

LVD TEST REPORT

For

Soma Medical (Sabah) Sdn Bhd (1248058-D)

UVGI AIR STERILIZER

Model No.: SM 20

Prepared For

: Soma Medical (Sabah) Sdn Bhd (1248058-D)

: Block E, Lot 28, 2nd floor, Signature Office, KK Times Square, Off Coastal Highway, 88400 Kota Kinabalu Sabah, Malaysia

Prepared By

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Report Number Date of Test Date of Report PRSZ17120402S December 04, 2017 - December 12, 2017 December 12, 2017



a fail prover for	TEST REPORT
	EN 60335-2-65
Safety of househ	old and similar electrical appliances
10 10 19 19 10 10	quirements for air-cleaning applicances
Report Number	PRSZ17120402S
Compiled by (name + signature):	Cathy Zhang (orchy Zhan Approved)
Approved by (name + signature):	Sunny Ge
Date of issue	December 11, 2017
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Testing Laboratory	Shenzhen PTSI Testing Co., Ltd.
Address:	2/F, Building C, Hongwan Commercial Center, Bao'an Road, Xixiang, Baoan, Shenzhen, China
Testing location / address:	Same as above
Applicant's name:	Soma Medical (Sabah) Sdn Bhd (1248058-D)
Address:	Block E, Lot 28, 2nd floor, Signature Office, KK Times Square, Off Coastal Highway, 88400 Kota Kinabalu Sabah, Malaysia
Manufacturer's name	SOMA MEDICAL SDN BHD (671166-M)
Address	102, Lorong Maarof, Bangsar. 59000. Kuala Lumpur. MALAYSIA.
Test specification:	
Standard:	EN60335-1:2012+A11:2014
	EN60335-2-65:2003 + A1:2008+A11:2012
	EN62233:2008
Test procedure:	PTSI
Non-standard test method	N/A
Test Report Form No	IECEN60335
Test Report Form(s) Originator:	Intertek Semko AB
Master TRF	Dated 2013-10
Test item description:	UVGI AIR STERILIZER
Trade Mark:	SOMA MEDICAL
Model/Type reference:	SM 20
Ratings	220-240V~, 50Hz, 960W



Summary of testing:

Tests performed (name of test and test clause):

The product has been tested according to standard EN60335-1:2012+A11:2014

- Tests performed on the bench
- Maximum ambient temperature: <u>+25°C</u>
- Tested for moderate conditions
- EUT is designed for altitudes not exceeding 2000 m.

This test report includes: Annex 1: Photos.

Summary of compliance with National Differences Compliance with the National requirements of CENELEC common modification.

Copy of marking plates:

UVGI AIR STERILIZER

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Model No.: SM 20 Voltage: 220-240V~,50Hz Power rating: 960W

Distributed and Manufactured by Soma Medical (Sabah) Sdn Bhd

Remark:

The above label is draft of the artwork for marking plate pending approval by National Certification Bodies and they shall not be affixed to products prior to such approvals.



Test item particulars:	i of all all of all all all
Classification of installation and use:	Class I
Supply connection	Directly connected to the mains by plug
Possible test case verdicts:	atel present present present present
- test case does not apply to the test object:	N/A (Not Applicable)
- test object does meet the requirement:	Pass (P)
- test object does not meet the requirement:	Fail (F)
Mass	Approximately 35kg
Testing:	e de la contra de la
Date of receipt of test items:	December 04, 2017
Date(s) of performance of tests	December 04, 2017 - December 11, 2017

General remarks:

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory. "(see Enclosure #)" refers to additional information appended to the report.

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

Throughout this report, a point (coma) is used as the decimal separator.

List of test equipment must be kept on file and available for review.

General product information:

UVGI AIR STERILIZER, powered by mains. For indoor use only.

Model difference:



Clause	Requirement + Test	Result - Remark	Verdict
010	1 (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	101 101 10 10 10	19
5	GENERAL CONDITIONS FOR THE TESTS	ater pland	SP
PTSI	Tests performed according to cl. 5, e.g. nature of supply, sequence of testing, etc.	st protest pres	P
5.2	If the test of Annex D has to be carried out, an additional appliance may be used.	Annex D not to be carried out	N/A
5.3	The tests of Clause 14 and 21.2 and 22.24 are carried out after the tests of Clause 29.	eter preserve	Р
PTS1	The test of 19.14 is carried out before the tests of 19.11.	rel Profes presentes	N/A
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.	al atel atel atel atel	N/A
5.101 (-2- 65)	Appliances are tested as motor-operated appliances.	pts of pts pts pt	P
6	CLASSIFICATION		P
6.1	Protection agains electric shock: Class 0, 0I, I, II, III	Class I	P
6.2	Protection against harmful ingress of water	IP20	N/A
7	MARKING AND INSTRUCTIONS		Р
7.1	Rated voltage or voltage range (V)	220-240V~	Р
etel et	The marking of rated voltage or rated voltage range, for appliances intended to be connected to the supply mains, shall cover:	al prological pro-	erel P
151 P	Single-phase appliances to be connected to the supply mains: 230 V covered	230V covered	P
PTS	Multi-phase appliances to be connected to the supply mains: 400 V covered	ter preserver pres	N/A
13/10/1	Nature of supply:	AC symbol used ~	P
eter.	Rated frequency (Hz)	50Hz	P
1 64	Rated power input (W)	960W	P (
P10'	Rated current (A)	st pland protei	N/A
51 PT	Manufacturer's or responsible vendor's name, trademark or identification mark	See the label for details	P
26)	Model or type reference	See the label for details	Р
612	Symbol 5172 of IEC 60417, for Class II appliances	ate i at at	N/A
19 -1 8	symbol 5180 of IEC 60417, for class III appliances	913 at 9 at 51	N/A
e ete	-this marking is not necessary for appliances that are operated only by batteries	No batteries uesd	N/A
			A State of the second s



Clause	Requirement + Test	Clause Reguirement + Test Result - Remark		
-14400			Verdict	
51 8	IP number, other than IPX0	IP20	N/A	
(a) prai	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.	et a pres pres pres	N/A	
7.2	Warning for stationary appliances for multiple supply	Only one ac mains supply	N/A	
19	Warning placed in vicinity of terminal cover	1 915' P' 15'	N/A	
7.3	Range of rated values marked with the lower and upper limits separated by a hyphen	president president president	P	
ets'	Different rated values marked with the values separated by an oblique stroke	a) prestal prest	N/A	
7.4	Appliances adjustable for different rated voltages, the voltage setting is clearly discernible	No such voltage adjustable device	N/A	
PTS) PTS	Requirement met if frequent changes are not required and the rated voltage or rated frequency to which the appliance is to be adjusted is determined from a wiring diagram	etal etal etal etal	N/A	
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	rel prete pret	Р	
(15) al	the power input is related to the mean value of the rated voltage range	P151 81 9151	Р	
19 1	Relation between marking for upper and lower limits of rated power input or rated current and voltage is clear	212 (1) (1) (1) (1) (1)	N/A	
7.6	Correct symbols used	1 ore pres	P	
1 919	[symbol IEC 60417-5021 (DB:2002-10)] equipotentiality	\checkmark	N/A	
etel .	[symbol IEC 60417-5036 (DB:2002-10)] dangerous voltage	4 2000 0000	N/A	
7.7	Connection diagram fixed to appliances to be connected to more than two supply conductors and appliances for multiple supply	prel prel prel pr	N/A	
	Correct mode of connection is obvious	10' 10' ch 10'	N/A	
7.8	Except for type Z attachment, terminals for connection t as follows:	o the supply mains indicated	P	
PIST	- marking of terminals exclusively for the neutral conductor (N)	pret at pret pret	N/A	
PIEL	- marking of protective earthing terminals (symbol 5019 of IEC 60417)	st Prest er prest	P	
51 8	- marking of functional earthing terminals (symbol 5018 of IEC 60417)	PTSI PTSI PTSI PT	N/A	
81	- marking not placed on removable parts	5' PLAST PTS'	Р	
7.9	Marking or placing of switches which may cause a hazard	No hazard	Р	



Clause	Clause Requirement + Test Result - Remark			
01000			Verdict	
7.10	Indications of switches on stationary appliances and controls on all appliances by use of figures, letters or other visual means	Indicated by figures 0 and 1	del P	
(6)	This applies also to switches which are part of a control	eta eta pres eta	N/A	
P) PIS	If figures are used, the off position indicated by the figure 0	ener preserves pres	P	
Pla Isl	The figure 0 indicates only OFF position, unless no confusion with the OFF position	Figure 0 indicates OFF position	P	
7.11	Indication for direction of adjustment of controls	No such contols	N/A	
7.12	Instructions for safe use provided	a places ales	P	
51 6	Details concerning precautions during user maintenance	profession of the states of	P	
8 2(5)	The instructions state that:	e, 6, 42, 64er	Р	
ral praint	-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. T. P. S. S.	
19 10	-children being supervised not to play with the appliance	Statement included.	P	
pla prei	-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.	pts) pts, bts, bts, bts,	N/A	
tal ptal	- 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.	PTSI PTSI PTSI PTSI PTSI PTSI PTSI PTSI	N/A	
Plants	For appliances for altitudes exceeding 2000m, the maximum altitude is stated	atsi prei prei prei	N/A	
PIEI	The instructions for appliances incorporating a functional earth states that the appliance incorporates an earth connection for functional purposes only	at at a start at at a start at at	N/A	
(-2-65)	Instructions for safe use provided including details for cleaning and other user maintenance of the appliance	al prest prest at	P	
7.12.1	Sufficient details for installation supplied	ats pts pts	P	
(5) etsi	For an appliance intended to be permanently connected to the water mains and not connected by a hose-set,this is stated	tel pres el pres	N/A	



Clause	EN 60335-1 & EN60335-2-65 Requirement + Test Res	ult - Remark Ve	Verdict
Clause	Requirement + Test Res	suit - Remark ve	eraict
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	need to installation	N/A
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	etel etel etel etel	N/A
7.12.4	Instructions for built-in appliances:	1 (1) (A) (A)	N/A
125	- dimensions of space	Part of the las	N/A
1970	- dimensions and position of supporting means	1 ats) 910 at 1	N/A
51 8	- distances between parts and surrounding structure	ter blan biller	N/A
ets)	- dimensions of ventilation openings and arrangement	pts pt at	N/A
(5) F(5)	- connection to supply mains and interconnection of separate components	official profiles	N/A
ets)	- plug accessible after installation, unless	1 PTS1 PTS1	N/A
1 25	a switch complying with 24.3	el placel right	N/A
ats pts	- Necessity to allow disconnection of the appliance from the supply after installation, unless the appliance incorporates a switch complying with 24.3.	proved of proved of	N/A
	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.	prist prist prist p	N/A
7.12.5	Replacement cord instructions, type X attachment with a specially prepared cord	per provide pr	N/A
otel	Replacement cord instructions, type Y attachment	at pts' pts st	Ρ
51	Replacement cord instructions, type Z attachment	ats prover at	N/A
7.12.6	The instructions for heating appliances incorporating a non-s out that is reset by disconnection of the supply mains shall co the following:		N/A
PTSI PTSI	CAUTION: In order to avoid a hazard due to inadvertent resetting of the thermal cutout,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.	PIST PIST PIST PIST	N/A
7.12.7	The instructions for fixed appliances shall state how Not the appliance is to be fixed to its support.	fixed appliances	N/A
7.12.8	The instructions for appliances connected to the water mains	shall state	N/A
(2)	- the maximum inlet water pressure, in pascals	offer of start	N/A
613.	- the minimum inlet water pressure, in pascals, if this is necessary for the correct operation of the appliance.	st pro tel pro el	N/A



Clause	EN 60335-1 & EN60335-2-0 Requirement + Test	Result - Remark	Verdict
Clause	Requirement + Test	Result - Remark	verdict
etsi etsi	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.	el prel prel prel	N/A
7.13	Instructions and other texts in an official language	In English and/or local language	P
7.14	Marking clearly legible and durable	15s with water, 15s with petroleum spirit, legible no curling, not easily removed.	S P P
PTSI PT	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.	presidente	(5) P
	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.	er etel etel etel et	ers' P
7.15	Marking on a main part	Pts' P 51 Pt	Р
e151	Marking clearly discernible from the outside, if necessary after removal of a cover	Marking on outside	P
der bi	For portable appliances, cover can be removed or opened without a tool	No cover can be removed by hand	9 P
1 PTO	For stationary appliances, name, trademark or identification mark and model or type reference visible after installation	otal protect praticity	N/A
s' pre'	For fixed appliances, name, trademark or identification mark and model or type reference visible after installation according to the instructions	ptal ptal ptal pta	N/A
ets ets	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	etel etel etel pret	N/A
P PT	The symbol IEC60417-5018 placed next to the symbol IEC60417-5172 or IEC60417-5180	ter prei prei prei	N/A
7.16	Marking of a possible replaceable thermal link or fuse link clearly visible with regard to replacing the link	a provide the	P
8	PROTECTION AGAINST ACCESS TO LIVE PARTS	Pla al Platal	Р
8.1	Adequate protection against accidental contact with live parts	ors prest prest	P
8.1.1	Requirement applies for all positions, detachable parts removed	51 ptst ptst	Р
(a) (b)	Lamps behind adetachable covernotre moved, if conditions met	pts pts pts pts pt	N/A
e13	Insertion or removal of lamps, protection against contact with live parts of the lamp cap	tel plater prot	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
P10	87 451 6757 87 451 6757 8	(6) (P) (0)	19 10
st e	Use of test probe B of IEC 61032: no contact with live parts	No contact with live parts	P Ko
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	No contact with live part.	P P
Pla Pla	Test probe 13 also applied through openings in earthed metal enclosures having a non-conductive coating: no contact with live parts	est phanest pres	N/A
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	ptel ptel ptel pt	N/A
8.1.4	Accessible part not considered live if:	al plants ater	N/A
51 0	- safety extra-low a.c. voltage: peak value not exceeding 42.4 V	profer profer pr	N/A
P12 (5)	- safety extra-low d.c. voltage: not exceeding 42.4 V	51 P12 251 Pts1	N/A
and they	- or separated from live parts by protective impedance	pta st ots p	N/A
eter	If protective impedance: d.c. current not exceeding 2 mA, and	(5) Proto proto	N/A
ast To	a.c. peak value not exceeding 0.7 mA	P12 151 1 151	N/A
PISI	- for peak values over 42.4 V up to and including 450 V, capacitance not exceeding 0,1 μF	oral prate prate	N/A
PIEL	- for peak values over 450 V up to and including 15 kV, discharge not exceeding 45 μF	al proteit of prot	N/A
3 9 9	-for peak values over 15 kV, the energy in the discharge not exceeding 350 mJ	pts) pt pt pt pt	N/A
(-2-65)	- for peak values over 15 kV, discharge not exceeding 350 mJ	st protect prot	N/A
PIEI	The quantity of electricity in the discharge is measured using a resistor having a nominal non-inductive resistance of 2 000 Ω	tel ptel ptel ptel	N/A
8.1.5	Live parts protected at least by basic insulation before in	nstallation or assembly:	N/A
1075 ¹	- built-in appliances	al 15' PP	N/A
1	- fixed appliances	e der bes bi	N/A
pts)	- appliances delivered in separate units	at pts pt pt as	N/A
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	Class I construction.	P
(5)	Only possible to touch parts separated from live parts by double or reinforced insulation	provide provide p	Р
Plant	Compliance is checked by inspection and by applying test probe B of IEC 61032 in accordance with the conditions specified in 8.1.1.	(5) PTP PTP 1 PTP	Р



Clause	Requirement + Test	Result - Remark	Verdict
P42	the start of the start of the	tel plant in	5 19
51 8	Test probe B of IEC 61032 is applied to built-in appliances and fixed appliances only after installation.	PISTSI PIPTSI	N/A
9	STARTING OF MOTOR-OPERATED APPLIANCES	olar blanch b	N/A
6161 J	Requirements and tests are specified in part 2 when necessary	si prei prei prei	N/A
10	POWER INPUT AND CURRENT	ers al 6151	Р
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)	P.(*
PTS' ASI	Test for an appliance with one or more rated voltage ranges	at present of the	Р
10.2	Current at normal operating temperature, rated voltage and normal operation not deviating from rated current by more than shown in table 2	si prei prei prei	N/A
tel pres	If the power input varies through out the operating cycle and the maximum value of the power input exceeds, by afact or greater than two, the arithmetic mean value of the power input occurring during are presentative period, the power input is the maximum value that is exceeded for more than 10% of the representative period	ers erst protection erst	N/A
1 4	Otherwise the power input is the arithmetic mean value	en tel blen en	N/A
	Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless	pts) pts) pts) pts)	N/A
eret	The rated power input is related to the arithmetic mean value	al profession profes	N/A
(51 P)	Test for an appliance with one or more rated voltage ranges	PTSI PTSI P	N/A
11	HEATING	ter a star to	P
11.1	No excessive temperatures in normal use	1 " AS' 1 15 A	Р
11.2	Placing and mounting of appliance as described	Placing on a floor	Р
11.3	Temperature rises, other than of windings, determined by thermocouples	By thermocouples	P
51 p15	Temperature rises of windings determined by resistance method, unless	PISI PISI PISI PI	P
P(2)	the windings makes it difficult to make the necessary connections	st pret pret	Р
11.4	Heating appliances operated under normal operation at 1.15 times rated power input	PTP of PTP of St	N/A
11.5	Motor-operated appliances operated under normal operation at most unfavourable voltage between 0.94 and 1.06 times rated voltage	1.06 times rated voltage	Р



0	EN 60335-1 & EN60335-2-65			
Clause	Requirement + Test	Result - Remark	Verdict	
11.6	Combined appliances operated under normal operation at most unfavourable voltage between 0.94 and 1.06 times rated voltage	st ptst ptst ptst	N/A	
11.7 (-2- 65)	Appliances are operated until steady conditions are established.	pres pres	P	
11.8	Temperature rises not exceeding values in table 3	(5) 1 (5) p	Р	
ial's	If the temperature rise of a motor winding exceeds the value of table 3, or	Protect protection	N/A	
1 8	If there is doubt with regard to classification of insulation,	rie (rie) e	N/A	
12. 41	Tests of Annex C are carried out	1 proved ater	N/A	
1 8	Sealing compound does not flow out	210° 21 0° 25' 1	N/A	
151	Protective devices do not operate	1 P1 (5' P15'	Р	
(a) (a)	However, 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.	prel prel prel pl	N/A	
RTP PTP	The temperature rise limit does not apply to switches or controls tested in accordance with the conditions occurring in the appliance.	(a) proved provide all	N/A	
619	Sealing compound does not flow out	151 Pts 1 PTS	P	
13	LEAKAGE CURRENT AND ELECTRIC STRENGTH AT OPERATING TEMPERATURE		P	
13.1	Leakage current not excessive and electric strength adequate	Pres Press	P	
Pro pts	Heating appliances operated at 1.15 times rated power input	st pro pro pre	N/A	
(S) (S)	Motor-operated appliances and combined appliances supplied at 1.06 times rated voltage	1.06 X240V=254.4V	P	
tol pt	Protective impedance and radio interference filters disconnected before carrying out the tests	pre- pre- pre- pr	P	
13.2	Leakage current measured by means of the circuit described in figure 4 of IEC 60990	Single-phase	(S) P(S)	
ptst st	For class 0I and classI appliances, a low impedance ammeter may be used	st ptst st ptst	P	
1 81	Leakage current measurements	(see appended table)	Р	
13.3	Electric strength tests according to table 4	(see appended table)	P	
(a) (1)	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.	PTSI PTSI PTSI PT	Р	



Clause Requirement + Test Result - Remark			
Clause	Requirement + Test	Result - Remark	Verdict
etst etst	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.	Is: 200mA	P
PLE PLE	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.	Ir: 100mA	
10,151	No breakdown during the tests	No breakdown	Р
14	TRANSIENT OVERVOLTAGES	12 (2) 1270	N/A
PTS	Appliances withstand the transient overvoltages to which they may be subjected	al provide pr	N/A
ers' e	Clearances having a value less than specified in table 16 subjected to an impulse voltage test, the test voltage specified in table 6	st pretty pretty	N/A
(p) (No flashover during the test, unless of functional insulation	PTS PTS PTS	N/A
PTP PTP	In case of flashover of functional insulation, the appliance complies with clause 19 with the clearance short circuited	(a) pray pray	N/A
15	MOISTURE RESISTANCE	ALD' PTO AL T'	P
15.1	Enclosure provides the degree of moisture protection according to classification of the appliance	IP20	P
	Compliance checked as specified in 15.1.1, taking into account 15.1.2, followed by the electric strength test of 16.3	PTSI PTSI PTSI PTSI	N/A
tel ptel	No trace of water on insulation which can result in a reduction of clearances and creepage distances below values specified in clause 29	Ptel ptel ptel p	N/A
15.1.1	Appliances, other than IPX0, subjected to tests as specified in IEC 60529:	ter black	N/A
net pret	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.	ITSI PISI PISI PISI	N/A
15.1.2	Hand-held appliance turned continuously through the most unfavourable positions during the test	otsi provid pr	N/A
5 (3)	Built-in appliances installed according to the instructions	st proto prot	N/A
(a) pra	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.	PTSI PTSI PTSI PTSI	N/A



Clause	Requirement + Test	Result - Remark	Verdict
Clause		rtoout rtomark	Voraio
st p	Appliances placed or used on the floor or table placed on a horizontal unperforated support	play all blay a	N/A
(e) pter	Appliances normally fixed to a wall and appliances with pins for insertion into socket-outlets are mounted on a wooden board	ofer pret pret pr	N/A
er property	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.	es protection protecti	N/A
al ptal	For IPX3 appliances, the base of wall mounted appliances is placed at the same level as the pivot axis of the oscillating tube	ener erel erel ere	N/A
619, 619) 619, 619)	For IPX4 appliances, the horizontal centre line of the appliance is aligned with the pivot axis of the oscillating tube	et protet prot	N/A
ers) ers	For IPX4 appliances, the movement of the tube is limited to two times 90° from the vertical for a period of 5 min.	(a) prai prai pra	N/A
no prol	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	ptst ptst ptst ptst	N/A
P. pter	Wall-mounted appliances, take into account the distance to the floor stated in the instructions	ptel ptel ptel	N/A
etel .	Appliances with type X attachment fitted with a flexible cord as described	al profest profest	N/A
612	Detachable parts tested as specified	ater prover	N/A
PIEI	However, if a part has to be removed for user maintenance and a tool is needed, this part is not removed	rel protet pret	N/A
15.2	Spillage of liquid does not affect the electrical insulation	t prot protect	N/A
1 12	Spillage solution comprising water containing approximately 1% NaCl and 0,6% rinsing agent	aley aley aley a	N/A
PIS	Appliances with type X attachment fitted with a flexible cord as described	erst prest prest	N/A
Projets	Appliances incorporating an appliance inlet tested with or without an connector, whichever is most unfavourable	SI PTSI PTSI PTSI	N/A
6	Detachable parts removed	151 Pt2 1	N/A
615'	Overfilling test with additional amount of water, over a period of 1 min (I)	(a) (p(a) (a) (b)	N/A



Clause	Requirement + Test	Result - Remark	Verdict
610	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(a) (19) (P)	19 10
51 87	The appliance withstands the electric strength test of 16.3	PIST PIST	N/A
	No trace of water on insulation that can result in a reduction of clearances and creepage distances below values specified in clause 29	etal prat etal	N/A
15.3	Appliances proof against humid conditions	(2) 1 PT (2) 019	Р
10/10	Checked by test Cab: Damp heat steady state in IEC 60068-2-78	PIP Hal PIPIPI	P
1 Pla	Detachable parts removed and subjected, if necessary, to the humidity test with the main part	profess of profess of	N/A
ers' al	Humidity test for 48 h in a humidity cabinet	93%, 25°C, 48h	Р
2 6 6	Reassembly of those parts that may have been removed	predict predict of	P
e15)	The appliance withstands the tests of clause 16	st pro lo re	P
16	LEAKAGE CURRENT AND ELECTRIC STRENGTH	Pto at proto	Р
16.1	Leakage current not excessive and electric strength adequate	(5) Profiles Profile	P
ret al	Protective impedance disconnected from live parts before carrying out the tests	Protect protect	P
1 Prof	Tests carried out at room temperature and not connected to the supply	pts' pts pts pts	P
16.2	Single-phase appliances: test voltage 1.06 times rated voltage	1.06 X 240V=254.4V	P
5 55	Three-phase appliances: test voltage 1.06 times rated voltage divided by $\sqrt{3}$	al product product	N/A
615	Leakage current measurements	(see appended table)	P
(a) 1	Limit values doubled if:	ets protest	N/A
and the	-all controls have an off position in all poles, or	ter prover of	N/A
(P)	-the appliance has no control other than a thermal cut- out,or	PTS' PTS' TS	N/A
N Pro	-all thermostats, temperature limiters and energy regulators do not have an off position, or	stal product of	N/A
815) -1	-the appliance has radio interference filters	al ptal pros	N/A
51 810	With the radio interference filters disconnected, the leakage current donot exceed limits specified:	pts pts pts of	N/A
16.3	Electric strength tests according to table 7	(See appended table)	P
(5) (5) -51	Test voltage applied between the supply cord and inlet bushing and cord guard and cord anchorage as specified	pts pts pts pts	N/A
8 18	No breakdown during the tests	No breakdown	Р



Clause	Requirement + Test	Result - Remark	Verdict
610,	19 (at 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,	ast plan for as	2
16.101 (-2- 65)	High-voltage transformers must have adequate internal insulation. The duration of the test is sec.	No hazard	SIS P
17	OVERLOAD PROTECTION OF TRANSFORMERS AND	O ASSOCIATED CIRCUITS	Р
	No excessive temperatures in transformer or associated circuits in event of short-circuits likely to occur in normal use	et pret pret pret	P
tel ptel p	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:	151 PT51 PT51 PT51	P
PTSI PTSI	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	tel prel prel a	P
51 01	Temperature of the winding not exceeding the value specified in table 8	a prestal prestal	P
a) 915)	however limits do not apply to fail-safe transformers complying with sub-clause 15.5 of IEC 61558-1	ptsi ptsi ptsi pt	N/A
18	ENDURANCE	(5) PTS' at PTS (5)	N/A
151 8	Requirements and tests are specified in part 2 when necessary	Ptal Pteral P	N/A
19	ABNORMAL OPERATION		Р
19.1	The risk of fire or mechanical damage under abnormal or careless operation obviated	Protein prei	P
51 P1	Electronic circuits so designed and applied that a fault will not render the appliance unsafe	pts) pts) pts pts	P
Pro ptsi	Appliances incorporating heating elements subjected to the tests of 19.2 and 19.3, and	atal protein prot	N/A
PIE TEI	If the appliance also has a control that limit the temperature during clause 11 it is subjected to the test of 19.4, and	(s) pts) pts) pts)	N/A
10	If applicable, to the test of 19.5	81 51 KE 1	N/A
PTSI	Appliances incorporating PTC heating elements are also subjected to the test of 19.6	Ist proto proprio	N/A
PIST	Appliances incorporating motors subjected to the tests of 19.7 to 19.10, as applicable	I Prist of prist	N/A
51 . 1	Appliances incorporating electronic circuits subjected to the tests of 19.11 and 19.12, as applicable	pts pts pts pts	P
PT- PT-51	Appliances incorporating contactors or relays subjected to the test of 19.14, being carried out before the tests of 19.11	ptst ptst ptst ptst	P
o151	Appliances incorporating voltages elector switches subjected to the test of 19.15	(a) prat prati	N/A



Clause	Requirement + Test	Result - Remark	Verdict
Pla,	the start sector start sector a	ex and the less	18
	Unless otherwise specified, the tests are continued until an on-self-resetting thermal cut-out operates, or	pist pist pist	N/A
ets	Until steady conditions are established	ast pist pla	P
(e) (e)	If a heating element or intentionally weak part becomes open-circuited, the relevant test is repeated on a second sample	(a) prai prai prai	N/A
19.2	Test of appliance with heating elements with restricted heat dissipation; test voltage (V): power input of 0.85 times rated power input:	of proto proto	N/A
19.3	Test of 19.2 repeated; test voltage (V): power input of 1.24 times rated power input:	PETER PROVIDE	N/A
19.4	Test conditions as in cl. 11, any control limiting the temperature during tests of cl. 11 short-circuited	2131 21 215 1 215 PT	N/A
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	et et eter eter eter	N/A
815)	The test repeated with reversed polarity and the other end of the heating element connected to the sheath	(a) Real and Prai	N/A
PTSI PTSI	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	oral prate prate	N/A
19.6	Appliances with PTC heating elements tested at rated voltage, establishing steady conditions	al present present	N/A
al pral pral	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	PIC PISI PISI PISI PISI PISI PISI PISI P	N/A
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	ter pret pret pret	N/A
to M	Locking moving parts of other appliances	Pro al rate	N/A
1 2 1	Locked rotor, motor capacitors open-circuited or short- circuited, if required	No capacitors in the circuit of an auxiliary winding	N/A
P10' 51	Locked rotor, capacitors open-circuited one at a time	of proved paral	N/A
51 9	Test repeated with capacitors short-circuited one at a time, if required	eres even en	N/A
8(9) el	The capacitor is of class P2 of IEC 60252-1	51 pto stat	N/A
(5) E	Appliances with timer or programmer supplied with rated voltage for each of the tests, for a period equal to the maximum period allowed	PTS PTS PTS PTS PTS	N/A



Clause	Requirement + Test	Result - Remark	Verdict
010	19 1010 105 19 10 105 19	10 10 10	19 10
PTSI PTSI	An electronic timer or programmer that operates to ensure compliance with the test before the maximum period under the conditions of Clause 11 is reached, is a protective electronic circuit	st pret pret pret	N/A
e let	Other appliances supplied with rated voltage for a period as specified	at prai prai	N/A
191 9/2	Winding temperatures not exceeding values specified in table 8	(see appended table)	N/A
19.8	Three-phase motors operated at rated voltage with one phase disconnected	rel great pro	N/A
19.9	Running overload test on appliances incorporating motors intended to be remotely or automatically controlled or liable to be operated continuously	atel pret pret pret	N/A
2151 8	Winding temperatures not exceeding values as specified	al projet projection	N/A
19.10	Series motor operated at 1.3 times rated voltage for 1 min	PTSI PTSI PTSI	N/A
eter	During the test, parts not being ejected from the appliance	(5) pts) pts	N/A
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	pist pist pist pist	(5) (5) (5)
	Appliances incorporating an electronic circuit that relies upon a programmable component to function correctly, subjected to the test of 19.11.4.8, unless restarting does not result in a hazard	prol prol prol pro	N/A
Pro pts	Appliances incorporating a protective electronic circuit are subjected to the tests of 19.11.3 and 19.11.4.	st pro pro pre	N/A
PISIPIS	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.	rel prel prel prel	N/A
Paral Press	Appliances incorporating an electronic circuit that relies upon a programmable component to function correctly, subjected to the test of 19.11.4.8	net protect prot	N/A
PTSI SI P	If the safety of the appliance under any of the fault conditions depends on the operation of a miniature fuse-link complying with IEC60127, the test of 19.12 is carried out	el prei prei prei	P
20)	During and after each test the following is checked:	51 pts pr 45	P
(5) P13	-the temperature of the windings does not exceed the values specified in table 8	pts pts pts pts	Р
e151	-the appliance complies with the conditions specified in 19.13	(a) 9(a) 91 at	e) P



Clause	lauca Doquirament - Test Desult Demark		
Clause	Requirement + Test	Result - Remark	Verdict
st p	-any current flowing through protective impedance not exceeding the limits specified in 8.1.4	PISI PISI PISI	N/A
(6) (6) (6) (6)	If a conductor of a printed board becomes open-circuite to have withstood the particular test, provided both of th met:		N/A
2) P(2)	-the base material of the printed circuit board withstands the test of Annex E	eter preserver	N/A
PTSI	-any loosened conductor does not reduce clearance or creepage distances between live parts and accessible metal parts below the values specified in clause 29	etal etal etal etal	N/A
19.11.1	Before applying the fault conditions a) to f) in 19.11.2, it of circuit meet both of the following conditions:	is checked if circuits or parts	Ρ
etsl et	- 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	st prot prot prot	N/A
Pres a	- 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	president president president	N/A
19.11.2	Fault conditions applied one at a time, the appliance operated under conditions specified in cl. 11, but supplied at rated voltage, the duration of the tests as specified:		Р
ofsi of	a) short circuit of functional insulation if clearances or creepage distances are less than the values specified in 29	(see appended table)	(e) P
ble,	b) open circuit at the terminals of any component	Ditto	Р
9 191 9	c) short circuit of capacitors, unless they comply with IEC 60384-14	Ditto	P
151 PTS	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	Ditto	PTSI PTSI
ital pl	This fault condition is not applied between the two circuits of an optocoupler	Melal Profession	N/A
eter.	e) failure of triacs in the diode mode	Ditto	Р
etel etel	f) failure of an integrated circuit. The possible hazardous situations of the appliance are assessed to ensure that safety does not rely on the correct functioning of such a component	erst prist prist prist	PIS
Sel 1	g) failure of an electronic power switching device	P12 51 0551	N/A
[5] P15	Eachlowpowercircuitisshort- circuitedbyconnectingthelow- powerpointtothepoleofthesupplysourcefromwhichthem easurementsweremade	erst pret pret pret	N/A



Clause	Requirement + Test	ause Requirement + Test Result - Remark	
			Verdic
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 f) of 19.11.2	No protective electronic circuit	N/A
(5) 1	During and after each test the following is checked:	PLA PLATEL	N/A
Proprie	- the temperature rise of the windings do not exceed the values specified in table 8	tel plantel pres	N/A
15' pts'	- the appliance complies with the conditions specified in 19.13	and the let a let	N/A
12 85	- any current flowing through protective impedance not exceeding the limits specified in 8.1.4	Ptal platal	N/A
at at a	If a conductor of a printed board becomes open-circuite considered to have withstood the particular test, provide conditions are met:		N/A
	- the material of the printed circuit board withstands the burning test of annex E	stal plants al pret	N/A
PIE PIE	- any loosened conductor does not reduce the clearances or creepage distances between live parts and accessible metal parts below the values specified in cl. 29	(al prol prol prol prol	N/A
ptal	- the appliance withstands the tests of 19.11.2 with open-circuited conductor bridged	ats' pret pret	N/A
19.11.4	Appliances having a switch with an off position obtained by electronic disconnection, or a switch 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 switch being set in the off position or in the stand-by mode.	el prei prei prei prei prei prei prei prei	N/A
(S) PISI PISI	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.	PIS	N/A
PTSI	The tests are carried out with surge arresters disconnected, unless they incorporate spark gaps	al protest protest	N/A
19.11.4.1	The appliance is subjected to electrostatic discharges in accordance with IEC 61000-4-2, test level 4 being applicable. Ten discharges having a positive polarity and ten discharges having a negative polarity are applied at each preselected point	PTS PTS PTS PTS PTS	N/A
19.11.4.2	The appliance is subjected to radiated fields in accordance with IEC 61000-4-3, test level 3 being applicable.	(a) project project	N/A



	EN 60335-1 & EN60335-2-		91
Clause	Requirement + Test	Result - Remark	Verdict
19.11.4.3	The appliance is subjected to fast transient bursts in accordance with IEC 61000-4-4. Test level 3 s applicable for signal and control lines. Test level 4 is applicable for the power supply lines. The bursts are applied for 2 min with a positive polarity and for 2 min with a negative polarity	ersi prei prei ersi prei prei ersi prei prei	N/A
19.11.4.4	The power supply terminals of the appliance are subjected to voltage surges in accordance with IEC 61000-4-5, five positive impulses and five negative impulses being applied at the selected points. Test level 3 is applicable for the line-to-line coupling mode, a generator having a source impedance of 2Ω being used. Test level 4 is applicable for the line-to-earth coupling mode, a generator having a source impedance of 12Ω being used.	PISI PISI PISI PISI PISI PISI PISI PISI	N/A
PTS'	Earthed heating elements in class I appliances are disconnected during this test	st protect prot	N/A
(5) P	For appliances having surge arresters incorporating spark gaps, the test is repeated at a level that is 95 % of the flashover voltage.	PTSI PTSI PTSI	N/A
19.11.4.5	The appliance is subjected to injected currents in accordance with IEC 61000-4-6, test level 3 being applicable. During the test, all frequencies between 0.15 MHz to 80 MHz are covered.	prel prel prel pre	N/A
19.11.4.6	The appliance rated current not exceeding 16 A, subjected to the Class 3 voltage dips and interruptions in accordance with IEC 61000-4-11	al prest prest prest	N/A
etel et	The appliance rated current exceeding 16 A, subjected to the Class 3 voltage dips and interruptions in accordance with IEC 61000-4-34	Pla Preil Preil Preil	N/A
19.11.4.7	The appliance is subjected to mains signals in accordance with IEC 61000-4-13, test level class 2 being applicable	Ptsi ptsi ptsi	N/A
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	PTSI PTSI PTSI PTSI (TSI PTSI PTSI PTSI (TSI PTSI PTSI PTSI	N/A
(at	The appliance continues to operate normally, or	Printel pret	N/A
ets)	Requires a manual operation to restart	151 ots1 p1	N/A
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)	st ptst ptst ptst	S P



Clause	Requirement + Test	Result - Remark	Verdict
01000			
19.13	During the tests the appliance does not emit flames, molten metal, poisonous or ignitable gas in hazardous amounts	si pisi pisi pisi	NS P
(6) (Temperature rises not exceeding the values shown in table 9	(see appended table)	P
Pla Pla	After the tests, and when the appliance has cooled to approximately room temperature, compliance with Clause 8 shall not be impaired.	est provident president	Р
pts	If the appliance can still be operated it complies with 20.2	rel rel ore of	P
P151	-if they become operational, not result in a dangerous malfunction during or after the tests of 19.11.4.	1 Pt pts1 pts1 pts1	N/A
st pro	If they become operational, do not result in a dangerous malfunction during or after the tests of 19.11.4	Provide and the provide and th	N/A
(5) ptp	Insulation, other than of class III appliance, withstand th 16.3, the test voltage specified in table 4:	e electric strength test of	P
atst	- basic insulation:	1000V	P
- 840	- supplementary insulation	1750V	N/A
10'	- reinforced insulation	3000V	Р
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.	pts' pts pts pts pt	N/A
al prol	If a relay or contactor with more than one contact is used, all contacts are short-circuited at the same time.	ptal ptal ptal plan	N/A
etel etel	A relay or contactor operating only to ensure the appliance is energized for normal use is not short- circuited	st Protect protection	N/A
Pares .	If more than one relay or contactor operates in clause 11, they are short-circuited in turn	tel pretet prete	N/A
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.	res proto proto proto	N/A
20	MECHANICAL STRENGTH	al otal praint	P
20.1	Adequate stability	Used on floor	Р
5 010 010	Tilting test through an angle of 10° (appliance placed on an inclined plane/horizontal plane); appliance does not overturn	Not overturn	P
(5)	Tilting test repeated on appliances with heating elements, angle of inclination increased to 15°	Photol Projet	N/A



EN 60335-1 & EN60335-2-65			
Clause	Requirement + Test	Result - Remark	Verdict
PTS1 P	Possible heating test in overturned position; temperature rise does not exceed values shown in table 9	el prei prei prei	N/A
20.2	Moving parts adequately arranged or enclosed as to provide protection against personal injury	etal prat et	P
619 PTS	Protective enclosures, guards and similar parts are non-detachable	Enclosure is non- detachable	Р
(Te) atel	Adequate mechanical strength and fixing of protective enclosures	al prestal prestal	P
151 85	Enclosures that can be opened by overriding an interlock are considered to be detachable parts	PIEI PIEI PIEI	N/A
51 Pts)	Self-resetting thermal cut-outs and over current protective devices not causing a hazard, by unexpected reclosure	PTSI PTSI PTSI PTS	N/A
613 F(5)	Compliance is checked by inspection, by the tests of 21.1 and by means of	stal prati prat	P
PTS) PTS	- 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	(s) proj proj proj proj proj proj proj proj	of [®] P of ⁵
al prov	Not possible to touch dangerous moving parts with test probe	No such dangerous	P
21	MECHANICAL STRENGTH	st protest plantst	P
51 . 6	Appliance has adequate mechanical strength and is constructed as to withstand rough handling	Profest Profest Pro	Р
Pres Pres	Compliance is checked by applying blows to the appliance in accordance with test Ehb of IEC 60068-2-75, the spring hammer test.	PTSI PTSI PTSI PT	P
PTS	The appliance is rigidly supported and three blows, having an impact energy of 0,5 J, are applied to every point of the enclosure that is likely to be weak.	0.5J, three blows, no hazard	P(a)
Proptst	If necessary, repetition of groups of three blows on a new sample	(5) PIP (5) PIP (5)	N/A
21.2	Accessible parts of solid insulation shall have sufficient strength to prevent penetration by sharp implements.	al prest prest a	P
SI PES	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.	supplementary insulation is at least 1 mm. reinforced insulation is at least 2 mm.	etel etel
a) 812	The insulation is raised to the temperature measured during the test of Clause 11.	10 10 10 10 10 10 10 10 10 10 10 10 10 1	N/A



Clause	Requirement + Test	Result - Remark	Verdict
Clause	Requirement + rest	Kesuit - Keinark	Veruici
PTS1 PT	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° .lts tip is rounded with a radius of 0,25 mm ± 0,02 mm.	s) pres pres pres	N/A
(e) of	The pin is held at an angle of 80° - 85° to the horizontal and loaded so that the force exerted along its axis is $10 \text{ N} \pm 0.5 \text{ N}$.	tel prej prej prej	N/A
15) P151	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.	and profession profession	N/A
PTS of SI	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.	prol prol prol prol	N/A
	Two similar scratches are made at 90° to the first pair without crossing them.	energy even even	N/A
(P15)	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.	ptsi ptsi ptsi ptsi ptsi tsi ptsi ptsi ptsi ptsi	N/A
ASI PTSI	The hardened steel pin is then applied perpendicularly with a force of $30 \text{ N} \pm 0,5 \text{ N}$ 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.	ptal ptal ptal ptal ptal	N/A
22	CONSTRUCTION	al are proved	P
22.1	Appliance marked with the first numeral of the IP system, relevant requirements of IEC 60529 are fulfilled	IP20, not marked	N/A
22.2	Stationary appliance: means to provide all-pole disconn provided, the following means being available:	ection from the supply	P
8	- a supply cord fitted with a plug	10, 0, 10, 10,	Р
and a	- a switch complying with 24.3	P10 251 0551 9	Р
at prat	- a statement in the instruction sheet that a disconnection incorporated in the fixed wiring is to be provided	stal and prai pro pro	N/A
19 19	- an appliance inlet	1 PTS 1 PT 15	N/A
st photo	Singe-pole switches and single-pole protective devices for the disconnection of heating elements in single- phase permanently connected class I appliances, connected in the phase conductor	pts pts pts pts pts	N/A
22.3	Appliance provided with pins: no undue strain on socket-outlets.	Not direct plug-in appliance	N/A
97	Applied torque not exceeding 0.25 Nm.	10, 9, 21, 66,	N/A



Clause	Requirement + Test	Result - Remark	Verdict
010	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16 18 1 18 16	19
etst etst	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.	si prei prei prei	N/A
	Each pin subjected to a torque of 0.4Nm; the pins are not rotating unless rotating does not impair compliance with the standard.	(s) proj orsi proj	N/A
22.4	Appliance for heating liquids and appliance causing undue vibration not provided with pins for insertion into socket-outlets.	No provided with pins for insertion into socket-outlets	ereb ereb
22.5	No risk of electric shock when touching the pins of the plug.	PIEN PIEN OF	P
51 51 51 51 51 51 51 51 51 51 51 51 51 5	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.	ptsl ptsl ptsl ptsl ptsl sl ptsl ptsl ptsl ptsl ptsl ptsl ptsl ptsl ptsl	P
	The voltage shall not exceed 34 V	<34V	Р
22.6	Electrical insulation not affected by condensing water or leaking liquid.	No liquid	N/A
19 10	Electrical insulation of Class II appliances not affected in case of a hose rupture or seal leak.	oter pres pres pres	N/A
22.7	Adequate safeguards against the risk of excessive pressure in appliances provided with steam-producing devices.	Not steam-producing devices	N/A
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/A
22.9	Insulation, internal wiring, windings, commutators and slip rings not exposed to oil, grease or similar substances	rel preter preter	Р
PTSI	Adequate insulating properties of oil or grease to which insulation is exposed	rel preter pre	N/A
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.	el pres pres pres pres	N/A
P(0) -5	NOTE 1: Voltage-maintained controls will automatically reset if they become de-energized.	SI PIEI PIEI	N/A
(a) .	Non-self-resetting thermal motor protectors shall have a trip-free action unless they are voltage maintained.	property provide p	N/A
ets ets	NOTE 2: Trip-free is an automatic action that is independent of manipulation or position of the actuating member.	PISI PISI PISI PISI	N/A



Clause	Requirement + Test	Result - Remark	Verdict
010	1 10 10 10 10 10 10 10 10 10 10 10 10 10	A 60 0	1 2
erst er	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.	si pisi pisi pisi	N/A
e) eler	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.	eller prei prei prei	N/A
22.11	Reliable fixing of non-detachable parts that provide the necessary degree of protection against electric shock, moisture or contact with moving parts	Tel Prete Preter	enter enter
251 8	Obvious locked position of snap-in devices used for fixing such parts	Play and Play	N/A
5 5	No deterioration of the fixing properties of snap-in devices used in parts that are likely to be removed during installation or servicing	prelies of prelies of	N/A
	Tests as described	2 P. of 51 P. 612	Р
22.12	Handles, knobs etc. fixed in a reliable manner	P' 15' P15' P	P
eter Pts	Fixing in wrong position of handles, knobs etc. indicating position of switches or similar components not possible	(a) prai prai pi prai	P
PISI	Axial force 15 N applied to parts, the shape being so that an axial pull is unlikely to be applied	otel preter preter	P
ets' et	Axial force 30 N applied to parts, the shape being so that an axial pull is likely to be applied	PTSI PTSI PTSI	N/A
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	PTSI PTSI PTSI PTSI PTSI PTSI PTSI PTSI	Port orfel orfel
22.14	No ragged or sharp edges creating a hazard for the user in normal use, or during user maintenance	No ragged or sharp edges	P
	No exposed pointed ends of self tapping screws etc., liable to be touched by the user in normal use or during user maintenance	PTEL PTEL PTEL PTEL	P
22.15	Storage hooks and the like for flexible cords smooth and well rounded	No storage hooks	N/A
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/A
5 8	Cord reel tested with 6000 operations, as specified	ets ets	N/A
8(9) et	Electric strength test of 16.3, voltage of 1000 V applied	51 Pro at otel	N/A
22.17	Spacers not removable from the outside by hand or by means of a screwdriver or a spanner	PTP (F) PTP (F)	N/A
22.18	Current-carrying parts and other metal parts resistant to corrosion under normal conditions of use	(a) and and prai	P



Clause	Requirement + Test	Result - Remark	Verdict
olause		Kesut - Kemark	Verdice
22.19	Driving belts not used as electrical insulation	the star of a star	P
610, 01	Constructed to prevent in appropriate replacement	st product protect	N/A
22.20	Direct contact between live parts and thermal insulation effectively prevented, unless material used is non-corrosive, non-hygroscopic and non-combustible	etel pret pret of	P P P
al pro	Compliance is checked by inspection and, if necessary, by appropriate test	Compliance is checked	P
22.21	Wood, cotton, silk, ordinary paper and fibrous or hygroscopic material not used as insulation, unless impregnated.	Such material not used as insulation	P(e)
PTS PTS	This requirement does not apply to magnesium oxide and mineral ceramic fibres used for the electrical insulation of heating elements	etal etal etal etal	N/A
22.22	Appliances not containing asbestos	No asbestos	Р
22.23	Oils containing polychlorinated biphenyl (PCB) not used	prol of protect of	P
22.24	Bare heating elements adequately supported	1 P (5) P 10 10	N/A
151 813	In case of rupture, the heating conductor is unlikely to come in contact with accessible metal parts	real present	N/A
22.25	Sagging heating conductors cannot come into contact with accessible metal parts	orist prest property	N/A
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	No SELV	N/A
22.27	Parts connected by protective impedance separated by double or reinforced insulation	Pierley Pierley	N/A
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	ptel ptel ptel ptel p	N/A
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	Prel prel prel prel	N/A
22.30	Parts serving as supplementary or reinforced insulation fixed so that they cannot be removed without being seriously damaged, or	of prest prest prest	(6) P
st ptp	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	ptsi ptsi ptsi ptsi pt	P ^{P1} official
22.31	Clearances and creepage distances over supplementary and reinforced insulation not reduced below values specified in clause 29 as a result of wear	ptal ptal ptal p	P



Clause	Requirement + Test	Result - Remark	Verdict
010	19 1010 100 100 100 100 100 100 100 100	19 19 13	10 10
etst etst	Clearances and creepage distances between live parts and accessible parts not reduced below values for supplementary insulation, if wires, screws etc. become loose	st ptst ptst ptst	P
22.32	Supplementary and reinforced insulation designed or protected against deposition of dirt or dust	al pred and pred	P
15/ 5/5/	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	etal etal etal etal	N/A
etel el	Ceramic material not tightly sintered, similar material or beads alone not used as supplementary or reinforced insulation	No such material	N/A
51 0	Oxygen bomb test at 70 °C for 96 h and 16 h at room temperature	President President	N/A
(a) (a)	Insulating material in which heating conductors are embedded is considered to be basic insulation and not reinforced insulation	pret pret pret	N/A
22.33	Conductive liquids that are or may become accessible in normal use are not in direct contact with live parts	No conductive liquids	N/A
19	Electrodes not used for heating liquids	1 ore 81 - 51	N/A
PTP	For class II constructions, conductive liquids that are or may become accessible in normal use, not in direct contact with basic or reinforced insulation	ptal ptal ptal ptal	N/A
51 P(5)	For class II constructions, conductive liquids which are in contact with live parts, not in direct contact with reinforced insulation	prol prol prol pro	N/A
212	The reinforced insulation consists of at least 3 layers	st prover of	N/A
151 pl	An air layer not used as basic or supplementary insulation in a double insulation system if likely to be bridged by leaking liquid	protect protect	N/A
22.34	Shafts of operating knobs, handles, levers etc. not live, unless the shaft is not accessible when the part is removed	Such devices not live	S P
22.35	Handles, levers and knobs, held or actuated in normal use, not becoming live in the event of an insulation fault	pres pres pres	P RS
al plan plan	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	ptsi ptsi ptsi ptsi	N/A
Patal Pte	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	(5) pts) pts) pts pts) pts) pts pts) pts) pt	S S



Clause	Requirement + Test	Result - Remark	Verdict
Clause	Requirement + Test	Result - Reillark	verdict
PIST	Insulating material covering metal handles, levers and knobs withstand the electric strength test of 16.3 for supplementary insulation	st pret pret pret	N/A
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	No such handles	N/A
22.37	Capacitors in Class II appliances not connected to accessible metal parts, unless complying with 22.42	tel Profes a Profes	N/A
PTS of SI	Metal casings of capacitors in Class II appliances separated from accessible metal parts by supplementary insulation, unless complying with 22.42	a ptal ptal ptal ptal	N/A
22.38	Capacitors not connected between the contacts of a thermal cut-out	President President	P
22.39	Lamp holders used only for the connection of lamps	a 4. 45, 612,	Р
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	rel prol prol prol prol	P P
ptsi pt	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	ptst ptst ptst ptst	N/A
22.41	No components, other than lamps, containing mercury	No mercury	P
22.42	Protective impedance consisting of at least two separate components	st proto pro	Р
12 13	Values specified in 8.1.4 not exceeded if any one of the components are short-circuited or open-circuited	Profest prested P	N/A
8	Resistors checked by the test of 14.1a) in IEC60065	te, 1 6, 42, 16,	N/A
(all a	Capacitors checked by the tests for class Y capacitors in IEC 60384-14	Profession president	N/A
22.43	Appliances adjustable for different voltages, accidental changing of the setting of the voltage unlikely to occur	No voltage setting device	N/A
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	The appliance is unlikely to be treated as a toy	P
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	st pret pret pret	P
22.46	Software used in protective electronic circuits shall be software class B or software class C.	al profes prof	N/A



Clause	Requirement + Test	Result - Remark	Verdict
Clause	Requirement + lest	Result - Remark	Veruici
el prel prel prel prel prel	NOTE 1 Failure of software class B in the presence of another fault in the appliance, or failure of software class C alone, could result in dangerous malfunction, electric shock, fire, mechanical or other hazards. Software class A denotes software used for functional purposes.	el prei prei prei prei prei prei prei prei	N/A
4. 81s	Compliance is checked by evaluating the software in accordance with Annex R.	eret preter pre	N/A
etel et	NOTE 2 If the software program is modified, the evaluation and relevant tests are repeated if the modification can influence the results of the test involving protective electronic circuits.	PISI PISI PISI PISI PI	N/A
22.47	Appliances intended to be connected to the water mains shall withstand the water pressure expected in normal use.	Not intended to be connected to the water	N/A
(a) pta)	Compliance is checked by connecting the appliance to a water supply having a static pressure equal to twice the maximum inlet water pressure or 1,2 MPa, whichever is higher, for a period of 5 min	pts) pts) pts) pts)	N/A
151 81.	There shall be no leakage from any part, including any inlet water hose	Ptala Protei	N/A
22.48	Appliances intended to be connected to the water mains shall be constructed to prevent backsiphonage of non-potable water into the water mains.	ptst ptst ptst pt	N/A
	Compliance is checked by the relevant tests of IEC 61770	atel Presidentes	N/A
22.49	For remote operation, the duration of operation shall be set before the appliance can be started, unless	al profest profest	P
151 15	the appliance switches off automatically or can operate continuously without hazard	ptal planal	P
22.50	Controls incorporated in the appliance take priority over controls actuated by remote operation	tel stel stel pt	N/A
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	TEI PIEI PIEI PIEI	N/A
oter to	There is a visual indication showing that the appliance is adjusted for remote operation	al protect prot	N/A
st pla	Manual setting and visual indication not necessary on appliances that can operate as follows, without giving rise to a hazard	PTSI PTSI PTSI P	N/A
615	-operate continuously,	-51 ors1 pro	N/A
(a) (a)	-operate automatically, or	offit plant	N/A
013,	-be operated remotely	S 62 8	N/A



Clause	Requirement + Test	Result - Remark	Verdict
Clause		Nesult - Nelliark	veruici
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	el prei prei prei	N/A
22.53	Class II appliances and class III appliances that incorporate functionally earthed parts have at least double insulation or reinforced insulation between live parts and the functionally earthed parts	ella prel prel prel pr	N/A
22.54	Button cells and batteries designated R1 not accessible without the aid of a tool, unless the cover of their compartment can only be opened after at least two independent movements have been applied simultaneously	en else else else else else else else el	N/A
22.101 (-2- 65)	Appliance has no openings on the underside that would allow small items to penetrate and touch live parts	pres pres pres pres	N/A
22.102 (-2- 65)	Interlock switches preventing access to live parts during user maintenance are connected in the input circuit and preventing unintentional operation	pts) pts, pts, pts, pts,	N/A
23	INTERNAL WIRING	tel pre'al protei	Р
23.1	Wireways smooth and free from sharp edges	Smooth and free from sharp edges	Р
al pta	Wires protected against contact with burrs, cooling fins etc.	pts' pts pts pts	P
pts' offi	Wire holes in metal well rounded or provided with bushings	al prei plantel	P
s' p1	Wiring effectively prevented from coming into contact with moving parts	No moving parts available.	N/A
23.2	Beads etc. on live wires cannot change their position, and are not resting on sharp edges or corners	No such parts	Р
PTSI	Beads inside flexible metal conduits contained within an insulating sleeve	tal ptal ptal	N/A
23.3	Electrical connections and internal conductors movable relatively to each other not exposed to undue stress	Internal wire and motor not exposed to undue stress	Р
at pro	Flexible metallic tubes not causing damage to insulation of conductors	pres pres pres	N/A
120 19	Open-coil springs not used	st prover west	N/A
SI 91	Adequate insulating lining provided inside a coiled spring, the turns of which touch one another	pipi pipi pipi pip	N/A
tel prei	No damage after 10 000 flexings for conductors flexed during normal use or 100 flexings for conductors flexed during user maintenance	PTSI PTSI PTSI PTSI	N/A
PT3' ets	Electric strength test, 1000 V between live parts and accessible metal parts	ter prest prest	N/A



Clause	EN 60335-1 & EN60335-2-65 Clause Requirement + Test Result - Remark		
Clause	Requirement + Test	Result - Remark	Verdict
23.4	Bare internal wiring sufficiently rigid and fixed	No bare internal wiring	N/A
23.5	The insulation of internal wiring withstanding the electrical stress likely to occur in normal use	Approved insulated internal wire	P
(e) el	Basic insulation electrically equivalent to the basic insulation of cords complying with IEC 60227 or IEC60245, or	est prest prest prest	P P P
19/ 9/51	No breakdown when a voltage of 2000 V is applied for 15 min between the conductor and metal foil wrapped around the insulation	and prove and prove and	A P
Play by	For classII construction, the requirements for supplementary insulation and reinforced insulation apply,	al ptal ptal ptal ptal	P
ersi e	Except that the sheath of a cord complying with IEC 60227 or IEC 60245 may provide supplementary insulation.	st pres pres pres	N/A
(B) (1)	A single layer of internal wiring insulation does not provide reinforced insulation	Protei ti presi pr	N/A
23.6	Sleeving used as supplementary insulation on internal wiring retained in position by positive means	end proved pro	P
23.7	The colour combination green/yellow used only for earthing conductors	tal property product	P
23.8	Aluminium wires not used for internal wiring	Copper wire used	P
23.9	No lead-tin soldering of stranded conductors where they are subject to contact pressure, unless	otal protect pratic	Р
9191 P	clamping means so constructed that there is no risk of bad contact due to cold flow of the solder	al prai prai	N/A
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).	Prolonger Prolon	N/A
24	COMPONENTS	at the the state	Pro
24.1	Components shall comply with the safety requirements specified in the relevant standards as far as they reasonably apply.	al prot prot prot	rs) P
282	List of components	(see appended table)	Р
Ptal	Components not tested and found to comply with relevant IEC standard for the number of cycles specified are tested in accordance with 24.1.1 to 24.1.6	st pret pret pret	N/A



Clause	Requirement + Test	Result - Remark	Verdict
Pin	the start of the s	and the state	19
	Components not tested and found to comply with relevant IEC standard, components not marked or not used in accordance with its marking, tested under the conditions occurring in the appliance	el prei prei prei	AS' P
etel pres	Lamp holders and starter holders that have not been previously tested and found to comply with the relevant standard are tested as a part of the appliance and shall additionally comply with the gauging and interchangeability requirements of the relevant standard under the conditions occurring in the appliance. Where the relevant standard specifies these gauging and interchangeability requirements at elevated temperatures, the temperatures measured during the tests of Clause 11 are used.	est prest prest prest prest prest prest prest rest prest prest prest prest prest prest prest prest prest prest prest prest prest prest prest prest prest prest prest	P P P P P P P P P P P P P P P P P P P
24.1.1	Capacitors likely to be permanently subjected to the supply voltage and used for radio interference suppression or for voltage dividing, complying with IEC 60384-14, or	Type x capacitor used	P
10,15	Tested according to annex F	P1 451 8151	N/A
24.1.2	Safety isolating transformers complying with IEC 61558-2-6, or	rel profest pro	P
100	Tested according to annex G	at protest protest	N/A
24.1.3	Switches complying with IEC 61058-1, the number of cycles of operation being at least 10 000, or	Mains switch separately approved	A P
P. prei	If they have to be tested, they are tested according to Annex H	prof profest pro	N/A
2191 51	If the switch operates are lay or contactor, the complete switching system is subjected to the test	al prol proto	N/A
EI PTEI	If the switch only operates a motor staring relayc omplying with IEC60730-2-10 with the number of cycles of a least 10000 asspecified, the complete switching system need not be tested	Provide Provid	N/A
(-2-65)	Interlock switches are operated 1 000 times.	1 " ats' pts' at 9	N/A
Play .	tested according to annex H	tel pres prate	N/A
eter bi	If the switch operates a relay or contactor, the complete switching system is subjected to the test	al protect protect	N/A
24.1.4	Automatic controls complying with IEC 60730-1 with rele cycles of operation being:	evant part 2. The number of	otel pi
era)	- thermostats: 10000	Approved	N/A
1 81-	- temperature limiters: 1000	pts pt at pt	N/A
13	- self-resetting thermal cut-outs: 300	1 11 x51 1 151	N/A
1 pts	- voltage-maintained non-self-resetting thermal 1000 cut-outs	lester prest pres	N/A



Clause	Requirement + Test	Result - Remark	Verdict
610	the set of a set of the	ta en la	19 10
5 8	- other non-self-resetting thermal cut-outs 30	ats' proved	N/A
Pro al	- non-self-resetting thermal cut-outs: 30	et le ete	N/A
20	- timers: 3 000	ets' et ats'	P
and l	- energy regulators: 10000	a printer pres	N/A
Tel pro	The number of cycles for controls operating during clause 11 need not be declared, if the appliance meets the requirements of this standard when they are short-circuited	and protocol protocol protocol	e s P e
	Thermal motor protectors are tested in combination with their motor under the conditions specified in Annex D.	here here here	N/A
erer erer	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	el ersi ersi ersi ersi ersi	N/A
al pto	Thermal cut-outs of the capillary type comply with the requirements for type 2. K controls in IEC 60730-2-9	la tel productor pr	N/A
24.1.5	Appliance couplers complying with IEC 60320-1	a protei proi	N/A
19 12	The relevant standard for interconnection couplers is IEC 60320-2-2.	protect protected p	N/A
si prei	However, appliances classified higher than IPX0, the appliance couplers complying with IEC 60320-2-3	prol prol prol pro	N/A
24.1.6	Small lamp holders similar to E10 lampholders complying with IEC 60238, the requirements for E10 lampholders being applicable	etsi etsi etsi etsi	N/A
24.1.7	For remote operation of the appliance via at elecommunication network, the relevant standard for the telecommunication interfacec ircuitry in the appliance is IEC 62151	rel prel prel pr	N/A
24.1.8	The relevant standard for thermal links is IEC 60691	and provide a	N/A
PIEI	Thermal links not complying with IEC 60691 are considered to be an intentionally weak part for the purposes of Clause 19	al property prot	N/A
24.1.9	Contactors and relays, other than motor starting relays, tested as part of the appliance	st prot prot	orf ⁶ P
lel etal	They are also tested in accordance with Clause 17 of IEC 60730-1, the number of cycles of operations in 24.1. 4 selected according to the contactor or relay function in the appliance	etal etal etal etal	e P e
24.2	No switches or automatic controls in flexible cords	ors, 6, 151	N/A



Clause	Requirement + Test	Result - Remark	Verdict
Clause		Result Remark	Verdio
st p	No devices causing the protective device in the fixed wiring to operate in the event of a fault in the appliance	et etsi etsi etsi	N/A
ets	No thermal cut-outs that can be reset by soldering	ast pist plan	N/A
(6) (The solder has a melding point of at least 230 °C	eter planet	N/A
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	No such switches	N/A
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 plugs and socket- outlets	P
24.5	Capacitors in auxiliary windings of motors marked with their rated voltage and capacitance and used accordingly	No such capacitors	N/A
Rel pts	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	(a) prai prai prai prai	N/A
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.	ore pression of the pression o	N/A
9 10 10	In addition, the motors are complying with the requirements of Annex I	PISI PISI P	N/A
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.	Prest prest prest prest	N/A
pho pts	Appliances intended to be permanently connected to the water mains not connected by a detachable hose- set	ter by by ber by be	N/A
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, not causing a hazard in event of a failure	oral prate prate prate	N/A
610	One or more of the following conditions are to be met:	pts ptagel pt	N/A
ale a	-the capacitors are of class P2 according to IEC 60252-1	al prat prat	N/A
(5) -1 ·	-the capacitors are housed within a metallicor ceramic enclosure	PTP PTP PTP PTP PTP	N/A
61- etc	-the distance of separation of the outer surface to adjacent non-metallic parts exceeds 50mm	tel planter pter	N/A



Clause	Clause Requirement + Test Result - Remark		
SIGUSE		Noout - Nemark	Verdic
atel pte	-adjacent non-metallic parts within 50 mm withstand the needle-flame test of Annex E	et etst etst etst	N/A
el stel	-adjacent non-metallic parts within 50 mm classified as at least V-1 according to IEC 60695-11-10	eter Mer eter et	N/A
24.101 (-2- 65)	Interlock switches preventing access to live parts during user maintenance - disconnect all poles - contact separation in accordance with IEC 61058-1	stal protection protection	N/A
25	SUPPLY CONNECTION AND EXTERNAL FLEXIBLE	CORDS	Р
25.1	Appliance not intended for permanent connection to fixed wiring, means for connection to the supply:	al products products	P
16 12	- supply cord fitted with a plug	513, 21 6 aley 613	Р
PTSI	- an appliance inlet having at least the same degree of protection against moisture as required for the appliance	st pret pret pret	N/A
(P) (P)	- pins for insertion into socket-outlets	Pto 1 8151	N/A
25.2	Appliance not provided with more than one means of connection to the supply mains	Only one means	N/A
PTSI PTSI	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	One supply	N/A
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	Not permanently connected to fixed wiring	N/A
Play pl	Appliance provided with a set of terminals for the connection of cables or fixed wiring, cross-sectional areas specified in 26.6	tel ptel ptel ptel	N/A
prot ren	Appliance provided with a set of terminals allowing the connection of a flexible cord	Property proved of	N/A
t Press	Appliance provided with a set of supply leads accommodated in a suitable compartment	pres pres pres	N/A
el etsi	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	atal property press	N/A
Prol prol	For a fixed appliance constructed so that parts can be removed to facilitate easy installation, this requirement is metifitis possible to connect the fixed wiring without difficulty after a part of the appliance has been fixed to its support	st prei prei prei prei	N/A


Clause	Requirement + Test	Result - Remark	Verdict
010	and the second second	151 AS 81	1 01
25.4	Cable and conduit entries, rated current of appliance not exceeding 16 A, dimensions according to table 10	Not intended to be permanently connected to the fixed wiring	N/A
	Introduction of conduit or cable does not reduce clearances or creepage distances below values specified in 29	era prei prei prei er	N/A
25.5	Method for assemble supply cord with the appliance:	ets' 1 151 6	P
10, 151	- type X attachment	1 PT 10 10	N/A
1 5	- type Y attachment	510 al 10 al 10	P
151	- type Z attachment, if allowed in part 2	1 atel present	N/A
51 66	Type X attachment, other than those with a specially prepared cord, not used for flat twin tinsel cords	pres pres pres pres	N/A
PTSI PTSI	For multi-phase appliances supplied with a supply cord and that are intended to be permanently connected to fixed wiring, the supply cord is assembled to the appliance by typeY attachment	ptsi ptsi ptsi ptsi	N/A
(-2-65)	Type Z attachment is allowed for appliances having a mass not exceeding 3 kg.	real protect prot	N/A
25.6	Plugs fitted with only one flexible cord	PTS' at Prats'	Р
1 PL	- for Class I appliances: standard sheet C2b, C3b or C4	pts' pts' pts' pts	P
	- for Class II appliances: standard sheet C5 or C6.:	al prover stal	N/A
25.7	Supply cord not lighter than:	PT- 151 0151 PT	Р
19%	- braided cord (60245 IEC 51)	at Profest prover	N/A
615	- ordinary tough rubber sheathed cord (60245 IEC 53)	atel ptal pro	N/A
19/19/	- ordinary polychloroprene sheathed flexible cord (60245 IEC 57)	al preter preter	P
Pr-	- flat twin tinsel cord (60227 IEC 41)	atel , ate , at ,	N/A
pro ptst	- light polyvinyl chloride sheathed cord (60227 IEC 52), appliance not exceeding 3 kg	H03VVH2-F	P
otel	- ordinary polyvinyl chloride sheathed cord (60227 IEC 53), appliance exceeding 3 kg	al prest prest	N/A
612,	Supply cords having high flexibility, not lighter than:	ats' project of	N/A
Sel 8	- rubber insulated and sheathed cord (60245 IEC 86)	pts at protei	N/A
PIPES	- rubber insulated, crosslinked PVC sheathed cord (60245 IEC 87)	atal pratial prati	N/A
Potsi	Temperature rise of external metal parts exceeding 75 K, PVC cord not used, unless	at platet ptates	N/A



Clause	EN 60335-1 & EN60335-2-0	Result - Remark	Verdict
Clause	Requirement + Test	Result - Remark	verdict
st e	appliance so constructed that the supply cord is not likely to touch external metal parts in normal use, or	PISI PISI PISI	N/A
(a) [75]	the supply cord is appropriate for higher temperatures, type Y or type Z attachment used	etal ptal etal e	N/A
det	Modification:	1 P. (5) P. (5)	N/A
hal ptal	Add the content of NOTE 1 to the requirement as follows: Their properties shall be at least those of ordinary tough rubber sheathed cords (code designation 60245 IEC 53). 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.		
25.8	Nominal cross-sectional area of supply cords according to table 11; rated current (A); cross-sectional area (mm ²):	3x Min. 1.5mm ²	(S) P
25.9	Supply cord not in contact with sharp points or edges	P' 15' P15'	P
25.10	Green/yellow core for earthing purposes in Class I appliance	(5) pts) pt	(5) P ⁵
pts'	In multi-phase appliances, the colour of the neutral conduct or of the supply cord is blue.	el protet pro	N/A
25.11	Conductors of supply cords not consolidated by lead- tin soldering where they are subject to contact pressure, unless	of ptal at ptal at	P P
51 6	Clamping means so constructed that there is no risk of bad contacts due to cold flow of the solder	PTS PTS PTS	N/A
25.12	Moulding the cord to part of the enclosure does not damage the insulation of the supply cord	stal proteine	e e
25.13	Inlet opening so shaped as to prevent damage to the supply cord	tel prestel pres	N/A
prest prest	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	Prel prel prel pre	N/A
etal	If unsheathed supply cord, a similar additional bushing or lining is required, unless	of profile prof	N/A
610	the appliance is class 0	pts photos	N/A
Sel ?	A class III appliance not containing live parts	P 151 015	N/A
25.14	Supply cords adequately protected against excessive flexing	prof prof prof p	N/A
151	Flexing test:	a) (1) (5) (7)	N/A
1	- applied force (N)	196 12 M	N/A



Clause	Requirement + Test	Result - Remark	Verdict
210	2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(a) (12) (2)	(a) (b)
51 8	- number of flexings	151 PT- 51	N/A
els' al	The test does not result in:	s) provide proved	N/A
0 6	- short circuit between the conductors	ets' et ats'	N/A
Pret -	- breakage of more than 10% of the strands of any conductor	tel pres pres	N/A
10	- separation of the conductor from its terminal	P12 21 0151	N/A
1010	- loosening of any cord guard	al 10 151 192	N/A
151 85	- damage, within the meaning of the standard, to the cord or the cord guard	PISI PISI P	N/A
et etcl	- broken strands piercing the insulation and becoming accessible	ofer a present of	N/A
25.15	Conductors of the supply cord relieved from strain, twisting and abrasion by use of cord anchorage	51 PTS1 PTS1 PTS	P
(a) (a)	The cord cannot be pushed into the appliance to such an extent that the cord or internal parts of the appliance can be damaged	PTS PTS PTS PTS	PIS P
tel pl.	Pull and torque test of supply cord, values shown in table 10: pull (N); torque (not on automatic cord reel) (Nm)	100N, 25 times, 1s, 0.35N.m	P P
19 13	Max. 2 mm displacement of the cord, and conductors not moved more than 1 mm in the terminals	0.92mm displacement	P
el prol	Creepage distances and clearances not reduced below values specified in 29.1	prol of prol pro	P
25.16	Cord anchorages for type X attachments constructed and located so that:	al prata prata	N/A
al la	- replacement of the cord is easily possible	pro la la	N/A
PTS1	- it is clear how the relief from strain and the prevention of twisting are obtained	ter pres pres	N/A
15	- they are suitable for different types of cord	Phone 1 1 1 1 1	N/A
ptst pt	- cord cannot touch the clamping screws of cord anchorage if these screws are accessible, unless separated from accessible metal parts by supplementary insulation	rist proto proto	N/A
51 913	- the cord is not clamped by a metal screw which bears directly on the cord	PTSI PISTER	N/A
pto pto	- at least one part of the cord anchorage securely fixed to the appliance, unless part of a specially prepared cord	st pret pret pret	N/A
ot51	- screws which have to be operated when replacing the cord do not fix any other component, if applicable	(a) prat prat	N/A



Clause	EN 60335-1 & EN60335-2-65			
197	Requirement + Test	Result - Remark	Verdict	
st p	- if labyrinths can be bypassed the test of 25.15 is nevertheless withstood	PISI PISI PISI	N/A	
(s) prsi	- 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	ofel prel prel prel	N/A	
tel pl.	- for Class II appliances: they are of insulating material, or if of metal, they are insulated from accessible metal parts by supplementary insulation	PISI PISI PISI	N/A	
25.17	Adequate cord anchorages for type Y and Z attachment	PTSI PTS' PTSI	P	
25.18	Cord anchorages only accessible with the aid of a tool, or	etal prolater pr	Perf	
PISI	so constructed that the cord can only be fitted with the aid of a tool	51 PT51 PT51 PT51	SL PP	
25.19	Type X attachment, glands not used as cord anchorage in portable appliances	PTS TSI PTSI PTSI	N/A	
er pte	Tying the cord into a knot or tying the cord with string not used	(a) Plantal	N/A	
25.20	Conductors of the supply cord for type Y and Z attachment adequately additionally insulated	atal property pro	PIP	
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.	el etel etel etel etel etel etel etel el etel et	N/A	
PTSI PTS	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	Professional Pression	N/A	
25.22	Appliance inlet:	1 15 1 8 de	N/A	
810	- live parts not accessible during insertion or removal	prest project	N/A	
(a)	- connector can be inserted without difficulty	Photos prot	N/A	
1 ats)	- the appliance is not supported by the connector	151 ots1 p	N/A	
51 p(0) 5	- 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	st prist prist prist	N/A	
25.23	Interconnection cords comply with the requirements for the supply cord, except as specified	PTS' PTS' PTS	P	



Clause	Requirement + Test	Result - Remark	Verdict
Clause	Requirement + Test	Result - Remark	verdict
PTS1 PT	-the cross-sectional area of the conductors is determined on the basis of the maximum current during clause 11	si prei prei prei	N/A
6) 6	-the thickness of the insulation may be reduced	013 ch (151	N/A
3151	If necessary, electric strength test of 16.3	er ster pres	N/A
25.24	Interconnection cords not detachable without the aid of a tool if compliance with the standard is impaired when they are disconnected	erst erest erest	P P P
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	nel prel prel pre	P P
26	TERMINALS FOR EXTERNAL CONDUCTORS	Pla 1 1 0191	N/A
26.1	Appliances provided with terminals or equally effective devices for connection of external conductors	atal protection pr	N/A
etel .	Terminals only accessible after removal of a non- detachable cover	(5) PTP (5) PTP	N/A
al Ph	For class III appliances that do not contain live parts	pta's pt atal	N/A
	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.	otal prat prat prat	N/A
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	ptol ptol ptol ptol	N/A
151 012	Screws and nuts serve only to clamp supply conductors, except	Ptel Ptel Ptel	N/A
Pro Pro	internal conductors, if so arranged that they are unlikely to be displaced when fitting the supply conductors	PTEL PTEL PTEL P	N/A
PTSI	If soldered connections used, the conductor so positioned or fixed that reliance is not placed on soldering alone	pret pret pret	N/A
st pts	Soldering alone used, barriers provided, clearances and creepage distances satisfactory if the conductor becomes free at the soldered joint	PTSI PTSI PTSI PT	N/A
P(P)	Modification: Change the Note into a requirement.	St PTS' PTS' P	N/A
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	(5) of the of th	N/A



EN 60335-1 & EN60335-2-65			
Clause	Requirement + Test	Result - Remark	Verdict
51 6	Terminals for type X attachment and those for connection when tightening or loosening the clamping means:	on to fixed wiring so fixed that	N/A
ets	- the terminal does not loosen	ast other prov	N/A
(6) 9	- internal wiring is not subjected to stress	ever ever	N/A
Pro Pro	- clearances and creepage distances are not reduced below the values in 29	est provided to pre-	N/A
and a provide a	Compliance checked by inspection and by the test of subclause 8.6 of IEC 60999-1, the torque applied being equal to two-thirds of the torque specified. Nominal diameter of thread (mm); screw category; torque (Nm)	ntsi presi presi presi presi presi presi presi	N/A
610	No deep or sharp indentations of the conductors	2151 PT 151 PTS	N/A
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	el prei prei prei prei prei prei prei prei	N/A
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	en prel prel prel pre	N/A
	Stranded conductor test, 8 mm insulation removed	15 15 1 P	N/A
pro pro	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	PTSI PTSI PTSI PTSI PTSI PTSI PTSI PTSI	N/A
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 (mm ²)	el prel prel prel prel	N/A
100	Terminals only suitable for a specially prepared cord	1910 SEI 85 9	N/A
26.7	Terminals for type X attachment accessible after removal of a cover or part of the enclosure	oral prattal prattal	N/A
26.8	Terminals for the connection to fixed wiring, including the earthing terminal, located close to each other	of profest profest	N/A
26.9	Terminals of the pillar type constructed and located as specified	protot of protot pro	N/A
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	PTSI PI PTSI PTSI PTSI PTSI PTSI	N/A
1	Pull test of 5 N to the connection	the state of the	N/A



10 A 10	EN 60335-1 & EN60335-2-0	65	017
Clause	Requirement + Test	Result - Remark	Verdict
26.11	For type Y and Z attachment: soldered, welded, crimped and similar connections may be used	PISI PISI PISI	N/A
(5) (15) (6) (16)	For Class II appliances: the conductor so positioned or fixed that reliance is not placed on soldering, welding or crimping alone	otal ptal ptal p	N/A
tel pre	For Class II appliances: soldering, welding or crimping alone used, barriers provided, clearances and creepage distances satisfactory if the conductor becomes free	en protection protection	N/A
151 81	Modification: Change the Note into a requirement.	prot prot	N/A
27	PROVISION FOR EARTHING	atel projet P	P
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	st pret pret pret	S P
(a) (a)	Earthing terminals not connected to neutral terminal	Parts' Proval	oke P
ers' ers	Class 0, II and III appliance have no provision for earthing	(5) P(5) P(5) P	N/A
ets' stal	Safety extra-low voltage circuits not earthed, unless protective extra-low voltage circuits	el protet pro	P
27.2	Clamping means adequately secured against accidental loosening	ptal ptal ptal	P
s' pro'	Terminals used for the connection of external equipotential bonding conductors allow connection of conductors of 2.5 to 6 mm ² , and	prol prol prol pr	P
el ete	do not provide earthing continuity between different parts of the appliance	atal platal p	P
(a) (a)	Conductors cannot be loosened without the aid of a tool	tel ptel ptel	ete P
prot pt	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	PIEL PIEL PIEL	N/A
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.	product produc	N/A
(a) pra	For appliances with supply cord, current-carrying conductors become taut before earthing conductor, if the cord slips out of the cord anchorage	PTS PTS PTS PTS	N/A



Clause	Requirement + Test	Result - Remark	Verdict
PTS1 P	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	si prei prei prei	N/A
27.4	No risk of corrosion resulting from contact between metal of earthing terminal and other metal	elen el eter e	P
ter Me	Adequate resistance to corrosion of coated or uncoated parts providing earthing continuity, other than parts of a metal frame or enclosure	ensi prei prei	P
PTP PT	Parts of steel providing earthing continuity provided at the essential areas with an electroplated coating, thickness at least 5 µm	PIST PIST PIST PIST	N/A
st etch	Adequate protection against rusting of parts of coated or uncoated steel, only intended to provide or transmit contact pressure	PISI PISI PISI PISI	P
619 (S)	In case of aluminium alloys precautions taken to avoid risk of corrosion	atal Profession offer	N/A
etel ete	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	(s) pro pro pro	N/A
27.5	Low resistance of connection between earthing terminal and earthed metal parts	Protest protest	P
pres pres	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	profession	N/A
etel del	Resistance not exceeding 0,1 Ω at the specified low-resistance test	$25A$, 2min, measured: $0.036\Omega < 0.1\Omega$	Р
(al al	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	et protect protect	N/A
27.6	The printed conductors of printed circuit boards not used to provide earthing continuity in hand held appliances	PISI PISI PISI	N/A
1 1	They may be used in other appliances if:	aler his at h	N/A
proi proi	- at least two tracks are used with independent soldering points and the appliance complies with requirements of 27.5 for each circuit	PISI PISI PISI PISI	N/A
P(a)	- the material of the printed circuit board complies with IEC 60249-2-4 or IEC 60249-2-5	st pret pret	N/A
Patal .	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	en oral oral oral oral	N/A
28	SCREWS AND CONNECTIONS	619 (P) (S)	Р



Clause	Requirement + Test	Result - Remark	Verdict
01000			
28.1	Fixings, electrical connections and connections providing earthing continuity withstand mechanical stresses	st ptst ptst ptst	P
(e) (e)	Screws not of soft metal liable to creep, such as zinc or aluminium	pres pres	P
81-25	Diameter of screws of insulating material min. 3 mm	(5) P (5) P	N/A
tel ptel	Screws of insulating material not used for any electrical connection or connections providing earthing continuity	No such csrews	S S
615 P	Screws used for electrical connections or connections providing earthing continuity screw into metal	Screwed into metal	P
51 610	Screws not of insulating material if their replacement by a metal screw can impair supplementary or reinforced insulation	prel prel prel prel	N/A
(a) eta)	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	ptal ptal ptal ptal	N/A
1 8%	For screws and nuts; test as specified	(see appended table)	P
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	oral prai prai prai	(5) PIP
9 10	This requirement does not apply to electrical connections in circuits of appliance for which:	PID PID PID	N/A
Plants	30.2.2 is applicable and that carry a current not exceeding 0,5 A	eter proved pre	N/A
(ale)	30.2.3 is applicable and that carry a current not exceeding 0,2 A	tel eter eter eter	N/A
28.3	Space-threaded (sheet metal) screws only used for electrical connections if they clamp the parts together	PTE PTE PTE	N/A
ets.	Thread-cutting (self-tapping) screws only used for electrical connections if they generate a full form standard machine screw thread	prot prot prot p	N/A
el blej	Such screws not used if they are likely to be operated by the user or installer unless the thread is formed by a swaging action	Used for fixing wood pedestal	Per
el ets	Thread-cutting and space-threaded screws may be used in connections providing earthing continuity, provided unnecessary to disturb the connection and at least two screws are used for each connection	PTSI PTSI PTSI PTSI	N/A



Clause	Requirement + Test	Result - Remark	Verdict
010	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		5
28.4	Screws and nuts that make mechanical connection secured against loosening if they also make electrical connections or connections providing earthing continuity	st ptst ptst ptst	N/A
	This requirement does not apply to screws in the earthing circuit if at least two screws are used, or	est prest prest	N/A
61.	If an alternative earthing circuit is provided	ats , 21	N/A
PISTO	Rivets for electrical connections or connections providing earthing continuity secured against loosening if subjected to torsion	rel pro pro pro	N/A
29	CLEARANCES, CREEPAGE DISTANCES AND SOLID	DINSULATION	Р
51 6	Clearances, creepage distances and solid insulation withstand electrical stress	Profest of Profest P	P
en proi	If coatings are used on printed circuit boards to protect the microenvironment (Type A coating) or to provide basic insulation (Type B coating), Annex J applies. The microenvironment is pollution degree 1 under Type A coating. There are no creepage distance or clearance requirements under Type B coating.	of provention of the proventis of the provention of the provention of the provention	N/A
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.	orsi proi proi proi proi proi proi proi pro	
PTSI PTS	For appliances intended for use at altitudes exceeding 2000m, the clearances in Table 16 is increased according to the relevant multiplier values in Table A.2 of IEC 60664-1	rel prel prel prel	N/A
PTSI PT	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.	PISI PISI PISI PISI	N/A
51 9	-to appliance intended for use at altitudes exceeding 2000m	protect protect p	N/A
P	Appliances are in overvoltage category II	Overvoltage category II	Р
(a) _ (Clearances less than specified in table 16 not allowed for basic insulation of class 0 and class 0I appliances,	Photos Photos	N/A
62	or if pollution degree 3 is applicable	30 12 9 C	N/A



01	EN 60335-1 & EN60335-2-65			
Clause	Requirement + Test	Result - Remark	Verdic	
st pt	A force of 2N is applied to bare conductors, other than heating elements	PISI 61 PISI	N/A	
ets'	A force of 30N is applied to accessible surfaces	ist pist pi	N/A	
(e) (e)	Compliance is checked by inspection and measurements as specified	(see appended table)	A P	
ter ble	Replace NOTE 6 by: NOTE 6 Attention is drawn on the fact that for appliances intended for use at altitudes exceeding 2 000 m, the altitude correction factors, relevant to the intended altitude, for clearances specified in Table A.2 of EN 60664-1 may need to be taken into account.	rel prel prel prel prel prel prel prel p	N/A	
29.1.1	Clearances of basic insulation withstand the overvoltages, taking into account the rated impulse voltage	prest prest prest p	P	
(a) a(a)	Clearance at the terminals of tubular sheathed heating elements may be reduced to 1mm if the microenvironment is pollution degree 1	PTSI PTSI PTSI PIS	N/A	
Phone Phone	Lacquered conductors of windings assumed to be bare conductors, but the clearances specified in table 16 are reduced by 0.5mm for rated impulse voltages of at least 1500V	estal prol prol prol	N/A	
1 19	Lacquered conductors of windings are considered to be bare conductors.	pts of pts pts	P	
29.1.2	Clearances of supplementary insulation not less than those specified for basic insulation in table 16	ptal of ptal ptal	P	
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	st proto proto proto	P	
19,191	For double insulation, with no intermediate conductive part between basic and supplementary	ist protest protest	N/A	
prot pro	insulation, clearances are measured between live parts and the accessible surface, and the insulation system is treated as reinforced insulation	prol prol prol	p(s) p(s)	
29.1.4	For functional insulation, the values of table 16 are applicable, unless	profes profes p	P	
PIPISI	the appliance complies with clause 19 with the functional insulation short-circuited	erst protect pro	Р	
-(a)	Clearances at crossover points of lacquered conductors not measured	51 PTS1 PTS1 PTS1	P	
51 PT	Clearance between surfaces of PTC heating elements may be reduced to 1mm	PTS SI PTSI	N/A	



Clause	Requirement + Test	Result - Remark	Verdict
6100	1 (2) (2) (2) (2) (2) (2) (2) (2)	(AS) (P) (B)	(S) (P)
etel etel	Lacquered conductors of windings assumed to be bare conductors, but the clearances specified in table 16 are reduced by 0.5mm for rated impulse voltages of at least 1500V	el prel prel prel	N/A
Pres Pres	Lacquered conductors of windings are considered to be bare conductors. However, clearances at crossover points are not measured.	tel prei prei prei	P
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	et and etal and	N/A
el el el el	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	PT- PTSI PTSI PTSI PTSI	N/A
ASI PTS	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	tel prei prei prei	N/A
29.2	Creepage distances not less than those appropriate for the working voltage, taking into account the material group and the pollution degree	al pret pret pret	P
	Pollution degree 2 applies, unless	PTP 51 6151	N/A
etel ofel	precautions taken to protect the insulation; pollution degree 1	et protes pro	N/A
(a)	insulation subjected to conductive pollution; pollution degree 3	Pollution degree 3	P
A PE	Compliance is checked by inspection and measurements as specified	(see appended table)	P
	Change NOTE 6 into a requirement	Piret Pres	N/A
29.2.1	Creepage distances of basic insulation not less than specified in table 17	ptsi ptsi ptsi p	P
st ptst	However, if the working voltage is periodicand has af requency exceeding 30 kHz, the creepage distances are also determined from table 2 of IEC 60664-4, these values being used if exceeding the values in table17	ptst ptst ptst pts st ptst ptst ptst	N/A
(a) at	Except 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	en prol prol prol	N/A



Clause	Requirement + Test	Result - Remark	Verdict
oluuse		Result Remark	Veraiot
29.2.2	Creepage distances of supplementary insulation at least as specified for basic insulation in table 17	Plater pres	e P
29.2.3	Creepage distances of reinforced insulation at least double as specified for basic insulation in table 17	ptal ptal ptal pt	P
29.2.4	Creepage distances of functional insulation not less than specified in table 18	(see appended table)	P
(19) (19)	Creepage distances may be reduced if the appliance complies with clause 19 with the functional insulation short-circuited	ter bier bier bier	S SSP
29.3	Supplementary insulation and reinforced insulation shall have adequate thickness, or have a sufficient number of layers, to withstand the electrical stresses that can be expected during the use of the appliance.	prel prel prel prel	P
151	Compliane checked:	Pintsi prei	P
3(5)	-by measurement, in accordance with 29.3.1, or	at als pl	Po
(a) (a)	-by an electric strength test in accordance with 29.3.2, or	Proto proto	P
rts1 pro	-for insulation, other than single layer internal wiring insulation, by an assessment of the thermal quality of the material combined with an electric strength test, in accordance with 29.3.3, and	ptal ptal ptal ptal	N/A
PTSI PI	For accessible parts of reinforced insulation consisting of a singlel ayer, by measurement in accordance with 29.3.4, or	al prolotel prol	N/A
51 6	For accessible reinforced insulation consisting of a single layer, measurement in accordance with 29.3.Z1	PEAL PLAI	P
tel prel	-by an assessment of the thermal quality of the material according to 29.3.3 combined with an electric strength test in accordance with 23.5, for each single layer internal wiring insulation touching each other, or	etel ptel ptel ptel	N/A
pret pt	-as specified in subclause 6.3 of IEC 60664-4 for insulation that is subjected to any periodic voltage having a frequency exceeding 30kHz	PIE PIE PIE PIE	N/A
29.3.1	The thickness of the insulation shall be at least	phone provide phone	P
PISI	- 1 mm for supplementary insulation;	al pratal provide	P
5 6	- 2 mm for reinforced insulation.	President president	ere P
29.3.2	Each layer of material shall withstand the electric strength test of 16.3 for supplementary insulation. Supplementary insulation shall consist of at least 2 layers of material and reinforced insulation of at least 3 layers.	ptal ptal ptal ptal	P



Clause Requirement + Test Result - Remark			Verdict
Clause	Requirement + rest	Result - Remark	Verdict
29.3.3	The insulation is subjected to the dry heat test Bb of IEC 60068-2-2 for 48 h at a temperature of 50 K in excess of the maximum temperature rise measured during the test of Clause 19. At the end of the period, the insulation is subjected to the electric strength test of 16.3 at the conditioning temperature and also after it has cooled down to room temperature.	sh ptsl ptsl ptsl otsl ptsl ptsl ptsl sl ptsl ptsl ptsl	N/A
rel prol	If the temperature rise of the insulation measured 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.	erel erel erel p	N/A
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)	prel prel prel prel	N/A
30	RESISTANCE TO HEAT AND FIRE	les but al	Р
30.1	External parts of non-metallic material,	Protei preist	N/A
Ele,	parts supporting live parts, and	(5) P(5) P	N/A
151 81.	thermoplastic material providing supplementary or reinforced insulation,	ptal protein	P
610,	sufficiently resistant to heat	151 PT2 1 10	e P
1 81	Ball-pressure test according to IEC 60695-10-2	(see appended table)	P
st prot	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)	pts) pts) pts) pts)	N/A
tel ptel	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)	el ptel ptel ptel	N/A
prot pt	Parts of thermoplastic material providing supplementary or reinforced insulation, 25°C plus the maximum temperature rise determined during clause 19, if higher; temperature (°C)	pre- pre- pre- pre-	P
30.2	Relevant parts of non-metallic material adequately resistant to ignition and spread of fire	(see appended table)	Р
5 61 9	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	ptp pts pts pts	N/A
30.2.1	Glow-wire test of IEC 60695-2-11 at 550°C, unless	atel provide 1	N/A
Pots!	However, test not carried out if the material is classified as having a glow-wire flammability index according to IEC 60695-2-12 of at least 550°C, or	(a) pratal prat	N/A



Clause	Boquiroment + Test	ause Requirement + Test Result - Remark		
Clause	Requirement + Test	Result - Remark	Verdict	
st pt	the material is classified at least HB40 according to IEC 60695-11-10	pier el prei pier	N/A	
(6) (8 ¹⁶¹	Parts for which the glow-wire test cannot be carried out meet the requirements in ISO9772 for category FH3 material	orsi prei prei prei	N/A	
30.2.3	Appliances operated while unattended, tested as specified in 30.2.3.1 and 30.2.3.2	end preder preder	P	
125 6	Test not applicable to conditions as specified	10% 10 10 Mg	N/A	
30.2.3.1	Parts of insulating material supporting connections carrying a current exceeding 0.2A during normal operation, and	the state of the s	(5) P	
	parts of insulating material within a distance of 3mm,	and all all all	Р	
PIS' L	subjected to the glow-wire test of IEC 60695-2-11 with a test severity of 850°C	st prot prot	Р	
(a) el	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	prest prest prest pr	N/A	
30.2.3.2	Parts of insulating material supporting current-carrying connections, and	stel states the	N/A	
ars	parts of insulating material within a distance of 3mm,	al ater provide	N/A	
1 60	subjected to glow-wire test of IEC 60695-2-11	12 PE 19	N/A	
PTP	Test not carried out on material having a glow-wire igniti IEC 60695-2-13 of at least :	on temperature according to	N/A	
91 91 91	-775°C, for connections carrying a current exceeding 0,2A during normal operation	al ptsi ptsi ptsi	N/A	
619,	-675°C, for other connections	ats pts of part	N/A	
12, 1	Glow-wire test of IEC 60695-2-11, the temperature being	g:	N/A	
P PTS	-750°C, for connections carrying a current exceeding 0,2A during normal operation	to tel protet ptol	N/A	
pro at	-650°C, for other connections	Pro at oral	N/A	
19 1	Parts that during the test produce a flame persisting longer than 2 s, tested as specified	blauter by blauter bla	N/A	
el etsi	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	ptst ptst ptst ptst	N/A	
P(9)	the material is classified as V-0 or V-1 according to IEC 60695-11-10	ist pret pret	N/A	
30.2.4	Base material of printed circuit boards subjected to needle-flame test of annex E	to proto proto	N/A	
1 23	Test not applicable to conditions as specified	the at ates pre-	N/A	



Clause	Requirement + Test	Result - Remark	Verdict
Pip	the state of the s	245 1013 101 1015	19
31	RESISTANCE TO RUSTING	1919 191 191 191	515° P
Plats	Relevant ferrous parts adequately protected against rusting	stal prot prot	N/A
32	RESISTANCE TO RUSTING	pro al oral	PEP
81 als	Appliance does not emit harmful radiation	(5) et 9' of 61 976'	Р
10%	Relevant tests specified in part 2, if necessary	(P) (S) (P) (S) (S)	N/A
pts	Appliance does not present a toxic or similar hazard	151 8th 1 81 15	P
PTS PT	Add at the end: Compliance regarding electromagnetic fields is checked according to EN 50366 or EN 62233.	Pres pres pres	P P
(-2-65)	The ozone concentration produced by ionization is not excessive and shall not exceed 5 x 10/-8	Protect press pr	P
A	ANNEX A (INFORMATIVE) ROUTINE TESTS	atel protect pro	N/A
(a) (a)	Description of routine tests to be carried out by the manufacturer	GI PTS' PTS' PTS' GI	N/A
Bel	ANNEX B (NORMATIVE) APPLIANCES POWERED BY RECHARGEABLE BATTERIES THAT ARE RECHARGED IN THE APPLIANCE		N/A
PTSI PT	The following modifications to this standard are applicable for appliances powered by batteries that are recharged in the appliance	No rechargeable batteries	N/A
5 . 6	Three forms of construction covered:	8 of 21 610 21 4	N/A
ter eter	a) Appliance supplied directly from the supply mains or are newable energy source, the battery charging circuitry and other supply unit circuitry incorporated within the appliance	el prei prei prei prei	N/A
Prot prot	b)The part of the appliance in corporating the battery is supplied from the supply mains or are newable energy source, via a detachable supply unit. The battery charging circuitry is incorporated within the part of the appliance containing the battery	(A) PISI PISI PISI PISI (ISI PISI PISI PISI (ISI PISI PISI PISI PISI	N/A
pts) stal	c)The part of the appliance incorporating the battery is supplied from the supply mains or are newable energy source, via a detachable supply unit. The battery charging circuitry is incorporated within the detachable supply unit	ptsi ptsi ptsi ptsi pt	N/A
1 15	This annex does not apply to battery chargers	tot atel ate	N/A
3.1.9	Appliance operated under the following conditions:	Total pland	N/A
613,	-the appliance, supplied by its fully charged battery, operated as specified in relevant part 2	tel eter eter	N/A



Clause	Requirement + Test	Result - Remark	Verdict
010	19 101 10 10 10 10 10 10 10 10 10 10 10 10	2) M2 M	19 10
PTSI PT	-the battery is charged, the battery being initially discharged to such an extent that the appliance cannot operate	st pist pist pist	N/A
el prel pre	-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	ela prel prel prel	N/A
ofsi ofsi	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	rtal prata prata	N/A
3.6.2	Part to be removed in order to discard the battery is not considered to be detachable	prel prel prel p	N/A
5 .B 101	Appliances supplied from the supply mains tested as specified for motor-operated appliances	st protet pro	N/A
7.1	Battery compartment for batteries intended to be replaced by the user, marked with battery voltage and polarity of the terminals	(5) PTS' PTS' PTS'	N/A
rist prot	The positive terminal indicated by symbol IEC 60417- 5005 and the negative terminal by symbol IEC 60417- 5006	Pro prol prol	N/A
PTSI	Appliances intending to be supplied from a detachable supply unit marked with symbol IEC 60417-6181and its type reference along with symbol ISO 7000-0790 (2004-01), or	erel pret pret pret	N/A
10	Use only with <model designation=""> supply unit:</model>	Pla is ata	N/A
7.6	Additionalsymbols	5' 1 1 15' P	N/A
7.12	The instructions for appliances incorporating batteries intended to be replaced by the user includes required information	ter bler bler bler	N/A
pro'	Details about how to remove batteries containing materials hazardous to the environment given	Provide the state	N/A
7.15	Markings placed on the part of the appliance connected to the supply mains	Parts Proto	N/A
PTD' PTS'	The type reference of the detachable supply unit is placed inclose proximity to the symbol	atal pratat pr	N/A
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	st pret pret pret	N/A
P151	If the appliance can be operated without batteries, double or reinforced insulation required	(a) protein pro	N/A
11.7	The battery is charged for the period described	12 9 Elo	N/A



Clause	Requirement + Test	Result - Remark	Verdict
Clause	Requirement + lest	Result - Remark	Verdict
11.8	Temperaturerise of the battery surface does not exceed the limit in the battery manufacturer's specification; measured (K); limit (K)	si prei prei prei	N/A
(6) (7)	If no limit specified, the temperature rise does not exceed 20K; measured (K)	plants prei	N/A
19.1	Appliances subjected to tests of 19.101, 19.102 and 19.103	ener prever er	N/A
19.B.101	Appliances supplied at rated voltage for 168 h, the battery being continually charged	151 P12 (51) P12)	N/A
19. B.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	al pts pts pts pts	N/A
19. B.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	el prel prel prel	N/A
19.3	The battery does not rupture or ignite	15° 1 9' 15'	N/A
21. B.101	Appliances having pins for insertion into socket-outlets have adequate mechanical strength, checked according to procedure 2 of IEC 68-2-32	PTSI PTSI PTSI PT	N/A
ers' ers	Part of the appliance incorporating the pins subjected to the free fall test, procedure 2, of IEC 60068-2-32, the number of falls being:	orisi prei prei p	N/A
1070	- 100, the mass of part does not exceed 250 g	151 of 51 813	N/A
51 . 81	- 50, the mass of part exceeds 250 g	P. (5) (12)	N/A
PTSI	After the test, the requirements of 8.1, 15.1.1, 16.3 and clause 29 are met	et protet pre	N/A
22.3	Appliances having pins for insertion into socket-outlets tested as fully assembled as possible	al ptal phones	N/A
25.13	An additional lining or bushing not required for interconnection cords operating at safety extra-low voltage	PISI SI PISI PISI	N/A
30.2	For parts of the appliance connected to the supply mains during the charging period, 30.2.3 applies	pres prest p	N/A
P1	For other parts, 30.2.2 applies	at protet pre	N/A
c	ANNEX C (NORMATIVE) AGEING TEST ON MOTORS	s del prete	N/A
PIP PIP	Tests, as described, carried out when doubt with regard to the temperature classification of the insulation of a motor winding	PTSI PTSI PTSI PTSI PTSI	N/A
D	ANNEX D (NORMATIVE) ALTERNATIVE REQUIREMENTS FOR PROTECTED	MOTOPS	N/A



Clause	Requirement + Test	Result - Remark	Verdict
olause		Result - Remark	Verdice
PISI PI	Applicable to protected motors for unattended use, test of 19.7 carried out on a separate sample according to the specification	st ptst ptst ptst	N/A
E) (ANNEX E (NORMATIVE) NEEDLE-FLAME TEST	en etci proi ci	N/A
	Needle-flame test carried out in accordance with IEC 60695-11-5, with the following modifications:	(a) prai prai p	N/A
7	Severities	1 (13) P13	N/A
1 Pro	The duration of application of the test flame is $30 \text{ s} \pm 1 \text{ s}$	rist protect	N/A
9	Test procedure	1 pts 1 pt at	N/A
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	eter of the other	N/A
9.2	The first paragraph does not apply	ats' pres p	N/A
(a) (a)	If possible, the flame is applied at least 10 mm from a corner	al proto prot	N/A
9.3	The test is carried out on one specimen	(15) PT	N/A
	If the specimen does not withstand the test, the test may be repeated on two further specimens, both withstanding the test	oral praint praint	N/A
11	Evaluation of test results	a der pro	N/A
P.Co.	The duration of burning not exceeding 30 s	otel proved p	N/A
2191	However, for printed circuit boards, the duration of burning not exceeding 15 s	st prot prot	N/A
E	AN/AN/AEX F (N/AORMATIVE) CAPACITORS	Projet Platel	N/A
PTSI PTS	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:	rel prel prel pre	N/A
1.5	Terminology	en ter ken	N/A
1.5.3	Class X capacitors tested according to subclass X2	Approved	N/A
1.5.4	This subclause is applicable	9151 Pt2 51	N/A
1.6	Marking	1 812 (51 PTS)	N/A
15	Items a) and b) are applicable	151 otel . P	N/A
3.4	Approval testing	the offer offer al	N/A
3.4.3.2	Table II is applicable as described	(2) 6(2) 6)	N/A
4.1	Visual examination and check of dimensions	ole, 612 =1	N/A



Clause	Requirement + Test	Result - Remark	Verdict
Pin	and the second s	151 PT3 1	19 (e)
51 8	This subclause is applicable	ofs' Princi	N/A
4.2	Electrical tests	ter length of	N/A
4.2.1	This subclause is applicable	613 (c) (c)	N/A
4.2.5	This subclause is applicable	al real of	N/A
4.2.5.2	Only table IX is applicable	atel pres p	N/A
12	Values for test A apply	et ete al	N/A
1 Prof	However, for capacitors in heating appliances the values for test B or C apply	orsi prola	N/A
4.12	Damp heat, steady state	ph pt at at	N/A
1 61.	This subclause is applicable	ets et al	N/A
PIS'	Only insulation resistance and voltage proof are checked	51 PT51 51 PT51	N/A
4.13	Impulse voltage	PTS' SI PI ATSI	N/A
atel	This subclause is applicable	at 9 at 51 pts	N/A
4.14	Endurance	atal praires 9	N/A
(TS)	Subclauses 4.14.1, 4.14.3, 4.14.4 and 4.14.7 applicable	a al protei protei	N/A
4.14.7	Only insulation resistance and voltage proof are checked	Prel prel	N/A
1 pts	Visual examination, no visible damage	(a) (a) (a)	N/A
4.17	Passive flammability test	1 pts) p12 51	N/A
210 45	This subclause is applicable	(a) (P) (a) (a)	N/A
4.18	Active flammability test	pro state	N/A
1370	This subclause is applicable	at atal pra	N/A
G	ANNEX G (NORMATIVE) SAFETY ISOLATING TRAN	NSFORMERS	P P
PIS	The following modifications to this standard are applicable for safety isolating transformers:	No transformer	AS PES
7	Marking and instructions	pts of prats	P
7.1	Transformers for specific use marked with:	to let at la	Р
51 10	-name, trademark or identification mark of the manufacturer or responsible vendor	PTSI PTSI PTSI	P of S
10,5	-model or type reference	P 51 0151 P	Р
17	Overload protection of transformers and associated circuits	Prest prest	N/A
1 PT	Fail-safe transformers comply with subclause 15.5 of IEC 61558-1	PIST PIST ST	N/A



	EN 60335-1 & EN60335-2-	65	
Clause	Requirement + Test	Result - Remark	Verdict
PID	the star less is a less it	tel plant	19 100
22	Construction	pts' pt st	P
PTS' PTSI	Subclauses 19.1 and 19.1.2 of IEC 61558-2-6 are applicable	(s) pts) pts	SI P
29	Clearances, creepage distances and solid insulation	erel place	P
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.	el proto proto proto	P
PTEN PTEN	For insulated winding wires complying with subclause 19.12.3 of IEC 61558-1 there are no requirements for clearances or creepage distances	PTSI PTSI PTSI	N/A
st pr	For windings providing reinforced insulation, the distance specified in item 2c of table13 of IEC 61558-1 is not assessed	pla prai prai prai	N/A
(a) pro-	For safety isolating transformers subjected to periodic voltages with a frequency exceeding 30 kHz, the clearances, creepage distances and solid insulation values specified in IEC 60664-4 are applicable, if greater than the values specified in items 2a, 2c and 3 in table 13 of IEC 61558-1	ptsi ptsi ptsi tsi ptsi ptsi ptsi ptsi ptsi	N/A

H	ANNEX H (NORMATIVE) SWITCHES		N/A
ets)	Switches comply with the following clauses of IEC 61058	3-1, as modified:	N/A
31 810	-The tests of IEC 61058-1 carried out under the conditions occurring in the appliance	ptal ptal ptal	N/A
PTO'	-Before being tested, switches are operated 20 times without load	el prei prei p	N/A
8	Marking and documentation	1 pts 1 pts (s)	N/A
810.	Switches are not required to be marked	ler bis et i	N/A
PISION	However, switches that can be tested separately from the appliance marked with the manufacturer's name or trade mark and the type reference	el prot prot	N/A
13	Mechanism	ater prost	N/A
610°	The tests may be carried out on a separate sample	pland prof	N/A
15	Insulation resistance and dielectric strength	pts, et aler	N/A
15.1	Not applicable	er 8, 421 642)	N/A
15.2	Not applicable	ats' pts' p	N/A
15.3	Applicable for full disconnection and micro- disconnection	al protect protection	N/A
17	Endurance	ates preside	N/A



01	EN 60335-1 & EN60335-2-6	Neuro Dequirement - Test		
Clause	Requirement + Test	Result - Remark	Verdict	
SI P	Compliance is checked on three separate appliances or switches	PISI PISI PISI	N/A	
(a) (a)	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	oral prai prai pr	N/A	
nel pres	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	enst protect prot	N/A	
19 1	Subclause 17.2.5.2 is not applicable	(5) (6) (9	N/A	
ers' ers'	Temperature rise of the terminals not more than 30 K above the temperature rise measured in clause 11 of IEC 60335-1	entil entil entil entil	N/A	
20	Clearances, creepage distances, solid insulation and coatings of rigid printed board assemblies	st proto prot	N/A	
energia	This clause is applicable to clearances and creepage distances for functional insulation, across full disconnection and micro-disconnection, as stated in table 24	est prot prot prot	N/A	
TS' PISI	ANNEX I (NORMATIVE) MOTORS HAVING BASIC INSULATION THAT IS INADEQUATE FOR THE RATED VOLTAGE OF THE APPLIANCE		P	
PTSI P	The following modifications to this standard are applicable for motors having basic insulation that is inadequate for the rated voltage of the appliance:	a profession profession	N/A	
8	Protection against access to live parts	and the star	N/A	
8.1	Metal parts of the motor are considered to be bare live parts	st protest pro	N/A	
11	Heating	ater prover	P	
11.3	Temperature rise of the body of the motor is determined instead of the temperature rise of the windings	tel protei pro	N/A	
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	ptst ptst ptst pts	N/A	
16	Leakage current and electric strength	al protect pre	N/A	
16.3	Insulation between live parts of the motor and its other metal parts not subjected to the test	Phones Presidentes	N/A	
19	Abnormal operation	Past ofst pt	Р	
19.1	The tests of 19.7 to 19.9 not carried out	Printer plaint	N/A	
19. l.101	Appliance operated at rated voltage with each of the following fault conditions:	(5) (1) (5) (5)	N/A	



Clause	Requirement + Test	Result - Remark	Verdict
610	2 (etc) (etc) (etc) (etc) (etc)	(1) (1) (2)	19 10
st pt	- short circuit of the terminals of the motor, including any capacitor incorporated in the motor circuit	etst etst etst	N/A
	- short circuit of each diode of the rectifier	atel pter p	N/A
(2) 6	- open circuit of the supply to the motor	eter plants	N/A
Proprie	- open circuit of any parallel resistor, the motor being in operation	est prover p	N/A
15' 15'	Only one fault simulated at a time, the tests carried out consecutively	151 9151 PT	N/A
22	Construction	ets) 610 tel	N/A
22. I.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	prel prel prel prel	N/A
1 6(2)	Compliance checked by the tests specified for double and reinforced insulation	and related a	N/A
J ats)	ANNEX J (NORMATIVE) COATED PRINTED CIRCUIT	BOARDS	N/A
Nel pro	Testing of protective coatings of printed circuit boards carried out in accordance with IEC 60664-3 with the following modifications:	prel pre pre	N/A
5.7	Climatic sequence	pla al play	N/A
PTSI	When production samples are used, three samples of the printed circuit board are tested	al preta pret	N/A
5.7.1	Cold	Ph. (5) (15) -1	N/A
2191	The test is carried out at -25°C	al atal pla	N/A
5.7.3	Rapid change of temperature	Prei prei prei	N/A
10 at	Severity 1 is specified	ter and the	N/A
5.8.6	Partial discharge extinction voltage	1 8151 Pro-	N/A
Prot	Type A coatings not subjected to a partial discharge test	otal protei pr	N/A
5.9	Additional tests	1 ets) ets	N/A
610	This subclause is not applicable	ats' projet	N/A
ĸ	ANNEX K (NORMATIVE) OVERVOLTAGE CATEGOR	IES	Р
61 PT51	The information on overvoltage categories is extracted from IEC 60664-1	ptal ptal ptal p	P
o151	Overvoltage category is a numeral defining a transient overvoltage condition	(a) (a) (a) (a)	Pe



Clause	Requirement + Test	Result - Remark	Verdict		
st p	Equipment of overvoltage category IV is for use at the origin of the installation	etal ala prate	N/A		
(e) prei	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	ptal ptal ptal ptal	N/A		
	Equipment of overvoltage category II is energy consuming equipment to be supplied from the fixed installation	Category II overvoltage	P		
PTS PT	If such equipment is subjected to special requirements with regard to reliability and availability, overvoltage category III applies	ptel ptel ptel p	N/A		
51 6	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	energia energi	N/A		
PI C	ANNEX L (INFORMATIVE) GUIDANCE FOR THE ME CLEARANCES AND CREEPAGE DISTANCES	ASUREMENT OF	P		
el els	Sequences for the determination of clearances and creepage distances	(5) pt pt pt pt	Р		
M	ANNEX M (NORMATIVE) POLLUTION DEGREE				
151 81	The information on pollution degrees is extracted from IEC 60664-1	proto proto proto	P		
1070	Pollution	19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	P		
a) a	The microenvironment determines the effect of pollution on the insulation, taking into account the microenvironment	st prat prat prat	P		
131 1	Means may be provided to reduce pollution at the insulation by effective enclosures or similar	Platel preter	P		
P. pt	Minimum clearances specified where pollution may be present in the microenvironment	ter pres pres pre	S P		
to. I	Degrees of pollution in the microenvironment	and a star	P		
atel et	For evaluating creepage distances, the following degrees of pollution in the microenvironment are established:	prof prof prof pr	P		
el el p	- pollution degree 1: no pollution or only dry, non- conductive pollution occurs. The pollution has no influence	PTSI PTSI PTSI PTSI P	N/A		
(a) pro	- pollution degree 2: only non-conductive pollution occurs, except that occasionally a temporary conductivity caused by condensation is to be expected	PTSI PTSI PTSI PTS	N/A		
Plant	- pollution degree 3: conductive pollution occurs or dry non-conductive pollution occurs that becomes conductive due to condensation that is to be expected	real provide pre-	P		



Clause	Requirement + Test	Result - Remark	Verdict			
Pip		the let a let				
PIELE	- pollution degree 4: the pollution generates persistent conductivity caused by conductive dust or by rain or snow	st prot prot	N/A			
N	ANNEX N (NORMATIVE) PROOF TRACKING TEST	Protest protect p	S P			
PLO, PLO	The proof tracking test is carried out in accordance with IEC 60112 with the following modifications:	tel pres pres pres	N/A			
5	Test apparatus					
5.1	Electrodes	(5) (1) (1) (3)	N/A			
1 8	The note does not apply	869 . P. 151	N/A			
5.4	Test solutions	a planter aler	N/A			
1 0	Test solution A is used	81° 51 0151 81	N/A			
6	Procedure	al 9 ats1 pts at	N/A			
6.3	Proof tracking test	51 PT5 P	N/A			
(p) [1	Voltage is 100V, 175V, 400V or 600V	ets' P12 151	N/A			
810.00	Note 3 of clause 3 applies	(5) pro al proto	N/A			
al 91	The test is carried out on five specimens	19 10% 1 Pinton 1	N/A			
PTS	In case of doubt, additional test with voltage reduced by 25V, the number of drops increased to 100	atal pratal prata	N/A			
7	Report	ptp at otal	Р			
P PTSI	The report stating if the PTI value was based on a test using 100 drops with a test voltage of (PTI-25) V	otel pretty pretty	P			
0	ANNEX O (INFORMATIVE) SELECTION AND SEQUE CLAUSE 30	ENCE OF THE TESTS OF	P			
151 1	Description of tests for determination of resistance to heat and fire	PTS' PTS' P	P			
P of	ANNEX P (INFORMATIVE) GUIDANCE FOR THE APP STANDARD TO APPLIANCES USED IN WARM DAM		N/A			
PTS!	Modifications applicable for class 0 and 01 appliances h exceeding 150V, intended to be used in countries havin climate and that are marked WdaE		N/A			
st pts	Modifications may also be applied to class 1 appliances exceeding 150V, intended to be used in countries havin climate and that are marked WdaE, if liable to be conne excludes the protective earthing conductor	g a warm damp equable	N/A			
5	General conditions for the tests	12 st atel pto	N/A			
5.7	The ambient temperature for the tests of Clauses 11 and 13 is 40 +3/0	Profest project P	N/A			
7	Marking and instructions	46, 7 6, 421 642,	N/A			
7.1	The appliance marked with the letters WdaE	er der e	N/A			



Clause	Requirement + Test Result - Remark					
010	the second and the second second	15) 18 P	Verdict			
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	st pret plantet	N/A			
	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					
11	Heating	ets at 1 0161 9	N/A			
11.8	The values of Table 3 are reduced by 15 K					
13	Leakage current and electric strength at operating temp	erature	N/A			
13.2	The leakage current for class I appliances not exceeding 0,5 mA					
15	Moisture resistance					
15.3	The value of t is 37 °C					
16	Leakage current and electric strength					
16.2	The leakage current for class I appliances not exceeding 0,5 mA	al protest protest	N/A			
19	Abnormal operation					
19.13	The leakage current test of 16.2 is applied in addition to the electric strength test of 16.3	Prest Prest	N/A			
Q	ANNEX Q (INFORMATIVE) SEQUENCE OF TESTS FO	OR THE EVALUATION OF	rel P			
blo,	Description of tests for appliances incorporating electror	nic circuits	P			
R	ANNEX R (NORMATIVE) SOFTWARE EVALUATION	Pier la la la	N/A			
PIS	Software evaluated in accordance with the following clar 60730-1, as modified	uses of Annex H of IEC	N/A			
7.12	DENMARK: Requirements regarding marking tag of power supply cord and connection of earthing wire for class I appliances delivered without a plug	rel product prol	N/A			
H.2	Definitions	1 35' PT 21	N/A			
eter.	Only definitions H.2.16 to H.2.20 applicable	at the state	N/A			
H.7	Information	ets' placet	N/A			
Pto ptol	Only footnotes 12) to 18) of Table 7.2, as modified, applicable	at protection of the protection	N/A			
H.11.12	Controls using software	1 pts/ pts/ 5/	N/A			
P(2) 151	All the subclauses of H.11.12, as modified, except H.11.12.6 and H.11.12.6.1, applicable	ist protest prot	N/A			
H.11.12.7	Delete text	P 51 612 8	N/A			



Clause	Requirement + Test	Result - Remark	Verdict			
Jiause	ווייין איז	Neour - Nemark	veruict			
H.11.12.7. 1	channel with self-test and monitoring structure, the manufacturer provides the measures necessary to address the fault/errors in safety related segments and data					
H.11.12.8	Software fault/error detection occurs before compliance with 19.13 of IEC 60335-1 is impaired	(a) prairies pro	N/A			
H.11.12.8. 1	Replace text	913 mail 9151	N/A			
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	rest press	N/A			
ZA	ANNEX ZA (NORMATIVE) SPECIAL NATIONAL CON	DITIONS	P			
7.12	DENMARK: Requirements regarding marking tag of power supply cord and connection of earthing wire for class I appliances delivered without a plug	et protet prot	N/A			
19.5	NORWAY: The test is also applicable to appliances intended to be permanently connected to fixed wiring	PTS' SI PTS' STS'	N/A			
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	Pres pres pres	N/A			
25.6	BELGIUM, FRANCE, SPAIN, UNITED KINGDOM: Plugs according to standard sheet C2b not allowed	ptpl ptpl	en P			
proprol	AUSTRIA, FINLAND, GERMANY, ICELAND, IRELAND, ITALY, LUXEMBOURG, NETHERLANDS, NORWAY, PORTUGAL, SPAIN, SWEDEN, SWITZERLAND, UNITED KINGDOM: Plugs according to standard sheet C3b not allowed	PISI PISI PISI PI	PIS PIS			
tal pla	DENMARK: Supply cords of single-phase portable appliances having a rated current not exceeding 13 A provided with a plug according to the following:	Prest prest prest	N/A			
A bla	Class I appliances: Section 107-2-D1, ed.3 1998, Standard Sheet DK 2-1a	Its Hel Pres	N/A			
pro- pro-	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	prot prot prot pro	N/A			
P151	Class II appliances: Section 107-2-D1, ed.3 1998, Standard Sheet C1b, C5, C6, DKA 2-1a and DKA 2-1b	of profest of prot	N/A			
st pt	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	pts pts pts pts pts pts	N/A			
(a) p	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:	en etel etel etel	N/A			



Clause	Requirement + Test	Result - Remark	Verdict
610	Price and the start of the star	al pla pla	19 10
s1 8	Class I appliances: Section 107-2-D1, Standard Sheet DK 6-1a / EN 60309-2, Standard Sheet 2-II, 2-IV	PIST PIST	N/A
el etel	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	etsi prei prei pr	N/A
Pro to	The current for the plug not exceeding the values specified; standard sheet (no.); current (A) :	tel states by	N/A
101'87	IRELAND: Only plugs according to Standard Sheets B2 and C5 allowed (see also Annex ZB)	Profession proves	N/A
1 81 85	ITALY: Only plugs listed in CENELEC Report R0BT- 005:2001 allowed	15, 61 6 61 6	N/A
PTS' ASI	SPAIN: For appliances for household use, only the following plugs are allowed:	al provide provide	N/A
51 8	according to UNE 20315: ESC 10-1b, C2b, C4, C6 or ESB 25-5b	PIE 1 21 212	N/A
3(5)	according to UNE-EN 50075	5' 1 at 5' pt	N/A
PTS) PTS	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:	Protein prei prei	N/A
PISI	SEV 6532-2.1991, plug type 15, 3P+N+PE, 250/400 V, 10 A	otal pratici prati	N/A
1 81	SEV 6533-2.1991, plug type 11, L+N, 250 V, 10 A	19 1 P. 151	N/A
12 19	SEV 6534-2.1991 plug type 12, L+N+PE, 250 V, 10 A	al prover als	N/A
9 10	UNITED KINGDOM: Only plugs according to Standard Sheets B2 and C5 allowed (see also Annex ZB)	Pro pro pro pro	N/A
25.8	IRELAND, UNITED KINGDOM: replacement of figures (rated current/cross-sectional area) in the table	st property pr	N/A
ZB	ANNEX ZB (INFORMATIVE) A-DEVIATIONS	pta ptates	P
4	SWITZERLAND: Information about batteries with carbon-zinc and alkali-manganese	ter la ter la	N/A
7.1	ITALY: The voltage is 220 V/380 V	APA PART	N/A
25.6	IRELAND: These regulations apply to all plugs for domestic use at a voltage of not less than 200 V and allow only plugs complying with I.S. 401:1997, or equivalent, to be fitted to domestic appliances.	prest prest prest prest	N/A
el prese	UNITED KINGDOM: These regulations apply to all plugs for domestic use at a voltage of not less than 200 V and allow only plugs to BS 1363 to be fitted to domestic appliances. It also allows plugs to BS 4573 and standard sheet C5 to be fitted to shavers and toothbrushes.	PTS	P
zc	ANNEX ZC (NORMATIVE) NORMATIVE REFERENCE	S TO INTERNATIONAL	P



Clause	Requirement + Test	Result - Remark	Verdic		
010	the start of the second second	10 10 P	19 12		
st p	This Standard incorporates provisions from the publications listed	PISI PISI PISI	P		
zc	Add: (EN 60335-1/A14)	ofst prot p	P		
	-Safety of household and similar electrical appliances – Interpretations related to European Standards within the scope of CENELEC/TC 61- CLC/TR 50417	est prest prest prest	P		
151 5151	-Household and similar electrical appliances - Electromagnetic fields - Methods for evaluation and measurement- EN 50366	el erel erel erel	P		
ptal pt	-Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure- EN 62233	Prest property	P A		
ZD	ANNEX ZD (INFORMATIVE) IEC and CENELEC CODE DESIGNATIONS FOR FLEXIBLE CORDS				
e15	A list of code designations for different types of flexible cords	etal prata pla	N/A		
ZE	ANNEX ZE (INFORMATIVE) SPECIFIC ADDITIONAL REQUIREMENTS FOR APPLIANCES AND MACHINES INTENDED FOR COMMERCIAL USE				
7,6	Marking and instructions	(" (B) (P'))	N/A		
7.1	Modification	151 gts , 910	N/A		
1 6	Replace the fourth and fifth dashed items by:	oto prod	N/A		
PIS	-business name and full address of the manufacturer and, where applicable, his authorized representative;	al protei proi	N/A		
9 19 6	-model or type reference, serial number, if any, and production year;	PEAL PLAN	N/A		
615	Add a new dashed item:	ast prot pro	N/A		
51	-designation of the appliance.	to atal prairel	N/A		
7.12	Modification	ter pres printe	N/A		
8	Replace the first sentence in the requirement by:	oter prover	N/A		
eter.	Instructions shall be provided with the appliance so that the appliance can be used safely.	ISI PISI PISI	N/A		
1	Add:	ater prost	N/A		
PIS' pIS'	The instructions shall contain at least the following information:	of profest prof	N/A		
1 (c) 4	the business name and full address of the manufacturer and, where applicable, his authorized representative;	st ptst ptst ptst	N/A		
e) ?	model or type reference of the appliance as marked on the appliance itself, except for the serial number;	ata prata	N/A		
otsi	the designation of the appliance together with its explanation in case it is given by a combination of letters and/or numbers.	tel per per pe	N/A		



Clause	Requirement + Test	Result - Remark	Verdict
ciause	Requirement + lest	Result - Remark	Veruici
st pr	the general description of the appliance, when needed due to the complexity of the appliance;	PIS' PIS' PIS'	N/A
(s) (stal	specific precautions if required during installation, operation, adjusting, user maintenance, cleaning, repairing or moving;	etsi etsi etsi et	N/A
PTS	when needed drawings, diagrams, descriptions and explanations necessary for the safe use and user maintenance of the appliance;	Parts pro p	N/A
PTSI	the possible reasonably foreseeable misuse and, whenever relevant, a warning against the effects it may have on the safe use of the appliance;	P P P P	N/A
7.12.Z1	Wherever needed for specific appliances, information shall be given:	al prestore of	N/A
etsi etsi	on use, transportation, assembly, dismantling when out of service, testing or foreseeable breakdowns, if these operations have consequences on stability of the appliance in order to avoid overturning, falling or uncontrolled movements of the appliance or of its component parts;	en erst erst erst erst erst erst erst erst	N/A
Pro' pro	on how to maintain adequate mechanical stability when in use, during transportation, assembly, dismantling, scrapping and any other action involving the appliance;	to prove of the	N/A
Planter Planter	on the protective measures to be taken by the user, including, where appropriate, the personal protective equipment to be provided;	ptal ptal ptal	N/A
si ptal	on the operating method to be followed in the event of accident or breakdown; if a blockage is likely to occur the operating method to safely unblock the appliance;	proto proto proto	N/A
PTS) PTS)	on the specifications on the spare parts to be used, when these affect the health and safety of the operator;	stal ptal ptal p	N/A
"Pts"	on airborne noise emissions, determined and declared in accordance with the relevant Part 2. This includes:	tel protet pres	N/A
rist pro	-the A-weighted emission sound pressure level at workstations, where this exceeds 70 dB(A); where this level does not exceed 70 dB(A), this fact shall be indicated,	prel prel prel pre	N/A
pts! p	-the peak C-weighted instantaneous sound pressure value at workstations, where this exceeds 63 Pa (130 dB in relation to 20 μ Pa),	al prest prest prest	N/A
st pt	-the A-weighted sound power level emitted by the machinery, where the A-weighted emission sound pressure level at workstations exceeds 80 dB(A).	ph ptst ptst ptst	N/A
19	Abnormal operation	ate provide	N/A
19.11.4.8	Replace the second paragraph by:	Se . 8	N/A



Clause	Requirement + Test	Result - Remark	Verdict		
010			10 10		
el prel prel el prel	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.	st prest prest prest	N/A		
20	Stability and mechanical hazards	al 1 of 51 pro.	N/A		
20.1	Add at the end:	15' PTS' 1	N/A		
atel ptel	Appliances and their components and fittings shall have adequate mechanical stability during transportation, assembly, dismantling and any other action involving the appliance.	nel prel prel pre	N/A		
PTS' PTS'	Compliance is checked by verifying the instruction and by the relevant tests, if necessary, as specified in the relevant Part 2.	ptel pter pter pte	N/A		
20.2	Replace the requirements and notes by:	1 P1 151 P151	N/A		
(a) eral	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.	prest prest prest pr	N/A		
21	Mechanical strength	(5) PT= 1	N/A		
21.1	Replace the first paragraph by:	ale Bra	N/A		
pts pts	Appliances and their components and fittings shall have adequate mechanical strength and 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.	PISI PISI PISI PISI PISI PISI PISI PISI PISI SI PISI PI	N/A		
22	Construction	1 P (5) PE	N/A		
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.		N/A		
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. For appliances provided with one device performing the start and the stop function, the stop function shall be unambiguously identifiable and shall always override the start function.	PTSI PTSI PTSI PTSI PTSI PTSI PTSI PTSI PTSI	N/A		
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.				
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.	tal prat prat prat	N/A		



Clause	Requirement + Test	Result - Remark	Verdict
610	2 (() () () () () () () () ()	and the start	8
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.	st prot prot prot	N/A
22.ZE.6	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.	elsi proi proi pri elsi proi proi proi elsi proi proi proi etsi proi proi proi	N/A
ZF	ANNEX ZF (INFORMATIVE) CRITERIA APPLIED FOR PRODUCTS COVERED BY STANDARDS IN THE EN or MD		P
PIS'	Criteria applied for the allocation of products covered by standards in the EN 60335 series under LVD or MD	at prat prates	P
(5) (5) (5)	This guide has been prepared by CENELEC/TC 61 based on the discussions with the group of experts set up by the EU Commission to manage the application of the Machinery Directive (2006/42/EC).	ental ental ental ental	PTSI PTSI
nel prel	EN 60335-1, General requirements	To be listed under LVD (2014/35/EU) To be listed under MD (2006/42/EC)	PTS PTS
ZG	ANNEX ZG (INFORMATIVE) UV APPLIANCES	1 " 19 10 L	N/A
7 0	Marking and instructions	10 10 10 10 10 10	N/A
7.12.ZG	The instructions for appliances incorporating UVC emitters shall include the substance of the following:	Presi presi p	N/A
et ete	WARNING — This appliance contains a UV emitter. Do not stare at the light source	RIS PISTS P	N/A
32	Radiation, toxicity and similar hazards	phinst pts)	N/A
rist pre-	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.	PTSI PTSI PTSI PTSI P	N/A
ofer pr	NOTE: Examples of appliances that may incorporate UVC emitters are range hoods, air cleaners and finger nail hardeners.	PISI PISI PISI PI	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
ANNEX E	MF EN 62233 : 2008	atel pres press	Ma M
	The Tested product also complies to the requi	rements of EN 62233 : 2008	1000
1	Limit100%	st plant tet p	P

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10.1		er input deviation	S	(5)		P	
Input devia	ation of/at:	P rated (W)	P measured (W)	dP	Required dP	Remark	
220V/50Hz	z del pre	960	868	-9.6%	+15%	Normal wor	
230V/50Hz	Z	960	897	-6.5%	+15%	Normal wor	
240V/50Hz	zə) shi a	960	913	-4.9%	+15%	Normal wor	
10.2	TABLE: Curre	ent deviation	lever by	151	15) Pr	N/A	
Input devia	ation of/at:	I rated (A)	I measured (A)	dl	Required dl	Remark	
15' (¹ (5) (²)		1 1 1 x51	P15' - P1	19 - 10	a Protect	215°	
10.8 TABLE: Heating test, t		ing test, thermoco	ouples	810° -1	1 100	P	
	Test voltage (V)	:	25	4.4V/50Hz	- 8	
	Ambient t1 (°C	C)	:	a la	24.1°C	- 12	
		C)		100	25°C	- 2	
Thermoco	uple locations		dT (K)		Max.	dT (K)	
Power core	d insulation	8 ¹⁰ 251 0	7.3	d5	8 2 5	50	
Switch	79 125	1 1 A	9.7	1 640		50	
Tube on in	put wire	61 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	23.6		35		
Ballast sur	face	it atsi	27.8		45		
Metal encl	osure inside nea	r ballast	21.7		Ref.		
Metal encl	osure outside ne	ar ballast	10.3		60		
Lamp body	y surface	(a) eta a)	29.7		Ref.		
Lamp term	ninal	845° 8	36.4		Ref.		
AC connec	ctor J1	P10 10	20.6		6	50	
Varisotor F	R5	219 at 1 atel	34.8		Ref.		
X capacito	r C1	1000	44.7		75		
Ycapacitor	⁻ C5	at at	47.2		60		
Relay IS1	ets'	pt of	37.3		60		
Optocouple	er U3	1279 12	42.4		85		
T2 bobbin	P19 61 P	a(5) (5)	61.8		Ref.		
T2 winding		eles by	64.3		85		
PCB near	T2	(S) . 812 .51	46.4		1	05	
Light LED	surface	P19 21 9	18.9		R	ef.	
Metal enclosure inside near T2		r T2	33.2		R	ef.	
Metal enclosure outside near T2		ar T2	22.7	151 8	6	50	
10.8	TABLE: Heati	ing test, thermoco	ouples	1979 S	1999	N/A	
		V)		191	(5) P(5)		
		C)		12	15/ 9		



Heating appMotor-opera1.06 x ratedLeakage current betweenLive parts to metal enclosLive parts to handler13.3TABLE: EleTest voltage applied betwLive parts to metal enclosPCB primary to output for14TABLE: TraClearance between:16.2TABLE: LeaSingle phasdivided by nLeakage current betweenLive parts to metal enclosSingle phas16.2TABLE: LeaSingle phasLive parts to metal enclosLive parts to metal enclosPCB primary to output for17TABLE: Ov	(°C)		:			
Heating app Motor-opera 1.06 x rated Leakage current between Live parts to metal enclos Live parts to handler 13.3 TABLE: Ele Test voltage applied betw Live parts to metal enclos PCB primary to output for 14 TABLE: Tra Clearance between: 16.2 TABLE: Lea Single phas divided by v Leakage current between Live parts to metal enclos Live parts to metal enclos	ing	R ₁ (Ω)	R ₂ (Ω)	dT (K)	Max. dT (K)	Insulation class
Heating app Motor-opera 1.06 x rated Leakage current between Live parts to metal enclos Live parts to handler 13.3 TABLE: Ele Test voltage applied betw Live parts to metal enclos PCB primary to output for 14 TABLE: Tra Clearance between: 16.2 TABLE: Lea Single phas divided by v Leakage current between Live parts to metal enclos Live parts to metal enclos	Sig. et	1 - 12	a	101 - 6(0)	el ····································	(A2)
Motor-opera 1.06 x rated Leakage current between Live parts to metal enclos Live parts to handler 13.3 TABLE: Ele Test voltage applied betw Live parts to metal enclos PCB primary to output for 14 TABLE: Tra Clearance between: 	akage current	1 9 10	ar5)	10,019	0161 0	P
1.06 x ratedLeakage current betweenLive parts to metal enclosLive parts to handler13.3TABLE: EleTest voltage applied betwLive parts to metal enclosPCB primary to output for14TABLE: TraClearance between:	liances: 1.15	x rated input	:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- Projet	· —
Live parts to metal enclose Live parts to handler 13.3 TABLE: Electronic for Test voltage applied betw Live parts to metal enclose PCB primary to output for 14 TABLE: Transport Clearance between: 16.2 TABLE: Leatronic for 16.2 Single phase Three phase divided by variable Leakage current between Live parts to metal enclose Live parts to metal enclose TABLE: Electronic for 16.3 TABLE: Electronic for 16.3 TABLE: Cov		bined appliance		1.06x240	V=254.4V	é —
Live parts to handler 13.3 TABLE: Ele Test voltage applied betw Live parts to metal enclose PCB primary to output for 14 TABLE: Tra Clearance between: 16.2 TABLE: Lea Single phas divided by \scalar Leakage current between Live parts to metal enclose PCB primary to output for TABLE: Ele Table parts to metal enclose PCB primary to output for TABLE: Ov	า			l (mA)	Max. allo	wed I (mA)
13.3 TABLE: Ele Test voltage applied betw Live parts to metal encloss PCB primary to output for 14 TABLE: Tra Clearance between: 16.2 TABLE: Lea Single phas divided by \notage Live parts to metal enclose Single phas Three phas divided by \notage Leakage current between Live parts to metal enclose Live parts to handler 16.3 TABLE: Ele Test voltage applied betw Live parts to metal enclose PCB primary to output for 17 TABLE: Ov	sure	1 81 at 51	815) at	0.77	< 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1	3.5
Test voltage applied betw Live parts to metal enclose PCB primary to output for 14 TABLE: Tra Clearance between: 	Ster PI	19 (D)	5 810	0.21	1 92 101	3.5
Live parts to metal enclos PCB primary to output for 14 TABLE: Tra Clearance between: 16.2 TABLE: Lea Single phas Three phas divided by v Leakage current between Live parts to metal enclos Live parts to metal enclos Live parts to metal enclos Live parts to metal enclos Live parts to metal enclos PCB primary to output for 17 TABLE: Ov	ectric strength	1 910° A	eter ter	810° 1 9	151 10	Р
PCB primary to output for 14 TABLE: Tra Clearance between: 16.2 TABLE: Lea Single phas Three phas divided by \ Leakage current between Live parts to metal enclos Live parts to metal enclos Live parts to metal enclos PCB primary to output for 17 TABLE: Ov	veen:			Voltage (V)		kdown s/No)
14 TABLE: Tra Clearance between: Clearance between: 16.2 TABLE: Lea Single phas Three phas divided by \ Cleakage current between Leakage current between Cleakage current between Live parts to metal enclose Cleakage current between TABLE: Ele TABLE: Ele Test voltage applied betw Cleakage current between Live parts to metal enclose Cleakage current between TABLE: Cov TABLE: Ov	Live parts to metal enclosure (for whole EUT)			1000	51 9	No
Clearance between: TABLE: Lea Single phas Three phas divided by \ Leakage current between Live parts to metal enclos Live parts to metal enclos Live parts to metal enclos PCB primary to output for TABLE: Ov	r main board)	121 613	-S1 3	3000 No		No
TABLE: Lea 16.2 TABLE: Lea Single phas Three phas divided by \ Leakage current between Live parts to metal enclos Live parts to handler 16.3 TABLE: Ele Test voltage applied betw Live parts to metal enclos PCB primary to output for 17 TABLE: Ov	insient overvo	oltages	15°	PT-151	19 N 91	N/A
Single phas Three phas divided by \ Leakage current between Live parts to metal enclos Live parts to handler 16.3 TABLE: Ele Test voltage applied betw Live parts to metal enclos PCB primary to output for 17 TABLE: Ov		CI (mm)	Required C (mm)	CI Rated impulse voltage (V)	Impulse test voltage (V)	Flashove (Yes/No)
Single phas Three phas divided by \ Leakage current between Live parts to metal enclos Live parts to handler 16.3 TABLE: Ele Test voltage applied betw Live parts to metal enclos PCB primary to output for 17 TABLE: Ov	as as	કે ્ર ને જે ત	1 -10	191 <u>2</u>	((=)	13. 89
Three phas divided by \Leakage current between Live parts to metal enclose Live parts to handler16.3TABLE: Ele Test voltage applied betwLive parts to metal enclose PCB primary to output for TABLE: Ov	akage current	Plant P	9 123	(5) (c)	2 22	P
divided by Leakage current between Live parts to metal enclos Live parts to handler 16.3 TABLE: Ele Test voltage applied betw Live parts to metal enclos PCB primary to output for 17 TABLE: Ov	Single phase appliances: 1.06 x rated voltage :			1.06x240V=254.4V		—
Live parts to metal enclose Live parts to handler 16.3 TABLE: Ele Test voltage applied betw Live parts to metal enclose PCB primary to output for 17 TABLE: Ov	e appliances ´ /3:	1.06 x rated vo	ltage :	ptal ptal	151 0151	
Live parts to handler 16.3 TABLE: Ele Test voltage applied betw Live parts to metal enclose PCB primary to output for 17 TABLE: Ov	า			l (mA)	Max. allo	wed I (mA)
16.3TABLE: EleTest voltage applied betwLive parts to metal enclosePCB primary to output for17TABLE: Ov	sure	ale les	19, 1 6,	0.78 3.5		3.5
Test voltage applied betwLive parts to metal enclosPCB primary to output for17TABLE: Ov	Pro-C	1 pts	(PT- 51	0.19	P 25	3.5
Live parts to metal enclos PCB primary to output for 17 TABLE: Ov	ectric strength	Pro al	ater pt	De la	1 12	P
PCB primary to output for 17 TABLE: Ov	Test voltage applied between:			Voltage (V) Breakd (Yes/N		
17 TABLE: Ov	Live parts to metal enclosure (for whole EUT)		1250 No		No	
	r main board)	Pt (SI	PISI	3000	(S) (S)	No
	17 TABLE: Overload protection, temperature rise		ture rise	151 pts	at anti	N/A
Temperature rise of part/	at:			dT (K)	Max.	dT (K)
to tail the tail the tail			a at	A 48	o151	- 912



	Test voltage (V)		:	(2) 610	er 15		
	Ambient t1 (°C)		:	212, 0	191 1	- 3	
	Ambient t2 (°C)		:	1 Planet	- etc.		
Tempera	ture rise of winding		R ₁ (Ω)	R ₂ (Ω)	dT (K)	T (°C)	Max. T (°C	
(6)	etter in ater	See.	100-10	· 6 (2)	10 1	Ele.	19 ¹	
19.9	TABLE: Abnor	mal operati	ion, running o	verload	ats) pro	10 12	N/A	
	Test voltage (V)		:	25	et alst	ý -	
	Ambient t1 (°C)		:	5 . P	1 195		
	Ambient t2 (°C				\$10 El	15/ 8		
Tempera	ture rise of winding		R ₁ (Ω)	R ₂ (Ω)	dT (K)	T (°C)	Max. T (°C	
- 619	a) (10)	ets'	15	19 -	251-10	6	101 - 10	
19.11	TABLE: Abnor	mal operati	ion tests	1 2 25	1 919	Phones I	P	
Ambient Temperature (°C)					25	.2°C		
No.	Component no.	Fault	Test voltage (v)	Test time		Result		
1	U5 pin g/s	S-C	240V	1s	Unit stop working at once, no hazard.			
2	U5 pin d/s	S-C	240V	1s	Fuse opened, No hazard.			
3	U5 pin d/g	S-C	240V	🕒 1s 🛛	Fuse opened, No hazard.			
4	U1 pin1/4	S-C	240V	1s	Unit stop work	ing at once, n	o hazard.	
5	C4	S-C	240V	1s	Fuse opened, I	No hazard.	pist	
6	C11	S-C	240V	1s	Fuse opened, I	No hazard.	tel pr	
19.13	TABLE: Abnor	mal operati	ion, temperatu	ure rises	1 PT -	25	N/A	
Thermoc	ouple locations		dT	(K)		Max. c	IT (K)	
13	pts pt ats	619)	at atat	- bla,	al prints	1219 A	l'eter	
21	TABLE: impac	t resistance	AS 8	(a) _ (b)	del pte	to Par	P	
Impac	ts per surface	Surface te	ested times	Impact	energy (nm)	Con	nments	
12. 99	Тор	Th	ree	al a	0.5 No		amaged	
180	Side	Th	nree	atel	0.5		amaged	
(a)	Bottom	s\ Th	iree	19	0.5	No d	amaged	
1015	Front	K Th	nree	197	0.5	No d	amaged	
51	Rear	C ¹ [≥] Th	Three 0.5		0.5 No damaged			
\$(9)	Hander	Th	nree	19 10	0.5	No d	amaged	
suppleme	entary information:	10,19	130	(Engl)	15	C las	ot51 8	
24.1	TABLE: Comp	onents	(e) . 65	9 12	5 919 49	1 1919	P	
Object / p	oart No. Manufactu trademark		ype / model	Technical data Standard Mark(s) conformi				



Fuse	Electronics Co., Ltd.		F10AL250VAC	EN 60127-1 EN 60127-2	VDE 40008022	
-Fuse holder	se holder SHIN CHIN INDUSTRIAL CO LTD		250 VAC, 1 A Min	UL 4248-1	UL E72169	
Switch	Zhejiang Zhongxun Electronics Co., Ltd.	KCD1	6(4) A, 250 VAC Plastic enclosure of power switch : V-0, 75 °C	EN 61058-1	TUV R50049218	
Alternative	Zhejiang LECI Electronics Co., Ltd.	RS601 series	6(4) A, 250 VAC Plastic enclosure of power switch : V-0, 75 °C	EN 61058-1	VDE 40017430	
Input wire(Red, Blue, Yellow- Green)	Blue, Yellow- DONG JU WIRE		600 V, Min 18 AWG, 105 °C, VW-1	UL 758	UL E189674	
Alternative	Various	1015	Min 300 V, Min 18 AWG, 105 °C, VW-1	UL 758	UL	
-Heat-shrinkable tube	GUANGZHOU KAIHENG NEW MATERIAL CO LTD	K102(+)	600 V, 125 °C, VW-1	UL 224	UL E321827	
Alternative	GUANGZHOU KAIHENG ENTERPRISE GROUP	K-2(+)	600 V, 125 °C, VW-1	UL 224	UL E214175	
UV lamp	Foshan Comwin light & electricity co., Ltd	GZW120D15W/ Y-Z1148 G10Q	254NM,150V	EN 61199 EN 60901 EN 61347- 1/2	BSTDG1605682 865SC-2	
For power board	a de la	1 (B)	1 8 15 8	2. 8.	el 112	
AC connector	ZHEJIANG JINDA ELECTRONICS CO LTD	3.96T-02	250 VAC, 7 A	UL 1977	UL E237523	
Alternative	LAND WIN ELECTRONIC CORP	3961P	250 VAC, 7 A	UL 1977	UL E159426	
Alternative ZHEJIANG ZHUOLI ELECTRONIC CO LTD		ZL3963-A	250 VAC, 7 A	UL 1977	UL E239965	



Fuse F1	Fuse F1 Hollyland Company Limited		F2AL250V	EN 60127- 1, EN 60127-2	VDE 40014477	
Alternative	Alternative Suzhou Littelfuse OVS Ltd.		F2AL250V	EN 60127- 1, EN 60127-2	VDE 40014645	
X capacitor C1	Ultra Tech Xiphi Enterprise Co., Ltd.	HQX	0.1 uF, 275 VAC, X2 type, 40/100/21/C	EN 60384- 14	VDE 40024534	
Alternative	Shenzhen Tongfeng Electronics Co., Ltd.	CBB62	0.1 uF, 275 VAC, X2 type, 40/100/21/C	EN 60384- 14	VDE 40031777	
Alternative	Dongguan Easy-gather Electronic Co., Ltd.	МКР-Х2	0.1 uF, 275 VAC, X2 type, 40/100/21/C	EN 60384- 14	VDE 40022258	
Y capacitor C5 Hsuan Tai Electronic Co., Ltd.		CY	2200 pF,250 VAC, Y2, 40/085/21/C	EN 60384- 14	VDE 118413	
Alternative JUHONG ELE. COMPANY		JA	2200 pF,250 VAC, Y2, 25/085/21/C	EN 60384- 14	VDE 40035340	
Varistor R5 Joyin Co., Ltd.		10D471K	Clamping voltage: 550Vac/745Vdc max.Withstanding surge current: 6000A max.	EN 61058-1	VDE 40004658	
Optocoupler U3	Everlight Electronics Co., Ltd.	EL 817	Cr≥8.0 mm, Cl≥8.0 mm, Di≥0.4 mm, 55/110/21	EN 60747- 5-2	VDE 132249	
Relay LS1/LS2	Ningbo Songle Relay Co., Ltd.	SRD-12VDC- SL-A	10A 250VAC 10A 30VDC	EN 61810-1	TUV R 50137084	
Transformer T2	You Shi Liang	EE16	Class B	EN 60065	Tested with appliance	
-Bobbin	CHANG CHUN PLASTICS CO LTD	T200HF	V-0, 150 ℃	UL 94	UL E59481	
-Wire	SHANTOU SHENGANG ELECTRICAL INDUSTRIAL CO LTD	UEW/130	130 °C	UL 1446	UL E239508	
-Tape	JINGJIANG JINGYI ADHESIVE PRODUCT CO LTD	JY25-A (b)	130 °C	UL 510	UL E246950	



-Tube	DONGGUAN LING FREE HARDWARE PLASTICS PRODUCT CO LTD	LING FREE PTFE TUBE	200 °C, 300V, VW-1	UL 224	UL E352366	
PCB SHENZHEN VICTORY ELECTRTONIC		F-D	V-0, 130 ⁰C	UL 796	UL E254215	
19 10 C	TECHNOLOGY CO LTD	atel atel	51 PTS1 PT	5 8 8	al ale a	
Alternative	Various	Various	V-0, 130 °C	UL 796	UL	
Mylar film	Mylar film KANGLONGXIN PLASTICS CO LTD		V-0, 80 °C	UL 94 UL 746	UL E315185	
Alternative	MIANYANG LONGHUA FILM CO LTD	PC-770	V-0, 80 °C	UL 94, UL 746	UL E254551	
Alternative	SABIC JAPAN L L C	FR500	V-0, 80 °C	UL 94, UL 746	UL E207780	

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risk indicates a mark which assures the agreed level of surveillance

28.1	TABLE: Thread	led part torque test	P	
Threaded	part identification	Diameter of thread (mm)	Column number (I, II, or III)	Torque(Nm)
Enclosure	er brat	2.89	ore, 6, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	0.5
Enclosure	Pto 12 of	4.85	10 100 MIL 100 100 100	2.0
Enclosure	10,00	5.25	15 P 15 P15	2.0
Enclosure	it is it	3.93	6/2 at 11 2(2) 6/2	1.2

29.1	TABLE: Clear	rances	2. 6. 3	st pts'				
	Overvoltage c	ategory:		PLS.	1 81° 251 11 25			
			Type of	insulation				
Rated impuls voltage (V)		Basic	Functional	Supplementary	Reinforced	Verdict / Remark		
330	0,5*	151- 10	1 - de	12	set 1	N/A		
500	0,5*	100	4	19 _ P	-45)	N/A		
800	0,5*	(2) - 6/2 d	1 2 45	Pla -1	221 - 613	N/A		
1500	0,5*/**	PT- 1 P	19 - 130	13-15	10-19	N/A		
2500	1,5**	4.1	1. 29	19 -20	1 - 1 - N	Р		
4000	3,0**	Start of	5 <u> </u>	5 25	10 al 1	N/A		



6000	5,5**	- 1- de	20	4	12 N 18	N/A
8000	8,0**	1 the 1	10, - 61	1 -10	1000	N/A
10000	11,0**	al take	10-19	ale, 64	101 - 101	N/A

*) The value is increased to 0,8mm for pollution degree 3 **) If the construction is affected by wear, distortion, movement of the parts or during assembly, the value is increased by 0,5 mm

Basic insulation:

L to N: CI=4.1mm, Cr=5.1mm.

Working voltage (V)		Creepa	age dist	ance (mm) / Pollu	ition deg	ree			—	
	1		2			3		Туре	of insu	lation	—
		М	aterial g	group	N	laterial g	roup				
		I	П	IIIa/IIIb	I	Ш	IIIa/IIIb	B* ⁾	S*)	R* ⁾	Verdict
≤50	0.2	0.6	0.9	1.2	1.5	1.7	1.9	420	10	25	N/A
≤50	0.2	0.6	0.9	1.2	1.5	1.7	1.9	1		-	N/A
≤50	0.4	1.2	1.8	2.4	3.0	3.4	3.8	N.	1	25)	N/A
>50 and ≤125	0.3	0.8	1.1	1.5	1.9	2.1	2.4	1	(a)	-	N/A
>50 and ≤125	0.3	0.8	1.1	1.5	1.9	2.1	2.4	de la	.81	1	N/A
>50 and ≤125	0.6	1.6	2.2	3.0	3.8	4.2	4.8	4	1	810	N/A
>125 and ≤250	0.6	1.3	1.8	2.5	3.2	3.6	4.0	>2.5	87	54	P
>125 and ≤250	0.6	1.3	1.8	<u>2.5</u>	3.2	3.6	4.0	2	>2.5	45	Р
>125 and ≤250	1.2	2.6	3.6	<u>5.0</u>	6.4	7.2	8.0	1	35	>5.0	P
>250 and ≤400	1.0	2.0	2.8	4.0	5.0	5.6	6.3	19	-	10	N/A
>250 and ≤400	1.0	2.0	2.8	4.0	5.0	5.6	6.3	1	19	610	N/A
>250 and ≤400	2.0	4.0	5.6	8.0	10.0	11.2	12.6	<u>(6)</u>	810	100	N/A
>400 and ≤500	1.3	2.5	3.6	5.0	6.3	7.1	8.0	612	-	20-01	N/A
>400 and ≤500	1.3	2.5	3.6	5.0	6.3	7.1	8.0	-	1	5	N/A
>400 and ≤500	2.6	5.0	7.2	10.0	12.6	14.2	16.0	1	1	ater	N/A
>500 and ≤800	1.8	3.2	4.5	6.3	8.0	9.0	10.0	1	1	-9	N/A
>500 and ≤800	1.8	3.2	4.5	6.3	8.0	9.0	10.0	1	-9	(<u>9)</u>	N/A
>500 and ≤800	3.6	6.4	9.0	12.6	16.0	18.0	20.0	-9	9	82	N/A
>800 and ≤1000	2.4	4.0	5.6	8.0	10.0	11.0	12.5	5	02	100	N/A
>800 and ≤1000	2.4	4.0	5.6	8.0	10.0	11.0	12.5	20	100	- 35	N/A
>800 and ≤1000	4.8	8.0	11.2	16.0	20.0	22.0	25.0	1		<u>s – </u>	N/A
>1000 and ≤1250	3.2	5.0	7.1	10.0	12.5	14.0	16.0		-	(C)	N/A

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3.2	5.0	7.1	10.0	12.5	14.0	16.0	10	V.	5-	N/A
6.4	10.0	14.2	20.0	25.0	28.0	32.0	19	- 6	49	N/A
4.2	6.3	9.0	12.5	16.0	18.0	20.0	1	20	25 8	N/A
4.2	6.3	9.0	12.5	16.0	18.0	20.0	50	- 9	e d	N/A
8.4	12.6	18.0	25.0	32.0	36.0	40.0	-9	10	20	N/A
5.6	8.0	11.0	16.0	20.0	22.0	25.0	(2)	25	10	N/A
5.6	8.0	11.0	16.0	20.0	22.0	25.0	610	15		N/A
11.2	16.0	22.0	32.0	40.0	44.0	50.0	10	1	<u></u>	N/A
7.5	10.0	14.0	20.0	25. 0	28.0	32.0		- 4	4 ⁵⁰	N/A
7.5	10.0	14.0	20.0	25.0	28.0	32.0	- 1	2 cm	28	N/A
15.0	20.0	28.0	40.0	50.0	56.0	64.0	(45)	-8	35	N/A
10.0	12.5	18.0	25.0	32.0	36.0	40.0	-2	100	5	N/A
10.0	12.5	18.0	25.0	32.0	36.0	40.0	100	100	(a)	N/A
20.0	25.0	36.0	50.0	64.0	72.0	80.0	87	5	49	N/A
12.5	16.0	22.0	32.0	40.0	45.0	50.0	5		- 8	N/A
12.5	16.0	22.0	32.0	40.0	45.0	50.0	575	-	1 m	N/A
25.0	32.0	44.0	64.0	80.0	90.0	100.0	- 1	100	1-2	N/A
16.0	20.0	28.0	40.0	50.0	56.0	63.0	12	-5	100	N/A
16.0	20.0	28.0	40.0	50.0	56.0	63.0	- 27	100	-01	N/A
32.0	40.0	56.0	80.0	100.0	112.0	126.0	1	S-0	5	N/A
20.0	25.0	36.0	50.0	63.0	71.0	80.0		5	623	N/A
20.0	25.0	36.0	50.0	63.0	71.0	80.0	-10	29	-	N/A
40.0	50.0	72.0	100.0	126.0	142.0	160.0	45	_		N/A
25.0	32.0	45.0	63.0	80.0	90.0	100.0	- 1	100	2	N/A
25.0	32.0	45.0	63.0	80.0	90.0	100.0	0	8	÷	N/A
50.0	64.0	90.0	126.0	160.0	180.0	200.0	1	1		N/A
32.0	40.0	56.0	80.0	100.0	110.0	125.0	15	-	5	N/A
32.0	40.0	56.0	80.0	100.0	110.0	125.0		-	620	N/A
64.0	80.0	112.0	160.0	200.0	220.0	250.0	-	20	20	N/A
40.0	50.0	71.0	100.0	125.0	140.0	160.0	200		30	N/A
40.0	50.0	71.0	100.0	125.0	140.0	160.0	-8			N/A
80.0	100.0	142.0	200.0	250.0	280.0	320.0	-		1=17	N/A
		D D	1920	2	-	35	3	100	50	8
	 6.4 4.2 4.2 8.4 5.6 5.6 11.2 7.5 15.0 10.0 10.0 20.0 12.5 16.0 16.0 25.0 20.0 20.0 20.0 20.0 32.0 	6.410.04.26.34.26.34.26.38.412.65.68.01.5.08.01.210.07.510.07.510.015.020.010.012.510.025.012.516.025.032.016.020.012.532.016.020.020.025.020.032.016.020.020.032.020.032.020.032.020.032.020.032.020.032.020.032.020.032.020.032.020.032.032.040.032.040.040.050.040.050.040.050.040.050.040.050.040.050.0	A.A	6.410.014.220.04.26.39.012.54.26.39.012.54.26.39.012.58.412.618.025.05.68.011.016.05.68.011.016.011.216.022.032.07.510.014.020.015.020.028.040.010.012.518.025.010.012.518.025.010.025.036.032.012.516.022.032.012.516.022.032.012.516.028.040.012.532.044.064.016.020.028.040.016.020.036.050.016.032.044.050.020.025.036.050.020.025.036.050.020.025.036.050.020.032.045.063.020.032.045.063.020.032.045.063.020.032.045.063.032.040.056.080.032.040.056.080.032.040.056.080.040.056.080.040.056.080.040.056.080.040.056.080.040.056.0 <t< td=""><td>6.410.014.220.025.04.26.39.012.516.04.26.39.012.516.08.412.618.025.032.05.68.011.016.020.05.68.011.016.020.01.216.022.032.040.07.510.014.020.025.010.014.020.025.032.010.012.518.025.032.010.012.518.025.032.010.012.518.025.032.010.012.518.025.032.010.012.536.050.064.012.516.022.032.040.012.516.022.032.040.012.516.022.032.040.012.516.022.032.040.012.516.028.040.050.014.020.028.040.050.015.032.036.050.063.016.025.036.050.063.016.025.036.050.063.016.032.045.063.030.016.032.045.063.030.016.032.045.063.030.016.032.045.063.030.016.032.045.063.0<td>6.410.014.220.025.028.04.26.39.012.516.018.04.26.39.012.516.018.08.412.618.022.032.036.05.68.011.016.020.022.011.216.022.032.040.044.07.510.014.020.025.028.07.510.014.020.025.036.015.020.028.040.050.056.010.012.518.025.032.036.010.012.518.025.032.036.010.012.518.025.032.036.010.012.518.025.032.036.010.012.518.025.032.036.010.012.518.025.032.036.010.025.036.050.064.090.012.516.022.032.040.050.012.620.028.040.050.056.013.020.028.040.050.056.014.020.028.040.050.056.014.020.028.040.050.071.014.020.036.050.063.071.014.050.072.0100.0126.0140.015.032.045.0<td< td=""><td>6.410.014.220.025.028.032.04.26.39.012.516.018.020.04.26.39.012.516.018.020.08.412.618.025.032.022.025.05.68.011.016.020.022.025.01.1216.022.032.040.044.050.01.1216.022.032.028.028.032.01.1316.020.025.028.032.032.01.1416.020.025.028.032.032.01.1510.014.020.025.028.040.01.1518.025.032.036.040.010.012.518.025.032.036.040.010.012.518.025.032.036.040.010.012.518.025.032.036.040.010.1516.020.032.040.050.050.010.218.020.032.040.050.050.010.516.020.032.040.050.050.010.516.020.032.040.050.050.010.532.040.050.050.050.063.010.532.036.050.063.071.080.010.532.036.050.0</td><td>6.410.014.220.025.028.032.04.26.39.0012.516.018.020.04.26.39.0012.516.018.020.05.412.618.0025.022.0025.0025.05.68.011.0016.0020.0022.0025.005.68.011.0016.0020.0022.0025.007.510.0014.0020.0025.0028.0020.007.510.0014.0020.0025.0028.0032.007.510.0014.0020.0025.0028.0032.007.510.0014.0020.0025.0028.0030.007.510.0014.0020.0025.0036.0040.0010.0012.518.0025.0036.0036.0040.0010.0112.518.0025.0036.0040.0010.0112.518.0025.0036.0040.0010.0112.518.0025.0036.0040.0010.0212.0032.0040.0050.0050.0050.0010.0112.0025.0032.0040.0050.0050.0050.0010.0225.0032.0040.0050.0050.0050.0050.00<!--</td--><td>6.410.014.220.025.028.032.04.26.39.012.516.018.020.04.26.39.012.516.018.020.08.412.618.025.032.036.040.05.68.011.016.020.022.025.05.68.011.016.020.028.032.07.510.014.020.025.028.032.07.510.014.020.025.036.040.07.510.014.020.032.036.040.07.510.014.020.032.036.040.07.510.014.020.032.036.040.010.012.518.025.032.036.040.010.112.518.028.030.040.050.056.063.0<t< td=""><td>6.410.014.220.025.028.032.04.26.39.012.516.018.020.04.46.39.012.516.018.020.08.412.618.025.032.036.040.05.68.011.016.020.022.025.05.18.011.016.020.028.032.07.510.014.020.025.028.032.07.510.014.020.025.028.032.07.510.014.020.025.028.032.07.510.014.020.025.028.032.07.510.028.040.050.050.064.010.112.518.025.032.036.040.050.011.516.022.032.040.050.050.050.012.516.022.032.040.050.0</td></t<></td></td></td<></td></td></t<>	6.410.014.220.025.04.26.39.012.516.04.26.39.012.516.08.412.618.025.032.05.68.011.016.020.05.68.011.016.020.01.216.022.032.040.07.510.014.020.025.010.014.020.025.032.010.012.518.025.032.010.012.518.025.032.010.012.518.025.032.010.012.518.025.032.010.012.536.050.064.012.516.022.032.040.012.516.022.032.040.012.516.022.032.040.012.516.022.032.040.012.516.028.040.050.014.020.028.040.050.015.032.036.050.063.016.025.036.050.063.016.025.036.050.063.016.032.045.063.030.016.032.045.063.030.016.032.045.063.030.016.032.045.063.030.016.032.045.063.0 <td>6.410.014.220.025.028.04.26.39.012.516.018.04.26.39.012.516.018.08.412.618.022.032.036.05.68.011.016.020.022.011.216.022.032.040.044.07.510.014.020.025.028.07.510.014.020.025.036.015.020.028.040.050.056.010.012.518.025.032.036.010.012.518.025.032.036.010.012.518.025.032.036.010.012.518.025.032.036.010.012.518.025.032.036.010.012.518.025.032.036.010.025.036.050.064.090.012.516.022.032.040.050.012.620.028.040.050.056.013.020.028.040.050.056.014.020.028.040.050.056.014.020.028.040.050.071.014.020.036.050.063.071.014.050.072.0100.0126.0140.015.032.045.0<td< td=""><td>6.410.014.220.025.028.032.04.26.39.012.516.018.020.04.26.39.012.516.018.020.08.412.618.025.032.022.025.05.68.011.016.020.022.025.01.1216.022.032.040.044.050.01.1216.022.032.028.028.032.01.1316.020.025.028.032.032.01.1416.020.025.028.032.032.01.1510.014.020.025.028.040.01.1518.025.032.036.040.010.012.518.025.032.036.040.010.012.518.025.032.036.040.010.012.518.025.032.036.040.010.1516.020.032.040.050.050.010.218.020.032.040.050.050.010.516.020.032.040.050.050.010.516.020.032.040.050.050.010.532.040.050.050.050.063.010.532.036.050.063.071.080.010.532.036.050.0</td><td>6.410.014.220.025.028.032.04.26.39.0012.516.018.020.04.26.39.0012.516.018.020.05.412.618.0025.022.0025.0025.05.68.011.0016.0020.0022.0025.005.68.011.0016.0020.0022.0025.007.510.0014.0020.0025.0028.0020.007.510.0014.0020.0025.0028.0032.007.510.0014.0020.0025.0028.0032.007.510.0014.0020.0025.0028.0030.007.510.0014.0020.0025.0036.0040.0010.0012.518.0025.0036.0036.0040.0010.0112.518.0025.0036.0040.0010.0112.518.0025.0036.0040.0010.0112.518.0025.0036.0040.0010.0212.0032.0040.0050.0050.0050.0010.0112.0025.0032.0040.0050.0050.0050.0010.0225.0032.0040.0050.0050.0050.0050.00<!--</td--><td>6.410.014.220.025.028.032.04.26.39.012.516.018.020.04.26.39.012.516.018.020.08.412.618.025.032.036.040.05.68.011.016.020.022.025.05.68.011.016.020.028.032.07.510.014.020.025.028.032.07.510.014.020.025.036.040.07.510.014.020.032.036.040.07.510.014.020.032.036.040.07.510.014.020.032.036.040.010.012.518.025.032.036.040.010.112.518.028.030.040.050.056.063.0<t< td=""><td>6.410.014.220.025.028.032.04.26.39.012.516.018.020.04.46.39.012.516.018.020.08.412.618.025.032.036.040.05.68.011.016.020.022.025.05.18.011.016.020.028.032.07.510.014.020.025.028.032.07.510.014.020.025.028.032.07.510.014.020.025.028.032.07.510.014.020.025.028.032.07.510.028.040.050.050.064.010.112.518.025.032.036.040.050.011.516.022.032.040.050.050.050.012.516.022.032.040.050.0</td></t<></td></td></td<></td>	6.410.014.220.025.028.04.26.39.012.516.018.04.26.39.012.516.018.08.412.618.022.032.036.05.68.011.016.020.022.011.216.022.032.040.044.07.510.014.020.025.028.07.510.014.020.025.036.015.020.028.040.050.056.010.012.518.025.032.036.010.012.518.025.032.036.010.012.518.025.032.036.010.012.518.025.032.036.010.012.518.025.032.036.010.012.518.025.032.036.010.025.036.050.064.090.012.516.022.032.040.050.012.620.028.040.050.056.013.020.028.040.050.056.014.020.028.040.050.056.014.020.028.040.050.071.014.020.036.050.063.071.014.050.072.0100.0126.0140.015.032.045.0 <td< td=""><td>6.410.014.220.025.028.032.04.26.39.012.516.018.020.04.26.39.012.516.018.020.08.412.618.025.032.022.025.05.68.011.016.020.022.025.01.1216.022.032.040.044.050.01.1216.022.032.028.028.032.01.1316.020.025.028.032.032.01.1416.020.025.028.032.032.01.1510.014.020.025.028.040.01.1518.025.032.036.040.010.012.518.025.032.036.040.010.012.518.025.032.036.040.010.012.518.025.032.036.040.010.1516.020.032.040.050.050.010.218.020.032.040.050.050.010.516.020.032.040.050.050.010.516.020.032.040.050.050.010.532.040.050.050.050.063.010.532.036.050.063.071.080.010.532.036.050.0</td><td>6.410.014.220.025.028.032.04.26.39.0012.516.018.020.04.26.39.0012.516.018.020.05.412.618.0025.022.0025.0025.05.68.011.0016.0020.0022.0025.005.68.011.0016.0020.0022.0025.007.510.0014.0020.0025.0028.0020.007.510.0014.0020.0025.0028.0032.007.510.0014.0020.0025.0028.0032.007.510.0014.0020.0025.0028.0030.007.510.0014.0020.0025.0036.0040.0010.0012.518.0025.0036.0036.0040.0010.0112.518.0025.0036.0040.0010.0112.518.0025.0036.0040.0010.0112.518.0025.0036.0040.0010.0212.0032.0040.0050.0050.0050.0010.0112.0025.0032.0040.0050.0050.0050.0010.0225.0032.0040.0050.0050.0050.0050.00<!--</td--><td>6.410.014.220.025.028.032.04.26.39.012.516.018.020.04.26.39.012.516.018.020.08.412.618.025.032.036.040.05.68.011.016.020.022.025.05.68.011.016.020.028.032.07.510.014.020.025.028.032.07.510.014.020.025.036.040.07.510.014.020.032.036.040.07.510.014.020.032.036.040.07.510.014.020.032.036.040.010.012.518.025.032.036.040.010.112.518.028.030.040.050.056.063.0<t< td=""><td>6.410.014.220.025.028.032.04.26.39.012.516.018.020.04.46.39.012.516.018.020.08.412.618.025.032.036.040.05.68.011.016.020.022.025.05.18.011.016.020.028.032.07.510.014.020.025.028.032.07.510.014.020.025.028.032.07.510.014.020.025.028.032.07.510.014.020.025.028.032.07.510.028.040.050.050.064.010.112.518.025.032.036.040.050.011.516.022.032.040.050.050.050.012.516.022.032.040.050.0</td></t<></td></td></td<>	6.410.014.220.025.028.032.04.26.39.012.516.018.020.04.26.39.012.516.018.020.08.412.618.025.032.022.025.05.68.011.016.020.022.025.01.1216.022.032.040.044.050.01.1216.022.032.028.028.032.01.1316.020.025.028.032.032.01.1416.020.025.028.032.032.01.1510.014.020.025.028.040.01.1518.025.032.036.040.010.012.518.025.032.036.040.010.012.518.025.032.036.040.010.012.518.025.032.036.040.010.1516.020.032.040.050.050.010.218.020.032.040.050.050.010.516.020.032.040.050.050.010.516.020.032.040.050.050.010.532.040.050.050.050.063.010.532.036.050.063.071.080.010.532.036.050.0	6.410.014.220.025.028.032.04.26.39.0012.516.018.020.04.26.39.0012.516.018.020.05.412.618.0025.022.0025.0025.05.68.011.0016.0020.0022.0025.005.68.011.0016.0020.0022.0025.007.510.0014.0020.0025.0028.0020.007.510.0014.0020.0025.0028.0032.007.510.0014.0020.0025.0028.0032.007.510.0014.0020.0025.0028.0030.007.510.0014.0020.0025.0036.0040.0010.0012.518.0025.0036.0036.0040.0010.0112.518.0025.0036.0040.0010.0112.518.0025.0036.0040.0010.0112.518.0025.0036.0040.0010.0212.0032.0040.0050.0050.0050.0010.0112.0025.0032.0040.0050.0050.0050.0010.0225.0032.0040.0050.0050.0050.0050.00 </td <td>6.410.014.220.025.028.032.04.26.39.012.516.018.020.04.26.39.012.516.018.020.08.412.618.025.032.036.040.05.68.011.016.020.022.025.05.68.011.016.020.028.032.07.510.014.020.025.028.032.07.510.014.020.025.036.040.07.510.014.020.032.036.040.07.510.014.020.032.036.040.07.510.014.020.032.036.040.010.012.518.025.032.036.040.010.112.518.028.030.040.050.056.063.0<t< td=""><td>6.410.014.220.025.028.032.04.26.39.012.516.018.020.04.46.39.012.516.018.020.08.412.618.025.032.036.040.05.68.011.016.020.022.025.05.18.011.016.020.028.032.07.510.014.020.025.028.032.07.510.014.020.025.028.032.07.510.014.020.025.028.032.07.510.014.020.025.028.032.07.510.028.040.050.050.064.010.112.518.025.032.036.040.050.011.516.022.032.040.050.050.050.012.516.022.032.040.050.0</td></t<></td>	6.410.014.220.025.028.032.04.26.39.012.516.018.020.04.26.39.012.516.018.020.08.412.618.025.032.036.040.05.68.011.016.020.022.025.05.68.011.016.020.028.032.07.510.014.020.025.028.032.07.510.014.020.025.036.040.07.510.014.020.032.036.040.07.510.014.020.032.036.040.07.510.014.020.032.036.040.010.012.518.025.032.036.040.010.112.518.028.030.040.050.056.063.0 <t< td=""><td>6.410.014.220.025.028.032.04.26.39.012.516.018.020.04.46.39.012.516.018.020.08.412.618.025.032.036.040.05.68.011.016.020.022.025.05.18.011.016.020.028.032.07.510.014.020.025.028.032.07.510.014.020.025.028.032.07.510.014.020.025.028.032.07.510.014.020.025.028.032.07.510.028.040.050.050.064.010.112.518.025.032.036.040.050.011.516.022.032.040.050.050.050.012.516.022.032.040.050.0</td></t<>	6.410.014.220.025.028.032.04.26.39.012.516.018.020.04.46.39.012.516.018.020.08.412.618.025.032.036.040.05.68.011.016.020.022.025.05.18.011.016.020.028.032.07.510.014.020.025.028.032.07.510.014.020.025.028.032.07.510.014.020.025.028.032.07.510.014.020.025.028.032.07.510.028.040.050.050.064.010.112.518.025.032.036.040.050.011.516.022.032.040.050.050.050.012.516.022.032.040.050.0



Working voltage (V)		Creep	age dist	ee	_				
	1		2			3			
		N	laterial g	Iroup	M	aterial gr	oup		
		I.	П	IIIa/IIIb	I	Ш	IIIa/IIIb	Verdict	
≤50	0.2	0.6	0.8	1.1	1.4	1.6	1.8	N/A	
>50 and ≤125	0.3	0.7	1.0	1.4	1.8	2.0	2.2	N/A	
>125 and ≤250	0.4	1.0	1.4	2.0	2.5	2.8	3.2	Prov Provide	
>250 and ≤400	0.8	1.6	2.2	3.2	4.0	4.5	5.0	N/A	
>400 and ≤500	1.0	2.0	2.8	4.0	5.0	5.6	6.3	N/A	
>500 and ≤800	1.8	3.2	4.5	6.3	8.0	9.0	10.0	N/A	
>800 and ≤1000	2.4	4.0	5.6	8.0	10.0	11.0	12.5	N/A	
>1000 and ≤1250	3.2	5.0	7.1	10.0	12.5	14.0	16.0	N/A	
>1250 and ≤1600	4.2	6.3	9.0	12.5	16.0	18.0	20.0	N/A	
>1600 and ≤2000	5.6	8.0	11.0	16.0	20.0	22.0	25.0	N/A	
>2000 and ≤2500	7.5	10.0	14.0	20.0	25.0	28.0	32.0	N/A	
>2500 and ≤3200	10.0	12.5	18.0	25.0	32.0	36.0	40.0	N/A	
>3200 and ≤4000	12.5	16.0	22.0	32.0	40.0	45.0	50.0	N/A	
>4000 and ≤5000	16.0	20.0	28.0	40.0	50.0	56.0	63.0	N/A	
>5000 and ≤6300	20.0	25.0	36.0	50.0	63.0	71.0	80.0	N/A	
>6300 and ≤8000	25.0	32.0	45.0	63.0	80.0	90.0	100.0	N/A	
>8000 and ≤10000	32.0	40.0	56.0	80.0	100.0	110.0	125.0	N/A	
>10000 and ≤12500	40.0	50.0	71.0	100.0	125.0	140.0	160.0	N/A	
30.1 TABLE	: Ball p	oressu	re	40°	1 0	(9)	12 679	P	
Part				ture (°C)	Im	pression (mr	diameter n)	Allowed impression diameter (mm)	
Bobbin	82	54	125	1 8 2	5	1.2	2	≤2	
AC connector	3.17	1970	125	al Y	det.	0.8	0	≤2	
amp terminal	125 0.96		6	≤2					
30.1 TABLE	Glow	wire	8 1	5/ 9	(a)	1 ×5	1 PIS	1 (S) (P)	
Part		Test	tempera	ture (°C)		Igniti	ion	Verdict	
Bobbin	82	100	750	1 872	15	No Igr	nition	Pass	
AC connector	in h	15	850	1200	atel	No Igr	nition	Pass	
amp terminal	12	100	850	Pro co	1 0	No Igr	nition	Pass	



Photo Documentation

Type of Equipment, Model:

UVGI AIR STERILIZER, SM 20







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*********End of Report *********

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