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AST.LAB

TEST REPORT IEC 60335-2-65 Safety of household and similar electrical appliances Part 2: Particular requirements for air-cleaning appliances		
Report Reference No.		······································
Tested by (+ signature)	.: Traci Cui	Traci
Compiled by (+ signature)	.: Ron Long	Ron Technology (Share)
Approved by (+ signature)	.: Done Fan	AST.LAB AST.LAB
Date of issue	.: Jun. 16, 2021	
Total number of pages	91 pages	
Testing Laboratory	.: Aerospace Testing Tec	hnology (Shenzhen) Co., Ltd.
Address		h Road, Shapu Yangyong Industrial Park, an District, Shenzhen, Guangdong, China
Testing location / address	.: (same as above)	
Applicant's name	SHENZHEN CITY MEI	RI PURIFICA TION TECHNOLOGY CO.LT
Address		gfa Road, Dongkeng Community, angming District, Shenzhen, Guangdong,
Test specification:		5 10 10 You
Standard	: EN 60335-2-65:2003+A EN 60335-1:2012+A11 EN 62233:2008	A1:2008+A11:2012 in conjunction with :2014+A13:2017
Test procedure	.: CE-LVD	
Non-standard test method	.: N/A	the type the type of
Test Report Form No		
TRF Originator		
Master TRF	.: Dated 2018-10	
This test report is specially limite be duplicated without prior written		npany and product model only. It may no
Tel: +86-755-27781492 F	ax: +86-755-27781492	http://www.ast-test.com
Test item description	.: Air purifier	
Trade Mark		
		RI PURIFICA TION TECHNOLOGY CO.LT
Model/Type reference		a de la como de la com
Ratings	.: 220V-240V~, 50/60Hz,	0.68A, Class I, 60-160W
检测技术(深圳)有限公司 ② 深圳主岛安区松岩集蒂沙港洋泽3		
省深圳市宝安区松岗街道沙浦洋涌] pspace Testing Technology (Shenzh		Tel.(电话) : 0755–27781 Fax.(传真) : 0755–27781

Songgang Street, Bao'an District, Shenzhen, Guangdong, China

com E-mail(邮箱) : ast@hangtianjc.com

Testing location:
3/F, Block A1, No. 5, 8th Road, Shapu Yangyong Industrial Park, Songgang Street, Bao'an District,
Shenzhen, Guangdong, China

Air purifier Model: MRJH-JHQ Input: 220-240V~, 50/60Hz, 0.68A Power: 60-160W



SHENZHEN CITY MEIRI PURIFICA TION TECHNOLOGY CO.LTD Importer name: XXX

Address: XXX

Made in China

Note:

---The heights of graphical symbols aren't less than 5mm.

---The heights of WEEE symbol isn't less than 7mm.

---When the equipment is vended to EU, then name and address of the importer or authorized representative within the EEA shall be added on the equipment.

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E-mail(邮箱)	:	ast@hangtianjc.com



Test item particulars	
Classification of installation and use	Portable appliance
Supply Connection	Power cord with a detachable plug, Type X
Protection against electric shock	Class I
Possible test case verdicts:	
- test case does not apply to the test object	N(/A)
- test object does meet the requirement:	P(Pass)
- test object does not meet the requirement:	F(Fail)
Testing	
Date of receipt of test item:	Jun. 10, 2021
Date (s) of performance of tests	Jun. 10, 2021 –Jun. 16, 2021

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 \Box comma / \boxtimes point is used as the decimal separator.

General product information:

1. The appliance is intended for household and indoor use only.

2. The equipment under tests is Class I device, electronic components mounted on PWB, metal enclosure.

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IEC 60335-2-65	
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CI.	Requirement - Test	Result	Verdict
5	•		<u>×</u>
98	Tests performed according to cl. 5, e.g. nature of supply, sequence of testing, etc.	10 To 140	Р
5.101	Appliances are tested as motor-operated appliances. (IEC 60335-2-65)	35, 30 35,	Р
6	CLASSIFICATION		
6.1	Protection against electric shock: Class 0, 0I, I, II, III	Class I	Pop
6.2	Protection against harmful ingress of water	a 105 16	N
7	MARKING AND INSTRUCTIONS		
7.1	Rated voltage or voltage range (V):	See marking label	Р
2	Symbol for nature of supply, or	See marking label	Р
190	Rated frequency (Hz)	See marking label	Р
	Rated power input (W), or:	See marking label	Р
24	Rated current (A):	70, 70 70	Р
. 19 19	Manufacturer's or responsible vendor's name, trademark or identification mark	See marking label	7 ₈ P
Ca.	Model or type reference:	See marking label	Р
- C.	Symbol 5172 of IEC 60417, for Class II appliances	See marking label	P
er	IP number, other than IPX0	IPX0	Ν
1997. 1	Symbol IEC 60417-5180, for class III appliances, unless	24, 40 262	N
92) - 	the appliance is operated by batteries only	NO 70 9	N
80 80 767	Symbol IEC 60417-5036, for the enclosure of electrically-operated water valves in external hose- sets for connection of an appliance to the water mains, if the working voltage exceeds extra low voltage	90 - 10, 140 - 10, 140 - 1 - 10, 140 - 1	N
51,120 20 20,1 20 20,1	UV radiation air-cleaning appliances containing replaceable UV-C emitters be marked with the type reference of the emitter and with the substance of the following warning: WARNING: UV radiation is dangerous for the eyes and skin. Do not operate the UV-C emitter outside the appliance. (IEC 60335-2-65)	140 165 (1 140 165 (1 160 165 (1 160 166 1 160 190 1	N
5) / 10 70	If it is intended that replacement of the UV-C emitter can be carried out by the user, the appliance be marked with "Read the instructions" or with symbol ISO 7000-0790 (2004-01). (IEC 60335-2-65)	190 - 107 - 14 190 - 107 - 190	N
7.2	Warning for stationary appliances for multiple supply	Stationary appliance	N
(V)	Warning placed in vicinity of terminal cover	10 6	N

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35	IEC 60335-2-65	1. 1.	6.
CI.	Requirement - Test	Result	Verdic
7.3	Range of rated values marked with the lower and upper limits separated by a hyphen	and the second second	N
10	Different rated values marked with the values separated by an oblique stroke	15 To	N
7.4	Appliances adjustable for different rated voltages, the voltage setting is clearly discernible	No such device	N
190 YS	Requirement met if frequent changes are not required and the rated voltage to which the appliance is to be adjusted is determined from a wiring diagram	and the second	N
7.5	Appliances with more than one rated voltage or one or more rated voltage ranges, marked with rated input or rated current for each rated voltage or range, unless	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	N
The The	the power input is related to the arithmetic mean value of the rated voltage range	50 55 50	P
2 7	Relation between marking for upper and lower limits of rated power input or rated current and voltage is clear	10 10, 10 10, 10 10	N N
7.6	Correct symbols used	30. Ve 70.	P
Si can	Symbol for nature of supply placed next to rated voltage	10 To 10	Р
la 1	Symbol for class II appliances placed unlikely to be confused with other marking	10 10 10	Р
352	Units of physical quantities and their symbols according to international standardized system	the de the	Р
7.7	Connection diagram fixed to appliances to be connected to more than two supply conductors and appliances for multiple supply, unless	100 107 100 100 100	N
(e)	correct mode of connection is obvious	and and a	N
7.8	Except for type Z attachment, terminals for connection as follows:	to the supply mains indicated	
Sign	- marking of terminals exclusively for the neutral conductor (letter N)	y the the to	Р
10	- marking of protective earthing terminals (symbol IEC 60417-5019)	10 10 10 10 10 10 10 10 10 10 10 10 10 1	N
75%	- marking not placed on removable parts		Ν
7.9	Marking or placing of switches which may cause a hazard	The second	Р
7.10	Indications of switches on stationary appliances and controls on all appliances by use of figures, letters or other visual means	290 By 190	Р
100	This applies also to switches which are part of a control	15. 190 A.	Р

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0			20. 1.74
CI.	Requirement - Test	Result	Verdic
198 (g. 198	If figures are used, the off position indicated by the figure 0	1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N
1	The figure 0 indicates only OFF position, unless no confusion with the OFF position	6 N. N	N
7.11	Indication for direction of adjustment of controls	S. 8	P
7.12	Instructions for safe use provided	5) Ye 1	e P
Can the	Details concerning precautions during user maintenance	76 - 76 ₂	Po Po
	The instructions state that:	a 197	6 (₅
100 200	- the appliance is not to be used 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		P
ج ج	- children being supervised not to play with the appliance	10 TO	% <mark>% P</mark>
1970 50	For a part of class III construction supplied from a detachable power supply unit, the instructions state that the appliance is only to be used with the unit provided	10, 40 10, 40 10, 40	N
48	Instructions for class III appliances state that it must only be supplied at SELV, unless	20 30	N
	it is a battery-operated appliance, the battery being charged outside the appliance	10,000	N
	The instructions shall include details for cleaning and other user maintenance of the appliance. They shall state that prior to cleaning or other maintenance, the appliance must be disconnected from the supply mains. (IEC 60335-2-65)	9 15) 9 15) 9 15)	P
7.12.1	Sufficient details for installation supplied	10 TO	P
5. S	For an appliance intended to be permanently connected to the water mains and not connected by a hose-set, this is stated	10, 10 . 10 10	N
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	10 10, 10 10, 10 10, 10	N
7.12.3	Insulation of the fixed wiring in contact with parts exceeding 50 K during clause 11; instructions stating that the fixed wiring must be protected	170 - 167 Cg	N
7.12.4	Instructions for built-in appliances:	1. N. N.	· · · ·

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CI.	Requirement - Test	Result	Verdic
1997	Tott Tot Tot Tot Tot	6 70 To	4
100	- dimensions of space	Go a Go	N
$\mathcal{A}_{\mathcal{O}}$	- dimensions and position of supporting and fixing		N
15	- minimum distances between parts and surrounding structure	0 5 5 10 10 10 10 10 10 10 10 10 10 10 10 10	N
357.15	- minimum dimensions of ventilating openings and arrangement	52 40 Tox	N
240 °C	- connection to supply mains and interconnection of separate components	70 70, 70	N
4. 4.	- allow disconnection of the appliance after installation, by accessible plug or a switch in the fixed wiring, unless	10, 10 K	N N
5	a switch complying with 24.3	302 No 302	N 👌
7.12.5	Replacement cord instructions, type X attachment with a specially prepared cord	10 - Ton 19	N
h	Replacement cord instructions, type Y attachment	16 W. 18	O P
	Replacement cord instructions, type Z attachment	70, 70 7	N7
7.12.6	Caution in the instructions for appliances incorporating a non-self-resetting thermal cut-out that is reset by disconnection of the supply mains, if this cut-out is required to comply with the standard	35, 90 35, 9 	N
7.12.7	Instructions for fixed appliances stating how the appliance is to be fixed	Not fixed appliances	N
7.12.8	Instructions for appliances connected to the water ma	ins:	× `
Ren K.	- max. inlet water pressure (Pa)	w w	N
Ela.	- min. inlet water pressure, if necessary (Pa)	. 70 To, 7	6 N 1
20	Instructions concerning new and old hose-sets for appliances connected to the water mains by detachable hose-sets	78 157 146 15, 146	N
7.13	Instructions and other texts in an official language	In English or / and local language	P
7.14	Marking clearly legible and durable, rubbing test as specified	2, 8, 8,	P
7.15	Marking on a main part	φφφ	Р
767	Marking clearly discernible from the outside, if necessary after removal of a cover	10 10 10	P
NS CAR	For portable appliances, cover can be removed or opened without a tool	2 10 TO 1	Р
70	For stationary appliances, name, trademark or identification mark and model or type reference visible after installation	10 35 No.	N

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Verdict

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7.	: AST2106201001 Page 8 of 91 IEC 60335-2-65	
CI.		Result
0.	Requirement - Test	Result
190 190	For fixed appliances, name, trademark or identification mark and model or type reference visible after installation according to the instructions	10 15 140
151 5 51 5	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	45 45 - 45 53 - 65 54 - 65 54 - 65
7.16	Marking of a possible replaceable thermal link or fuse link clearly visible with regard to replacing the link	10 15 190 10 15 190
8	PROTECTION AGAINST ACCESS TO LIVE PARTS	5
8.1	Adequate protection against accidental contact with live parts	35, 40 35.
8.1.1	Requirement applies for all positions, detachable parts removed	- 40 - KA, 4
e 1	Lamps behind a detachable cover not removed, if conditions met	19 - TO- 79
45. j	Insertion or removal of lamps, protection against contact with live parts of the lamp cap	No lamps
	Use of test probe B of IEC 61032, with a force not exceeding 1 N: no contact with live parts	No live parts can be touched
8.1.2	Use of test probe 13 of IEC 61032, with a force not exceeding 1 N, through openings in class 0 appliances and class II appliances/constructions: no contact with live parts	10 10, 10 10, 100 10
957-190 C	Test probe 13 also applied through openings in earthed metal enclosures having a non-conductive coating: no contact with live parts	and the second
8.1.3	For appliances other than class II, use of test probe 41 of IEC 61032, with a force not exceeding 1 N: no	No heating elements

 Test probe 13 also applied through openings in earthed metal enclosures having a non-conductive coating: no contact with live parts

 8.1.3
 For appliances other than class II, use of test probe 41 of IEC 61032, with a force not exceeding 1 N: no contact with live parts of visible glowing heating elements
 8.1.4
 Accessible part not considered live if:

 - safety extra-low a.c. voltage: peak value not exceeding 42,4 V
 - safety extra-low d.c. voltage: not exceeding 42,4 V
 - or separated from live parts by protective impedance
 If protective impedance: d.c. current not exceeding 2 mA, and
 a.c. peak value not exceeding 0,7 mA
 - for peak values over 42,4 V up to and including 450 V, capacitance not exceeding 0,1 μF

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25	IEC 60335-2-65	a Na a	
CI.	Requirement - Test	Result	Verdic
1. No	- for peak values over 450 V up to and including 15 kV, discharge not exceeding 45 μC	190 - 157 - 190	N
1	- for peak values over 15kV, the energy in the discharge not exceeding 350 mJ	6 - TS - TA	N
201/20 27	- The discharge from parts that are only accessible after the removal of a cover for cleaning or other user maintenance is measured 2 s after the cover has been removed. (IEC 60335-2-65)	57. 70 57. 19. 70 57. 10. 70 10.	N
8.1.5	Live parts protected at least by basic insulation before	installation or assembly:	
1	- built-in appliances		N
40	- fixed appliances	s S	N
5.0	- appliances delivered in separate units	302 76 BU	N 😸
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	10 10 10 000 10 10 10	P
25	Only possible to touch parts separated from live parts by double or reinforced insulation	1. 40 M	Р
9	STARTING OF MOTOR-OPERATED APPLIANCES		
40	Requirements and tests are specified in part 2 when necessary	10 70 m	N
10	POWER INPUT AND CURRENT		
10.1	Power input at normal operating temperature, rated voltage and normal operation not deviating from rated power input by more than shown in table 1	(see appended table)	N
10 70	Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless	140 - 150 - 140 - 160 - 160 - 160 - 160 - 160 - 160 - 160 - 160 - 160 - 160 - 160 - 160 - 160 - 160 - 160 - 160	N N
303	the rated power input is related to the arithmetic mean value	The state of the state	N
10.2	Current at normal operating temperature, rated voltage and normal operation not deviating from rated current by more than shown in table 2	(see appended table)	Р
76 76	Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless	162 16 1	Р
80	the rated current is related to the arithmetic mean value of the range	and the state	N
11	HEATING		
11.1	No excessive temperatures in normal use	10 U.S. 10	Р
11.2	The appliance is held, placed or fixed in position as	9 75x 78 ·	Р

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0	Deminent Test	Deput	1.2
CI.	Requirement - Test	Result	Verdict
11.3	Temperature rises, other than of windings, determined by thermocouples	By thermocouples	Р
	Temperature rises of windings determined by resistance method, unless	6 - The To	N
102	the windings makes it difficult to make the necessary connections	5 40 10	P
11.4	Heating appliances operated under normal operation at 1,15 times rated power input (W)	10 To 10	N
11.5	Motor-operated appliances operated under normal operation at most unfavourable voltage between 0.94 and 1.06 times rated voltage (V) :	1.06X240V=254.4V	P
11.6	Combined appliances operated under normal operation at most unfavourable voltage between 0.94 and 1,06 times rated voltage(V) :	Not combined appliance	N
11.7	Appliances are operated until steady conditions are established. (IEC 60335-2-65)	Steady condition are established	Р
11.8	Temperature rises monitored continuously and not exceeding the values in table 3	(see appended table)	P
5. 3	If the temperature rise of a motor winding exceeds the value of table 3, or	and the sta	N
79 12	if there is doubt with regard to classification of insulation,	70 70, 70	N
er j	tests of Annex C are carried out	70 Kg 7	N
70	Sealing compound does not flow out	An An A	Р
les. 1	Protective devices do not operate, except	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	Р
10	components in protective electronic circuits tested for the number of cycles specified in 24.1.4	an an an	N
те По	Addition: NOTE 101 Operation of a current-limiting device in a high- voltage circuit is allowed. (IEC 60335-2-65)	10, 140	N
13	LEAKAGE CURRENT AND ELECTRIC STRENGTH TEMPERATURE	AT OPERATING	
13.1	Leakage current not excessive and electric strength adequate	40 To 40	P
10	Heating appliances operated at 1,15 times the rated power input (W)	and the second	N
10) (10)	Motor-operated appliances and combined appliances supplied at 1,06 times the rated voltage (V):	1.06X240V=254.4V	Р
90	Protective impedance and radio interference filters disconnected before carrying out the tests		N

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Tr.		IEC 60335-2-65		
CI.	Requirement - Test	a de la	Result	Verdict

13.2	For class 0, class II and class III appliances, leakage current measured by means of the circuit described in figure 4 of IEC 60990	10 102 70 0 102 100 -	Ρ
150	For other appliances, a low impedance ammeter may be used	3. 8 3.	N
- C4	Leakage current measurements:	(see appended table)	P
13.3	The appliance is disconnected from the supply	10 76, 70	P
<u>e</u>	Electric strength tests according to table 4	(see appended table)	Р
8 T	No breakdown during the tests	70 70 10	Р
14	TRANSIENT OVERVOLTAGES		
8. S	Appliances withstand the transient over-voltages to which they may be subjected	40 10 90	N
98	Clearances having a value less than specified in table 16 subjected to an impulse voltage test, the test voltage specified in table 6	10 10, 100 10 10, 100	N
752	No flashover during the test, unless		Ν
5	of functional insulation if the appliance complies with Clause 19 with the clearance short-circuited	140 40 Mas	[™] N
15	MOISTURE RESISTANCE		
15.1	Enclosure provides the degree of moisture protection according to classification of the appliance	15, 40 70	N
	Compliance checked as specified in 15.1.1, taking into account 15.1.2, followed by the electric strength test of 16.3	107 - 10 - 107 - 1	N
76 96	No trace of water on insulation which can result in a reduction of clearances and creepage distances below values specified in clause 29	40 10, 40	N
15.1.1	Appliances, other than IPX0, subjected to tests as specified in IEC 60529	To. 40 To.	N
Greater a	Water valves containing live parts in external hoses for connection of an appliance to the water mains tested as specified for IPX7 appliances	10 10 10 100 100 100 100 100 100 100 10	N
15.1.2	Hand-held appliance turned continuously through the most unfavourable positions during the test	15, 49 76	N
30 A	Built-in appliances installed according to the instructions	10, 70 m	N
No.	Appliances placed or used on the floor or table placed on a horizontal unperforated support		N
18 163	Appliances normally fixed to a wall and appliances with pins for insertion into socket-outlets are mounted on a wooden board	1 Ton 19 1	N

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	IEC 60335-2-65	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	59
CI.	Requirement - Test	Result	Verdic
- ""e	For IPX3 appliances, the base of wall mounted appliances is placed at the same level as the pivot axis of the oscillating tube	and the second second	N
7. 761	For IPX4 appliances, the horizontal centre line of the appliance is aligned with the pivot axis of the oscillating tube, and	107 - 70 - 107	N
17. 19.	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	177	N
1	Wall-mounted appliances, take into account the distance to the floor stated in the instructions	Tr. 70 Tr.	N
2.54 2.548	Appliances normally fixed to a ceiling are mounted underneath a horizontal unperforated support, the pivot axis of the oscillating tube located at the level of the underside of the support, and	152 70 152 190 70 100 100 70 100	N
9	for IPX4 appliances, the movement of the tube is limited to two times 90° from the vertical for a period of 5 min	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	N
5. 3	Appliances with type X attachment fitted with a flexible cord as described	Charles and the	N
As	Detachable parts subjected to the relevant treatment with the main part	70 75, 70	N
т.,	However, if a part has to be removed for user maintenance and a tool is needed, this part is not removed	207, 290 - 20 20, 200 - 20	N
15.2	Spillage of liquid does not affect the electrical insulation	No liquid	N
le l	Appliances with type X attachment fitted with a flexible cord as described	78 - 152 - 78	N
10 80	Appliances incorporating an appliance inlet tested with or without an connector, whichever is most unfavourable	107 10 Top	N
al an	Detachable parts removed	N 18 16N 18	N
te Ö	Overfilling test with additional amount of the solution, over a period of 1 min (I)	To the to	N
10	The appliance withstands the electric strength test of 16.3	10 10 10 10	N
	No trace of water on insulation that can result in a reduction of clearances and creepage distances below values specified in clause 29	And the second	N
15.3	Appliances proof against humid conditions		Р
d s	Checked by test Cab: Damp heat steady state in IEC 60068-2-78	and the second	Р

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CI.	Requirement - Test	Result	Verdict
200	Detachable parts removed and subjected, if necessary, to the humidity test with the main part	140 - 10 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140 - 140	Р
10	Humidity test for 48 h in a humidity cabinet	25°C, 93%	Р
- 73 - 76	Reassembly of those parts that may have been removed	30 No 702	Р
Ca.	The appliance withstands the tests of clause 16	5 4 5 C	Ρ
16	LEAKAGE CURRENT AND ELECTRIC STRENGTH	l	
16.1	Leakage current not excessive and electric strength adequate	6 35 30	Р
10	Protective impedance disconnected from live parts before carrying out the tests	The area	N
S. 4	Tests carried out at room temperature and not connected to the supply	140 20 940	P
16.2	Single-phase appliances: test voltage 1.06 times rated voltage (V)	1.06X240V=254.4V	Р
10.	Three-phase appliances: test voltage 1.06 times rated voltage divided by $\sqrt{3}$ (V)	197 20 20	N
and the	Leakage current measurements	(see appended table)	P
Ca.	Limit values doubled if:	10 10 V	
	- all controls have an off position in all poles, or	70 70, 70	✓ N
e	- the appliance has no control other than a thermal cut-out, or	55 80 40	N
152	- all thermostats, temperature limiters and energy regulators do not have an off position, or	157.00 TO 10	N
10	- the appliance has radio interference filters	<u>ر ار ار</u>	N
⁷ 0	With the radio interference filters disconnected, the leakage current do not exceed limits specified :	(see appended table)	N
16.3	Electric strength tests according to table 7	(see appended table)	Р
57.40	Test voltage applied between the supply cord and inlet bushing and cord guard and cord anchorage as specified:	(see appended table)	Р
10	No breakdown during the tests	10 10, 10	P
16.101	High-voltage transformers must have adequate internal insulation. The duration of the test is sec. (IEC 60335-2-65)	107 40 10 107 40 10	N
17	OVERLOAD PROTECTION OF TRANSFORMERS	AND ASSOCIATED CIRCUITS	
19 10	No excessive temperatures in transformer or associated circuits in event of short-circuits likely to	40 to, 40	P

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occur in normal use

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1	IEC 60335-2-65			
CI.	Requirement - Test	Result	Verdict	
190 N	Appliance supplied with 1,06 or 0,94 times rated voltage under the most unfavourable short-circuit or overload likely to occur in normal use (V)	1.06X240V=254.4V	P	
1	Basic insulation is not short-circuited	1 m	Р	
-10. L	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		P	
40	Temperature of the winding not exceeding the value specified in table 8,	(see appended table)	Р	
× í	however limits do not apply to fail-safe transformers complying with sub-clause 15.5 of IEC 61558-1	25, 20 26	N	
18	ENDURANCE			
n la S	Requirements and tests are specified in part 2 when necessary	40 35, 96	N	
19	ABNORMAL OPERATION			
19.1	The risk of fire, mechanical damage or electric shock under abnormal or careless operation obviated	10, 10 1	Р	
5	Electronic circuits so designed and applied that a fault will not render the appliance unsafe	33. 70 Br.	N _∂ P	
Color	Appliances incorporating heating elements subjected to the tests of 19.2 and 19.3, and	Te to the	N	
	if the appliance also has a control that limit the temperature during clause 11 it is subjected to the test of 19.4, and	207 - 20 - 7 70 - 190 - 1	N	
15	if applicable, to the test of 19.5	14 - 12 V2	N	
140	Appliances incorporating PTC heating elements are also subjected to the test of 19.6	40 10 40	N	
10 11	Appliances incorporating motors subjected to the tests of 19.7 to 19.10, as applicable	30. 100 -	Р	
ېې ۲ _{۵۰}	Appliances incorporating electronic circuits subjected to the tests of 19.11 and 19.12, as applicable	The the	Р	
10 10	Appliances incorporating contactors or relays subjected to the test of 19.14, being carried out before the tests of 19.11	1 10 10 1 10 1 10 10 10 10 10 10 10 10 1	N	
-Zg	Appliances incorporating voltage selector switches subjected to the test of 19.15	157.40	N	
15) 1.4)	Unless otherwise specified, the tests are continued until a non-self-resetting thermal cut-out operates, or	No to N	Р	
5. S	until steady conditions are established	30 30 Kg	Р	
e K	If a heating element or intentionally weak part becomes open-circuited, the relevant test is repeated on a second sample	2 70, 20	N	

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	IEC 60335-2-65			
CI.	Requirement - Test	Result	Verdic	
19.2	Test of appliances with heating elements with restricted heat dissipation; test voltage (V), power input of 0.85 times rated power input (W)	No heating elements	N	
19.3	Test of 19.2 repeated; test voltage (V), power input of 1,24 times rated power input (W)	35 60 16	N	
19.4	Test conditions as in cl. 11, any control limiting the temperature during tests of cl. 11 short-circuited	6. 10 To.	< N	
19.5	Test of 19.4 repeated on Class 0I and I appliances with tubular sheathed or embedded heating elements. No short-circuiting, but one end of the element connected to the elements sheath	10 10, 10, 10 10 10, 10 10 10, 10	N	
10.5	The test repeated with reversed polarity and the other end of the heating element connected to the sheath	757	N	
40	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	10 10, 10 10 10, 10 10 10	N	
19.6	Appliances with PTC heating elements tested at rated voltage, establishing steady conditions	No PTC heating elements	N	
1. 10 1. 13 - 15 1.	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(V)		N	
19.7	Stalling test by locking the rotor if the locked rotor torque is smaller than the full load torque, or	The state	N	
10	locking moving parts of other appliances	Go de Ga	Р	
<u>e</u>	Locked rotor, capacitors open-circuited one at a time	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N	
1	Test repeated with capacitors short-circuited one at a time, unless	1. 1. 1.	N	
S.	capacitor is of class P2 of IEC 60252-1	140 A. C.	N	
10 ⁰⁴⁸	Appliances with timer or programmer supplied with rated voltage for each of the tests, for a period equal to the maximum period allowed	the type to	N	
16	Other appliances supplied with rated voltage for a period as specified	10 10 10	N	
N. Ma	Winding temperatures not exceeding values specified in table 8	(see appended table)	Р	
19.8	Three-phase motors operated at rated voltage with one phase disconnected	10 Top 70	N	

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CI.	Dequirement Test	Deput	Vardia
JI.	Requirement - Test	Result	Verdic
19.9	Running overload test on appliances incorporating motors intended to be remotely or automatically controlled or liable to be operated continuously	10 157 12 10 1 10 10 10 10 10 10 10 10 10 10 10 10	N
	Motor-operated and combined appliances for which 30.2.3 is applicable and that use overload protective devices relying on electronic circuits to protect the motor windings, are also subjected to the test	15, 16 15, 15, 15, 15, 15, 15, 15, 15, 15, 15,	N
40	Winding temperatures not exceeding values as specified	(see appended table)	N
19.10	Series motor operated at 1,3 times rated voltage for 1 min:	10 40 40	N
1993 C	During the test, parts not being ejected from the appliance	15. 140 TO.	N
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	10 157 100 10 10 100	P
1	they comply with the conditions specified in 19.11.1	40 40 A.	Ν
457.C	Appliances incorporating an electronic circuit that relies upon a programmable component to function correctly, subjected to the test of 19.11.4.8, unless	10. C 10 10.	N
Color	restarting does not result in a hazard	A (2) (4)	Ν
8 75,	Appliances having a device with an off position obtained by electronic disconnection, or a device placing the appliance in a stand-by mode, subjected to the tests of 19.11.4	10 - 707 - 70 - 707 - 70 - 707 - 70	N
57,40	If the safety of the appliance under any of the fault conditions depends on the operation of a miniature fuse-link complying with IEC 60127, the test of 19.12 is carried out	- 140 - 157 - 140 140 - 157 - 140	Р
er.	During and after each test the following is checked:	20 20 To 10	
1 3 A	- the temperature of the windings do not exceed the values specified in table 8	the the	P
1.198	- the appliance complies with the conditions specified in 19.13	10 To, 40	Р
₹s= 	- any current flowing through protective impedance not exceeding the limits specified in 8.1.4	10 10 10 10 10 10 10 10 10 10 10 10 10 1	N
40. 80.	If a conductor of a printed board becomes open-circuit to have withstood the particular test, provided both of		40
- Ag	- the base material of the printed circuit board withstands the test of Annex E	2 to the the	Ν
20 207	- any loosened conductor does not reduce clearance or creepage distances between live parts and accessible metal parts below the values specified in clause 29		N

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9	IEC 60335-2-65		1.70
CI.	Requirement - Test	Result	Verdic
19.11.1	Fault conditions a) to g) in 19.11.2 are not applied to c meeting both of the following conditions:	circuits or parts of circuits	- ₹.,,
3	- 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	0 35, 30 3 35, 30 36	N 70
SP. GO	- 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	57, 70 57, 70 107, 70 107, 70	N N
19.11.2	Fault conditions applied one at a time, the appliance of specified in clause 11, but supplied at rated voltage, d		ري. در د
N.C.	a) short circuit of functional insulation if clearances or creepage distances are less than the values specified in 29	152 TO 152	P
4p	b) open circuit at the terminals of any component		Р
	c) short circuit of capacitors, unless	10 The 10	P
	they comply with IEC 60384-14	75, 70 75	N
"Sil	d) short circuit of any two terminals of an electronic component, other than integrated circuits.	The The	P
C. AB	This fault condition is not applied between the two circuits of an optocoupler	To the Top To	Р
	e) failure of triacs in the diode mode		Р
1.	f) failure of an integrated circuit	10 No 10	Р
	g) failure of an electronic power switching device	30 70 To.	N
57198 20	Each low power circuit is short-circuited by connecting the low-power point to the pole of the supply source from which the measurements were made	10 10, 10 10 10, 10	N
19.11.3	If the appliance incorporates a protective electronic circuit which operates to ensure compliance with clause 19, the relevant test is repeated with a single fault simulated, as indicated in a) to g) of 19.11.2	57, 76 75, 75, 76 76, 76, 76 76, 76 76, 76	N
19.11.4	Appliances having a device with an off position obtained by electronic disconnection, or	No such switch with electronic disconnection	N
-	a device that can be placed in the stand-by mode	75 70 76	NŚ
10, 10, 10,	subjected to the tests of 19.11.4.1 to 19.11.4.7, the device being set in the off position or in the stand-by mode	15-240 - 15-14	N
	Appliances incorporating a protective electronic circuit subjected to the tests of 19.11.4.1 to 19.11.4.7, the tests being carried out after the protective electronic circuit has operated, except that	10 10, 100 00 00 00 00 00 00 00 00 00 00 00 00	N

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	IEC 60335-2-65		
CI.	Requirement - Test	Result	Verdic
190 190	appliances operated for 30 s or 5 min during the test of 19.7 are not subjected to the tests for electromagnetic phenomena	190 - 101	N
35	Surge protective devices disconnected, unless	10	Ν
2.	They incorporate spark gaps	S (2)	N
19.11.4.1	The appliance is subjected to electrostatic discharges in accordance with IEC 61000-4-2, test level 4	57 70 75	70 N 70 70
19.11.4.2	The appliance is subjected to radiated fields in accordance with IEC 61000-4-3, test level 3	100 100	N
19.11.4.3	The appliance is subjected to fast transient bursts in accordance with IEC 61000-4-4, test level 3 or 4 as specified	51.50 51.50 451	N 9
19.11.4.4	The power supply terminals of the appliance subjected to voltage surges in accordance with IEC 61000-4-5, test level 3 or 4 as specified	10 10 10	70 N.) 70 R.)
40.	Earthed heating elements in class I appliances disconnected	10, 90	N/
19.11.4.5	The appliance is subjected to injected currents in accordance with IEC 61000-4-6, test level 3	40 10	N
19.11.4.6	Appliances having a rated current not exceeding 16 A are subjected to the Class 3 voltage dips and interruptions in accordance with IEC 61000-4-11	10 10714	N
10. C	Appliances having a rated current exceeding 16 A are subjected to the Class 3 voltage dips and interruptions in accordance with IEC 61000-4-34	The de	N
19.11.4.7	The appliance is subjected to mains signals in accordance with IEC 61000-4-13, test level class 2	40 10	N
19.11.4.8	The appliance is supplied at rated voltage and operated under normal operation. After 60s the power supply is reduced to a level such that the appliance ceases to respond or parts controlled by the programmable component cease to operate	157.30 157.30 157.30	N
70	The appliance continues to operate normally, or	4	Ν
7 ₃	requires a manual operation to restart	8 6	N
19.12	If the safety of the appliance for any of the fault conditions specified in 19.11.2 depends on the operation of a miniature fuse-link complying with IEC 60127, the test is repeated, measuring the current flowing through the fuse-link; measured current (A); rated current of the fuse-link (A)	107140 107140 2140	P
19.13	During the tests the appliance does not emit flames, molten metal, poisonous or ignitable gas in hazardous amounts	10 - 76 - ¹ 4	Р

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CI.	Requirement - Test	Result	Verdict
14	Temperature rises not exceeding the values shown in table 9	(see appended table)	P
107	Compliance with clause 8 not impaired	6 85 86	Р
4.	If the appliance can still be operated it complies with 20.2	20, 20 20,	Р
ny ang	Insulation, other than of class III appliances or class II contain live parts, withstands the electric strength test specified in table 4:		10 16
19	- basic insulation (V)	1250	Р
<u>e</u> 1	- supplementary insulation (V)	1750	Р
202	- reinforced insulation (V)	3000	Р
51-1-9-0 - 0-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	After operation or interruption of a control, clearances and creepage distances across the functional insulation withstand the electric strength test of 16.3, the test voltage being twice the working voltage	10 10 10 100	N
-top	The appliance does not undergo a dangerous malfunction, and	70, 40, 70, 70,	Р
5. S	no failure of protective electronic circuits, if the appliance is still operable	140 20, 140	N
ie le	Appliances tested with an electronic switch in the off p mode:	position, or in the stand-by	705
10	- do not become operational, or	10× 10 10	N
15. J.	- if they become operational, do not result in a dangerous malfunction during or after the tests of 19.11.4	5, 70 To 140	N
9.0	If the appliance contains lids or doors that are controll one of the interlocks may be released provided that:	led by one or more interlocks,	76 .
3	- the lid or door does not move automatically to an open position when the interlock is released, and	10 10 10 T	N
107. C.	- the appliance does not start after the cycle in which the interlock was released	1 10 20 19	N
19.14	Appliances operated under the conditions of clause 11, any contactor or relay contact operating under the conditions of clause 11 being short-circuited	40 35 40 4	N
y Tr.	For a relay or contactor with more than one contact, all contacts are short-circuited at the same time	30 × 30 × 30	N
(198 (98	A relay or contactor operating only to ensure the appliance is energized for normal use is not short- circuited	1 40 10 10 14	N
- The	If more than one relay or contactor operates in clause 11, they are short-circuited in turn	10 to 40 .	N

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	IEC 60335-2-65	1 9 1	6.9
CI.	Requirement - Test	Result	Verdic
19.15	For appliances with a mains voltage selector switch, the switch is set to the lowest rated voltage position and the highest value of rated voltage is applied		N
20	STABILITY AND MECHANICAL HAZARDS		
20.1	Appliances having adequate stability		Р
1.146 140	Tilting test through an angle of 10°, appliance placed on an inclined plane/horizontal support, not connected to the supply mains; appliance does not overturn	Not overturn	 P 3
* *	Tilting test repeated on appliances with heating elements, angle of inclination increased to 15°	the the	N
S. S. S.	Possible heating test in overturned position; temperature rise does not exceed values shown in table 9	157, 76 TO 1. (10	N
20.2	Moving parts adequately arranged or enclosed as to provide protection against personal injury	78 757 78	Р
No.	Protective enclosures, guards and similar parts are non-detachable, and	70, 70 70	Р
19	have adequate mechanical strength		P
C.A.B	Enclosures that can be opened by overriding an interlock are considered to be detachable parts	10 102 10 10 10 10	N
10 1 10	Self-resetting thermal cut-outs and overcurrent protective devices not causing a hazard by unexpected closure	130 FS	N
153) ²⁴	Not possible to touch dangerous moving parts with the test probe described		P
21	MECHANICAL STRENGTH		
21.1	Appliance has adequate mechanical strength and is constructed as to withstand rough handling	10 UN 10 10	Ρ
5.45 5.45	Checked by applying 3 blows to every point of the enclosure like to be weak, in accordance with test Ehb of IEC 60068-2-75, spring hammer test, with an impact energy of 0,5 J	0.5J, three blows apply to plastic panel and enclosure, no damage	P
76	The appliance shows no damage impairing compliance with this standard, and	70 To 70	P
26%	compliance with 8.1, 15.1 and clause 29 not impaired	200 C 10	Р
857	If doubt, supplementary or reinforced insulation subjected to the electric strength test of 16.3	Sile to the	N
78 70	If necessary, repetition of groups of three blows on a new sample	10 10 100	N
21.2	Accessible parts of solid insulation having strength to prevent penetration by sharp implements	the term	Р

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	IEC 60335-2-65	1 10 10	20	
CI.	Requirement - Test	Result	Verdic	
198 198	Test not applicable if the thickness of supplementary insulation is at least 1 mm and reinforced insulation at least 2 mm		Р	
- 3	The insulation is tested as specified, and does withstand the electric strength test of 16.3	30, 30 30	N	
22	CONSTRUCTION			
22.1	Appliance marked with the first numeral of the IP system, relevant requirements of IEC 60529 are fulfilled	140 - 150 - 140 10 - 1 - 140	N	
22.2	Stationary appliance: means to ensure all-pole disconnection from the supply being provided:			
- C.S.	- a supply cord fitted with a plug, or	Not stationary appliance	N	
2 4	- a switch complying with 24.3, or	Sec. a Sec.	N	
(48) - 1	- a statement in the instruction sheet that a disconnection incorporated in the fixed wiring is to be provided, or	10 201 20	N	
4.	- an appliance inlet	10 M 10	N	
27.5 7.58	Singe-pole switches and single-pole protective devices for the disconnection of heating elements in single-phase, permanently connected class 0I and class I appliances, connected to the phase conductor		N	
22.3	Appliance provided with pins: no undue strain on socket-outlets	75, 120 7.	N	
7 (s)	Applied torque not exceeding 0.25 Nm	As As As	N	
	Pull force of 50N to each pin after the appliance has being placed in the heating cabinet; when cooled to room temperature the pins are not displaced by more than 1mm	11-10 - 35, 140 140 - 35, 140	N	
e 4.	Each pin subjected to a torque of 0.4Nm; the pins are not rotating unless	30, % 3	Ν	
€ ₂ . ¹ 4	rotating does not impair compliance with the standard	and a training	N	
22.4	Appliance for heating liquids and appliance causing undue vibration not provided with pins for insertion into socket-outlets	40 57 40	N	
22.5	No risk of electric shock when touching the pins of the plug, for appliances having a capacitor with rated capacitance exceeding $0,1\mu$ F, the appliance being disconnected from the supply at the instant of voltage peak		P	
20	Voltage not exceeding 34 V (V)	20V	Р	
22.6	Electrical insulation not affected by condensing water or leaking liquid	No liquid and water	N	

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	IEC 60335-2-65	1. To To	190
CI.	Requirement - Test	Result	Verdict
198	Electrical insulation of Class II appliances not affected in case of a hose rupture or seal leak	1 40 To 140	N
107	In case of doubt, test as described	6 35 No 1	N
22.7	Adequate safeguards against the risk of excessive pressure in appliances containing liquid or gases or having steam-producing devices	No provide with steam- producing device	N
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	140 40, 140 16 40, 140	N
22.9	Insulation, internal wiring, windings, commutators and slip rings not exposed to oil, grease or similar substances, unless	No oil, grease or similar substances	P
	the substance has adequate insulating properties	40 70 40	N
22.10	Not possible to reset voltage-maintained non-self resetting thermal cut-outs by the operation of an automatic switching device incorporated within the appliance, if:	10 10, 10 10, 10 10	N
1. U.S.	- a non-self-resetting thermal cut-out is required by the standard, and	the the	%_N
SCAB	- a voltage maintained non-self-resetting thermal cut- out is used to meet it	A0 40 40	N
8 · ·	Non-self-resetting thermal motor protectors have a trip-free action, unless	Th. 140 Th	N
. 22	they are voltage maintained	To to to	Ν
	Reset buttons of non-self-resetting controls so located or protected that accidental resetting is unlikely	100 101 100 100 10 100	N
22.11	Reliable fixing of non-detachable parts that provide the necessary degree of protection against electric shock, moisture or contact with moving parts	100 10 10 100 10	Р
6 ₂₂ '	Obvious locked position of snap-in devices used for fixing such parts	1 10 10 Ta	N
76 ¹ 6	No deterioration of the fixing properties of snap-in devices used in parts that are likely to be removed during installation or servicing	40 10 40 40 A	N
105	Tests as described	50N, 10s applied on enclosure	Р
22.12	Handles, knobs etc. fixed in a reliable manner	No. N. M.	Р
- 40 40	Fixing in wrong position of handles, knobs etc. indicating position of switches or similar components not possible	n a con re	P
30	Axial force 15 N applied to parts, the shape being so that an axial pull is unlikely to be applied	2 <u>35</u> 76 7	N

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CI.	Requirement - Test	Result	Verdict
4	Axial force 30 N applied to parts, the shape being so that an axial pull is likely to be applied	40 35 CT6	P
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	0 - 10, - 10	N
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	Р
70 . 7	No exposed pointed ends of self-tapping screws or other fasteners, likely to be touched by the user in normal use or during user maintenance	10 15 140 10 10 10 10 10 10 10 10 10 10 10 10 10	Ρ
22.15	Storage hooks and the like for flexible cords smooth and well rounded	No such device	N
22.16	Automatic cord reels cause no undue abrasion or damage to the sheath of the flexible cord, no breakage of conductors strands, no undue wear of contacts	No automatic cord reel	Z
4	Cord reel tested with 6000 operations, as specified	10, 10 Th	N
5. 19	Electric strength test of 16.3, voltage of 1000 V applied	The start	N
22.17	Spacers not removable from the outside by hand or by means of a screwdriver or a spanner	10 10 10 10 10 10 10 10 10 10 10 10 10 1	N
22.18	Current-carrying parts and other metal parts resistant to corrosion	Relevant parts show no sign of corrosion	Ρ
22.19	Driving belts not relied upon to provide the required level of insulation, unless	No driving belts	N
14	constructed to prevent inappropriate replacement	y 10 10 78	Ν
22.20	Direct contact between live parts and thermal insulation effectively prevented, unless	The They The	Р
80	material used is non-corrosive, non-hygroscopic and non-combustible	The The	N
22.21	Wood, cotton, silk, ordinary paper and fibrous or hygroscopic material not used as insulation, unless	No such materials used as insulation	P
To Co	impregnated	70 To 70	Ν
10	This requirement does not apply to magnesium oxide and mineral ceramic fibres used for the electrical insulation of heating elements	10, 40 10 10, 40 10	N
22.22	Appliances not containing asbestos	Not containing asbestos	Р
22.23	Oils containing polychlorinated biphenyl (PCB) not used	40 to 140	N
22.24	Bare heating elements, except in class III appliances or class III constructions that do not contain live parts, adequately supported	No heating elements	N

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9	IEC 60335-2-65		6.9
CI.	Requirement - Test	Result	Verdic
4	In case of rupture, the heating conductor is unlikely to come in contact with accessible metal parts	1 400 - 400 - 1400 - 1400 - 1400 - 1400 - 1400 - 1400 - 1400 - 1400 - 1400 - 1400 - 1400 - 1400 - 1400 - 1400 -	N
22.25	Sagging heating conductors, except in class III appliances or class III constructions that do not contain live parts, cannot come into contact with accessible metal parts	0 - 102 - 10 - 102	N
22.26	For class III constructions the insulation between parts operating at safety extra-low voltage and other live parts complies with the requirements for double or reinforced insulation	57,78 75,78 75,78	N N
22.27	Parts connected by protective impedance separated by double or reinforced insulation	54 50 54	N
22.28	Metal parts of Class II appliances conductively connected to gas pipes or in contact with water: separated from live parts by double or reinforced insulation	ton to ton ton	(o N
22.29	Class II appliances permanently connected to fixed wiring so constructed that the required degree of access to live parts is maintained after installation	Not permanently connected to fixed wiring	N
22.30	Parts serving as supplementary or reinforced insulation fixed so that they cannot be removed without being seriously damaged, or	5,540 - 15, 140	P
6 . 15	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	70 70, 70 70 70, 70, 70	Р
22.31	Clearances and creepage distances over supplementary and reinforced insulation not reduced below values specified in clause 29 as a result of wear	110 - 10,140 10 - 10,140	Р
3 2 2 2 3	Clearances and creepage distances between live parts and accessible parts not reduced below values for supplementary insulation, if wires, screws etc. become loose	101 10 10 101 10 101 10	P
22.32	Supplementary and reinforced insulation constructed or protected against pollution so that clearances or creepage distances are not reduced below the values in clause 29	10 10 10 10 10 10 10	Р 1 35
107 107 107	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	16. 10 10 10 10 10 10 10 10 10 10 10 10 10	N
20	Ceramic material not tightly sintered, similar material or beads alone not used as supplementary or reinforced insulation	10 10, 10 0 10 10 10	N

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0	During The	D It	N/ P
CI.	Requirement - Test	Result	Verdic
198 198	Ceramic and similar porous material in which heating conductors are embedded is considered to be basic insulation, not reinforced insulation	190 - 157 - 19 190 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197	N
- B	Oxygen bomb test at 70°C for 96 h and 16 h at room temperature	1. To -	N
22.33	Conductive liquids that are or may become accessible in normal use and conductive liquids that are in contact with unearthed accessible metal parts are not in direct contact with live parts	No conductive liquid	6 N
	Electrodes not used for heating liquids	10 YON YO	N
100 N	For class II constructions, conductive liquids that are or may become accessible in normal use and conductive liquids that are in contact with unearthed accessible metal parts, not in direct contact with basic or reinforced insulation, unless	10, 10 - 10, 10 - 10, 10, 10 - 10,	N
1	the reinforced insulation consists of at least 3 layers	10 to 40	N
8 - 4 - 45	For class II constructions, conductive liquids which are in contact with live parts, not in direct contact with reinforced insulation, unless	40, 140 10 140 140	N
S. 3	the reinforced insulation consists of at least 3 layers	16 N.	N
140 10 - 1	An air layer not used as basic or supplementary insulation in a double insulation system if likely to be bridged by leaking liquid	70 70 M	N
22.34	Shafts of operating knobs, handles, levers etc. not live, unless	10, 70	Р
lin, ^{ne}	the shaft is not accessible when the part is removed	1 No. 1 1 1 1	N
22.35	For other than class III constructions, handles, levers and knobs, held or actuated in normal use, not becoming live in the event of a failure of basic insulation	198 - 137 - 198 - 188 - 189 - 188	P
577 57175 58	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	10, 10 10, 10, 10, 10, 100 10, 10	N
107 107 107	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	15, 10 16, 10 10 10 10 10	N
70 - 76	Insulating material covering metal handles, levers and knobs withstand the electric strength test of 16.3 for supplementary insulation	- 10, 10, 10	N

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CI.	Requirement - Test	Result	Verdic
22.36	For appliances other than class III, handles continuously held in the hand in normal use so constructed that when gripped as in normal use, the operators hand is not likely to touch metal parts, unless	190 - 257 - 290 0 - 257 - 20 20 - 257 - 20	N
-302 Ca	they are separated from live parts by double or reinforced insulation	52 20 35	N
22.37	Capacitors in Class II appliances not connected to accessible metal parts and their casings, if of metal, separated from accessible metal parts by supplementary insulation, unless	10 15, 10 10 15, 10	N
4	the capacitors comply with 22.42	100 VO	Ň
22.38	Capacitors not connected between the contacts of a thermal cut-out	No thermal cut-out	N
22.39	Lamp holders used only for the connection of lamps	No lamp holder	N
22.40	Motor-operated appliances and combined appliances intended to be moved while in operation, or having accessible moving parts, fitted with a switch to control the motor. The actuating member of the switch being easily visible and accessible	10 10, 10 10, 10 10 10, 10 10,	N
	If the appliance cannot operate continuously, automatically or remotely without giving rise to a hazard, appliances for remote operation being fitted with a switch for stopping the operation. The actuating member of the switch being easily visible and accessible	10 10, 10 10 10, 10 10, 10 10	N
22.41	No components, other than lamps, containing mercury	and the star	N
22.42	Protective impedance consisting of at least two separate components	40 15 M	3 ^N
- 103	Values specified in 8.1.4 not exceeded if any one of the components are short-circuited or open-circuited	37, 30 3	Ν
\$3. ×	Resistors checked by the test of 14.1 a) in IEC 60065	and the second	N
	Capacitors checked by the tests for class Y capacitors in IEC 60384-14	40 35 40	N
22.43	Appliances adjustable for different voltages, accidental changing of the setting of the voltage unlikely to occur	No adjustable device	N
22.44	Appliances not having an enclosure that is shaped or decorated like a toy	The appliance is not likely to be treated as a toy	Р
22.45	When air is used as reinforced insulation, clearances not reduced below the values specified in 29.1.3 due to deformation as a result of an external force applied to the enclosure		Р

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	IEC 60335-2-65	4. 4.	7.
Cl.	Requirement - Test	Result	Verdic
22.46	For programmable protective electronic circuits used to ensure compliance with the standard, the software contains measures to control the fault/error conditions in table R.1	No software	N
101.70 101.70	Software that contains measures to control the fault/error conditions specified in table R.2 is to be specified in parts 2 for particular constructions or to address specific hazards	Andrew Andrew Shi an Angre	N
90 1 1	These requirements are not applicable to software used for functional purpose or compliance with clause 11	6 15, 16	N
22.47	Appliances connected to the water mains withstand the water pressure expected in normal use.	Not connect to water mains	N
Stree St	No leakage from any part, including any inlet water hose	40 to, 40	N
22.48	Appliances connected to the water mains constructed to prevent backsiphonage of non potable water	10 107 10 10 10 10 10 10	N
22.49	For remote operation, the duration of operation is to be set before the appliance can be started, unless	30 - 50 - 50 - 50 - 50 - 50 - 50 - 50 -	N
1 composition	the appliance switches off automatically or can operate continuously without hazard	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N
22.50	Controls incorporated in the appliance take priority over controls actuated by remote operation	The star of	N
22.51	There is a control on the appliance manually adjusted to the setting for remote operation before the appliance can be operated in this mode	107 10 107 10 10 10 10 10 10 10 10 10 10 10 10 10	N
10	There is a visual indication showing that the appliance is adjusted for remote operation	40 15, 40	N
4 4	These requirements not necessary on appliances that giving rise to a hazard:	can operate as follows, without	1
9	- continuously, or	The the	N
2	- automatically, or	x 70 75x 90	N
18	- remotely	40 10 40	N
22.52	Socket-outlets on appliances accessible to the user in accordance with the socket-outlet system used in the country in which the appliance is sold		N
22.101	Appliance has no openings on the underside that would allow small items to penetrate and touch live parts. (IEC 60335-2-65)	a to the	Ρ
22.102	Interlock switches preventing access to live parts during user maintenance are connected in the input circuit and preventing unintentional operation. (IEC 60335-2-65)	No interlock switch	N

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Verdict

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Result

23	INTERNAL WIRING		
23.1	Wireways smooth and free from sharp edges		Р
1	Wires protected against contact with burrs, cooling fins etc.	1 2 4	Р
102	Wire holes in metal well-rounded or provided with bushings	5. 40 Th	N
in a second	Wiring effectively prevented from coming into contact with moving parts	70 70, 70	P
23.2	Beads etc. on live wires cannot change their position, and are not resting on sharp edges	10, 140 10	N
25.0	Beads inside flexible metal conduits contained within an insulating sleeve	35. 40 35.	N
23.3	Electrical connections and internal conductors movable relatively to each other not exposed to undue stress	No internal wire movable relatively to each other	N
8	Flexible metallic tubes not causing damage to insulation of conductors	10, 20 10	N
. S.	Open-coil springs not used	To 70 To	7 ₆ N
S. Color	Adequate insulating lining provided inside a coiled spring, the turns of which touch one another	10 10 90	N
la l	No damage after 10 000 flexings for conductors flexed during normal use or	10 107.44 NO	N
30	100 flexings for conductors flexed during user maintenance	24 90 24	N
asy to	Electric strength test of 16.3, 1000 V between live parts and accessible metal parts	1 40 Top 49	N
96	Not more than 10% of the strands of any conductor broken, and	10 10 10 10	N
10	not more than 30% for wiring supplying circuits that consume no more than 15W	3. 36 To	N
23.4	Bare internal wiring sufficiently rigid and fixed	40 10 4	N
23.5	The insulation of internal wiring subjected to the supply mains voltage withstanding the electrical stress likely to occur in normal use	40 30 40	Р
767 767	Basic insulation electrically equivalent to the basic insulation of cords complying with IEC 60227 or IEC 60245, or	the the	N
	no breakdown when a voltage of 2000 V is applied for 15 min between the conductor and metal foil wrapped around the insulation	2000V, 15min No Breakdown	P

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	IEC 60335-2-65	2 9 9	6.0			
CI.	Requirement - Test	Result	Verdic			
23.6	Sleeving used as supplementary insulation on internal wiring retained in position by clamping at both ends, or	10 157 40	N			
3	be such that it can only be removed by breaking or cutting	35 45 M	Ν			
23.7	The colour combination green/yellow used only for earthing conductors	Class I	Р			
23.8	Aluminium wires not used for internal wiring	Not used	P			
23.9	Stranded conductors not consolidated by soldering where they are subjected to contact pressure, unless	Not subject to contact pressure	Р			
4.	the contact pressure is provided by spring terminals	ŝ.	N			
23.10	The insulation and sheath of internal wiring, incorporated in external hoses for the connection of an appliance to the water mains, at least equivalent to that of light polyvinyl chloride sheathed flexible cord (60227 IEC 52)		6 N 70 76			
24	COMPONENTS					
24.1	Components comply with safety requirements in relevant IEC standards	20, 20 20, 1	P			
Sec.	List of components	(see appended table)	Р			
	If components have not been tested and found to comply with relevant IEC standard for the number of cycles specified, they are tested in accordance with 24.1.1 to 24.1.9	10 10 10 10 10 10	P			
	For components mentioned in 24.1.1 to 24.1.9 no additional tests specified in the relevant component standard are necessary other than those specified in 24.1.1 to 24.1.9	102 0 102 00 102 100 100 100 100 100 100	Р			
	Components not tested and found to comply with relevant IEC standard and components not marked or not used in accordance with its marking, tested under the conditions occurring in the appliance	151 151 151 151 151 151 151 151 151	N			
	Lampholders and starterholders that have not being tested and found to comply with the relevant IEC standard, tested as a part of the appliance and additionally according to the gauging and interchangeability requirements of the relevant IEC standard		N			
Ton yo	No additional tests specified for nationally standardized plugs such as those detailed in IEC/TR 60083 or connectors complying with the standard sheets of IEC 60320-1 and IEC 60309		Р			

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	IEC 60335-	-2-65		
CI.	Requirement - Test		Result	Verdict
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		Р	
-702	If the capacitors have to be tested, they are to according to Annex F	ested	the the the	N
24.1.2	Safety isolating transformers complying with 61558-2-6	IEC	and the star	N
78	If they have to be tested, they are tested according Annex G	ording to	6 75, 70	Ν
24.1.3	Switches complying with IEC 61058-1, the nucleosity cycles of operation being at least 10 000	umber of	The the the	N
9. ^{- C} 4	If they have to be tested, they are tested according Annex H	The second	N	
78	If the switch operates a relay or contactor, the complete switching system is subjected to the	to ty to	N	
15.4	If the switch only operates a motor staring relay complying with IEC 60730-2-10 with the number of cycles of a least 10 000 as specified, the complete switching system need not be tested		10, 10 10, 10, 10 10,	N
C.A.S	Interlock switches are operated 1 000 times. (IEC 60335-2-65)	70 70 70	N	
24.1.4	Automatic controls comply with IEC 60730-1 with the relevant part 2. The number of cycles of operation being at least:			
. S.	- thermostats:	10 000	To to to	N
	- temperature limiters:	1 000	The standard	N
10	- self-resetting thermal cut-outs:	300	Carl a Carl	N
<i>¶</i> @	- voltage-maintained non-self-resetting thermal cut-outs	1 000	1. 4. 4.	N
-	- other non-self-resetting thermal cut-outs	30	An in an	N
C.C.	- timers:	3 000	12 . N.	N
	- energy regulators:	10 000	N 19 10 18	N
16 76)	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			
157.90	Thermal motor protectors are tested in combination with their motor under the conditions specified in Annex D.			

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CI.	Requirement - Test	Result	Verdict
10 10 10	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 declared for sub clause 6.5.2 of IEC 60730-2-8 is IPX7		N
24.1.5	Appliance couplers complying with IEC 60320-1	1	N
140	However, for class II appliances classified higher than IPX0, the appliance couplers comply with IEC 60320-2-3	20 W.	20 ° N 30
1	Interconnection couplers complying with IEC 60320- 2-2	0 10, 10 1, 11	N
24.1.6	Small lamp holders similar to E10 lampholders complying with IEC 60238, the requirements for E10 lampholders being applicable	No lampholders	N
24.1.7	If the remote operation of the appliance is via a telecommunication network, the relevant standard for the telecommunication interface circuitry in the appliance is IEC 62151	10 10, 10 10 10, 10	N
24.1.8	The relevant standard for thermal links is IEC 60691	The Yes A	N
STURB	Thermal links not complying with IEC 60691 are considered to be an intentionally weak part for the purposes of Clause 19	190 Ton	N N
24.1.9	Contactors and relays, other than motor starting relays, tested as part of the appliance	10 1/20	N
1072 1072	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	102 100 10 102 100 102	N
24.2	Appliances not fitted with:	70 To. 7	à 1
.	- switches or automatic controls in flexible cords	The top	Р
5	- devices causing the protective device in the fixed wiring to operate in the event of a fault in the appliance	157 10 1	P
70	- thermal cut-outs that can be reset by soldering, unless	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Р
	the solder has a melding point of at least 230 °C	10 10	N C
24.3	Switches intended for all-pole disconnection of stationary appliances are directly connected to the supply terminals and having a contact separation in all poles, providing full disconnection under overvoltage category III conditions		N

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	IEC 60335-2-65	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
CI.	Requirement - Test	Result	Verdict
24.4	Plugs and socket-outlets for extra-low voltage circuits and heating elements, not interchangeable with plugs and socket-outlets listed in IEC/TR 60083 or IEC 60906-1 or with connectors and appliance inlets complying with the standard sheets of IEC 60320-1		N
24.5	Capacitors in auxiliary windings of motors marked with their rated voltage and capacitance and used accordingly	1374 - 157. 197 197.	N
(40 4	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	10 157170 157170	N
24.6	Working voltage of motors connected to the supply mains and having basic insulation that is inadequate for the rated voltage of the appliance, not exceeding 42V	101-100 101-0 101-100 101-0	7.0 N
2	In addition, the motors are complying with the requirements of Annex I	10 - 10 - 70 	N
24.7	Detachable hose-sets for connection of appliances to the water mains comply with IEC 61770	R. To To	N
S> 1	They are supplied with the appliance	San de S	N
96 6	Appliances intended to be permanently connected to the water mains not connected by a detachable hose-set	40 107, 40	N
24.8	Motor running capacitors in appliances for which 30.2.3 is applicable and that are permanently connected in series with a motor winding, not causing a hazard in event of a failure	107 - 20 - 107 	N
18	One or more of the following conditions are to be met:	40 To 44	Ν
le a	- the capacitors are of class P2 according to IEC 60252-1	15, 14,	N
10.02	- the capacitors are housed within a metallic or ceramic enclosure	the to	N
1240	- the distance of separation of the outer surface to adjacent non-metallic parts exceeds 50 mm	a a an	N
18 10	- adjacent non-metallic parts within 50 mm withstand the needle-flame test of Annex E	15, 40	N
16. N	- adjacent non-metallic parts within 50 mm classified as at least V-1 according to IEC 60695-11-10	N. 40 N	N
24.101	Interlock switches that prevent access to live parts due (IEC 60335-2-65)	ring user maintenance:	
18	 disconnect all poles, unless the secondary circuit is supplied through an isolating transformer; 	9 10 40	N

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IEC	60335-2-65

CI.	Requirement - Test	Result	Verdict		
4	 – have a contact separation that provides full disconnection in accordance with IEC 61058-1. 	1470 - 255 - 148	N		
25	SUPPLY CONNECTION AND EXTERNAL FLEXIBLE CORDS				
25.1	Appliance not intended for permanent connection to for connection to the supply:	ixed wiring, means for	1496		
	- supply cord fitted with a plug,	19 19 19	P		
1.38	- an appliance inlet having at least the same degree of protection against moisture as required for the appliance, or	10 10, 100 10 10, 100	N		
÷ 1	- pins for insertion into socket-outlets	10 70 70	N		
25.2	Appliance not provided with more than one means of connection to the supply mains	the the the	N		
1. 19 C	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	54 64 54 64 56 66 56 66 66 66 66 66 66 66 66 66 66	N		
25.3	5.3 Appliance intended to be permanently connected to fixed wiring provided with one of the following means for connection to the supply mains:		70		
CLAR.	- a set of terminals allowing the connection of a flexible cord	10 - Top - Top	N		
<u>1</u>	- a fitted supply cord		Ν		
15	- a set of supply leads accommodated in a suitable compartment	10, 70 70 10, 70 70	N		
45, 138 98, 138	- a set of terminals for the connection of cables of fixed wiring, cross-sectional areas specified in 26.6, and the appliance allows the connection of the supply conductors after the appliance has been fixed to its support	140 140 151 150 151 150	N To		
107 107 108	- a set of terminals and cable entries, conduit entries, knock-outs or glands, allowing connection of appropriate types of cable or conduit, and the appliance allows the connection of the supply conductors after the appliance has been fixed to its support		N		
15 15 15 15	For a fixed appliance constructed so that parts can be removed to facilitate easy installation, this requirement is met if it is possible to connect the fixed wiring without difficulty after a part of the appliance has been fixed to its support	10, 10 10 10, 10 10, 10 10, 10 10 10, 10	N		
25.4	Cable and conduit entries, rated current of appliance not exceeding 16 A, dimension according to table 10 (mm)	the south so	N		

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E-mail(邮箱)

IEC 60335-2-65				
CI.	Requirement - Test	Result	Verdict	
198 198	Introduction of conduit or cable does not reduce clearances or creepage distances below values specified in clause 29		N	
25.5	Method for assembling the supply cord to the appliance	ce:	°2,	
- 107 - Ca	- type X attachment	type X	Р	
	- type Y attachment	S. 76 B. 7	N	
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	type Z attachment is allowed for appliances not exceeding 3 kg. (IEC 60335-2-65)	70 70, 70	N	
e 1	Type X attachment, other than those with a specially prepared cord, not used for flat twin tinsel cords	70 170 7	N	
57 57 57	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 type Y attachment	157, 70 157, 70 157, 70 157, 70	N	
25.6	Plugs fitted with only one flexible cord	70 70 90	Р	
25.7	Supply cords, other than for class III appliances, being one of the following types:			
	- rubber sheathed (at least 60245 IEC 53)		N	
	- polychloroprene sheathed (at least 60245 IEC 57)		N	
	- polyvinyl chloride sheathed. Not used if they are likely to touch metal parts having a temperature rise exceeding 75 K during the test of clause 11		76	
	 light polyvinyl chloride sheathed cord (60227 IEC 52), for appliances not exceeding 3 kg 	- 35 To - 36	N	
	ordinary polyvinyl chloride sheathed cord (60227 IEC 53), for other appliances	302 ° 80 702	Р	
170	- heat resistant polyvinyl chloride sheathed. Not used for type X attachment other than specially prepared cords			
40 45	 heat-resistant light polyvinyl chloride sheathed cord (60227 IEC 56), for appliances not exceeding 3 kg 	157 to 15	N	
105 10 10 10 10	 heat-resistant polyvinyl chloride sheathed cord (60227 IEC 57), for other appliances 	Star a Star	N	
	Supply cords for class III appliances adequately insulated	40 6 40	N	
	Test with 500 V for 2 min for supply cords of class III appliances that contain live parts	15 40 16	N	
25.8	Nominal cross-sectional area of supply cords according to table 11; rated current (A); cross- sectional area (mm ²)	0.68A, 2x0.75mm ²	Р	
25.9	Supply cord not in contact with sharp points or edges	70 75 70	Р	
05.40				

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Supply cord of class I appliances have a

green/yellow core for earthing

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- 3	IEC 60335-2-65		
CI.	Requirement - Test	Result	Verdic
25.11	Conductors of supply cords not consolidated by soldering where they are subject to contact pressure, unless	190 - 107	N
1	the contact pressure is provided by spring terminals	1 16	N
25.12	Insulation of the supply cord not damaged when moulding the cord to part of the enclosure	57. 98 15. 98	N
25.13	Inlet opening so shaped as to prevent damage to the supply cord	1.70 Kg	N
	If the enclosure at the inlet opening is not of insulating material, a non-detachable lining or bushing complying with 29.3 for supplementary insulation provided	0 1519 1919	N
n, ¹ 4	If unsheathed supply cord, a similar additional bushing or lining is required, unless the appliance is	1.90 40	N
48	class 0, or	To the	N
	a class III appliance not containing live parts	5	N
25.14	Supply cords moved while in operation adequately protected against excessive flexing	10, 40 Go	N
s	Flexing test, as described:	ila. a	J.
Color	- applied force (N):		N
4	- number of flexings:	19. 19.	N N
	The test does not result in:	15 V	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
	- short-circuit between the conductors, such that the current exceeds a value of twice the rated current	157 90	N N
170	- breakage of more than 10% of the strands of any conductor	10 7	N
<u>م</u>	- separation of the conductor from its terminal		N
4.	- loosening of any cord guard		N
a - 12	- damage to the cord or the cord guard	10, 10	- N
N.C. TA	- broken strands piercing the insulation and becoming accessible	2 70 1	N .
25.15	For appliances with supply cord and appliances to be permanently connected to fixed wiring by a flexible cord, conductors of the supply cord relieved from strain, twisting and abrasion by use of cord anchorage	10 10 10 10	N
70	The cord cannot be pushed into the appliance to such an extent that the cord or internal parts of the appliance can be damaged	10 10	N
૾ૼૼૼૼૼ	Pull and torque test of supply cord, values shown in table 12: mass (kg); pull (N); torque (not on automatic cord reel) (Nm)	The second	N

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	Deguirement Test	Deput	Verdiet
CI.	Requirement - Test	Result	Verdic
14. 14	Cord not damaged and max. 2 mm displacement of the cord	140 35 C	N
25.16	Cord anchorages for type X attachments constructed	and located so that:	
	- replacement of the cord is easily possible	20 40	N
	- it is clear how the relief from strain and the prevention of twisting are obtained	5. 40 5.	N
	- they are suitable for different types of supply cord;	10 mg	N
10 	- cord cannot touch the clamping screws of cord anchorage if these screws are accessible, unless	6 35 40	N
200	they are separated from accessible metal parts by supplementary insulation	15. 40	N _o
92, ¹⁴	- the cord is not clamped by a metal screw which bears directly on the cord	1. 16 TO	N
18	- at least one part of the cord anchorage securely fixed to the appliance, unless	to the to	N
-	it is part of a specially prepared cord	76. 7¢	N N
1953	- screws which have to be operated when replacing the cord do not fix any other component, unless	757 50 75	N
Ceres .	the appliance becomes inoperative or incomplete or the parts cannot be removed without a tool	No The	N
le -	- if labyrinths can be bypassed the test of 25.15 is nevertheless withstood	15, 190	N
107 107	- for Class 0, 0I and I appliances: they are of insulating material or are provided with an insulating lining, unless	20 20 20 20 20 20 20	N
10 9.	failure of the insulation of the cord does not make accessible metal parts live	40 10 Kg	N
	- for Class II appliances: they are of insulating material, or	137 80	N
the second	if of metal, they are insulated from accessible metal parts by supplementary insulation	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N
16 16	After the test of 25.15, under the conditions specified, the conductors have not moved by more than 1 mm in the terminals	40 - To 140	N
25.17	Adequate cord anchorages for type Y and Z attachment, test with the cord supplied with the appliance	To 20 7	P
25.18	Cord anchorages only accessible with the aid of a tool, or	ALL ALL ALL	Р
	Constructed so that the cord can only be fitted with the aid of a tool	10 to the	P

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	IEC 60335-2-65		S. 190
CI.	Requirement - Test	Result	Verdict
25.19	Type X attachment, glands not used as cord anchorage in portable appliances	1 40 - 10 - 10 1 40 - 10 - 14	N
1	Tying the cord into a knot or tying the cord with string not used	e 10, 10	N
25.20	The insulated conductors of the supply cord for type Y and Z attachment additionally insulated from accessible metal parts	5. 8 5.	P
25.21	Space for supply cord for type X attachment or for cor constructed:	nnection of fixed wiring	6 <u>-</u> 6
9 - 7 70	- to permit checking of conductors with respect to correct positioning and connection before fitting any cover	1577 B	N
S. 4	- so there is no risk of damage to the conductors or their insulation when fitting the cover	37.40 A. 37.	N
78 9	- for portable appliances, so that the uninsulated end of a conductor, if it becomes free from the terminal, prevented from contact with accessible metal parts	10 10, 100	N
100	2 N test to the conductor for portable appliances; no contact with accessible metal parts	the the the	N
25.22	Appliance inlet:	The to the	7
A8	- live parts not accessible during insertion or removal	To so the	N
le -	Requirement not applicable to appliance inlets complying with IEC 60320-1	10, 140	N
3	- connector can be inserted without difficulty	to the to	N
b_{λ}	- the appliance is not supported by the connector		N
10	- not for cold conditions if temp. rise of external metal parts exceeds 75 K during clause 11, unless	40 40 M	N
(† 1	the supply cord is not likely to touch such metal parts	the last	N
25.23	Interconnection cords comply with the requirements for the supply cord, except that:	5 % To	
57.CAB	- the cross-sectional area of the conductors is determined on the basis of the maximum current during clause 11	10 10 10 10 10 10 10 10 10 10 10 10 10 1	N
- GS	- the thickness of the insulation may be reduced	1. 12.	N
207	If necessary, electric strength test of 16.3		N
25.24	Interconnection cords not detachable without the aid of a tool if compliance with the standard is impaired when they are disconnected		N
25.25	Dimensions of pins that are inserted into socket- outlets compatible with the dimensions of the relevant socket-outlet.		N

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	IEC 60335-2-65		
CI.	Requirement - Test	Result	Verdic
40	Dimensions of pins and engagement face in accordance with the dimensions of the relevant plug in IEC/TR 60083	and the second	N
26	TERMINALS FOR EXTERNAL CONDUCTORS		
26.1	Appliances provided with terminals or equally effective devices for connection of external conductors	5. 5 S	P
CAR .	Terminals only accessible after removal of a non- detachable cover, except	to to the	lo Po
s 1	for class III appliances that do not contain live parts	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N
10. 10.	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	57,40 K.	N°
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	10 10, 110 10, 10	70, N
- 2	the connections are soldered	To to to	N
SP.CAN	Screws and nuts serve only to clamp supply conductors, except	1 40 th	Se N
to A	internal conductors, if so arranged that they are unlikely to be displaced when fitting the supply conductors	107.70 07 107.707	N
10. 10. 10.	If soldered connections used, the conductor so positioned or fixed that reliance is not placed on soldering alone, unless	37, 30 TO.	N
જ જ જ	barriers provided so that neither clearances nor creepage distances between live parts and other metal parts reduced below the values for supplementary insulation if the conductor becomes free at the soldered joint	540 - 1571 40 1571 40 1571 40 - 1	N
26.3	Terminals for type X attachment and for connection to fixed wiring so constructed that the conductor is clamped between metal surfaces with sufficient contact pressure and without damaging the conductor	40 - 70 - 40	N
	Terminals fixed so that when the clamping means is t	ightened or loosened:	N
25%	- the terminal does not become loosen	2 3	N
40	- internal wiring is not subjected to stress	44 19 19	N
20	- neither clearances nor creepage distances are reduced below the values in clause 29	To 302 30	N

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	IEC 60335-2-65	- 10 6 76	1.724
CI.	Requirement - Test	Result	Verdic
198 198	Compliance checked by inspection and by the test of subclause 9.6 of IEC 60999-1, the torque applied being equal to two-thirds of the torque specified (Nm)		N
1	No deep or sharp indentations of the conductors		N
26.4	Terminals for type X attachment, except those having a specially prepared cord and those for the connection of cables of fixed wiring, no special preparation of conductors such as by soldering, use of cable lugs, eyelets or similar, and		N
9 - 1 	so constructed or placed that conductors prevented from slipping out when clamping screws or nuts are tightened	0 - 20, 20 20, 20 20, 20	S N
26.5	Terminals for type X attachment so located or shielded that if a wire of a stranded conductor escapes, no risk of accidental connection to other parts that result in a hazard	Ton to the ton	lo N
6	Stranded conductor test, 8 mm insulation removed	े प्र <u>क</u> ्राद	N
	No contact between live parts and accessible metal parts and,	10 10 10 10	N
51.98	for class II constructions, between live parts and metal parts separated from accessible metal parts by supplementary insulation only	140 - 157 - 140 140 - 157 - 140	N
26.6	Terminals for type X attachment and for connection to fixed wiring suitable for connection of conductors with required cross-sectional area according to table 13; rated current (A); nominal cross-sectional area (mm ²)	10, 10, 10, 10 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,	N
14	If a specially prepared cord is used, terminals need only be suitable for that cord	and the second	N
26.7	Terminals for type X attachment, except in class III appliances not containing live parts, accessible after removal of a cover or part of the enclosure	10, 20, 1	N
26.8	Terminals for the connection to fixed wiring, including the earthing terminal, located close to each other	14 To 14	N
26.9	Terminals of the pillar type constructed and located as specified	40 Th 40	N
26.10	Terminals with screw clamping and screwless terminals not used for flat twin tinsel cords, unless	10, 10 1	N
107. 20	conductors ends fitted with a device suitable for screw terminals	40 70 14	N
с Ф С.	Pull test of 5 N to the connection	40 40 40	Ν
26.11	For type Y and Z attachment: soldered, welded, crimped and similar connections may be used	e to the	N

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18	IEC 60335-2-65	4	
CI.	Requirement - Test	Result	Verdic
	For Class II appliances: the conductor so positioned or fixed that reliance is not placed on soldering, welding or crimping alone	190 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197 - 197	N,
75 75-75	If soldering, welding or crimping alone used, barriers provided so that clearances and creepage distances between live parts and other metal parts are not reduced below the values for supplementary insulation if the conductor becomes free	15, 16 (5, 10 1	N
27	PROVISION FOR EARTHING		
27.1	Accessible metal parts of Class 0I and I appliances permanently and reliably connected to an earthing terminal or earthing contact of the appliance inlet	Class I	9 () P
2	Earthing terminals and earthing contacts not connected to the neutral terminal		b P
48	Class 0, II and III appliances have no provision for earthing	10 TO 10	N
÷	Safety extra-low voltage circuits not earthed, unless	10 490	N
A.	protective extra-low voltage circuits	1	N
27.2	Clamping means adequately secured against accidental loosening	190 - 10 190 - 10	P
78 18	Terminals used for the connection of external equipotential bonding conductors allow connection of conductors of 2.5 to 6 mm ² , and	70 3074	P
15	do not provide earthing continuity between ifferent parts of the appliance, and	15, 180	Р
SP 140	conductors cannot be loosened without the aid of tool	, " To To	P
27.3	For a detachable part having an earth connection and being plugged into another part of the appliance, the earth connection is made before and separated after current-carrying connections when removing the part		N N
1.L.98 76	For appliances with supply cord, current-carrying conductors become taut before earthing conductor, if the cord slips out of the cord anchorage	10 TO 10	N
27.4	No risk of corrosion resulting from contact between parts of the earthing terminal and the copper of the earthing conductor or other metal	157 40 16 40	N
	Parts providing earthing continuity, other than parts of a metal frame or enclosure, have adequate resistance to corrosion	24 10 - To	N
10	If of steel, these parts provided with an electroplated coating with a thickness at least 5 μ m	o so la	N

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~	Deminent Test	Desult	Verde
CI.	Requirement - Test	Result	Verdic
198 198	Adequate protection against rusting of parts of coated or uncoated steel, only intended to provide or transmit contact pressure	Ale tonate	N
7. - 70.	In the body of the earthing terminal is a part of a frame or enclosure of aluminium or aluminium alloys, precautions taken to avoid risk of corrosion	- 357 - 16 - 354	N
27.5	Low resistance of connection between earthing terminal and earthed metal parts	and a second	Р
10 1 15	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	10 15, 140 15, 140 15, 140 10	Р
n.	Resistance not exceeding 0,1 Ω at the specified low-resistance test (Ω)	0.065Ω	Р
27.6	The printed conductors of printed circuit boards not used to provide earthing continuity in hand held appliances.	10 10, 90 10 10 10	N
5.13 1.13	They may be used to provide earthing continuity in other appliances if at least two tracks are used with independent soldering points and the appliance complies with 27.5 for each circuit	Roy (20 - 10) (20	N
28	SCREWS AND CONNECTIONS		
28.1	Fixings, electrical connections and connections providing earthing continuity withstand mechanical stresses	10, 10, 10, 10, 10, 10,	Р
SALAD	Screws not of soft metal liable to creep, such as zinc or aluminium	1 10 TO 10	Р
1.50 7.	Diameter of screws of insulating material min. 3 mm	To to to	N
8 8	Screws of insulating material not used for any electrical connection or connections providing earthing continuity	107 40 - 10 - 107 - 10 - 10	N
St. VS	Screws used for electrical connections or connections providing earthing continuity screw into metal	190 TO 197	P\
ক *6	Screws not of insulating material if their replacement by a metal screw can impair supplementary or reinforced insulation	157 10 1	N
15), 178 . 78	For 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 impairs basic insulation	and the second	N
4	For screws and nuts; torque-test as specified in table 14	(see appended table)	Р

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		- 41 6 70	1.70
CI.	Requirement - Test	Result	Verdic
28.2	Electrical connections and connections providing earthing continuity constructed so that contact pressure is not transmitted through non-ceramic insulating material liable to shrink or distort, unless		Р
2 101	there is resiliency in the metallic parts to compensate for shrinkage or distortion of the insulating material	30, 30, 30,	Po
2	This requirement does not apply to electrical connection which:	ons in circuits of appliances for	+ \{ %
18 	• 30.2.2 is applicable and that carry a current not exceeding 0,5 A	6 75 90	Ν
40.	30.2.3 is applicable and that carry a current not exceeding 0,2 A	The son	N
28.3	Space-threaded (sheet metal) screws only used for electrical connections if they clamp the parts together	100 10 UN	N
	Thread-cutting (self-tapping) screws and thread rolling screws only used for electrical connections if they generate a full form standard machine screw thread	10 TUN 10 10, 10 TU	N
5. W	Thread-cutting (self-tapping) screws not used if they are likely to be operated by the user or installer	the the	%_ N
- CAR	Thread-cutting, thread rolling and space threaded scree providing earthing continuity provided it is not necessary		
ð -	- in normal use,	An Use of	Ν
15	- during user maintenance,	2 P. 2 P. 2	Ν
ls _{>} ×	- when replacing a supply cord having a type X attachment, or	and the second	N
10	- during installation	Can a Can	Ν
le .	At least two screws being used for each connection providing earthing continuity, unless	10, 140 10	N
39) 10	the screw forms a thread having a length of at least half the diameter of the screw	24 26 24	N
28.4	Screws and nuts that make mechanical connection secured against loosening if they also make electrical connections or connections providing earthing continuity	No such screws and nuts	N
76. A.	This requirement does not apply to screws in the earthing circuit if at least two screws are used, or	16. 40 10	N
No.	if an alternative earthing circuit is provided	As a la	Ν
70 70	Rivets for electrical connections or connections providing earthing continuity secured against loosening if the connections are subjected to torsion	10 30 Ma	Z
29	CLEARANCES, CREEPAGE DISTANCES AND SO		

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CI.	Paguirament Test	Result	Vordio
CI.	Requirement - Test	Result	Verdic
90 (4)	Clearances, creepage distances and solid insulation withstand electrical stress	1 40 - 10 - 1 40	Р
3	For coatings used on printed circuits boards to protect the microenvironment (Type 1) or to provide basic insulation (Type 2), Annex J applies	0 75, 76 75 70 70	N
5. 1.	The microenvironment is pollution degree 1 under type 1 protection	5. 30 35	N
40	For type 2 protection, the spacing between the conductors before the protection is applied is not less than the values specified in Table 1 of IEC 60664-3	6 35, 36	N S
40	These values apply to functional, basic, supplementary and reinforced insulation:	1. N. N. N. N.	N
29.1	Clearances not less than the values specified in table 16, taking into account the rated impulse voltage for the overvoltage categories of table 15, unless :	(see appended table)	8 Р (
2	for basic insulation and functional insulation they comply with the impulse voltage test of clause 14		N
	However, if the distances are affected by wear, distortion, movement of the parts or during assembly, the clearances for rated impulse voltages of 1500V and above are increased by 0,5 mm and the impulse voltage test is not applicable	10, 100 10, 10 10, 100 10, 10 10, 100 10, 10	N
- a	Impulse voltage test is not applicable:	a 9 <u>></u> 8	70 <u>+</u> ,
	- when the microenvironment is pollution degree 3, or	10x 70	N N
$b_{i}^{(0)}$	- for basic insulation of class 0 and class 01 appliances or	The the	N
140	Appliances are in overvoltage category II	N 10 10	Р
le l	A force of 2 N is applied to bare conductors, other than heating elements	10 10 10 10	P
1	A force of 30 N is applied to accessible surfaces	and the second sec	Р
29.1.1	Clearances of basic insulation withstand the overvoltages, taking into account the rated impulse voltage		P
10	The values of table 16 or the impulse voltage test of clause 14 are applicable	(see appended table)	P
107 707 707	Clearance at the terminals of tubular sheathed heating elements may be reduced to 1,0 mm if the microenvironment is pollution degree 1	The The	N
As	Lacquered conductors of windings considered to be bare conductors	All a contra	Р
29.1.2	Clearances of supplementary insulation not less than those specified for basic insulation in table 16	9 70 50	N

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CI.	Requirement - Test	Result	Ve
- 49	To the top the design of the	(n. 76 76 ·	3
29.1.3	Clearances of reinforced insulation not less than those specified for basic insulation in table 16, using the next higher step for rated impulse voltage	(see appended table)	
10 10 10 10 10 10 10 10 10 10 10 10 10 1	For double insulation, with no intermediate conductive part between basic and supplementary insulation, clearances are measured between live parts and the accessible surface, and the insulation system is treated as reinforced insulation	1990 - 1991 1990 - 1991 1990 - 1991	27 28
29.1.4	Clearances for functional insulation are the largest val	ues determined from:	
	- table 16 based on the rated impulse voltage:	(see appended table)	135
40	- table F.7a in IEC 60664-1, frequency not exceeding 30 kHz	151, 70 TO	
5. ^{- C}	- clause 4 of IEC 60664-4, frequency exceeding 30 kHz	37-13 15 15 190	18
48	If values of table 16 are largest, the impulse voltage test of clause 14 may be applied instead, unless	10 35, 40	25
2	the microenvironment is pollution degree 3, or	75. 70 75	
	the distances can be affected by wear, distortion, movement of the parts or during assembly	35. 40 Th	20
inger Is	However, clearances are not specified if the appliance complies with clause 19 with the functional insulation short-circuited	10 10, 10 10 10, 10	40
10	Lacquered conductors of windings considered to be bare conductors	157, 40 33	
85.5. ×	However, clearances at crossover points are not measured	101-100 TO 100	-79
10 4	Clearance between surfaces of PTC heating elements may be reduced to 1mm	40 15, 40	3
29.1.5	Appliances having higher working voltages than rated insulation are the largest values determined from:	voltage, clearances for basic	5
4.	- table 16 based on the rated impulse voltage :	10 1 10 10 10 10 10 10 10 10 10 10 10 10	76
198	- table F.7a in IEC 60664-1, frequency not exceeding 30 kHz	A A A A A A A A A A A A A A A A A A A	9
₹.) -7.	- clause 4 of IEC 60664-4, frequency exceeding 30 kHz		
157 - 78 - 78	If clearances for basic insulation are selected from Table F.7a of IEC 60664-1 or Clause 4 of IEC 60664-4, the clearances of supplementary insulation are not less than those specified for basic insulation	15, 40 15, 40 2, 10 15, 11	40
70 75 75	If clearances for basic insulation are selected from Table F.7a of IEC 60664-1, the clearances of reinforced insulation dimensioned as specified in Table F.7a are to withstand 160% of the withstand voltage required for basic insulation	10 10, 10, 10 9 10, 10 10, 10 10	2 N N

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<u></u>	IEC 60335-2-65	4 9	
CI.	Requirement - Test	Result	Verdict
10 10 10	If clearances for basic insulation are selected from Clause 4 of IEC 60664-4, the clearances of reinforced insulation are twice the value required for basic insulation	5 70 70 6 70, 67 6 70, 79	N
85,755 85,755 85,755	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		N
1000 - 1000 1000 - 1000	Circuits supplied with a voltage lower than rated voltage, clearances of functional insulation are based on the working voltage used as the rated voltage in table 15	15, 196 - 1 15, 196 - 15	N
29.2	Creepage distances not less than those appropriate for the working voltage, taking into account the material group and the pollution degree:	(see appended table)	Р
	Pollution degree 2 applies, unless	an Car	Р
753	- precautions taken to protect the insulation; pollution degree 1	75, 70 To	N
Si can	 insulation subjected to conductive pollution; pollution degree 3 	100 Tox 10	N
6	A force of 2 N is applied to bare conductors, other than heating elements	To Topy To	Р
to.	A force of 30 N is applied to accessible surfaces	9) (Y	Р
S. N. S. S.	In a double insulation system, the working voltage for both the basic and supplementary insulation is taken as the working voltage across the complete double insulation system		P
29.2.1	Creepage distances of basic insulation not less than specified in table 17	(see appended table)	Р
157.138	However, if the working voltage is periodic and has a frequency 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 table 17:	107, 10 107, 1170 107, 107, 1100 10, 100	N
10 10 10 10 10 10 10 10 10 10 10 10 10 1	Except for pollution degree 1, corresponding 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	107 10 107 10 107	N
29.2.2	Creepage distances of supplementary insulation at least those specified for basic insulation in table 17, or	(see appended table)	Р
20	Table 2 of IEC 60664-4, as applicable		N

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CI.	Requirement - Test	Result	Verdic
01.	Requirement - rest	Result	veruic
29.2.3	Creepage distances of reinforced insulation at least double those specified for basic insulation in table 17, or	(see appended table)	P
1	Table 2 of IEC 60664-4, as applicable:		N
29.2.4	Creepage distances of functional insulation not less than specified in table 18	(see appended table)	Р
100 00	However, if the working voltage is periodic and has a frequency 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 table 18		N
29.9	Creepage distances may be reduced if the appliance complies with clause 19 with the functional insulation short-circuited	152 10 B	N
29.3	Supplementary and reinforced insulation have adequate thickness, or a sufficient number of layers, to withstand the electrical stresses	10 10, 10	Р
4	Compliance checked:	105 Te 10	×7
- 22 - C	- by measurement, in accordance with 29.3.1, or	30. To 30.	P
Sr. Ja	- by an electric strength test in accordance with 29.3.2, or	190 757 190	N
6 	- 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	10 10, 10 10, 10 10 10, 10 10	N
15.7.LAB	for accessible parts of reinforced insulation consisting of a single layer, by measurement in accordance with 29.3.4, or	1. 10 Top 140	N
20 20 20	- 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	5,76 7 5,76 7	N
	- as specified in subclause 6.3 of IEC 60664-4 for insulation that is subjected to any periodic voltage having a frequency exceeding 30 kHz	240 102 102 10	N
29.3.1	Supplementary insulation have a thickness of at least 1 mm	15, 74 7	Ν
707 Jan	Reinforced insulation have a thickness of at least 2 mm	1. 10 To 11	Р
29.3.2	Each layer of material withstand the electric strength test of 16.3 for supplementary insulation	10 10 Mg	N
1.	Supplementary insulation consist of at least 2 layers	9 75 Yo 1	N
100	Reinforced insulation consist of at least 3 layers	The Contract of the	N

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	IEC 60335-2-65	1 10 10	1 20
CI.	Requirement - Test	Result	Verdic
29.3.3	The insulation is subjected to the dry heat test Bb of IEC 60068-2-2, followed by	40 30 40	N
(G)	the electric strength test of 16.3	6 30 No	N
76 762	If the temperature rise during the tests of clause 19 does not exceed the value specified in table 3, the test of IEC 60068-2-2 is not carried out	10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,	N
29.3.4	Thickness of accessible parts of reinforced insulation consisting of a single layer not less than specified in table 19	190 - No. 190 10 - 10 - 10	N
30	RESISTANCE TO HEAT AND FIRE		
30.1	External parts of non-metallic material,	S & S	Р
100	parts supporting live parts, and	10, 10 to	P
	thermoplastic material providing supplementary or reinforced insulation,	10 Th 90	P
	sufficiently resistant to heat	14 Yun Ya	P
	Ball-pressure test according to IEC 60695-10-2	15, 70 %	Р
	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):	(see appended table)	₹ ₆ P
10 10	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)	(see appended table)	Ρ
57.48	Parts of thermoplastic material providing supplementary or reinforced insulation, 25°C plus the maximum temperature rise determined during clause 19, if higher; temperature (°C):	(see appended table)	Р
30.2	Parts of non-metallic material resistant to ignition and spread of fire	1. W. C. 1	Р
9. 4	This requirement does not apply to:	102 18 102	26
16 16	parts having a mass not exceeding 0,5 g, provided the cumulative effect is unlikely to propagate flames that originate inside the appliance by propagating flames from one part to another, or	140 10 10 10 10 10 10 10 10 10 10 10 10 10	P
767 767	decorative trims, knobs and other parts unlikely to be ignited or to propagate flames that originate inside the appliance	The State State	P
- ¹ 8	Compliance checked by the test of 30.2.1, and in addition:		Р
10	- for attended appliances, 30.2.2 applies		N
20	- for unattended appliances, 30.2.3 applies	(U) (A)	Р

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0	Demoissment Test	Desult	Vende
CI.	Requirement - Test	Result	Verdic
10	For appliances for remote operation, 30.2.3 applies	Contraction	N
90	For base material of printed circuit boards, 30.2.4 applies	10 - 10 - 10 - 10 10 - 10 - 10	Р
30.2.1	Parts of non-metallic material subjected to the glow- wire test of IEC 60695-2-11 at 550 °C	(see appended table)	Р
ing and a second	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	5, 70 TO, 70	o N
19 19	the material is classified at least HB40 according to IEC 60695-11-10	6 The To	N
the second	Parts for which the glow-wire test cannot be carried out need to meet the requirements in ISO 9772 for material classified HBF	107 10 10 10 107 10 107	N ^o
30.2.2	Not applicable. (IEC 60335-2-65)	10 To 70	Р
30.2.3	Appliances operated while unattended, tested as specified in 30.2.3.1 and 30.2.3.2	70 TON 90	₹ P
1	Test not applicable to conditions as specified	5 <u>,</u> 76 75	N
30.2.3.1	Parts of non-metallic material supporting connections carrying a current exceeding 0,2 A during normal operation, and	15, 70 To. 15, 75	Р
е е 1	parts of non-metallic material, other than small parts, within a distance of 3 mm,	70 757 90	P
15	subjected to the glow-wire test of IEC 60695-2-11 with a test severity of 850 °C		Р
to be	Glow-wire applied to an interposed shielding material, if relevant	The to the	N
	The glow-wire test is not carried out on parts of material classified as having a glow-wire flammability index according to IEC 60695-2-12 of at least 850 °C	10 15 140 1 10 140 1	N
30.2.3.2	Parts of non-metallic material supporting connections, and	the the the	P
Congo - Congo	parts of non-metallic material within a distance of 3mm,	10 TO 10 10	Р
13 I.	subjected to glow-wire test of IEC 60695-2-11		Р
de.	The test severity is:	e 105 10e 1	2 - -
80 A.	- 750 °C, for connections carrying a current exceeding 0,2 A during normal operation	(see appended table)	Р
40	- 650 °C, for other connections	(see appended table)	N
90	Glow-wire applied to an interposed shielding material, if relevant	10 10 10 10 10.	N
202	However, the glow-wire test of 750 °C or 650 °C as an parts of material fulfilling both or either of the following		<u>م</u>

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9.8	IEC 60335-2-65		690
CI.	Requirement - Test	Result	Verdic
- 198 G	- a glow-wire ignition temperature according to IEC 60695-2-13 of at least:	and the second	N
10	• 775 °C, for connections carrying a current exceeding 0,2 A during normal operation	6 - 70 - 76 - 5	N
1	675 °C, for other connections	10 B 10	Ν
CL40	- a glow-wire flammability index according to IEC 60695-2-12 of at least:	Shidan and Shida	e N
40	- 750 °C, for connections carrying a current exceeding 0,2 A during normal operation	10 15 190	N
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	- 650 °C, for other connections	70 70 70	Ν
A.S.	The glow-wire test is also not carried out on small parts	s. These parts are to:	
1.40 AB	- comprise material having a glow-wire ignition temperature of at least 775 °C or 675 °C as appropriate, or	and a the state	N
1 1	- comprise material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or		Ν
A.	- comply with the needle-flame test of Annex E, or	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N
D. Care	- comprise material classified as V-0 or V-1 according to IEC 60695-11-10	140 to 140	N
78 7 8 75	The consequential needle-flame test of Annex E applie encroach within the vertical cylinder placed above the o and on top of the non-metallic parts supporting current parts of non-metallic material within a distance of 3 mm parts are those:	centre of the connection zone -carrying connections, and	151.57
57.70 67.70	- parts that withstood the glow-wire test of IEC 60695-2-11 of 750 °C or 650 °C as appropriate, but produce a flame that persist longer than 2 s, or	1.15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	N
10 7 7 1	- parts that comprised material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or	157 5 K	N
S. C.	- small parts, that comprised material having a glow- wire flammability index of at least 750 °C or 650 °C as appropriate, or	and the second	N
10 ·	- small parts for which the needle-flame test of Annex E was applied, or		N
10.20	- small parts for which a material classification of V-0 or V-1 was applied	- 16 - 16 - 16 - 16 - 16 - 16 - 16 - 16	N
"CAR	However, the consequential needle-flame test is not caincluding small parts, within the cylinder that are:	arried out on non-metallic parts,	Ν
80	- parts having a glow-wire ignition temperature of at least 775 °C or 675 °C as appropriate, or	10 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ν
102	- parts comprising material classified as V-0 or V-1 according to IEC 60695-11-10, or		Ν

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75	IEC 60335-2-65	a Marine	14
CI.	Requirement - Test	Result	Verdict
10 10	- parts shielded by a flame barrier that meets the needle-flame test of Annex E or that comprises material classified as V-0 or V-1 according to IEC 60695-11-10	1470 - 257 - 240 6 - 257 - 240 6 - 257 - 240	N
30.2.4	Base material of printed circuit boards subjected to needle-flame test of annex E	30, 30 30,	N
4	Test not applicable to conditions as specified	PCB: V-0	Р
31	RESISTANCE TO RUSTING		
• • 1	Relevant ferrous parts adequately protected against rusting	6 75, 70	Р
An	Tests specified in part 2 when necessary		N
32	RADIATION, TOXICITY AND SIMILAR HAZARDS		
	Appliance does not emit harmful radiation or present a toxic or similar hazard due to their operation in normal use	190 - 190 190 - 190 190 - 190	P
8	Compliance is checked by the limits or tests specified in part 2, if relevant	10, 40 15	N
10 S. C.	The ozone concentration produced by ionization is not excessive and shall not exceed 5 x 10/-6.	301 90 Ton	₹ ₆ N
Α	ANNEX A (INFORMATIVE) ROUTINE TESTS		
6 ·	Description of routine tests to be carried out by the manufacturer	15 40 35	N
В	ANNEX B (NORMATIVE) APPLIANCES POWERED BY RECHARGEABLE B	ATTERIES	
140 90	The following modifications to this standard are applicable for appliances powered by batteries that are recharged in the appliance	1-10 - 107 - 10 1-10 - 107 - 10	N 7
	This annex does not apply to battery chargers	20. 76 75	<u> </u>
3.1.9	Appliance operated under the following conditions:	75. To To	4
Sila	- the appliance, supplied by its fully charged battery, operated as specified in relevant part 2;	1. 18 m 19 18	N
14 7	- the battery is charged, the battery being initially discharged to such an extent that the appliance cannot operate;	70 15, 90 15, 90 1	N
157 (38 (38)	- 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;	10-190 10-190 2-190 10-190	N

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CI.	Requirement - Test	Result	Verdic
40 40	- 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	90 - 157 0 - 757	N
3.6.2	Part to be removed in order to discard the battery is not considered to be detachable	32.00	N
5.B.101	Appliances supplied from the supply mains tested as specified for motor-operated appliances	The area	N
7.1	Battery compartment for batteries intended to be replaced by the user, marked with battery voltage V (V) and polarity of the terminals	10 - 15 - 14 - 1- 1- 1-	N
407.CP	The positive terminal indicated by symbol IEC 60417-5005 and the negative terminal by symbol IEC 60417-5006	201. 20	N
7.6	Symbols 60417-5005 and IEC 60417-5006	S 8 9	N
7.12	The instructions give information regarding charging	16 (s)	N Te N
1. 157	The instructions for appliances incorporating batteries intended to be replaced by the user includes required information	95, 56 75, 76	N Z
S. Can	Details about how to remove batteries containing materials hazardous to the environment given	190 to	N
7.15	Markings placed on the part of the appliance connected to the supply mains	10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	N
8.2	Appliances having batteries that according to the instruction may be replaced by the user need only have basic insulation between live parts and the inner surface of the battery compartment	10, 10 10, 10 10, 10	N
10. 10	If the appliance can be operated without batteries, double or reinforced insulation required	90 755	N R
11.7	The battery is charged for the period stated in the instructions or 24 h	1972	N
19.1	Appliances subjected to tests of 19.B101, 19.B102 and 19.B103	. To To	N
19.10	Not applicable	70 70	N
19.B.101	Appliances supplied at rated voltage for 168 h, the battery being continually charged	102 41	N
19.B.102	For appliances having batteries that can be removed without the aid of a tool, short-circuit of the terminals of the battery, the battery being fully charged,	70, 70 10 70	N
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	10 10, 10, 10, 10, 10, 10, 10, 10, 10, 1	N

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0	Deminent Test		Vander
CI.	Requirement - Test R	esult	Verdic
21.B.101	Appliances having pins for insertion into socket- outlets have adequate mechanical strength	40 35 40	N
- - 76	Part of the appliance incorporating the pins subjected to of IEC 60068-2-31, the number of falls being:	the free fall test, procedure 2,	6, ⁻ `
20	- 100, the mass of part does not exceed 250 g	10 10 M	Ν
Co.	- 50, the mass of part exceeds 250 g	N 74 10x 4	o N
140 00	After the test, the requirements of 8.1, 15.1.1, 16.3 and clause 29 are met	14. 44. 44. 14.44.	N
22.3	Appliances having pins for insertion into socket- outlets tested as fully assembled as possible	40 00 00 00 00 00 00 00 00 00 00 00 00 0	N
25.13	An additional lining or bushing not required for interconnection cords in class III appliances or class III constructions operating at safety extra-low voltage not containing live parts	and a strate	N
30.2	For parts of the appliance connected to the supply mains during the charging period, 30.2.3 applies	6 197 90	N
4	For other parts, 30.2.2 applies	6 6 K	N
С	ANNEX C (NORMATIVE) AGEING TEST ON MOTORS		
- 49 10 - 4	Tests, as described, carried out when doubt with regard to the temperature classification of the insulation of a motor winding	to the state	N
4.	Test conditions as specified	10 N N	N
D	ANNEX D (NORMATIVE) THERMAL MOTOR PROTECTORS		
14.90 90	Applicable to appliances having motors that incorporate thermal motor protectors necessary for compliance with the standard	8 15 15 15 15 15 15 15 15 15 15 15 15 15	N 7
æ.	Test conditions as specified	ين هز	Ν
E	ANNEX E (NORMATIVE) NEEDLE-FLAME TEST		
198	Needle-flame test carried out in accordance with IEC 606 modifications:	695-11-5, with the following	
7	Severities	A. Car A	- ²² 2
10 m	The duration of application of the test flame is $30 \text{ s} \pm 1 \text{ s}$	55 95 55 55	N
9	Test procedure	Ma de la	
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	10 10 140	N
9.2	The first paragraph does not apply	ALC: 200 - 2	

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CI.	Requirement - Test	Result	Verdic
CI.	Requirement - Test	Result	veruic
10 (4)	If possible, the flame is applied at least 10 mm from a corner	40 302 40	N
9.3	The test is carried out on one specimen	4 Th 40 -	N
107 107	If the specimen does not withstand the test, the test may be repeated on two further specimens, both withstanding the test	15, 40 15, 5, 40 10	N
11 🔏	Evaluation of test results	The second	
10	The duration of burning not exceeding 30 s		N
× 7	However, for printed circuit boards, the duration of burning not exceeding 15 s	a sha a	N
F	ANNEX F (NORMATIVE) CAPACITORS		
140	Capacitors likely to be permanently subjected to the sur radio interference suppression or voltage dividing, com of IEC 60384-14, with the following modifications:		
1.5	Terms and definitions	An Go to	4
1.5. <mark>3</mark>	Class X capacitors tested according to subclass X2		Ν
1.5.4	This subclause is applicable	a a	[™] N
1.6	Marking	10 TON 70	
197 1	Items a) and b) are applicable	70 70 70	N
3.4	Approval testing	to to to	1
3.4.3.2	Table II is applicable as described	A. Car a	Ν
4.1	Visual examination and check of dimensions	where where	<u> </u>
da.	This subclause is applicable	10 10 10	N
4.2	Electrical tests	70 To. 70	N
4.2.1	This subclause is applicable	20 20 A	N
4.2.5	This subclause is applicable	A. Mar a	Ν
4.2.5.2	Only table IX is applicable		N
14	Values for test A apply	10 10, 76	Ν
₹ _{\$}	However, for capacitors in heating appliances the values for test B or C apply	No. 15/ No.	N
4.12	Damp heat, steady state	19 19 18 18	
Se	This subclause is applicable	N. NO N.	N
. As	Only insulation resistance and voltage proof are checked	10 - The OK	N
4.13	Impulse voltage	18 18 july 18	7.4-)×
	This subclause is applicable	10. 40 4	N

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20.	IEC 60335-2-65	a la i	
CI.	Requirement - Test	Result	Verdic
190 19	Subclauses 4.14.1, 4.14.3, 4.14.4 and 4.14.7 applicable	140 - 15, 140	N
4.14.7	Only insulation resistance and voltage proof are checked	e 35 %	N
4.	Visual examination, no visible damage	10 0 C	Ν
4.17	Passive flammability test	5 76 To. 5	· - 6
ð. ' ^æ	This subclause is applicable	70 10 70	Ν
4.18	Active flammability test	to the las	
25 25	This subclause is applicable	1 10 1	N
G	ANNEX G (NORMATIVE) SAFETY ISOLATING TRANSFORMERS		
ST. La Mo	The following modifications to this standard are applic transformers:	able for safety isolating	
7	Marking and instructions	Me to Me	805
7.1	Transformers for specific use marked with:	70 Yo 70	
357.64	- name, trademark or identification mark of the manufacturer or responsible vendor	R	N
	- model or type reference:	10 to 10	Ν
17	Overload protection of transformers and associated ci	ircuits	a'
18 - 1 1	Fail-safe transformers comply with subclause 15.5 of IEC 61558-1	25, 48 35	N
22	Construction	to the to	N
S. A. L. R.	Subclauses 19.1 and 19.1.2 of IEC 61558-2-6 are applicable	100 Th 100	N
29	Clearances, creepage distances and solid insulation	70 To. 70	N
29.1, 29.2 and 29.3	The distances specified in items 2a, 2c and 3 in table 13 of IEC 61558-1 apply	10, 50 3	N
the second	For insulated winding wires complying with subclause 19.12.3 of IEC 61558-1 there are no requirements for clearances or creepage distances	107 - 10 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 107 - 1	N
10 .	For windings providing reinforced insulation, the distance specified in item 2c of table 13 of IEC 61558-1 is not assessed	70 15, 40 A	N
157 290 157 280 180	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	10, 10, 10, 10, 11, 10, 10, 10, 110, 10, 10,	N
н	ANNEX H (NORMATIVE) SWITCHES		

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CI.	Requirement - Test	Result	Verdict
1	Switches comply with the following clauses of IEC 610	058-1, as modified below:	-
70	The tests of IEC 61058-1 carried out under the conditions occurring in the appliance	0 To 70	N
	Before being tested, switches are operated 20 times without load	35, 30 35,	N
8	Marking and documentation	N. 76 N.	°e
2.1	Switches are not required to be marked	To the To	N
10 1	However, switches that can be tested separately from the appliance marked with the manufacturer's name or trade mark and the type reference	10 10, 190 10 190 10	N
13	Mechanism	A CALLARY	°
4	The tests may be carried out on a separate sample	Strain OF	N N
15	Insulation resistance and dielectric strength	N 15 76	-23
15.1	Not applicable	20 To. 90	N
15.2	Not applicable	70 70 1	N
15.3	Applicable for full disconnection and micro- disconnection	20, 40 70,	N
17	Endurance	190 to 190	
70 10	Compliance is checked on three separate appliances or switches	70 70, 70	N
15	For 17.2.4.4, the number of cycles declared according to 7.1.4 is 10 000, unless	10, 10 10	N
15 x 1	otherwise specified in 24.1.3 of the relevant part 2 of EN 60335	and the second	N
9. 9.	Switches for operation under no load and which can be operated only by a tool and	40 75× 40	N
* E	switches operated by hand that are interlocked so that they cannot be operated under load,	- 737 - 78 - 7 	N
Er. 1	are not subjected to the tests		N
	However, switches without this interlock are subjected to the test of 17.2.4.4 for 100 cycles of operation	140 TO 140	o N
-4.	Sub-clauses 17.2.2 and 17.2.5.2 not applicable	15. 40 S	N
157 C	The ambient temperature during the test is that occurring in the appliance during the test of Clause 11 in EN 60335-1	201 40 100 100 100 100 100 100 100 100 10	N
1 ₉ 8	Temperature rise of the terminals not more than 30 K above the temperature rise measured in clause 11 of EN 60335-1 (K)	10 10 10 10	N
20	Clearances, creepage distances, solid insulation and assemblies	coatings of rigid printed board	

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35	IEC 60335-2-65	4 9	690
CI.	Requirement - Test	Result	Verdio
40 '40 40	This clause is applicable to clearances and creepage distances for functional insulation, across full disconnection and micro-disconnection, as stated in table 24		N
I	ANNEX I (NORMATIVE) MOTORS HAVING BASIC INSULATION THAT IS IN VOLTAGE OF THE APPLIANCE	IADEQUATE FOR THE RATED	
10	The following modifications to this standard are applic insulation that is inadequate for the rated voltage of th		Z.
8	Protection against access to live parts	10 YON YON 1	_ح وک
8.1	Metal parts of the motor are considered to be bare live parts	The the the	Ν
11 4	Heating		8
11.3	Temperature rise of the body of the motor is determined instead of the temperature rise of the windings	10 307 76 70 307 70	N
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	10, 90 10, 10, 10 10	N
16	Leakage current and electric strength		
16.3	Insulation between live parts of the motor and its other metal parts not subjected to the test	70 70, 70	N
19	Abnormal operation	to the the	14
19.1	The tests of 19.7 to 19.9 not carried out	An An An	N
19.I.101	Appliance operated at rated voltage with each of the fe	ollowing fault conditions:	N
10	- short circuit of the terminals of the motor, including any capacitor incorporated in the motor circuit	10 - 10 - 10 10 - 10	N
(e) (	- short circuit of each diode of the rectifier	1. 4. 1	N
Ser.	- open circuit of the supply to the motor		Ν
∿ _≥ [~]	- open circuit of any parallel resistor, the motor being in operation	Window Row	N
76	Only one fault simulated at a time, the tests carried out consecutively	40 80 40	N
22	Construction	1 Tex 70 To	
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	10. 10 10. . 10 10. 10.	N
70	Compliance checked by the tests specified for double and reinforced insulation	10 10 10 10	N
J	ANNEX J (NORMATIVE) COATED PRINTED CIRCUIT BOARDS		

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CI.	Requirement - Test	Result	Verdict
176	Testing of protective coatings of printed circuit boards IEC 60664-3 with the following modifications:	carried out in accordance with	-700
5.7	Conditioning of the test specimens	to the to .	( ⁽
1 4.	When production samples are used, three samples of the printed circuit board are tested	35, 70 35,	N
5.7.1	Cold	5. 78 G. C	N
2	The test is carried out at -25°C	70 No. 70	N
5.7.3	Rapid change of temperature	to the last	N
1	Severity 1 is specified	a the second	N
5.9	Additional tests	N 60 S	20
100	This subclause is not applicable	Nr. 70 85.	N N
к	ANNEX K (NORMATIVE) OVERVOLTAGE CATEGORIES		
2	The information on overvoltage categories is extracted from IEC 60664-1	10, 10, 10 10, 10, 10	Р
15/2	Overvoltage category is a numeral defining a transient overvoltage condition	R. 40 R.	Р
in the	Equipment of overvoltage category IV is for use at the origin of the installation	1 40 AN. 40	N
18 15)	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	10 10 10 10 10 10 10 10 10 10 10 10 10	N
457.40	Equipment of overvoltage category II is energy consuming equipment to be supplied from the fixed installation	Category I	N
96 96	If such equipment is subjected to special requirements with regard to reliability and availability, overvoltage category III applies	37, 76 1	N
107. 198	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	107, 10 107, 10 10, 10 10, 10 10, 10 10	N
L	ANNEX L (INFORMATIVE) GUIDANCE FOR THE MEASUREMENT OF CLEAR DISTANCES	ANCES AND CREEPAGE	
15. 19.	Information for the determination of clearances and creepage distances	1 40 40 M	Р
Μ	ANNEX M (NORMATIVE) POLLUTION DEGREE		
25	The information on pollution degrees is extracted from IEC 60664-1	2 - 707 - 70 - 7	Р

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CI.	Requirement - Test	Result	Verdic
1	Pollution	Charles Star	-
98 7	The microenvironment determines the effect of pollution on the insulation, taking into account the microenvironment	10 - 737 - 740	Р
202	Means may be provided to reduce pollution at the insulation by effective enclosures or similar		Р
4	Minimum clearances specified where pollution may be present in the microenvironment	190 - 400 - 190	P To
- S.	Degrees of pollution in the microenvironment	70 75 70 .	8
2 - 3 - 4	For evaluating creepage distances, the following degree microenvironment are established:	rees of pollution in the	178
	- pollution degree 1: no pollution or only dry, non- conductive pollution occurs. The pollution has no influence	257 70 757 Ge	ζ _ο Ν - Υ _α
18 10 10	- pollution degree 2: only non-conductive pollution occurs, except that occasionally a temporary conductivity caused by condensation is to be expected	Pollution degree 2	7, P
1.180 M	- pollution degree 3: conductive pollution occurs or dry non-conductive pollution occurs that becomes conductive due to condensation that is to be expected	100 10 10 100 100 100 100 100 100 100 1	N
* *5)	- pollution degree 4: the pollution generates persistent conductivity caused by conductive dust or by rain or snow	101 40 70	N
N	ANNEX N (NORMATIVE) PROOF TRACKING TEST		
78 74	The proof tracking test is carried out in accordance w modifications:	ith IEC 60112 with the following	35
7	Test apparatus	e 70, 76 75	
7.3	Test solutions	70x 70 Tr.	45
<u>ر</u> ي ا	Test solution A is used	a da da da	Ν
10 6	Determination of proof tracking index (PTI)	and the second	
10.1	Procedure	0 V	, ≺e≻,
10	The proof voltage is 100V, 175V, 400V or 600V :	6 To, 76 To	N
4	The test is carried out on five specimens	76. 70 To	N
140	In case of doubt, additional test with proof voltage reduced by 25V, the number of drops increased to 100	170 157.90	N
10.2	Report	to a Go	>
- Eg	The report stating if the PTI value was based on a test using 100 drops with a test voltage of (PTI-25) V	10, 190 40	N

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IEC 60335-2-65				
Requirement - Test Result	Verdi			
ANNEX O (INFORMATIVE) SELECTION AND SEQUENCE OF THE TESTS OF CLAUS	E 30			
Description of tests for determination of resistance to heat and fire	D P			
ANNEX P (INFORMATIVE) GUIDANCE FOR THE APPLICATION OF THIS STANDARD TO APPLIANCES USED IN WARM DAMP EQUABLE CLIMATES				
exceeding 150V, intended to be used in countries having a w	arm damp equable			
The ambient temperature for the tests of clauses 11 and 13 is $40 + 3/0$ °C	N			
The appliance marked with the letters WDaE	N			
The instructions state that the appliance is to be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30 mA	N			
The instructions state that the appliance is considered to be suitable for use in countries having a warm damp equable climate, but may also be used in other countries	The			
The values of Table 3 are reduced by 15 K	6 (6 N			
The leakage current for class I appliances not exceeding 0,5 mA	N N			
The value of t is 37 °C	N			
The leakage current for class I appliances not exceeding 0,5 mA (mA):	N			
The leakage current test of 16.2 is applied in addition to the electric strength test of 16.3	N			
ANNEX Q (INFORMATIVE) SEQUENCE OF TESTS FOR THE EVALUATION OF ELEC	TRONIC CIRCUITS			
Description of tests for appliances incorporating electronic of	rcuits P			
ANNEX R (NORMATIVE) SOFTWARE EVALUATION				
Programmable electronic circuits requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2 validated in	N 70, 70 N			
accordance with the requirements of this annex				
	Requirement - Test       Result         ANNEX O (INFORMATIVE) SELECTION AND SEQUENCE OF THE TESTS OF CLAUSI         Description of tests for determination of resistance to heat and fire         ANNEX P (INFORMATIVE) GUIDANCE FOR THE APPLICATION OF THIS STANDARD USED IN WARM DAMP EQUABLE CLIMATES         Modifications applicable for class 0 and 01 appliances having exceeding 150V, intended to be used in countries having a wa climate and that are marked WDaE         Modifications may also be applied to class 1 appliances having exceeding 150V, intended to be used in countries having a wa climate and that are marked WdaE, if liable to be connected to excludes the protective earthing conductor         The ambient temperature for the tests of clauses 11 and 13 is 40 +3/0 °C         The appliance marked with the letters WDaE         The instructions state that the appliance is to be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30 mA         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         The values of Table 3 are reduced by 15 K         The leakage current for class I appliances not exceeding 0,5 mA         The value of t is 37 °C         The leakage current for class I appliances not exceeding 0,5 mA (mA):         The leakage current for class I appliances not exceeding 0,5 mA (mA):         The leakage current for class I appliances not exceeding 0,5 mA (mA):         The leakage curre			

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	IEC 60335-2-65		
CI.	Requirement - Test	Result	Verdic
10 10 15	Programmable electronic circuits requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2 constructed so that the software does not impair compliance with the requirements of this standard	190 - 107 - 190 6 - 107 - 190 - 1 7 - 190 - 1	N
R.2	Requirements for the architecture		
(40) (40) (40) (40)	Programmable electronic circuits requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2 use measures to control and avoid software-related faults/errors in safety-related data and safety-related segments of the software		N
R.2.1.1	Programmable electronic circuits requiring software inc the fault/error conditions specified in table R.2 have on		6
C.	- single channel with periodic self-test and monitoring	70 75 70	Ν
14	- dual channel (homogenous) with comparison	to to to	N
2 7	- dual channel (diverse) with comparison	An Gar de	Ν
202	Programmable electronic circuits requiring software inc the fault/error conditions specified in table R.1 have on		,
5 ₂₀ 3	- single channel with functional test	The to the	Ν
45	- single channel with periodic self-test	An A Ca	N
÷ •	- dual channel without comparison		Ν
R.2.2	Measures to control faults/errors	ી જે જ	
R.2.2.1	When redundant memory with comparison is provided on two areas of the same component, the data in one area is stored in a different format from that in the other area	157, 78 157, 148 148 157, 148	N
R.2.2.2	Programmable electronic circuits with functions requiring software incorporating measures to control the fault/error conditions specified in table R.2 and that use dual channel structures with comparison, have additional fault/error detection means for any fault/errors not detected by the comparison	157140 4 157140 1570 157140 157140	N
R.2.2.3	For programmable electronic circuits with functions requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2, means are provided for the recognition and control of errors in transmissions to external safety-related data paths	10-10-10-10-10-10-10-10-10-10-10-10-10-1	N

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CI.	Requirement - Test	Result	Verdict	
R.2.2.4	For programmable electronic circuits with functions requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2, the programmable electronic circuits incorporate measures to address the fault/errors in safety-related segments and data indicated in table R.1 and R.2 as appropriate			
R.2.2.5	For programmable electronic circuits with functions requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2, detection of a fault/error occur before compliance with clause 19 is impaired	140 - 100 - 140 16 - 100 - 140 - 100 - 100 - 1	N	
R.2.2.6	The software is referenced to relevant parts of the operating sequence and the associated hardware functions	10- 10 Kr	N	
R.2.2.7	Labels used for memory locations are unique	, « (b), %	N	
R.2.2.8	The software is protected from user alteration of safety-related segments and data			
R.2.2.9	Software and safety-related hardware under its control is initialized and terminates before compliance with clause 19 is impaired	Real Parts	N	
R.3	Measures to avoid errors	10 70 M	76	
R.3.1	General	70 70 70	705	
- 15. 15.	For programmable electronic circuits with functions remeasures to control the fault/error conditions specified following measures to avoid systematic fault in the solutions for the fault in the solution of the fault in	d in table R.1 or R.2, the	140 140	
5.7.4.8. 9.0	Software that incorporates measures used to control the fault/error conditions specified in table R.2 is inherently acceptable for software required to control the fault/error conditions specified in table R.1	10 10, 140 10 10, 10	N	
R.3.2	Specification	37 6 1		
R.3.2.1	Software safety requirements:	10. To 10.	N	
SPERA	The specification of the software safety requirements includes the descriptions listed	2 To the Sec.	N	
R.3.2.2	Software architecture	70 10 70	15	

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	IEC 60335-2-65		
CI.	Requirement - Test	Result	Verdic
R.3.2.2.1	The specification of the software architecture includes the aspects listed	1470 - 167	N
	- techniques and measures to control software faults/errors (refer to R.2.2);	6 25 2	8 1 S
	- interactions between hardware and software;	100 TO	20 20
	- partitioning into modules and their allocation to the specified safety functions;	5. 80 1	6. 6
	- hierarchy and call structure of the modules (control flow);	6 70, 6 70 5	70 Toj
	- interrupt handling;	a la	
	- data flow and restrictions on data access;	1977 - 1981 1977 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 -	- 10x - 10x
	- architecture and storage of data;	757 No 1	85. 8
	- time-based dependencies of sequences and data	1/20 75	90 40
R.3.2.2.2	The architecture specification is validated against the specification of the software safety requirements by static analysis	10 10-10-10	N
R.3.2.3	Module design and coding	a la	
R.3.2.3.1	Based on the architecture design, software is suitably refined into modules	190 A.	N
70 10 1	Software module design and coding is implemented in a way that is traceable to the software architecture and requirements	78 757	N
R.3.2.3.2	Software code is structured		N
R.3.2.3.3	Coded software is validated against the module specification by static analysis	140 10	N
78 9	The module specification is validated against the architecture specification by static analysis	570 Top	N To
R.3.3.3	Software validation	6. 8	1
57	The software is validated with reference to the requirements of the software safety requirements specification	157, 10 10, 10 10	N
10	Compliance is checked by simulation of:	and the second	N
18 v	- input signals present during normal operation		N
Ar.	- anticipated occurrences	S 74	N
- K	- undesired conditions requiring system action	To To	N

0	TABLE R.1 ° – GENERAL FAULT/ERROR CONDITIONS								
81	Component ^a	Fault/error	Acceptable measures ^{b, c}	Definitions	Document reference for applied measure	reference	Verdict		

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Verdict

IEC 60335-2-65 Requirement - Test Result

Component	Fault/error	Acceptable measures ^{b, c}	Definitions	Document	Document	Verdict
a	1 adiventor	Acceptable measures	Deminions	reference for applied measure	reference for applied test	Verdict
1 CPU	6 20	40 th 40		1.5	2.5	Ν
1.1 Degisters	Stuck at	Functional test, or	H.2.16.5	18	139. T	
Registers	Sluck al	Functional test, or periodic self-test using either:	H.2.16.5	e 16	10	
	S. 35	- static memory test, or	H.2.19.6	4	4	
	14.98 19	<ul> <li>word protection with single bit redundancy</li> </ul>	H.2.19.8.2	31.58 55	10	
1.2 VOID	<u>k</u> 1	X 10 10 10	10	S. Ja	3. 3	N
1.3	Stuck at	Functional test, or	H.2.16.5	7		N
Programme	2 C	Periodic self-test, or	H.2.16.6	\$ Y	20	
counter	107. TO	Independent time-slot monitoring, or	H.2.18.10. 4	753	48	
	20 1	Logical monitoring of the programme sequence	H.2.18.10. 2	90.30 90.30	75	27 - 70 70
2	No	Functional test, or	H.2.16.5	9.a	2. C. A.	Ν
Interrupt handling and execution	interrupt or too frequent interrupt	time-slot monitoring	H.2.18.10. 4	151.37 151.37	7.140 AS	
3 Clock	Wrong frequency (for quartz synchroniz ed clock: harmonics/	Frequency monitoring, or time slot monitoring	H.2.18.10. 1 H.2.18.10. 4	کر مر د	4. 5 4 4. 5	N
	sub- harmonics only)	the the the	70 9 75	and the second s	6 - 33 - 76	
4. Memory	15	70 10 Ya	4	Ĵ.		Ν
4.1	All single	Periodic modified checksum, or	H.2.19.3.1	6	5, 70	
Invariable memory	bit faults	multiple checksum, or	H.2.19.3.2	20	10	
momory	2. ^{No}	word protection with single bit redundancy	H.2.19.8.2	15	le 10	4
4.2	DC fault	Periodic static memory test, or	H.2.19.6	Sec.	10	< N
Variable memory	10	word protection with single bit redundancy	H.2.19.8.2	30	6, ²² 46	

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	Deguireres	Teet	Dec		Marrie
CI.	Requirement	- lest	Resul	I	Verdict
4.3 Addressing (relevant to variable and invariable memory)	Stuck at	Word protection with single bit redundancy including the address	H.2.19.8.2		N
5 Internal data path	Stuck at	Word protection with single bit redundancy	H.2.19.8.2	and the second	N
5.1 VOID	9. 9.	10 12 0	Real Providence		N
5.2 Addressing	Wrong address	Word protection with single bit redundancy including the address	H.2.19.8.2		N
6 External communicat ion	Hamming distance 3	Word protection with multi-bit redundancy, or CRC – single work, or Transfer redundancy, or Protocol test	H.2.19.8.1 H.2.19.4.1 H.2.18.2.2 H.2.18.14	10, 10, 10, 10, 10, 10, 10, 10, 10, 10,	N To
6.1 VOID		765 TH TOS	14	The The The	N
6.2 VOID	78 S	s to to the	4.	Sec. 1	N
6.3 Timing	Wrong point in time Wrong sequence Fault	Time-slot monitoring, or scheduled transmission Time-slot and logical monitoring, or comparison of redundant communication channels by either: - reciprocal comparison - independent hardware comparator Logical monitoring, or time-slot monitoring, or Scheduled transmission	H.2.18.10. 4 H.2.18.18 H.2.18.10. 3 H.2.18.15 H.2.18.15 H.2.18.3 H.2.18.10. 2 H.2.18.10. 4 H.2.18.18 H.2.18.13		N
Input/output periphery	conditions specified in 19.11.2		0 70	102 0 1	1.
7.1 VOID	1 To.	40 To 70	4	4. 6	Ν
7.2 Analog I/O 7.2.1 A/D and D/A- converter	Fault conditions specified in 19.11.2	Plausibility check	H.2.18.13		N

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1 (S		IEC 6	0335-2-65	
CI.	Requirement	t - Test	Result	Verdict
7.2.2 Analog	Wrong addressing	Plausibility check	H.2.18.13	N

0 00005 0 05

multiplexer	S. 78	To. To	See See			1. 1.
8 VOID	4	a la s		2	10 C	N
9 Custom chips ^d e.g. ASIC, GAL, gate array	outside the static and	Periodic self-test	H.2.16.6	10 10 10 10 10 10 10		N

NOTE A Stuck-at fault model denotes a fault model representing an open circuit or a non-varying signal level. A DC fault model denotes a stuck-at fault model incorporating short circuit between signal lines.

^{a)} For fault/error assessment, some components are divided into their sub-functions.

^{b)} For each sub-function in the table, the Table R.2 measure will cover the software fault/error.

^{c)} Where more than one measure is given for a sub-function, these are alternatives.

^{d)} To be divided as necessary by the manufacturer into sub-functions.

e) Table R.1 is applied according to the requirements of R.1 to R.2.2.9 inclusive.

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IEC 60335-2-65

Result

Requirement - Test

#### ATTACHMENT TO TEST REPORT IEC 60335-2-65 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

Safety of household and similar electrical appliances

Part 2-65: Particular requirements for air-cleaning appliances

Differences according to:

EN 60335-1:2012+A11:2014+A13:2017 EN 60335-2-65:2003+A1:2008+A11:2012 EN 62233:2008

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	CENELEC COMMON MODIFICATIONS		
6.1	Delete "class 0" and "class 01"	Class I	P
7.1	Single-phase appliances to be connected to the supply mains: 230 V covered	230V	P
18	Multi-phase appliances to be connected to the supply mains: 400 V covered	70 - 70, 40	N
7.10	Devices used to start/stop operational functions of the appliance distinguished from other manual devices by means of shape, size, surface texture, position, etc.	10, 90 10, 90 10	N
Corp.	An indication that the device has been operated is give	en by:	
	<ul> <li>a tactile feedback, or</li> </ul>	NO 157 NO	N
	an audible and visual feedback	16 CAB	N
7.12	The instructions include the substance of the following	j: 1, 1, 1, 1, 1,	
5198 8816	- this appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved	199 199 199 199 199 199 199 199	P To
- ² 2	- children shall not play with the appliance	To to To	Р
S. A.	- cleaning and user maintenance shall not be made by children without supervision	5 To Top	P
7.12.Z1	The specific instructions related to the safe operation of this appliance is collated together in the front section of the user instructions	70 TO 70	Р
100 C	The height of the characters, measured on the capital letters, is at least 3 mm	10, 70 X	Р
A.	These instructions are also available in an alternative format, e.g. on a website	All a the	Р
8.1.1	Also test probe 18 of EN 61032 is applied	0 1 4	Р
252	The appliance being in every possible position during the test, except that	15 47 4	Р

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CI.	Requirement - Test	Result	Verdic
		(n. 16 16 1	1
78	The force on the probe in the straight position is increased to 10 N when probe 18 is used	40 20, 40	P
	When using test probe 18 the appliance is fully assembled as in normal use without any parts removed, and	0 15, 40 TO	P
Sec.	parts intended to be removed for user maintenance are also not removed	Sec. 94 Sec.	Р
8.2	Compliance is checked by applying the test probes of EN 61032	to the tax	P
9 76	For built-in appliances and fixed appliances, the test probe B and probe 18 of EN 61032 are applied only after installation	37, 10 35	N
11.8	Footnotes to "External enclosure of motor-operated appliances" to be taken into account	32.40 A. 37.40	N
15.1.2	Appliances with an automatic cord reel tested with the cord in the most unfavourable position so that the reeling of the wet cord may affect electrical insulation during operation, the cord not being dried before reeling	10 10, 10 10, 10 10 10 10 10	N
20.2	When using the test probe similar to test probe B with a circular stop face, the accessories and detachable covers are removed	and the state	Р
b.	Test probe 18 applied with a force of 2,5N on the appliance fully assembled	20 40 40	Р
24.1	Components comply with the safety requirements specified in the relevant standards as far as they reasonably apply	107 490 107 107 107 107 107 107 107 107 107 10	Р
~70 %	The requirements of Clause 29 of this standard apply between live parts of components and accessible parts of the appliance.	40 Brille	Р
Sec.	The requirements of 30.2 of this standard apply to parts of non-metallic material in components including parts of non-metallic material supporting current-carrying connections inside components		Р
76 76 76	Components that have not been previously tested or do not comply with the standard for the relevant component are tested according to the requirements of 30.2	10 15, 10 10 15, 10 1	P
85. Ja	Components that have been previously tested and she resistance to fire requirements in the standard for the be retested provided that:		1
20	- the severity specified in the component standard is not less than the severity specified in 30.2, and	70 35 90	N

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	IEC 60335-2-65	. 78. 79	10. 1.20
CI.	Requirement - Test	Result	Verdic
	- the test report for the component states whether it complied with the standard for the relevant component with or without flame, flames not exceeding 2 s during the test are ignored	10 10 10 10 10 0 10	N
No.	Unless components have been previously tested and found to comply with the relevant standard for the number of cycles specified, they are tested in accordance with 24.1.1 to 24.1.9	107 10 107 10	N
90 1	For components mentioned in 24.1.1 to 24.1.9, no additional tests specified in the relevant standard for the component are necessary other than those specified in 24.1.1 to 24.1.9	10 1.7 1.70 10 1.71	N
10	Components that have not been separately tested and found to comply with the relevant standard, and	157 - Cla	N
Trage	components that are not marked or not used in accordance with their marking,	- 16 To	N
9	are tested in accordance with the conditions occurring in the appliance, the number of samples being that required by the relevant standard	Ton the	N N
	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 additionally comply with the gauging and interchangeability requirements of the relevant standard under the conditions occurring in the appliance	0 10 10 0 10 10 0 10 10 0 10	N
57.48	Where the relevant standard specifies these gauging and interchangeability requirements at elevated temperatures, the temperatures measured during the tests of Clause 11 are used	107 70 170 70 170 70	N
84 - 1857 - 1857	Plugs and socket-outlets and other connecting devices of interconnection cords are not interchangeable with plugs and socket-outlets listed in IEC/TR 60083 or IEC 60906-1, or	107. 11. 107. 10	N
SP. CAN	with connectors and appliance inlets complying with the standard sheets of IEC 60320-1,	5 m 10	N .
94	if direct supply to these parts from the supply mains gives rise to a hazard	10 - W.	N
24.1.7	If the remote operation of the appliance is via a telecommunication network, the relevant standard for the telecommunication interface circuitry in the appliance is EN 41003	10, ² 70 10, 10	N
70	Compliance with Clause 8 of this standard is not impaired by connecting the appliance to a device covered by EN 41003	70 - Nr.	N

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	IEC 60335-2-65	
CI.	Requirement - Test Result	Verdic
24.Z1	For motor running capacitors (IEC 60252-1 type P2) with a metallic enclosure having an overpressure fuse the flame testing of internal plastic parts supporting current carrying connections as required in 30.2.2 and 30.2.3.1 is not necessary	N
25.6	Supply cords of single-phase portable appliances having a rated current not exceeding 16 A, fitted with a plug complying with the following standard sheets of IEC/TR 60083:	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
10	- for Class I appliances: standard sheet C2b, C3b or C4	N
* ** **	- for Class II appliances: standard sheet C5 or C6	Р
25.7	Rubber sheathed cords (60245 IEC 53) are not suitable for appliances intended to be used outdoors or when they are liable to be exposed to significant amount of ultraviolet radiation	N
8 7	Halogen-free thermoplastic compound sheathed supply cords have properties at lea those of:	st
5.13 18.13	<ul> <li>halogen-free thermoplastic compound sheathed cords (H03Z1Z1H2-F or H03Z1Z1-F), for appliances having a mass not exceeding 3 kg</li> </ul>	N
ه آ م	<ul> <li>halogen-free thermoplastic compound sheathed cords (H05Z1Z1H2-F or H05Z1Z1-F), for other appliances</li> </ul>	N
57.50 197.50	Cross-linked halogen-free compound sheathed supply cords have properties at least those of cross- linked halogen-free compound sheathed cords (H07ZZ-F)	N
26.11	Conductors connected by soldering are not considered to be positioned or fixed so that reliance is not placed upon the soldering alone to maintain them in position unless they are held in place near the terminals independently of the solder	N
29.3.Z1	Appliance constructed so that if there is a possibility of damaging the insulation during installation, the insulation withstands the scratch and penetration test of 21.2	N
32	Compliance regarding electromagnetic fields is checked according to EN 62233	P
Annex I, 19.I.101	The appliance is supplied at rated voltage and operated under normal operation with each of the fault conditions specified	N
149 1	The duration of the test is as specified in 19.7	N

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1		IEC 60335-2-65			
CI.	Requirement - Test		Result	e 33	Verdict

ZA	ANNEX ZA (NORMATIVE) SPECIAL NATIONAL CONDITIONS				
40	Norway		- -		
19.5	The test is also applicable to appliances intended to be permanently connected to fixed wiring	10 10 10 15A	N		
10	Norway	the star	×		
22.2	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	10 15 140 10 10 15 140 10	N ()		
10	All CENELEC countries	the last the last	1		
25.6 and 25.25	Information concerning National plug and socket- outlets is available from the CENELEC website. Normative national requirements concerning plug and socket-outlets are shown in the relevant National standard		P		
10	Ireland and United Kingdom	10 10 10 10 10 10 10 10 10 10 10 10 10 1			
25.8	In the table, the lines for 10 A and 16 A are replaced b	y:	+ ~%		
	> 10 and ≤ 13 1,25 (1,0)b	40 To 40	Ν		
20	> 13 and ≤ 16 1,5 (1,0)b	40 40	Ν		
ZB	ANNEX ZB (INFORMATIVE) A-DEVIATIONS		9.4 1		
	Ireland	10 90 To			
25.6	These regulations apply to all plugs for domestic use at a voltage of not less than 200 V and in general allow only plugs complying with I.S. 401:1997, or equivalent, to be fitted to domestic appliances	148 - 157,148 148 - 157,148 149 - 157,148 - 158	N - 30		
Sec.	United Kingdom	a straight and	-		
25.6	These regulations apply to all plugs for domestic use at a voltage of not less than 200 V and in general allow only plugs to BS 1363 to be fitted to domestic appliances. It also allows plugs to BS 4573 and EN 50075 to be fitted to shavers and toothbrushes		N		
ZC	ANNEX ZC (NORMATIVE) NORMATIVE REFERENCES TO INTERNATIONAL THEIR CORRESPONDING EUROPEAN PUBLICAT		Ge.		
19	A list of referenced documents in this standard		Р		
ZD	ANNEX ZD (INFORMATIVE) IEC and CENELEC CODE DESIGNATIONS FOR FI	LEXIBLE CORDS	10		
100	A table with IEC and CENELEC code designations for flexible cords	10, 190 40	Ν		

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CI.	Requirement - Test	Result	Verdie
ZE	ANNEX ZE (INFORMATIVE) SPECIFIC ADDITIONAL REQUIREMENTS FOR AF INTENDED FOR COMMERCIAL USE	PLIANCES AND MACHINES	
7.1	Business name and full address of the manufacturer and, where applicable, his authorized representative:	151,10 154	27.78 1.78
C.	Model or type reference:		N
har.	Serial number, if any:	NO 16 NO	N
<i>.</i>	Production year	6 7 70 .	N
7s)	Designation of the appliance:	7. 17. 4.	N
7.12	Instructions provided with the appliance so that the appliance can be used safely	24. 480 - 76. 4	N
26 2	The instructions contain at least the following informat	ion:	
78	- the business name and full address of the manufacturer and, where applicable, his authorized representative	10 157140	N
151.170	- model or type reference of the appliance as marked on the appliance itself, except for the serial number	107. C 10 . Top	N
140 140	- the designation of the appliance together with its explanation in case it is given by a combination of letters and/or numbers	70 757 70	N
35	- the general description of the appliance, when needed due to the complexity of the appliance	10, 70 TO	N
57.40	- specific precautions if required during installation, operation, adjusting, user maintenance, cleaning, repairing or moving		N
9 7 7	- when needed drawings, diagrams, descriptions and explanations necessary for the safe use and user maintenance of the appliance	1977 - 1977 1977 - 1977 1977 - 1977	N
SPL A	- the possible reasonably foreseeable misuse and, whenever relevant, a warning against the effects it may have on the safe use of the appliance	107 10 10 10 10 10	N
10	The words "Original instructions" appear on the language version(s) verified by the manufacturer or by the authorized representative	70 To 70 To 70	N
157 - TC-1 157 - TC-1 158 - TC-1 159 - TC-1	When a translation of the original instructions has been provided by a person introducing the appliance on the market; the meaning of the sentence "Translation of the original instructions" appear in the relevant instructions delivered with the appliance	10, 10 10, 10, 10, 10, 10, 10, 10, 10, 1	N

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76.	IEC 60335-2-65	
CI.	Requirement - Test Result	Verdic
40 ¹⁰ 30	The instructions for maintenance/service to be done by specialized personnel, mandated by the manufacturer or the authorized representative may be supplied in only one Community language which the specialized personnel understand	N
ST SS	The instructions indicate the type and frequency of inspections and maintenance required for safe operation including the preventive maintenance measures	N
7.12.ZE1	If needed for specific appliances, the following information to be given:	o - 20 ⁻
	<ul> <li>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</li> </ul>	N
	• on how to maintain adequate mechanical stability when in use, during transportation, assembly, dismantling, scrapping and any other action involving the appliance	N
	<ul> <li>on the protective measures to be taken by the user, including, where appropriate, the personal protective equipment to be provided</li> </ul>	N
	<ul> <li>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</li> </ul>	N
	on the specifications on the spare parts to be used, when these affect the health and safety of the operator	10 N
	on airborne noise emissions, determined and declared in accordance relevant Part 2, which includes:	with the
	- the A-weighted emission sound pressure level at workstations, where this exceeds 70 dB(A);	N
	- where this level does not exceed 70 dB(A), this fact is indicated	N
	- the peak C-weighted instantaneous sound pressure value at workstations, where this exceeds 63 Pa (130 dB in relation to 20 μPa)	N
	- the A-weighted sound power level emitted by the machinery, where the A-weighted emission sound pressure level at workstations exceeds 80 dB(A):	N

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	Der transfer Test	D It	V. P.	
CI,	Requirement - Test	Result	Verdic	
7.12.ZE2	The instructions includes a warning to disconnect the appliance from its power source during service and when replacing parts		N	
16) 16)	If the removal of the plug is foreseen, it is clearly indicated that the removal of the plug has to be such that an operator can check from any of the points to which he has access that the plug remains removed	10, 10, 10, 6, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	N	
40	If this is not possible, due to the construction of the appliance or its installation, a disconnection with a locking system in the isolated position is provided	10 102 10 10 10 10	N	
19.11.4.8	The appliance continues to operate, without causing any hazard to the user, from the same point in its operating cycle at which the voltage fluctuation occurred, or	157, 400 157, 157, 40 157,	N	
ίζ, ^o	a manual operation is required to restart it	. To Th To	Ν	
20.1	Appliances and their components and fittings have adequate mechanical stability during transportation, assembly, dismantling and any other action involving the appliance	10 To, To To, To To	N	
20.2	Dangerous moving transmission parts safeguarded either by design or guards	Star a Star	N	
10	When guards are used, they are fixed guards, interlocking movable guards or protective devices	70 70, 70	N	
er ve No.	Moving parts directly involved in the function of the appliance which cannot be made completely inaccessible fitted with:			
57. CA	- fixed guards or interlocking movable guards preventing access to those sections of the parts that are not used in the work, and	107, 10 107, 107 107, 107 107, 140	N	
le 1	- adjustable guards restricting access to those sections of the moving parts where access is necessary	10 - 10, 10 10, 10 - 10	N	
50 m	Interlocking movable guards used where frequent access is required	The the	N	
21.1	Appliances and their components and fittings have adequate mechanical strength and is 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	140 00,000 00 140 10,000 00 10,000 00 10,000 00	N	
22.ZE.1	For appliances provided with a seat, the seat gives adequate stability	s the to the	N	
90 -	The distance between the seat and the control devices capable of being adapted to the operator	76 30, 90.	N	

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CI.	Dequirement Test	Deput	Verdic
JI.	Requirement - Test	Result	verdic
22.ZE.2	For appliances provided with separate devices for the start and the stop functions, the stop function is unambiguously identifiable and does always override the start function		N
307 50 707 500	For appliances provided with one device performing the start and the stop function, the stop function is unambiguously identifiable and does always override the start function		N
22.ZE.3	Appliances designed in such a way that incorrect mounting is avoided, if this can lead to an unsafe situation	6 10, 10 10	N
3.4	If this is not possible, information on the correct mounting is given directly on the part and/or the enclosure	State St	N
22.ZE.4	Where the weight, size or shape prevents appliances from being moved manually, they are fitted with attachments for lifting gear, or	70 10, 70 70 10, 70	N
n de la constante de la consta	so designed that they can be fitted with such attachments, or	10, 10 To	N
1. A.	be shaped in such a way that standard lifting gear can easily be used	William a Maria	N
- 40 19 - 1	Appliances to be moved manually are constructed or equipped so that they can be moved easily and safely	70 707, 70	N
22.ZE.5	The fixing systems of fixed guards which prevent access to dangerous moving transmission parts only removable with the use of tools	10, 10 10,	N
140 16 -	If such guards have to be removed by the user for routine cleaning or maintenance their fixing systems remain attached to the fixed guards or to the machine after removal	10 10 107 10 10 107 10 10 107 10	N 1
15/2	Where possible, guards are incapable of remaining in place without their fixings	the the	N
149.0	This does not apply if, after removal of the screws, or if the component is incorrectly repositioned, the appliance becomes inoperative	40 107 40 TO	N
	Movable guards are interlocked	1. 1. 1	N C
10, 10, 10, 10, 10, 10, 10, 10, 10, 10,	The interlocking devices prevent the start of hazardous appliance functions until the guards are fixed in their position, and give a stop command whenever they are no longer closed		N
90	Where it is possible for an operator to reach the dange hazardous appliance functions has ceased, movable locking device in addition to an interlocking device that	guards associated with a guard	15

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	IEC 60335-2-65		6.90
CI.	Requirement - Test	Result	Verdic
1998 (J. 1998)	- prevents the start of hazardous appliance functions until the guard is closed and locked, and	and the second	N
30	- keeps the guard closed and locked until the risk of injury from the hazardous appliance functions has ceased	0 377 90 357 70 36	N
St. Can	Interlocking movable guards remain attached to the appliance when open, and	5. 74 . 76. 7	N
40	they are designed and constructed in such a way that they can be adjusted only by means of an intentional action	6 10, 10 6 10, 10	N
22.ZE.6	Interlocking movable guards designed in such a way that the absence or failure of one of their components prevents starting or stops the hazardous appliance functions	107, 10 107 107, 10 107	N
40 7	The guard is opened to the extent needed to cause the interlocking to operate and is then closed, the number of operations being defined in the specific Part 2	10 - 107 - 10 10 - 107 - 10 10 - 10 - 10	N
19.19. 19.19.	After this test any defect that may be expected in normal use is applied to the interlock system, including interruption of the supply, only one defect being simulated at a time	201 (40 10) (40 (40 10) (40	N
6 1	After these tests the interlock system is fit for further use	10 10, 70	N
22.ZE.7	Adjustable guards restricting access to areas of the m for the work are:	noving parts strictly necessary	
S. P. Lan	- adjustable manually or automatically, depending on the type of work involved, and	10 34 48	N
	- readily adjustable without the use of tools	No 16 No	N
22.ZE.8	In case of interruption, re-establishment after an interruption or fluctuation in whatever manner of the power supply, the appliance does not restart	107 80 10 107 80 10	N
57198 76	However, automatic restarting of the operation is allowed if the appliance may continue to operate, without causing any hazard to the user, from the same point in its operating cycle at which the voltage interruption or fluctuation occurred		N
22.ZE.9	Appliances fitted with means to isolate them from all energy sources	2. 40 2.	N
Contraction of the	Such isolators are clearly identified, and	N 90 40 4	Ν
70	they are capable of being locked if reconnection endanger persons	10 10, 10	N
757.	After the energy source is disconnected, it is possible to dissipate any energy remaining or stored in the circuits of the appliance without risk to persons		N

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7. 70 40	IEC 60335-2-65	

**Requirement - Test** 

CI.

Verdict

ZF	ANNEX ZF (INFORMATIVE) CRITERIA APPLIED FOR THE ALLOCATION OF F STANDARDS IN THE EN 60335 SERIES UNDER L		
-76 -76	List of standards under CENELEC/TC61 with the allocation under the LVD (Low Voltage Directive) or the MD (Machinery Directive):	LVD	P
ZG	ANNEX ZG (NORMATIVE) UV APPLIANCES		e 
10	The following modifications to this standard apply to appliances having UV emitters	6 25 20	N
9 1927	This annex is not applicable to appliances covered by the scopes of IEC 60335-2-27, IEC 60335-2-59 or IEC 60335-2-109	ton ton ton	N
7.12.ZG	The instructions for appliances incorporating UVC emitters include the substance of the following: WARNING — This appliance contains a UV emitter. Do not stare at the light source		N
32	For appliances incorporating UV emitters the manufacturer delivers a declaration providing evidence that the plastic material exposed to the radiation is UV resistant	The	N So
ZZ	ANNEX ZZ (INFORMATIVE) COVERAGE OF ESSENTIAL REQUIREMENTS OF	EC DIRECTIVES	70. 70.
8 1 75	Description of the relation between this European standard and the LVD (Low Voltage Directive) and the MD (Machinery Directive)	LVD 2014/35/EU	Ρ

Result

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5		IEC 60335-2-65		
CI.	Requirement - Test	a la	Result	Verdict

ANNEX	( EMF	Gran de Ros	
4	MEASURING METHODS(EN 62233:2008)		P
4.2	The frequency range considered is from 10Hz to 400kHz	20 57 50 40	Р
302	Measuring distance (according Table 1):(cm)	30cm	Р
	Measuring result:	The States and	e
Con a	(limit: 40mT)	20.0mT	P.S.

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10.1 TABLE: Power input deviation					
Input deviation of/at:	P rated (W)	P measured (W)	Δ P (%)	Required Δ P (%)	Remark
	e - 105	14 ·	6 %	- 20 2	o
Supplementary information:	10. ×	to to	40	An An	

10.2 TABLE: Curre	ent deviation				P
Current deviation of/at:	I rated (A)	I measured (A)	Δ I (%)	Required ∆ I (%)	Remark
220V, 50Hz	0.68	0.61	<b>-</b> 10.2	+20%	🔗 Р 🌖
240V, 50Hz	0.68	0.65	-4	+20%	P

11.8	TABLE: Heating test, thermoo	ocouples		
La.	Test voltage (V)	254.4V	57 G	_
	Ambient (°C)	T1: 23.5, T2: 23.4	6 <u>,</u> %	
Thermocouple locations		Max. temperature rise measured, △ T (K)	Max. temperati limit, ∆ T (	
Power cord	t de la constante de	2.9	50	<i>?</i> @
Inlet	v v} v v	3.7	45	1
Internal wir	re V. Vo Vo	3.2	55	4
Control end	closure	4.1	For cl.30	$\sim 2$
Terminal bl	lock	5.8	60	2
Ambient of	anion generator	3.6	Ref.	~e.
Switch butt	ton	3.9	60	1
Plastic enc	losure outside	2.2	60	4.
Test corne	the the tage	1.7	65	22
Supplemer	ntary information:		( ¹ ¹ ¹ ¹	

TABLE: Heating test	t, resistance				Р	
Test voltage (V)	:	254.4V				
Ambient, t ₁ (°C)	:	23.5				
Ambient, t ₂ (°C)	23.5					
re rise of winding	R ₁ (Ω)	R ₂ (Ω)	∆ <b>T (K)</b>	Max. ∆ T (K)		ulation
Motor winding		· · · ·	9) - W	45.2	2	65
	Test voltage (V) Ambient, t ₁ (°C) Ambient, t ₂ (°C) re rise of winding	Test voltage (V)Ambient, $t_1$ (°C)Ambient, $t_2$ (°C)re rise of windingR1 ( $\Omega$ )	Ambient, $t_1$ (°C)Ambient, $t_2$ (°C)re rise of winding $R_1$ ( $\Omega$ ) $R_2$ ( $\Omega$ )	Test voltage (V)Ambient, $t_1$ (°C)Ambient, $t_2$ (°C)re rise of winding $R_1$ ( $\Omega$ ) $R_2$ ( $\Omega$ ) $\Delta$ T (K)	Test voltage (V)       254.4V         Ambient, $t_1$ (°C)       23.5         Ambient, $t_2$ (°C)       23.5         re rise of winding $R_1$ ( $\Omega$ ) $R_2$ ( $\Omega$ ) $\Delta$ T (K)	Test voltage (V)Ambient, $t_1$ (°C)23.5Ambient, $t_2$ (°C)23.5re rise of winding $R_1$ ( $\Omega$ ) $R_2$ ( $\Omega$ ) $\Delta T$ (K)Max. $\Delta T$ (K)

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13.2	13.2 TABLE: Leakage current					
	Heating appliances: 1,15 x rated input:	2				
40	Motor-operated and combined appliances: 1.06 x rated voltage:	1.06×240V= 254	.4V			
Leakage	current between	l (mA)	Max. allow	ed I (mA)		
L/N and M	Netal enclosure	0.18	0.75 p	0.75 peak		
Supplem	entary information:	75, 76	- 35. ⁶	<b>%</b>		

13.3	TABLE: Electric strength		Р
Test vol	tage applied between:	Voltage (V)	Breakdown (Yes/No)
L/N and	Metal enclosure	AC1000V 1min	No
Supplem	nentary information:	10 m	8 B

14	TABLE: Transient	over voltage	es			N
Clearance	e between:	CI (mm)	Required CI (mm)	Rated impulse voltage (V)	Impulse test voltage (V)	Flashover (Yes/No)
- 1	. · · · · · · · · · · · · · · · · · · ·	· · ·	S) 4	-2.0>	70 - 70x	₹¢

16.2	TABLE: Leakage current		6	Р	
10	Single phase appliances: 1,06 x rated voltage :	1.06×240V= 254	.4V	_	
953 ^{- 1} 4	Three phase appliances 1,06 x rated voltage divided by $\sqrt{3}$ :	- 10, 70	A State	_	
Leakage c	urrent between	l (mA)	Max. allowe	d I (mA)	
L/N and Me	etal enclosure	0.2		.75	
Supplemer	ntary information:	10 702	No. 10	1	

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16.3	TABLE: Electric strength	TABLE: Electric strength						
Test vol	tage applied between:	Voltage (V)	Breakdown (Yes/No)					
L/N and	Metal enclosure	AC1250V 1min	No					
Supplem	nentary information:		19 TO					

17 TABLE: Overload protection, thermocouple method							
Temperatur	e rise of part/at:	Max. temperature rise measured, △ T (K)	Max. temperature rise limit, △ T (K)				
	N. 8 N. 8	° 705, 276 - 1	150				
2. 765.	10 To. 70	To To- To	For cl.30				

17	TABLE: Overload	TABLE: Overload protection, resistance method								
4	Test voltage (V)		To tot No			_				
<i>3</i>	Ambient, t ₁ (°C)		70 490 -		4					
Tr.	Ambient, t ₂ (°C)		:	-2. 2	82	_				
Temper	ature of winding	R ₁ (Ω)	R ₂ (Ω)	∆ <b>T (K)</b>	T (°C)	Ma	іх. Т (°С)			
C.A.	- "Ca	2	°	b) 🔗	2 <del>9</del> -	<u>e</u>	🚳			
Supplen	nentary information:	5	e 75.	-4 ₈	20 20		1.			

19	Abnormal op	peration c	onditi	ions				Р
Operation	nal characteris	tics	YES	/NO	Operational	conditions		
	electronic circ le appliance l?	cuits to	Yes	98) (98)	Refer to CI.1	9.11.2	57. 78 78	7 75
Are there position?	"off" or "stand	d-by"	No	78 - 75 7	N/A	100 1	8 15	2
the applia	ended operation ance results in a malfunction		No	and a start	N/A	7.40 A	157 TO 240	76 - 4
Sub- clause	Operating conditions description	Test res descrip		PEC description	EMP 19.11.4	Software type required	19.11.3 PEC	Final result
19.2	N/A	N/A	70	N/A	N/A	N/A	N/A	N/A
19.3	N/A	N/A		N/A	N/A	N/A	N/A	N/A
19.4	N/A	N/A		N/A	N/A	N/A	N/A	N/A
19.5	N/A	N/A		N/A	N/A	N/A	N/A	N/A
19.6	N/A	N/A		N/A	N/A	N/A	N/A	N/A
19.7	Refer to CI.19.7	No haz	ard	N/A	N/A	N/A	N/A	Р

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N/A	NI/A		· · · · ·			
	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A
Refer to CI.19.11.2	No hazard	N/A	N/A	N/A	N/A	P
N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A N/A Refer to Cl.19.11.2 N/A	N/AN/AN/AN/ARefer to Cl.19.11.2No hazard N/A	N/AN/AN/AN/AN/AN/AN/AN/AN/ARefer to Cl.19.11.2No hazard N/AN/AN/AN/AN/A	N/AN/AN/AN/AN/AN/AN/AN/AN/ARefer to Cl.19.11.2No hazardN/AN/AN/AN/A	N/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/ARefer to Cl.19.11.2No hazardN/AN/AN/AN/AN/AN/A	N/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/ARefer to Cl.19.11.2No hazardN/AN/AN/AN/AN/AN/AN/AN/A

19.7	TABLE: Abnormal operation, locked rotor/moving parts								
a	Test voltage (V)			:	240				
<i>.</i>	Ambient, t ₁ (°C)			.: 22.9					
27	Ambient, t ₂ (°C)	15.	22.9						
Tempera	ture of winding	R ₁ (Ω)	R ₂ (Ω)	∆ <b>T (K)</b>	T (°C)	Ма	ax. T (°C)		
Motor wir	nding	- 1	- 4.	14 - C	1205		175		
Supplem	entary information:	- G.			(A) (A)		$\langle Q \rangle_{-}$		

19.9	TABLE: Abnorma	l operation, run	ning overload				N
S.).	Test voltage (V)		:	40	- 10.	C.	
$\gamma_{g}$	Ambient, t ₁ (°C)		:	An .	a		
la .	Ambient, t ₂ (°C)		:				
Tempera	ture of winding	R ₁ (Ω)	R ₂ (Ω)	∆ <b>T (K)</b>	T (°C)	Ма	ax. T (°C)
a.	6 <del>2</del> 20	· ·	S) 'C	1 <u>0</u> 2	Ve - No	5.	÷
Supplem	entary information:	e 15.	70 1	5. 70		Sec.	4

19.13 TABLE: Abnormal operation, temperature rises							
Thermoco	uple locations	Max. temperature rise measured, △ T (K)	Max. temperature rise limit, △T (K)				
4 <u>0</u> , 7	e 15 76	1. 9. <del>.</del>					
Supplemen	tary information:		57, 6				

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24.1 T	ABLE: Components				Р
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity
External wire	CHING CHENG	N/14475	HOSVV-F, 3G0.75 mm ²	EN 60127-1 EN 60127-3	VDE A009037
Internal wire	Cixi Haosheng Wire & Cable Co., Ltd.	H05V-K	2×0.75mm2	EN 50525-2-31	VDE 40021089
Fuse	Dongguan Better Electronics Technology Co., Ltd.	331	F5A, 250V	EN 60127-1 EN 60127-3	TUV J 50158950
Alt.	Honghu Bluelight Electronic Co., Ltd.	L3T	F3.15A, 250V	EN 60127-1 EN 60127-3	VDE 40026874
Terminal blocks	Cixi Honge Electric Appliances Co., Ltd.	- 05	5A, V-0	EN 60335-1 EN 60335-2-65	Tested with appliance
Control enclosure	Interchangeable	Interchangeab le	V-0	EN 60335-1 EN 60335-2-65	Tested with appliance
Anion generator	Cixi Honge Electric Appliances Co., Ltd.	FF-210	100-240V~, 50/60Hz, 1W	EN 60335-1 EN 60335-2-65	TUV AN 50278235
Motor	NIDEC SHIBAURA (Zhejiang) CORP	SIC-55CVL- F140-2	AC220-240V, 60-160W, class E	EN 60335-1 EN 60335-2-65	Tested with appliance
Alt.	ANHUI ONCETOP Motor Technology co.,LTD	OT-PDC-40- 8-9	DC310V, 40W, class E	EN 60335-1 EN 60335-2-65	Tested with appliance
Volute	CHI MEI CORPORATION	PA-709S	HB, ABS	EN 60335-1 EN 60335-2-65	Tested with appliance & UL E56070
Power box cover	NINGBO LG YONGXING CHEMICAL CO., LTD	FR-500	V-0, ABS	EN 60335-1 EN 60335-2-65	Tested with appliance & UL E203955
Metal enclosure	Interchangeable	Interchangeab le	Min. 2mm thickness	EN 60335-1 EN 60335-2-65	Tested with appliance & UL E203955

1) Provided evidence ensures the agreed level of compliance. See OD-CB2039.

28.1	TABLE: Threade	d part torque test		N
Threaded	I part identification	Diameter of thread (mm)	Column number (I, II, or III)	Applied torque ( Nm )
-	4 ° ?	· · · · · · · · · · · · · · · · · · ·	- 76 - Y	9 70- MA
Suppleme	entary information:	80 To 1	e 1. 90	an la

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29.1	TABLE: Clearance	es				22	Ρ
C.A.	Overvoltage catego	ory:	22	1 - A	<u> </u>		
ζ.	10 A		10	10			
Rated impulse voltage (V):	Min. cl (mm)	Basic (mm)	Supplementary (mm)	Reinforced (mm)	Functional (mm)	Verd Rem	
330	0,2* / 0,5 / 0,8**	te	10. 70			100	
500	0,2* / 0,5 / 0,8**	-	· · ·		· - 0	5 ⁴	
800	0,2* / 0,5 / 0,8**	^^ <u>&gt;</u>	· · · ·	~ - °	7 <del>9</del> ,	76 -	· 13
1 500	0,5 / 0,8** / 1,0***	<u>م</u> جر	e - 35	- o	5 - To	1	
2 500	<u>1,5</u> / 2,0***	X	x	- 45	Х	Real P	6
4 000	<u>3,0</u> / 3,5***	7.5	70 - 70	Х		P	, 'C
6 000	5,5 / 6,0***	-		4	ee V	$> \frac{1}{2}$	9
8 000	8,0 / 8,5***	- 92	<u> </u>		20	- 9 ⁶	- 1
10 000	11,0 / 11,5***	76,-	10 - 1 ₀	1. C.	Se 4	. e <del>.</del>	

Supplementary information:

*) For tracks on printed circuit boards if pollution degree 1 and 2

**) For pollution degree 3

***) If the construction is affected by wear, distortion, movement of the parts or during assembly

Working voltage (V)				Cr P								
		1		2			3			Гуре o sulatio		_
			Material group			Material group						
			I	II	IIIa/IIIb	I	II	IIIa/IIIb*	<b>B</b> **	S**	R**	Verdict
≤50	100	0,2	0,6	0,9	1,2	1,5	1,7	1,9				N
≤50		0,2	0,6	0,9	1,2	1,5	1,7	1,9		-23		N
≤50	2	0,4	1,2	1,8	2,4	3,0	3,4	3,8		—	A.	N
>50 and :	≤125	0,3	0,8	1,1	1,5	1,9	2,1	2,4	86			N
>50 and :	≤125	0,3	0,8	1,1	1,5	1,9	2,1	2,4				Ň
>50 and :	≤125	0,6	1,6	2,2	3,0	3,8	4,2	4,8			100	Ν
>125 and	≤250	0,6	1,3	1,8	<u>2,5</u>	3,2	3,6	4,0	Х			Р
>125 and	≤250	0,6	1,3	1,8	<u>2,5</u>	3,2	3,6	4,0		Х		Р
>125 and	≤ <b>2</b> 50	1,2	2,6	3,6	<u>5,0</u>	6,4	7,2	8,0			X	Р
>250 and	≤400	1,0	2,0	2,8	4,0	5,0	5,6	6,3	1			Ń <
>250 and	≤400	1,0	2,0	2,8	4,0	5,0	5,6	6,3				N

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>250 and ≤400	2,0	4,0	5,6	8,0	10,0	11,2	12,6	—		6	N
>400 and ≤500	1,3	2,5	3,6	5,0	6,3	7,1	8,0				N
>400 and ≤500	1,3	2,5	3,6	5,0	6,3	7,1	8,0		~~		Ν
>400 and ≤500	2,6	5,0	7,2	10,0	12,6	14,2	16,0	_		ð	Ν
>500 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0				N
>500 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0				N
>500 and ≤800	3,6	6,4	9,0	12,6	16,0	18,0	20,0	—			Ν
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5				Ν
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5	_			N
>800 and ≤1000	4,8	8,0	11,2	16,0	20,0	22,0	25,0	_		Ĩ	N
>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0	10	İ —		Ν
>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0	_	20		Ν
>1000 and ≤1250	6,4	10,0	14,2	20,0	25,0	28,0	32,0	_			Ν
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0		Í —		Ν
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	_		· ·	N
>1250 and ≤1600	8,4	12,6	18,0	25,0	32,0	36,0	40,0	—		25	N
>1600 and ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0	16	Í —		N
>1600 and ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0	_			Ν
>1600 and ≤2000	11,2	16,0	22,0	32,0	40,0	44,0	50,0	_		~	Ν
>2000 and ≤2500	7,5	10,0	14,0	20,0	25, 0	28,0	32,0	·	Í —		N
>2000 and ≤2500	7,5	10,0	14,0	20,0	25, 0	28,0	32,0	—	N		Ν
>2000 and ≤2500	15,0	20,0	28,0	40,0	50,0	56,0	64,0	_		2	N
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0	1			N
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0	_	C.		Ν
>2500 and ≤3200	20,0	25,0	36,0	50,0	64,0	72,0	80,0				N
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	8	Í —		Ν
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	_			N
>3200 and ≤4000	25,0	32,0	44,0	64,0	80,0	90,0	100,0	—		10	Ν
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	90	İ —		Ν
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0				N
>4000 and ≤5000	32,0	40,0	56,0	80,0	100,0	112,0	126,0	_		- 20)	Ν
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0	16			N
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0		ίσ _λ		Ν
>5000 and ≤6300	40,0	50,0	72,0	100,0	126,0	142,0	160,0	_			N
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	1			Ν
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	_	85. 1		N

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>6300 and ≤8000	50,0	64,0	90,0	126,0	160,0	180,0	200,0	—		6	N
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0		—		Ν
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0		24		Ν
>8000 and ≤10000	64,0	80,0	112,0	160,0	200,0	220,0	250,0			3	N
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0				N
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0				Ν
>10000 and ≤12500	80,0	100,0	142,0	200,0	250,0	280,0	320,0	—		14	Ν
Supplementary inform	nation:	To	4.	- G.		1. 1	G		10		

*) Material group IIIb is allowed if the working voltage does not exceed 50 V

**) B = Basic insulation, S = Supplementary insulation, R = Reinforced insulation

29.2 TABLE: Working voltage (V):	Creep	age dis		P				
	1		2			3		
		Ма	aterial g	-	Ma	aterial g	•	
		I	I	IIIa/IIIb	I	II	IIIa/IIIb*	Verdict / Remark
≤10	0,08	0,4	0,4	0,4	1,0	1,0	1,0	N
50	0,16	0,56	0,8	1,1	1,4	1,6	1,8	Ng
125	0,25	0,71	1,0	1,4	1,8	2,0	2,2	N Yo
250	0,42	1,0	1,4	<u>2,0</u>	2,5	2,8	3,2	Р
400	0,75	1,6	2,2	3,2	4,0	4,5	5,0	N
500	1,0	2,0	2,8	4,0	5,0	5,6	6,3	N N
>630 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	N
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5	N
>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0	N
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	N
>1600 and ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0	10 N 70
>2000 and ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0	To. No
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0	N
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	N
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	N
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0	N
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	₹ <u>0</u> N%
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	N Th
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	N

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Supplementary information:

 $^{\ast)}$  Material group IIIb is allowed if the working voltage does not exceed 50 V

30.1	TABLE: Ball P	ressure Test of Therm	noplastics	Ton To	P
Allowed	impression diame	eter (mm):	2.0	to the	
Object/ I	Part No./ Material	Manufacturer/ trademark	Test temperature (°C)	Impression diame	ter (mm)
Control e	enclosure	See appended table 24.1	75	0.8	te -
terminal	blocks	See appended table 24.1	125	1.0	15

Object/	Manufacturer	Glow wire test (GWT); (°C)								
Part No./ Material	1	550	650		7	50	050	Verdict		
material	trademark	550	te	te ti		ti	- 850			
Power box cover	See appended table 24.1	х			<u>~</u> %	01/210	۰۵ کړک	Р		
terminal blocks	See appended table 24.1	°x	5-7-0 8-7-0	<u>مح</u> ح	0s	0s	X	Г. Р 7.		
PCB	See appended table 24.1	ς x	76- -16	25.5	0s	0s	X	P		
Object/ Part No./	Manufacturer /	Glow	Glow-wire flammability inc (GWFI), °C				tion temp. IT), °C	Verdict		
Material	trademark	550	650	750	850	675	775			
e – 16		100	9 <del>.5</del>	-	14 <u>-</u>		$\mathcal{L} = \mathcal{L}$			
The test spec	imen passed the	glow wire	e test (GV	VT) with no	ignition [(t	te – ti) ≤ 2s]	(Yes/No):	Yes		
lf no, then sur	rounding parts p	assed the	e needle-f	lame test o	of annex E	(Yes/No)		N		
	imen passed the wire (Yes/No)?							7 ₀ N		
Ignition of the	specified layer p	laced und	derneath	the test sp	ecimen (Ye	es/No)		Ň		

- 550 °C GWT not relevant (or applicable) to parts of material classified at least HB40 or if relevant HBF
 - The GWIT pre-selection option, the 850 °C GWFI pre-selection option, and the 850 °C GWT are not relevant (or applicable) for attended appliances

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30.2/30.2.4 TABLE: Needle- flame test (NFT)					N
Object/ Part No./ Material	Manufacturer/ trademark	Duration of application of test flame (ta); (s)	Ignition of specified layer Yes/NoDuration of burning (tb)		Verdic t
	<u> </u>	e <u>1</u> 0	% <u>-</u> %	70- 7	

ormation:

NFT not relevant (or applicable) for Parts of material classified as V-0 or V-1 _

NFT not relevant (or applicable) for Base material of PCBs classified as V-0 or if relevant VTM-0

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PHOTOS

#### Model: MRJH-JHQ



Fig.1- Front view



Fig.2- Rear view

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Fig.3- Inlet view



Fig.4- Internal view for control

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# AST.LAB

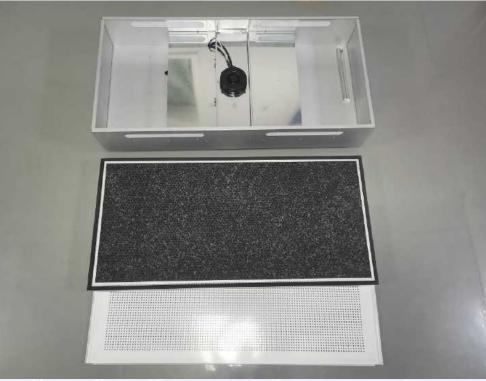


Fig.5- Internal view

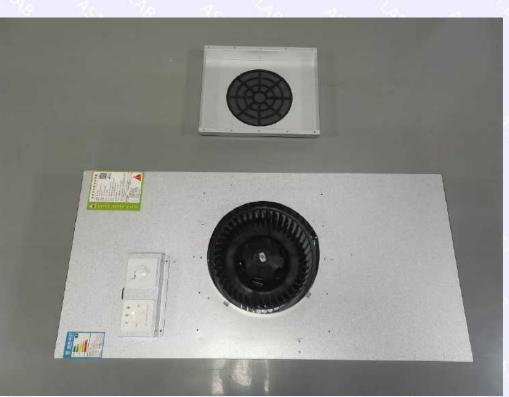


Fig.6- Internal view

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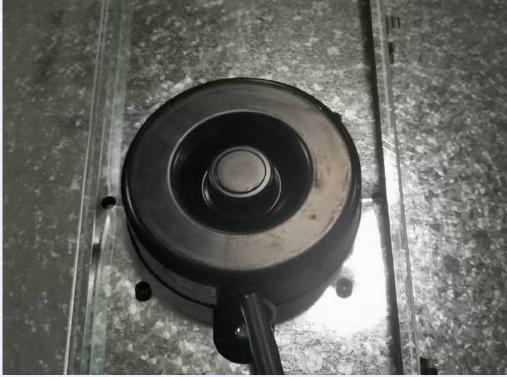


Fig.7- Motor view

1000 FUHS 13 IL IEK UN LVM IER OK DION 125°C 54 BR 220V 50Hz E (C)B 4HP /500V 0.5A 100W (H) W LE (M) O 650r/min (L) Y 0 BS-NJ300-130 Viring Schematics

Fig.8- Motor label view

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