteries intended to be replaced by the user includes required information		N
7 50	Details about how to remove batteries containing materials hazardous to the environment given	The same of the sa	N
7.15	Markings placed on the part of the appliance connected to the supply mains	1000 E 1000	N
8.2	Appliances having batteries that according to the instruction may be replaced by the user need only have basic insulation between live parts and the inner surface of the battery compartment		N
033	If the appliance can be operated without batteries, double or reinforced insulation required	TOTAL TOTAL	N
11.7	The battery is charged for the period described		N
19.1	Appliances subjected to tests of 19.101, 19.102 and 19.103	THE PARTY OF THE P	N
19.101	Appliances supplied at rated voltage for 168 h, the battery being continually charged	The state of the s	N
19.102	Short-circuiting of the terminals of the battery, being fully charged, for appliances having batteries that can be removed without the aid of a tool		N
19.103	Appliances having batteries replaceable by the user supplied at rated voltage under normal operation with the battery removed or in any position allowed by the construction	The battery not intended to be replace by user	N
21.101	Appliances having pins for insertion into socket- outlets have adequate mechanical strength, checked according to procedure 2 of IEC 68-2-32	No direct plug-in appliance	N
mB	Part of the appliance incorporating the pins subjected of IEC 60068-2-32, the number of falls being:	ed to the free fall test, procedure 2,	N
	- 100, the mass of part does not exceed 250 g		N
	- 50, the mass of part exceeds 250 g		N
	After the test, the requirements of 8.1, 15.1.1, 16.3 and clause 29 are met		N
22.3	Appliances having pins for insertion into socket- outlets tested as fully assembled as possible	TOO TOO	N
25.13	An additional lining or bushing not required for interconnection cords operating at safety extra-low voltage		N
30.2	For parts of the appliance connected to the supply mains during the charging period, 30.2.3 applies	TO TO THE REAL PROPERTY.	N



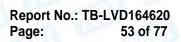


	IEC/EN 60335-1		
Clause	Requirement - Test	Result - Remark	Verdict
	For other parts, 30.2.2 applies		N
THE STATE	COLUMN TO THE PARTY OF THE PART		33 - 13
С	ANNEX C (NORMATIVE) AGEING TEST ON MOTORS		P
EQU.	Tests, as described, carried out when doubt with regard to the temperature classification of the insulation of a motor winding	TOTAL TOTAL	P
D	ANNEX D (NORMATIVE)	TO THE REAL PROPERTY.	N
	THERMAL MOTOR PROTECTORS	13 - 10:33	a fine
	Applicable to appliances having motors that incorporate thermal motor protectors	EDDA ET	N
O W			3
E	ANNEX E (NORMATIVE) NEEDLE-FLAME TEST		N N
TORY	Needle-flame test carried out in accordance with IEC 60695-2-2, with the following modifications:	THE THE PARTY OF	N
7	Severities	THE PARTY OF THE P	N
1000	The duration of application of the test flame is 30 s ± 1 s		N
9	Test procedure		N
9.1	The specimen so arranged that the flame can be applied to a vertical or horizontal edge as shown in the examples of figure 1	TORS THE	N
9.2	The first paragraph does not apply	000	N
En.	If possible, the flame is applied at least 10 mm from a corner	TO THE REAL PROPERTY.	N
9.3	The test is carried out on one specimen		N
	If the specimen does not withstand the test, the test may be repeated on two further specimens, both withstanding the test		N
11	Evaluation of test results		N
10	The duration of burning not exceeding 30 s		N
TO B	However, for printed circuit boards, the duration of burning not exceeding 15 s	TODA	N
		The state of the s	mill be
FILLER	ANNEX F (NORMATIVE) CAPACITORS	The state of the s	N





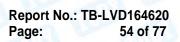
Clause	Requirement - Test	Result - Remark	Verdic
	Capacitors likely to be permanently subjected to the supply voltage, and used for radio interference suppression or voltage dividing, comply with the following clauses of IEC 60384-14, with the following modifications:		N N
1.5	Terminology	The state of the s	N
1.5.3	Class X capacitors tested according to subclass X2	THE PERSON NAMED IN	N
1.5.4	This subclause is applicable		N
1.6	Marking		N
	Items a) and b) are applicable		N
3.4	Approval testing		N
3.4.3.2	Table II is applicable as described		N
4.1	Visual examination and check of dimensions	THE PARTY OF	N N
GALLE	This subclause is applicable		N
4.2	Electrical tests	The same	N
4.2.1	This subclause is applicable	a Burney	N
4.2.5	This subclause is applicable	De Company	N
4.2.5.2	Only table IX is applicable	Will be the	N
- W	Values for test A apply		N
133	However, for capacitors in heating appliances the values for test B or C apply	The same	N N
4.12	Damp heat, steady state		N
TO CO	This subclause is applicable		N
Alexander	Only insulation resistance and voltage proof are checked	33 (103)	N
4.13	Impulse voltage	1000	N
	This subclause is applicable		N
4.14	Endurance		N
	Subclauses 4.14.1, 4.14.3, 4.14.4 and 4.14.7 applicable		N
4.14.7	Only insulation resistance and voltage proof are checked		N
	Visual examination, no visible damage		N
4.17	Passive flammability test		N
-	This subclause is applicable	1000	N
4.18	Active flammability test		N





IEC/EN 60335-1			
Clause	Requirement - Test	Result - Remark	Verdict
Time of	This subclause is applicable	1000	N

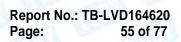
G	ANNEX G (NORMATIVE) SAFETY ISOLATING TRANSFORMERS	N
COLUMN TO SERVICE STATE OF THE PARTY OF THE	The following modifications to this standard are applicable for safety isolating transformers:	N
7	Marking and instructions	N
7.1	Transformers for specific use marked with:	N
-10	-name, trademark or identification mark of the manufacturer or responsible vendor	N
Miss -	-model or type reference	N
17	Overload protection of transformers and associated circuits	N
	Fail-safe transformers comply with subclause 15.5 of IEC 61558-1	N
22	Construction	N
MIRE	Subclauses 19.1 and 19.1.2 of IEC 61558-2-6 are applicable	N
29	Clearances, creepage distances and solid insulation	N
29.1, 29.2 and 29.3	The distances specified in items 2a, 2c and 3 in table 13 of IEC 61558-1 apply NOTE: The values stated for pollution degree 2 are applicable.	N
H MON	ANNEX H (NORMATIVE) SWITCHES	N
	Switches comply with the following clauses of IEC 61058-1, as modified:	N
Mary C	-The tests of IEC 61058-1 carried out under the conditions occurring in the appliance	N
1033	-Before being tested, switches are operated 20 times without load	N
8	Marking and documentation	N
View Control	Switches are not required to be marked	N
TO THE	However, switches that can be tested separately from the appliance marked with the manufacturer's name or trade mark and the type reference	N
13	Mechanism	N
EUR DE	The tests may be carried out on a separate sample	N
15	Insulation resistance and dielectric strength	N





	IEC/EN 60335-1			
Clause	Requirement - Test	Result - Remark	Verdict	
15.1	Not applicable		N	
15.2	Not applicable		N	
15.3	Applicable for full disconnection and micro-disconnection	TO TO THE OWNER OF THE OWNER OWNER OF THE OWNER OWNER OF THE OWNER OW	N	
17	Endurance	The same of the sa	N	
Emr	Compliance is checked on three separate appliances or switches	THE PROPERTY LESS	N	
TOTAL ST	For 17.2.4.4, the number of cycles is 10 000, unless otherwise specified in 24.1.3 of the relevant part 2 of IEC 60335	3 TODY TODY	N	
33 (10)	Switches for operation under no load and which can be operated only by a tool and switches operated by hand that are interlocked so that they cannot be operated under load, are not subjected to the tests		N	
CALLE	Subclause 17.2.5.2 is not applicable		N	
TOBE	Temperature rise of the terminals not more than 30 K above the temperature rise measured in clause 11 of EN 60335-1	TOTAL TOTAL	N	
20	Clearances, creepage distances, solid insulation ar assemblies	nd coatings of rigid printed board	N	
	This clause is applicable to clearances and creepage distances for functional insulation, across full disconnection and micro-disconnection, as stated in table 24		N	

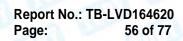
TO	ANNEX I (NORMATIVE) MOTORS HAVING BASIC INSULATION THAT IS INADEQUATE FOR THE RATED VOLTAGE OF THE APPLIANCE	N
1031 1031	The following modifications to this standard are applicable for motors having basic insulation that is inadequate for the rated voltage of the appliance:	N
8	Protection against access to live parts	N
8.1	Metal parts of the motor are considered to be bare live parts	N
11	Heating	N
11.3	Temperature rise of the body of the motor is determined instead of the temperature rise of the windings	N





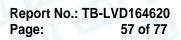
	IEC/EN 60335-1		
Clause	Requirement - Test	Result - Remark	Verdict
11.8	Temperature rise of the body of the motor, where in contact with insulating material, not exceeding values in table 3 for the relevant insulating material		N
16	Leakage current and electric strength		N
16.3	Insulation between live parts of the motor and its other metal parts not subjected to the test		N
19	Abnormal operation	The state of the s	N
19.1	The tests of 19.7 to 19.9 not carried out	LOUIS TO THE	N
19.101	The appliance is supplied at rated voltage and ope each of the following fault conditions	rated under normal operation with	N
TO THE	- short circuit of the terminals of the motor, including any capacitor incorporated in the motor circuit		N
	- short circuit of each diode of the rectifier		N
1000	- open circuit of the supply to the motor		N
MARK	- open circuit of any parallel resistor, the motor being in operation	1000	N
mi3	Only one fault simulated at a time, the tests carried out consecutively	The state of the s	N
	When any of the fault conditions are simulated, the duration of the test is as specified in 19.7.		N
22	Construction	CONTRACTOR OF THE PARTY OF THE	N
22.101	For class I appliances incorporating a motor supplied by a rectifier circuit, the d.c. circuit being insulated from accessible parts of the appliance by double or reinforced insulation		N
	Compliance checked by the tests specified for double and reinforced insulation	DI TOUR	N

J	ANNEX J (NORMATIVE) COATED PRINTED CIRCUIT BOARDS	Z
D W	Testing of protective coatings of printed circuit boards carried out in accordance with IEC 60664-3 with the following modifications:	N
5.7	Conditioning of the test specimens	N
	When production samples are used, three samples of the printed circuit board are tested	N
5.7.1.	Cold	N
	The test is carried out at -25°C	N





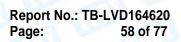
	IEC/EN 60335-1		
Clause	Requirement - Test	Result - Remark	Verdict
5.7.3	Rapid change of temperature		N
TO BEET	Severity 1 is specified	THE PARTY OF THE P	N
5.9	Additional tests		N
1	This subclause is not applicable		N
TO THE			339
K	ANNEX K (NORMATIVE) OVERVOLTAGE CATEGORIES		Р
MIN'S	The information on overvoltage categories is extracted from IEC 60664-1	J. Maria	P
THE .	Overvoltage category is a numeral defining a transient overvoltage condition	MODE OF THE PARTY	Р
B W	Equipment of overvoltage category IV is for use at the origin of the installation	TO THE REAL PROPERTY.	N
	Equipment of overvoltage category III is equipment in fixed installations and for cases where the reliability and the availability of the equipment is subject to special requirements		N
	Equipment of overvoltage category II is energy consuming equipment to be supplied from the fixed installation		Р
B C	If such equipment is subjected to special requirements with regard to reliability and availability, overvoltage category III applies		N
	Equipment of overvoltage category I is equipment for connection to circuits in which measures are taken to limit transient overvoltages to an appropriate low level		N
Billion			COLUMN TO SERVICE SERV
DE	ANNEX L (INFORMATIVE) GUIDANCE FOR THE MEASUREMENT OF CLEADISTANCES	RANCES AND CREEPAGE	Р
D T	Sequences for the determination of clearances and creepage distances		Р
		TOTAL TOTAL	The same
М	ANNEX M (NORMATIVE) POLLUTION DEGREE	Dir Company	Р
EM	The information on pollution degrees is extracted from IEC 60664-1	DI TODIS	Р
MILE	Pollution		Р
	The microenvironment determines the effect of pollution on the insulation, taking into account the microenvironment	TO TO THE PARTY OF	Р





	IEC/EN 60335-1		
Clause	Requirement - Test	Result - Remark	Verdict
- E	Means may be provided to reduce pollution at the insulation by effective enclosures or similar	3 (10)33	P
000	Minimum clearances specified where pollution may be present in the microenvironment	DECEMBER OF THE PARTY OF THE PA	P
33	Degrees of pollution in the microenvironment		Р
ELOD B	For evaluating creepage distances, the following demicroenvironment are established:	egrees of pollution in the	Р
TOP	 pollution degree 1: no pollution or only dry, non- conductive pollution occurs. The pollution has no influence 	TOPY OF	N
	- pollution degree 2: only non-conductive pollution occurs, except that occasionally a temporary conductivity caused by condensation is to be expected	COLL COL	P
3 (10)	- pollution degree 3: conductive pollution occurs or dry non-conductive pollution occurs that becomes conductive due to condensation that is to be expected	THE COLUMN TOWN	N
EDITO :	- pollution degree 4: the pollution generates persistent conductivity caused by conductive dust or by rain or snow	N CONTRACTOR OF	N

N	ANNEX N (NORMATIVE) PROOF TRACKING TEST	N
B W	The proof tracking test is carried out in accordance with IEC 60112 with the following modifications:	N
7	Test apparatus	N
7.3	Test solutions	N
THE STATE OF THE S	Test solution A is used	N
10	Determination of proof tracking index (PTI)	N
10.1	Procedure	N
Name of the last	The proof voltage is 100V, 175V, 400V or 600V:	N
O V	The last paragraph of Clause 3 applies	N
	The test is carried out on five specimens	N
	In case of doubt, additional test with proof voltage reduced by 25V, the number of drops increased to 100	N N
10.2	Report	N

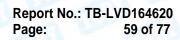




	IEC/EN 60335-1				
Clause	Requirement - Test	Result - Remark	Verdict		
TO T	The report stating if the PTI value was based on a test using 100 drops with a test voltage of (PTI-25) V	TODAY TODAY	N		
10	Determination of proof tracking index (PTI)		N		
10.1	Procedure		N		

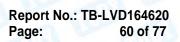
0	ANNEX O (INFORMATIVE) SELECTION AND SEQUENCE OF THE TESTS OF CLAUSE 30	Р
TO TO	Description of tests for determination of resistance to heat and fire	Р

P	ANNEX P (INFORMATIVE) GUIDANCE FOR THE APPLICATION OF THIS STANDARD TO APPLIANCES USED IN WARM DAMP EQUABLE CLIMATES	N
J THE	Modifications applicable for class 0 and 01 appliances having a rated voltage exceeding 150V, intended to be used in countries having a warm damp equable climate and that are marked WdaE	N
TO BE	Modifications may also be applied to class 1 appliances having a rated voltage exceeding 150V, intended to be used in countries having a warm damp equable climate and that are marked WdaE, if liable to be connected to a supply mains that excludes the protective earthing conductor	N
5	General conditions for the tests	N
5.7	The ambient temperature for the tests of Clauses 11 and 13 is 40 $^{+3}/_{0}$	N
7	Marking and instructions	N
7.1	The appliance marked with the letters WdaE	N
7.12	The instructions state that the appliance is to be supplied through a RCD having a rated residual operating current not exceeding 30 mA	N
	The instructions state that the appliance is considered to be suitable for use in countries having a warm damp equable climate, but may also be used in other countries	N
11	Heating	N
11.8	The values of Table 3 are reduced by 15 K	N
13	Leakage current and electric strength at operating temperature	N
13.2	The leakage current for class I appliances not exceeding 0,5 Ma	N
15	Moisture resistance	N
15.3	The value of t is 37 °C	N
16	Leakage current and electric strength	N



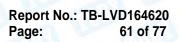


	IEC/EN 60335-1		
Clause	Requirement - Test	Result - Remark	Verdic
16.2	The leakage current for class I appliances not exceeding 0,5 mA	3 CONTRACTOR	N
19	Abnormal operation	COLOR TO THE PARTY OF THE PARTY	N
19.13	The leakage current test of 16.2 is applied in addition to the electric strength test of 16.3		N
THE			9
Q	ANNEX Q (INFORMATIVE) SEQUENCE OF TESTS FOR THE EVALUATION OF ELECTRONIC CIRCUITS		N
The state of	Description of tests for appliances incorporating ele	ctronic circuits	N
R	ANNEX R (NORMATIVE) SOFTWARE EVALUATION	TO THE REAL PROPERTY.	N
	Software evaluated in accordance with the following 1, as modified	g clauses of Annex H of IEC 60730-	N
H.2	Definitions		N
	Only definitions H.2.16 to H.2.20 applicable		N
H.7	Information	a verification of	N
THE REAL PROPERTY.	Only footnotes 12) to 18) of Table 7.2, as modified, applicable		N
H.11.12	Controls using software		N
	All the subclauses of H.11.12, as modified, except H.11.12.6 and H.11.12.6.1, applicable	TIES TO THE STATE OF THE STATE	N
H.11.12.7	Delete text	The state of the s	N
H.11.12.7.1	For appliances using software class C having a single channel with self-test and monitoring structure, the manufacturer provides the measures necessary to address the fault/errors in safety related segments and data		N
H.11.12.8	Software fault/error detection occurs before compliance with 19.13 of IEC 60335-1 is impaired	J TOOLS OF THE	N
H.11.12.8.1	Replace text		N
H.11.12.13	Software and safety related hardware under its control initializes and terminates before compliance with 19.13 of IEC 60335-1 is impaired		N
Same?	The state of the s		
ZA	ANNEX ZA (NORMATIVE) SPECIAL NATIONAL CONDITIONS		N
7.12	DENMARK: Requirements regarding marking tag of power supply cord and connection of earthing wire for class I appliances delivered without a plug		N





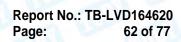
	IEC/EN 60335-1		
Clause	Requirement - Test	Result - Remark	Verdic
19.5	NORWAY: The test is also applicable to appliances intended to be permanently connected to fixed wiring	TOUR TOUR	N
22.2	FRANCE, NORWAY: The second paragraph of this subclause, dealing with single-phase, permanently connected class I appliances having heating elements, is not applicable due to the supply system		N
25.6	BELGIUM, FRANCE, SPAIN, UNITED KINGDOM: Plugs according to standard sheet C2b not allowed		N
	AUSTRIA, FINLAND, GERMANY, ICELAND, IRELAND, ITALY, LUXEMBOURG, NETHERLANDS, NORWAY, PORTUGAL, SPAIN, SWEDEN, SWITZERLAND, UNITED KINGDOM: Plugs according to standard sheet C3b not allowed		N
TODA	DENMARK: Supply cords of single-phase portable appliances having a rated current not exceeding 13 A provided with a plug according to the following:		N
T 1000	Class I appliances: Section 107-2-D1, ed.3 1998, Standard Sheet DK 2-1a	The state of the s	N
	For appliances covered by a Part 2 of EN 60335, also plugs in accordance with Section 107-2-D1, ed. 3, 1998, Standard Sheet C2b, C3b or C4 are allowed		N
3 000	Class II appliances: Section 107-2-D1, ed.3 1998, Standard Sheet C1b, C5, C6, DKA 2-1a and DKA 2-1b		N
1033	Stationary single-phase appliances, having a rated current not exceeding 13 A, and provided with a supply cord and a plug, the plug is in accordance with the requirements above	N TO THE ROLL OF	N
	Multi-phase appliances and single-phase appliances having a rated current exceeding 13 A, and provided with a supply cord and a plug, the plug is in accordance with the requirements below:		N
	Class I appliances: Section 107-2-D1, Standard Sheet DK 6-1a / EN 60309-2, Standard Sheet 2-II, 2-IV		N
TOTA	Class II appliances: Section 107-2-D1, Standard Sheet DK 6-1a / EN 60309-2, Standard Sheet 2-II, 2-IV, the earthing contact not being connected		N





	IEC/EN 60335-1				
Clause	Requirement - Test	Result - Remark	Verdict		
TILL S	The current for the plug not exceeding the values specified; standard sheet (no.); current (A)	TOTAL TOTAL	N		
D W	IRELAND: Only plugs according to Standard Sheets B2 and C5 allowed (see also Annex ZB)	ON TOR	N		
(LOD)	ITALY: Only plugs listed in CENELEC Report R0BT-005:2001 allowed	THE PROPERTY OF	N		
TOUR	SPAIN: For appliances for household use, only the following plugs are allowed:	TODY T	N		
	according to UNE 20315: ESC 10-1b, C2b, C4, C6 or ESB 25-5b	The state of the s	N		
	according to UNE-EN 50075	Brown State of the	N		
	SWITZERLAND: supply cords of portable household and similar electrical appliances having a rated current not exceeding 10 A, provided with a plug complying with SEV 1011 or IEC 60884-1 and one of the following dimension sheets:	TOTA TOTA TOTA	N		
MARY	SEV 6532-2.1991, plug type 15, 3P+N+PE, 250/400 V, 10 A		N		
	SEV 6533-2.1991, plug type 11, L+N, 250 V, 10 A	De la Company	N		
Miles	SEV 6534-2.1991 plug type 12, L+N+PE, 250 V, 10 A	THE REAL PROPERTY.	N		
	UNITED KINGDOM: Only plugs according to Standard Sheets B2 and C5 allowed (see also Annex ZB)	LIDES LIDES	N		
25.8	IRELAND, UNITED KINGDOM: replacement of figures (rated current/cross-sectional area) in the table	<10A	N		

ZB	ANNEX ZB (INFORMATIVE) A-DEVIATIONS	N
4	SWITZERLAND: Information about batteries with carbon-zinc and alkali-manganese	N
7.1	ITALY: The voltage is 220 V/380 V	N N
25.6	IRELAND: These regulations apply to all plugs for domestic use at a voltage of not less than 200 V and in general allow only plugs complying with I.S. 401:1997, or equivalent, to be fitted to domestic appliances.	



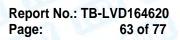


	IEC/EN 60335-1			
Clause	Clause Requirement - Test Result - Remark			
	UNITED KINGDOM: These regulations apply to all plugs for domestic use at a voltage of not less than 200 V and in general allow only plugs to BS 1363 to be fitted to domestic appliances. It also allows plugs to BS 4573 and EN 50075 to be fitted to shavers and toothbrushes.	TOTAL TOTAL	N N	

ZC	ANNEX ZC (NORMATIVE) NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH THEIR CORRESPONDING EUROPEAN PUBLICATIONS	
	This Standard incorporates provisions from the publications listed	Р
3)	EN 50525 series, which is related to, but not directly equivalent with the IEC 60227 series, applies instead.	Р
4)	EN 50525 series, which is related to, but not directly equivalent with the IEC 60245 series, applies instead.	Р
1 62	EN 50525-3-11	Р
100	EN 50525-3-21	Р

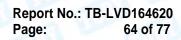
ZD	ANNEX ZD (INFORMATIVE) IEC and CENELEC CODE DESIGNATIONS FOR FLEXIBLE CORDS	
1	A list of code designations for different types of flexible cords	N

ZE	ANNEX ZE (INFORMATIVE) SPECIFIC ADDITIONAL REQUIREMENTS FOR APPLIANCES AND MACHINES INTENDED FOR COMMERCIAL USE	N
7	Marking and instructions	N
7.1	Specific additional requirements for appliances and machines intended for commercial use	N
	- business name and full address of the manufacturer and, where applicable, his authorized representative;	N
The same of the sa	- model or type reference, serial number, if any, and production year;	N
O W	- designation of the appliance.	N
7.12	Replace the first sentence in the requirement by:	N
Em	Instructions shall be provided with the appliance so that the appliance can be used safely.	N
	The instructions shall contain at least the following information:	N
	the business name and full address of the manufacturer and, where applicable, his authorized representative;	N



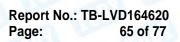


Clause	Requirement - Test	Result - Remark	Verdic
	model or type reference of the appliance as	1	N
	marked on the appliance itself, except for the		
	serial number;		
	the designation of the appliance together with its explanation in case it is given by a		N
	combination of letters and/or numbers.	THE PARTY OF	The second
	the general description of the appliance,		
	when needed due to the complexity of the	Miles Inches	N
	appliance;	(11)	CALLES
	specific precautions if required during	The second of the second	
	installation, operation, adjusting, user	The second	N
	maintenance, cleaning, repairing or moving;	(C)	(1)
M. Commercial Commerci	when needed drawings, diagrams,		N
	descriptions and explanations necessary for the		N I I I I
	safe use and user maintenance of the appliance;		33
1000	the possible reasonably foreseeable misuse		N
	and, whenever relevant, a warning against the		m(1)
	effects it may have on the safe use of the		The same
	appliance;		2 611
	the designation of the appliance together		N
	with its explanation in case it is given by a		THE PARTY OF
1000	combination of letters and/or numbers.		
1.12.ZE1	Wherever needed for specific appliances,	The state of the s	N
	information shall be given		
	- on use, transportation, assembly, dismantling	A RECEIPT OF	N
	when out of service, testing or foreseeable breakdowns, if these operations have		130
	consequences on stability of the appliance in		133
	order to avoid overturning, falling or uncontrolled		
	movements of the appliance or of its component		
	parts;		
300	- on how to maintain adequate mechanical		N
	stability when in use, during transportation,	Comment of the commen	
	assembly, dismantling, scrapping and any other		Marie Co
	action involving the appliance;		CII)
	- on the protective measures to be taken by the	Contract of the second	N
	user, including, where appropriate, the personal		
1300	protective equipment to be provided;		A:III
	- on the operating method to be followed in the	33	N
	event of accident or breakdown; if a blockage is		1.33
	likely to occur the operating method to safely		100
	unblock the appliance;		0111111
	- on the specifications on the spare parts to be	The state of the s	N
	used, when these affect the health and safety of		
	the operator;		
	- on airborne noise emissions, determined and		N
40 ===	declared in accordance with the relevant Part 2. The instructions shall include a warning that the	10111	
1.12.ZE2	appliance shall be disconnected from its power	The state of the s	N
	source during service and when replacing parts		THE PARTY OF THE P
	and, if that the removal of the plug is foreseen, it		COLUMN TO SERVICE OF THE PARTY
	shall be clearly indicated that the removal of the	The state of the s	13
	plug has to be such that an operator can check		11:30
	from any of the points to which he has access that	a filling of	100
	the plug remains removed.		C 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1





	IEC/EN 60335-1			
Clause	Requirement - Test	Result - Remark	Verdict	
DIS C	If this is not possible, due to the construction of the appliance or its installation, a disconnection with a locking system in the isolated position shall be provided.	TODY TODY	N	
19	Abnormal operation		N	
19.11.4.8	The appliance shall continue to operate, without causing any hazard to the user, from the same point in its operating cycle at which the voltage fluctuation occurred, or a manual operation shall be required to restart it.	ON THE PARTY OF	N	
20	Stability and mechanical hazards	THE PROPERTY OF THE PARTY OF TH	N	
20.1	Appliances and their components and fittings shall have adequate mechanical stability during transportation, assembly, dismantling and any other action involving the appliance.	TOTAL TOTAL	N	
20.2	Replace the requirements and notes by: Dangerous moving transmission parts shall be safeguarded either by design or guards. When guards are used, they shall be fixed guards, interlocking movable guards or protective devices.		N	
	Moving parts directly involved in the function of the appliance which cannot be made completely inaccessible shall be fitted with: - fixed guards or interlocking movable guards preventing access to those sections of the parts that are not used in the work, and - adjustable guards restricting access to those sections of the moving parts where access is necessary. Interlocking movable guards (e.g. the door of a		N	
	washing machine) shall be used where frequent access is required.	TO THE REAL PROPERTY.	N	
21	Mechanical strength	UBA LOURS	N	
21.1	Appliances and their components and fittings shall have adequate mechanical strength and be constructed to withstand such rough handling that may be expected in normal use, during transportation, assembly, dismantling, scrapping and any other action involving the appliance.		N	
22	Construction	a minimum	N	
22.ZE.1	For appliances provided with a seat, the seat has to give adequate stability. The distance between the seat and the control devices shall be capable of being adapted to the operator.	THE PART OF THE PA	N	
22.ZE.2	For appliances provided with separate devices for the start and the stop functions, the stop function shall be unambiguously identifiable and shall always override the start function.		N	
22.ZE.3	Appliances shall be designed in such a way that incorrect mounting is avoided, if this can lead to an unsafe situation. If this is not possible, information on the correct mounting shall be given directly on the part and/or the enclosure.		N	





IEC/EN 60335-1			
Clause	Requirement - Test	Result - Remark	Verdict
22.ZE.4	Where the weight, size or shape prevents appliances from being moved manually, they shall be fitted with attachments for lifting gear or be designed so they can be fitted with such attachments, or be shaped in such a way that standard lifting gear can easily be used.	TODA TODA	N
22.ZE.5	The fixing systems of fixed guards which prevent access to dangerous moving transmission parts shall only be removable with the use of tools.	The same	N
22.ZE.6	Interlocking movable guards shall be designed in such a way that the absence or failure of one of their components prevents starting or stops the hazardous appliance functions.		N
22.ZE.7	Adjustable guards restricting access to areas of the moving parts strictly necessary for the work shall be		N
MI	adjustable manually or automatically, depending on the type of work involved, and	1000	N
	— readily adjustable without the use of tools.		N
22.ZE.8	In case of interruption, re-establishment after an interruption or fluctuation in whatever manner of the power supply, the appliance shall not restart, however automatic restarting of the operation is allowed if the appliance may continue to operate, without causing any hazard to the user, from the same point in its operating cycle at which the voltage interruption or fluctuation occurred.		N N
22.ZE.9	Appliances shall be fitted with means to isolate them from all energy sources (e.g. hot water, steam, compressed air). Such isolators must be clearly identified. They shall be capable of being locked if reconnection could endanger persons.	TOTA TOTA	N
3 000	After the energy source is disconnected, it shall be possible to dissipate any energy remaining or stored in the circuits of the appliance without risk to persons.		N

ZF	ANNEX ZE (INFORMATIVE)	Р
THE STATE OF	CRITERIA APPLIED FOR THE ALLOCATION OF PRODUCTS COVERED BY	THE N
	STANDARDS IN THE EN 60335 SERIES UNDER LVD or MD	111111111111111111111111111111111111111

ZG	ANNEX ZG (INFORMATIVE)	N
	UV APPLIANCES	
7	Marking and instructions	N
7.12.ZG	The instructions for appliances incorporating UVC emitters shall include the substance of the following:	N
MILL	WARNING — This appliance contains a UV emitter. Do not stare at the light source	N
32	Radiation, toxicity and similar hazards	N

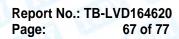


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IEC/EN 60335-1				
Clause	Requirement - Test	Result - Remark	Verdict	
	For appliances incorporating UV emitters the manufacturer's shall deliver a declaration providing evidence that the plastic material exposed to the radiation is UV resistant.	TOP TOP	N	
D W	NOTE: Examples of appliances that may incorporate UVC emitters are range hoods, air cleaners and finger nail hardeners.		N	

ZZ	ANNEX ZZ (INFORMATIVE)	Р
Chi.	COVERAGE OF ESSENTIAL REQUIREMENTS OF EC DIRECTIVES	133

ANNEX	EMF	THE PARTY OF THE P	B W
33 6	The Tested product also complies EN 62233 :2008	to the requirements of	_
- Oill	Limit100%	Measured max. :10.14%	Р



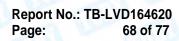


10.1	TABLE: Pow	TABLE: Power input deviation						
Input	deviation of/at:	P rated (W)	P measured (W)	dP	Required dP	Remark		
1777	COLUMN TO SERVICE SERV	- DULL	-07		000	30 M		
	51	7-13	-111	- 1100	0.11			

10.2	TABLE: Curre	P				
Current deviation of/at:		I rated (A)	I measured (A)	dl	Required dl	Remark
25.2Vdc		1 (1)	0.8	-20%	+20%	P
A TOP AND A STATE OF THE PARTY	2	THE WAR	W. 19.	A PHILLIP	A V	

11.8	TABLE: Heating test, thermocouples(charge)				
	Test voltage (V)	The same of the sa	25.2V	_	
33 4	Ambient (°C)		25.0	_	
	Thermocouple locations	dT (K)	Max. dT (K)		
Battery v	vire	4.3	55		
Battery		6.2	35	1330	
PCB nea	ar U2	7.1	105	T	
PCB nea	ar input port	9.8	105	8	
PCB nea	ar U1	7.6	105	Time	
Adapter	enclosure	18.9	65	10	
Plastic e	nclosure	4.6	65		
Metal en	closure	4.3	45	MARK	
Power s	witch	3.7	65	1	

11.8	TABLE: Heating test, thermocouples(discharge)					
	Test voltage (V)		22.2V	_		
Ambient (°C)		The same of the sa	25.0	_		
	Thermocouple locations	dT (K)	Max. dT (K)			
Battery v	vire	6.3	55			
Battery		11.3	35	THE STATE OF THE PARTY OF THE P		
PCB nea	ar U2	9.4	105	BROWN		
PCB nea	ar input port	5.3	105			
PCB near U1		13.5	105	DO.		
Adapter enclosure			65	- 6		





Plastic enclosure	5.7	65
Metal enclosure	4.8	45
Power switch	3.9	65

11.8	11.8 TABLE: Heating test, resistance method						N
	Test voltage (V)	0.00	a Mille		Commercial States		_
	Ambient, t ₁ (°C)						_
AM	Ambient, t ₂ (°C)			a B			_
Temp	Temperature rise of winding		R ₂ (Ω)	Dt (K)	Max. Dt (K)		ulation class
- 6	William - William	-3	A STATE OF THE PARTY OF THE PAR	FIT -	m(1) 2 ±	, 6	The

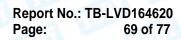
13.2	TABLE: Leakage current				
	Heating appliances: 1.15 x rated input	000		_	
(Table)	Motor-operated and combined appliances: 1.06 x rated voltage	254.4V	II THE	_	
	Leakage current between	I (Ma)	Max. allowe	ed I (Ma)	
Filtra	Between adapter input and metal enclosure	0.02	0.25		

13.3	TABLE: Electric strength		Р
	Test voltage applied between:	Voltage (V)	Breakdown (Yes/No)
1300	Between adapter input and metal enclosure	3000	No

14 TABLE: Transient overvoltages							
	Cleara	ance between:	CI (mm)	Required CI (mm)	Rated impulse voltage (V)	Impulse test voltage (V)	Flashover (Yes/No)
		The same of the sa	-	1		CHI.	1 1000

16.2	TABLE: Leakage current				
a l	Single phase appliances: 1.06 x rated voltage				
	Three phase appliances 1.06 x rated voltage divided by √3:	THE PERSON NAMED IN	- I		
	Leakage current between	I (Ma)	Max. allowed I (Ma)		
200	Between adapter input and plastic enclosure	0.02	0.25		

16.3 TABLE: Electric strength					
	Test voltage applied between:		Voltage (V)	Breakdo (Yes/N	
	Between adapter input and metal enclosure	MILL	3000	No	





17	TABLE: Overload protection, temperature rise	ure rise				
	Temperature rise of part/at:	Dt (K)	Max. Dt (K)			
	Winding of transformer	The same	CHIEF.			

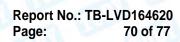
19.7	TABLE: Abnormal o	peration,	locked rotor/mo	oving parts	THE REAL PROPERTY.	N
	Test voltage (V)			1117	- W	
	Ambient, t ₁ (°C)			W 133	- TILLION	_
III	Ambient, t ₂ (°C)	A W		COURS COURS	3- 5	///// —
	Thermocouple locations		T (°C	(3)	Max.	T (°C)
		J BAIN	A AL		Time	ا مر الزا
Te	mperature of winding	R ₁ (Ω)	R ₂ (Ω)	Dt (K)	T (°C)	Max. T (°C)
		W. 37.77	- W		=018	1 - M

19.9	TABLE: Abnormal op	eration, ru	nning overloa	d	District Control	B	N	
33	Test voltage (V)	ALL PROPERTY OF THE PARTY OF TH	20	CONT.	- MODE			
Time	Ambient, t ₁ (°C)		Trans	The same	1		_	
	Ambient, t ₂ (°C)		No.	(1) E	E (1)		_	
Ter	mperature of winding	$R_1(\Omega)$	$R_2(\Omega)$	Dt (K)	T (°C)	Ma	ax. T (°C)	
Frank Comment	(0)			21 F			747	

19.11.2	TABLE: abnorma	al operation and	d fault conditions	10:13 The	P
In .	Test condition:	The state of the s		22.2V	
3	Ambient (°C):	ST THE		25.0°C	
OTT	Test method		THE PARTY OF	COM THE	
No.	Component	Fault	Test time	Result	
	Motor	Stalling	10min	Protected, no hazard, no damage	ge.
	C5	C-S	10min	Protected, no hazard, no dama	ge.
TO S	R5	C-S	10min	Protected, no hazard, no damage	ge.

19.13 TABLE: Abnormal operation	n, temperature rises	N
Thermocouple locations	Dt (K)	Max. Dt (K)
*Comment: motor-operated appliance the	se temperature rised are not deter	rmined

24.1	TAB	LE: Components	Miles	THE TOTAL PROPERTY.		33	Р
Object / par	t No.	Manufacturer/ trademark	Type / model	Technical data	Standard		lark(s) of onformity





(various)	(various)	22AWG, 105°C 600V	UL758	UL	
(various)	18650	22.2V, 2400mAh	IEC/EN 62133	Test in appliance	
ShenZhen Rongweixin Technology Co., Ltd	R241- 2521000U	Input:AC100-240V 50/60Hz 0.8A Output:DC25.2V, 1A		CE	
(various)	(various)	130°C, 94V-0	UL796	UL	
(various)	(various)	94HB, 85°C	UL94	UL	
(various)	5820	24VDC	EN60335-1	Test in appliance	
	(various) ShenZhen Rongweixin Technology Co., Ltd (various) (various)	(various) 18650 ShenZhen Rongweixin Technology Co., Ltd (various) (various) (various) (various)	(various) 18650 22.2V, 2400mAh ShenZhen Rongweixin Technology Co., Ltd R241- 2521000U Input:AC100-240V 50/60Hz 0.8A Output:DC25.2V, 1A (various) (various) 130°C, 94V-0 (various) (various) 94HB, 85°C	(various) 18650 22.2V, 2400mAh IEC/EN 62133 ShenZhen Rongweixin Technology Co., Ltd R241- 2521000U Input:AC100-240V 50/60Hz 0.8A Output:DC25.2V, 1A (various) (various) 130°C, 94V-0 UL796 (various) (various) 94HB, 85°C UL94	

28.1 TABLE: Thread	led part torque test	THE PARTY OF THE P	N
Threaded part identification	Diameter of thread (mm)	Column number (I, II, or III)	Applied torque (Nm)
William Control		The Course	

.2 TABLE Working voltage		3		, basic, su eepage dis		, .					N
(V)				(mm)							
			F	Pollution de	gree						1
	1		2			3		Туре	of insu	ılation	
		M	aterial g	roup	М	aterial g	roup				
		I	II	IIIa/IIIb	I	П	IIIa/IIIb	B* ⁾	S*)	R*)	Verdic
>50	0,2	0,6	0,9	1,2	1,5	1,7	1,9				OTT
>50	0,2	0,6	0,9	1,2	1,5	1,7	1,9		- (5)		
>50	0,4	1,2	1,8	2,4	3,0	3,4	3,8	—	_		41117
>50 and ≤125	0,3	0,8	1,1	1,5	1,9	2,1	2,4		_	_	
>50 and ≤125	0,3	0,8	1,1	1,5	1,9	2,1	2,4	_	1000	_	1111
>50 and ≤125	0,6	1,6	2,2	3,0	3,8	4,2	4,8	_		1	6
>125 and ≤250	0,6	1,3	1,8	2,5	3,2	3,6	4,0	7-1	_	_	81 1
>125 and ≤250	0,6	1,3	1,8	2,5	3,2	3,6	4,0	_		_	
>125 and ≤250	1,2	2,6	3,6	5,0	6,4	7,2	8,0	_		_	1/2
>250 and ≤400	1,0	2,0	2,8	4,0	5,0	5,6	6,3				
>250 and ≤400	1,0	2,0	2,8	4,0	5,0	5,6	6,3				CHIT.
>250 and ≤400	2,0	4,0	5,6	8,0	10,0	11,2	12,6	_			
>400 and ≤500	1,3	2,5	3,6	5,0	6,3	7,1	8,0	TO !		_	1100
>400 and ≤500	1,3	2,5	3,6	5,0	6,3	7,1	8,0	_		_	



	MATTER		3 F3		030		11110		W	A STATE OF THE PARTY OF THE PAR	
>400 and ≤500	2,6	5,0	7,2	10,0	12,6	14,2	16,0			a 1	Milan
>500 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0				1
>500 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0			_	1223
>500 and ≤800	3,6	6,4	9,0	12,6	16,0	18,0	20,0				= 10
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5			—	33
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5				mul!
>800 and ≤1000	4,8	8,0	11,2	16,0	20,0	22,0	25,0	_	_		
>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0			—	Time
>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0	—			677
>1000 and ≤1250	6,4	10,0	14,2	20,0	25,0	28,0	32,0	_	—		The same
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	1777	_	—	
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	_	100		a 1
>1250 and ≤1600	8,4	12,6	18,0	25,0	32,0	36,0	40,0	_		(1/17)	33
>1600 and ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0	a		_	(III)
>1600 and ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0	_		_	3
>1600 and ≤2000	11,2	16,0	22,0	32,0	40,0	44,0	50,0	_	_		ant
>2000 and ≤2500	7,5	10,0	14,0	20,0	25, 0	28,0	32,0	600		_	-
>2000 and ≤2500	7,5	10,0	14,0	20,0	25, 0	28,0	32,0	_	1/3	_	and the
>2000 and ≤2500	15,0	20,0	28,0	40,0	50,0	56,0	64,0	_		3-1	×,
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0	0		_	(A)
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0	_		_	
>2500 and ≤3200	20,0	25,0	36,0	50,0	64,0	72,0	80,0	_			3 W
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	3	_	_	9
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	_	33	_	Un.
>3200 and ≤4000	25,0	32,0	44,0	64,0	80,0	90,0	100,0	_		11.30	
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0				TO SE
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0		1		
>4000 and ≤5000	32,0	40,0	56,0	80,0	100,0	112,0	126,0	_			17.17
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0	1,000			
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0	_			a v
>5000 and ≤6300	40,0	50,0	72,0	100,0	126,0	142,0	160,0	_	_	PRINT	
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	611	_		100
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	_	7 6	_	
>6300 and ≤8000	50,0	64,0	90,0	126,0	160,0	180,0	200,0	_	_		CALLES .
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	Variety of the same	_		
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	_		_	NE
>8000 and ≤10000	64,0	80,0	112,0	160,0	200,0	220,0	250,0	_		3	
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0		_		110

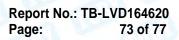
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>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	_		Millian
>10000 and ≤12500	80,0	100,0	142,0	200,0	250,0	280,0	320,0		 23	- P
		*), B=B	asic, S=	Suppleme	entary ar	nd R=Re	inforced	133		1.5

				eepage di (mm) ollution de					
Working voltage (V)									
	1		2			3			
		Ma	aterial g	roup	М	aterial g	roup		
		I	II	IIIa/IIIb	I	П	IIIa/IIIb	Verdict / Rema	rk
>50	0,2	0,6	0,8	1,1	1,4	1,6	1,8	The same	
>50 and ≤125	0,3	0,7	1,0	1,4	1,8	2,0	2,2	The state of the s	K
>125 and ≤250	0,4	1,0	1,4	2,0	2,5	2,8	3,2	Marie A	
>250 and ≤400	0,8	1,6	2,2	3,2	4,0	4,5	5,0		1
>400 and ≤500	1,0	2,0	2,8	4,0	5,0	5,6	6,3	THE PARTY BUILDING	
>500 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	COURS -	n.
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5	D TOWN	2
>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0		Vi.
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	COLUMN TO SERVICE STATE OF THE PARTY OF THE	
>1600 and ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0	THE STATE OF	M
>2000 and ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0	1000	4
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0	THE PARTY OF	
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0		
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	The same	
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0	The same	
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	ALIDE TO	
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	The Court	
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0		

Table 19:	Minimum thickness of single layers used for accessible reinforced insulation (mm)					
Rated Voltage V	Overvoltage category I	Overvoltage category II	Overvoltage category III	Verdict		
< 50	0,01	0,04	0,1	N		
50 ≤ 150	0,1	0,3	0,6	N		
150 ≤ 300	0,3	0,6	1,2	N		





30.1	TABLE: Ball pressure				
	Part	Test temperature (°C)	Impression diameter (mm)	Allowed impression diameter (mm)	
1733	COU. D.	The state of the s		U.S.	THE STATE OF THE S

30.2	TABLE: Glow-wire tests				
Part		Test temperature (°C)	Observation	Res	ult
6	THE STATE OF	The state of the s	The same	2	Miller





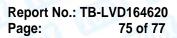
Photo documentation

Photo 1 View of EUT



Photo 2 View of EUT

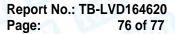




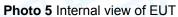
























--End of Report--