

TEST REPORT

Reference No.	in.	WTF20F08054315J
Applicant	J.E.	Jinling Electrical Appliances Company Limited
Address		No.162 Jiangcui Road, Jianghai District, Jiangmen City, Guangdong, China
Manufacturer	:	Jinling Electrical Appliances Company Limited
Address	-:	No.162 Jiangcui Road, Jianghai District, Jiangmen City, Guangdong, China
Product Name	20	Air purifier
Model No.	11	KJ100G-J107
Standards	NI LITEK	Safety of household and similar electrical appliances Part 2-65: particular requirements for air-cleaning appliances IEC 60335-1:2010+A1:2013 IEC 60335-2-65:2002+A1:2008+A2:2015
Date of Receipt sample	:	2020-08-11
Date of Test	: 5	2020-08-14 to 2020-08-26
Date of Issue	in:	2020-09-03
Test Report Form No	: :	WSH-60335265H-01A
Test Result		Pass

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

> **Prepared By:** Waltek Testing Group (Foshan) Co., Ltd.

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Compiled by: M. em

Ryan Wu / Project Engineer

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Jerry Mu / Manager

Waltek Testing Group (Foshan) Co., Ltd. http://www.waltek.com.cn

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Test item description	: Air purifier
Trade Mark	"" TEL MITE WALL WALL WALL WALL WALL WALL WALL WAL
Model/Type reference	: KJ100G-J107
Ratings	: For adaptor: I/P: 100-240V~, 50/60Hz, 1.0A, Class II, IPX0; O/P:D0 24V, 1A
	For air purifier: DC 24V, 1A, 20W
Copy of marking plate:	THE NUTE WATER
For air purifier:	For adaptor:
Voltage:DC 24VMaximum Power:20WCADR:120m³/hNoise Level:≤45db(A)Dimension:198×198×333Net Weight:1.7kgCAUTION : This equipment should be inspecialcollected dirt removed from it regularly to paccumulation that may result in flashover or	ected frequently and orevent excessive
Remark:	the second se
when the equipment is vended to E within the EEA shall be added on.	EU, then name and address of the importer or authorized representative
National difference:	and the state of the state of the state
EU national differences were cons	idered according to below standard:

EN 60335-2-65:2003+A1:2008+A11:2012

EN 62233:2008

Summary of testing:

- 1. These samples are tested and complied with the requirements of standards listed in this report.
- 2. Full tests were performed on model KJ100G-J107.



Test item particulars:	the water water with the state
Classification of installation and use:	Portable appliances, household indoor use
Supply Connection:	Direct plug-in type
Possible test case verdicts:	Tex Tex wifet wife white white white
- test case does not apply to the test object:	N M M M
- test object does meet the requirement:	P(Pass)
- test object does not meet the requirement:	F(Fail)
General remarks:	TEX LIFE MITE MUTE WALL WALL WALL
"(See Enclosure #)" refers to additional information ap "(See appended table)" refers to a table appended to the	
Throughout this report a point is used as the decimal	separator.
iter white white white white with the	at ret ret the state with mite with
General product information:	with when when we we are
1. The appliance is Class II air purifier for household	and indoor use only.
2. The appliance is only to be used with the suitable	adapter provided.
	Fred with mit when when

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Clause	Clause Requirement + Test Result - Remark		
		rtesuit - rtemark	Verdic
5	GENERAL CONDITIONS FOR THE TESTS	STEP NITE WATER W	N ^L NP
LIEK NAL	Tests performed according to clause 5, e.g. nature of supply, sequence of testing, etc.	ret ret with a	THE NUMP
5.101	5.101 Appliances are tested as motor-operated appliances. (IEC 60335-2-65)	at left the st	F THE P
6	CLASSIFICATION	white white white	P
6.1	Protection against electric shock: Class 0, 0I, I, II, III:	Class II	unit P.C
6.2	Protection against harmful ingress of water	1 A A	N ^t
7 5	MARKING AND INSTRUCTIONS	WITE WALL WALL W	N ^N P
7.1	Rated voltage or voltage range (V)	See page 2	P
NITE.	Symbol for nature of supply, or:	See page 2	
	Rated frequency (Hz):	See page 2	Р
INITE IN	Rated power input (W), or:	See page 2	NUTE NP
	Rated current (A):	her rain has	N
LIE WAY	Manufacturer's or responsible vendor's name, trademark or identification mark	See marking label	P
EX NITE	Model or type reference:	See page 2	T P
	Symbol IEC 60417-5172, for class II appliances	MUT MUT MI	P
NUTER	IP number, other than IPX0:	IPX0 of other	N
	Symbol IEC 60417-5180, for class III appliances, unless	wint with all	N
n m	the appliance is operated by batteries only	NIT AT WALL W	N N
TEK WALT	Symbol IEC 60417-5018, for class II and class III appliances incorporating a functional earth	The set wat	SER NUTEN
MUTEK	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	* white white white	NATE NATE
LIEK WALT	UV radiation air-cleaning appliances containing replaceable UV-C emitters shall 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/A2)	ANT AN ANTER ANTITER AN	et wards
WALTER	If it is intended that replacement of the UV-C emitter can be carried out by the user, the appliance shall be marked with "Read the instructions" or with symbol ISO 7000-0790 (2004-01). (IEC 60335-2- 65/A2)	whitek whitek whitek	N

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Clause	Deguinement - Test	Desight Demorts	Vardia
Clause	Requirement + Test	Result - Remark	Verdict
7.2	Warning for stationary appliances for multiple supply	WALTER WALTER WALTER WALTER	SUL N
LTER NAL	Warning placed in vicinity of terminal cover	TEX LIEK LIEK MITER	N ¹¹ N
7.3	Range of rated values marked with the lower and upper limits separated by a hyphen	at the test of	P
	Different rated values marked with the values separated by an oblique stroke	white white white we	Ρ
7.4	Appliances adjustable for different rated voltages or rated frequencies, the voltage or the frequency setting is clearly discernible	white white white white	NN NITEK
iet whit	Requirement met if frequent changes are not required and the rated voltage or rated frequency to which the appliance is to be adjusted is determined from a wiring diagram	net white white white	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	whitek whitek whitek whi	PNI
let i	the power input or current are related to the arithmetic mean value of the rated voltage range	und white white white	N
Et MITE	Relation between marking for upper and lower limits of rated power input or rated current and voltage is clear	ATTE WALL WALL WALL	P STEK
7.6	Correct symbols used	MUT ME MU M	Р
WALTER	Symbol for nature of supply placed next to rated voltage	whitek whitek whitek whit	P
NLIEX W	Symbol for class II appliances placed unlikely to be confused with other marking	ALL STREE WALFER WALFER	PER N
TEX WALT	Units of physical quantities and their symbols according to international standardized system	at a set with	NUTE P
7.7	Connection diagram fixed to appliances to be connected to more than two supply conductors and appliances for multiple supply, unless	A NUTER WITER WAITER WA	SEE N
.et	correct mode of connection is obvious	the state of the	- N <
7.8	Except for type Z attachment, terminals for connection as follows:	on to the supply mains indicated	NN A
I'L' WA	- marking of terminals exclusively for the neutral conductor (letter N)	stift while while white	N .
EK WALTE	- marking of protective earthing terminals (symbol IEC 60417-5019)	tex whitek whitek whitek of	LICN N
WALTER	- marking of functional earthing terminals (symbol IEC 60417-5018)	allet milet water wat	et N
A	- marking not placed on removable parts	MI THE ALL	N
7.9	Marking or placing of switches which may cause a	THE UTER NUTE WIT	P

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Clause	Requirement + Test	Result - Remark	Verdic
t	the iter with antic with with a		
MLA N	hazard	LIER ALTER ALTE MAIN	white
7.10	Indications of switches on stationary appliances and controls on all appliances by use of figures, letters or other visual means	Symbols	P
* WALTE	This applies also to switches which are part of a control	et stret whilet whitet wh	JEC P
NLTEX	If figures are used, the off position indicated by the figure 0	ret ret with mit	N N
TEX	The figure 0 indicates only OFF position, unless no confusion with the OFF position	which which will will be	N
7.11 🔊	Indication for direction of adjustment of controls	NET WALL WITH WITH	√n P
7.12	Instructions for safe use provided	at at all all	<u>с</u> Р
- NI	Details concerning precautions during user maintenance	and and and and a	P
m	The instructions state that:	white white white white	Р
WALTER WAY	- 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	wither whiter whiter white	- PE
et mire	- children being supervised not to play with the appliance	at not not what	JEKP
WALTER	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	water water water water	N
NLTER W	Instructions for class III appliances state that it must only be supplied at SELV, unless	ALL STREE WALTER WALTER	N
.FEK WALT	it is a battery-operated appliance, the battery being charged outside the appliance	the set would be	N. S. C. N
+ NITEN	For appliances for altitudes exceeding 2000 m, the maximum altitude is stated:	t set set suret in	SEL N
NNLTEX	The instructions for appliances incorporating a functional earth states that the appliance incorporates an earth connection for functional purposes only	WALLEX WALLEX WALLEY WALTE	N
NUTE WAY	The instructions for UV radiation air-cleaning applian concerning:	ces shall give details	N N
WNIT	 the method, frequency of cleaning, and necessary precautions to be taken; (IEC 60335-2-65/A2) 	SEX WALTER WALTER WALTER W	J.C.N.
WALTER	- precautions to be taken when replacing UV-C emitters and starters, if applicable.(IEC 60335-2- 65/A2)	whilet whilet while while	N

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NIEC 6	0335-2-	65
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Clause	Requirement + Test Result - F	Remark Verdict
NY IN	of the following:	the set of the
<u> </u>	- This appliance contains a UV-C emitter.	N
UTE VUNUTE	 Unintended use of the appliance or damage to the housing may result in the escape of dangerous UV-C radiation. UV-C radiation may, even in little doses, cause harm to the eyes and skin. (IEC 60335-2-65/A2) 	Tex watter watter water
WALTER	 Appliances that are obviously damaged must not be operated. (IEC 60335-2-65/A2) 	whitek whitek white white
NLTEX WN	 If the replacement of the UV-C emitter by the user is not allowed, this must be clearly stated. (IEC 60335-2-65/A2) 	tret water water water
IFK NIT	The instructions of appliances containing replaceable UV-C en contain the substance of the following:	hitters shall also N
- N.	 Read the maintenance instructions before opening the appliance; (IEC 60335-2-65/A2) 	N ^N
WALL	 The appliance must be disconnected from the supply before replacing the UV-C emitter. (IEC 60335-2-65/A2) 	WALLEY WILL WILL WILL NO.
7.12.1	Sufficient details for installation supplied	NUTER MUTER WALTE WP
LIEK WAI	For an appliance intended to be permanently connected to the water mains and not connected by a hose-set, this is stated	TEX WALTER WALTER WALTER
et white	If different rated voltages or different rated frequencies are marked, the instructions state what action to be taken to adjust the appliance	* WALTER WALTER WALTERN
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	Whitek whitek whitek
7.12.3	Insulation of the fixed wiring in contact with parts exceeding 50 K during clause 11; instructions state that the fixed wiring must be protected	North Martin Martin Martin
7.12.4	Instructions for built-in appliances:	N
Nrt's	- dimensions of space	No. N.
st	- dimensions and position of supporting and fixing	N-
r. w	- minimum distances between parts and surrounding structure	the work which when N
WALT	- minimum dimensions of ventilating openings and arrangement	WATER WATE MET N
WALTER	- connection to supply mains and interconnection of separate components	whitek whitek whitek Nit
NLTEK	- allow disconnection of the appliance after installation, by accessible plug or a switch in the	Tet and Net

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IEC 60335-2-65	
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Clause	Requirement + Test	Result - Remark	Verdict
NLIEK N	fixed wiring, unless	THE UTER MUTCH	UNLIEK WALTER
.+	a switch complying with 24.3	In 20 20	N
7.12.5	Replacement cord instructions, type X attachment with a specially prepared cord	LIEK MALIER MALIER M	N S
A NUTE	Replacement cord instructions, type Y attachment	at wet wet with	N N N
	Replacement cord instructions, type Z attachment	me me m	N
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	water water water	NITE NITER
7.12.7	Instructions for fixed appliances stating how the appliance is to be fixed	at at ret	N THE
7.12.8	Instructions for appliances connected to the water m	ains: A	N
- JIEK	- max. inlet water pressure (Pa):	at all of	N.C
NNLIEK N	- min. inlet water pressure, if necessary (Pa)	water water with	MALTE MALTER
LIEK WAL	Instructions concerning new and old hose-sets for appliances connected to the water mains by detachable hose-sets	Lifet millet whilet w	NUTEX MITT
7.13 🧹	Instructions and other texts in an official language	In English	dr _dr₽ _
7.14	Marking clearly legible and durable, rubbing test as specified	white white whe	VI PN
7.15	Markings on a main part	NUTER INTERNATION	JUL JP
NLTEX N	Marking clearly discernible from the outside, if necessary after removal of a cover	we are aret	MUTER MALTER
Tet II	For portable appliances, cover can be removed or opened without a tool	at a start	P
t united	For stationary appliances, name, trademark or identification mark and model or type reference visible after installation	with with with	N
WALTER S	For fixed appliances, name, trademark or identification mark and model or type reference visible after installation according to the instructions	where the water	Martin Martin
ITEK WN	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	whet whilet whilet	Milet Mile.
whit	The symbol IEC 60417-5018 placed next to the symbol IEC 60417-5172 or IEC 60417-5180	IT WALTE WALL WA	N
7.16	Marking of a possible replaceable thermal link or fuse link clearly visible with regard to replacing the link	waller walter walte	N ^{II}

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Clause	Requirement + Test	Result - Remark	Verdict
8 ⁻¹ -1	PROTECTION AGAINST ACCESS TO LIVE PARTS	the set state and	P
8.1	Adequate protection against accidental contact with	with with with million	P
LI NIL	live parts	Tex Tex Liek Miles	MITTER
8.1.1	Requirement applies for all positions, detachable parts removed	at the test state	THE P
-N. 	Lamps behind a detachable cover not removed, if conditions met	white white white w	N
	Insertion or removal of lamps, protection against contact with live parts of the lamp cap	WAITE WAITE MALE WAS	Ň
NET WY	Use of test probe B of IEC 61032, with a force not exceeding 1 N: no contact with live parts	MITER WAITER WAITER WAIT	on'P
FER WALT	Use of test probe B of IEC 61032 through openings, with a force of 20N: no contact with live parts	Tet ouret wouret wouret	V LIFP V
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	WALTER WALTER WALTER W	
NAT W	Test probe 13 also applied through openings in earthed metal enclosures having a non-conductive coating: no contact with live parts	white white white white	N
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	et whitet whitet whitet	IN TEX IN
8.1.4	Accessible part not considered live if:	- THE THE STIFFT IN	S P.
TEX	- safety extra-low a.c. voltage: peak value not exceeding 42.4 V	when when when when	N
le - m	- safety extra-low d.c. voltage: not exceeding 42.4 V	Approved adaptor	[√] P
TEK WALT	- or separated from live parts by protective impedance	at the suntrest	N STON S
* NALTER	If protective impedance: d.c. current not exceeding 2 mA, and	t set stat with	N LOC N
*	a.c. peak value not exceeding 0.7 mA	m m r	N
	- for peak values over 42.4 V up to and including 450 V, capacitance not exceeding 0,1 μF	MALTER MALTER WAITER WAL	Ň
ILIER WAY	 for peak values over 450 V up to and including 15 kV, discharge not exceeding 45 μC 	stret white white white	N N
EK WALTE	- for peak values over 15kV, the energy in the discharge not exceeding 350 mJ	let maret wainet wainet	N LICEN
WALTER	- 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/A2)	whitek whitek whitek of	
8.1.5	Live parts protected at least by basic insulation befor	a installation or assembly:	JUN N

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Clause	Requirement + Test	Result - Remark	Verdic
State 1	built in appliances		
in n	- built-in appliances	Martin Martin Martin	SON N
Liek Ni	- fixed appliances	the state of the	N N
	- appliances delivered in separate units	the sunt one one	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	of white white white	MATE MALI
SLITEK IN	Only possible to touch parts separated from live parts by double or reinforced insulation	when we we have	THE PL
9	STARTING OF MOTOR-OPERATED APPLIANCES	intra white white white	N
FER WALT	Requirements and tests are specified in part 2 when necessary	TEX OUTEX WAITER WAITE	WILLEN W
10 <	POWER INPUT AND CURRENT	the state	P
10.1	Power input at normal operating temperature, rated voltage and normal operation not deviating from rated power input by more than shown in table 1.:	(see appended table)	
	If the power input varies throughout the operating cycle and the maximum value of the power input exceeds, by a factor greater than two, the arithmetic mean value of the power input occurring during a representative period, the power input is the maximum value that is exceeded for more than 10 % of the representative period	aret water water water	
WALTE	Otherwise the power input is the arithmetic mean value	whitet whitet whitet	IN CONCE
INLIEK W	Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless	nts sing on set on	TEK MPER
JE. WAL	the rated power input is related to the arithmetic mean value	when the metry	SULL 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)	UN FEE P
NALITE NA	If the current varies throughout the operating cycle and the maximum value of the current exceeds, by a factor greater than two, the arithmetic mean value of the current occurring during a representative period, the current is the maximum value that is exceeded for more than 10 % of the representative period	WALTER WALTER WALTER WAL	N
A	Otherwise the current is the arithmetic mean value	m m r	N
WALTE	Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless	white white white	P

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Clause	Requirement + Test	Result - Remark	Verdict
INLIEK N	the rated current is related to the arithmetic mean value of the range	watter water watter wa	NN
11 N	HEATING	THE THE STREET WIT	N ^{LI} P
11.1	No excessive temperatures in normal use	in the the the	Р
11.2	The appliance is held, placed or fixed in position as described	On test floor	w Pu
11.3	Temperature rises, other than of windings, determined by thermocouples	MITER MAITER MAILER	NUTE PLIE
NLIEK WA	Temperature rises of windings determined by resistance method, unless	TEX WITEK MITEK MA	SEK NA
EK INIT	the windings are non-uniform or it is difficult to make the necessary connections	at not not only	L ITEP
11.4	Heating appliances operated under normal operation at 1.15 times rated power input (W):	white white white	N
11.5	Motor-operated appliances operated under normal operation at most unfavourable voltage between 0.94 and 1.06 times rated voltage (V)	(see appended table)	NICE P
11.6	Combined appliances operated under normal operation at most unfavourable voltage between 0.94 and 1.06 times rated voltage (V):	int war we we	N N
11.7 VIII.7	Replacement: Appliances are operated until steady conditions are established. (IEC 60335-2-65)	EX WALTER WALTER WALTER	WIN TEKP
11.8	Temperature rises monitored continuously and not exceeding the values in table 3	(see appended table)	MIT MAIN
NLTEX W	If the temperature rise of a motor winding exceeds the value of table 3, or	at the state watter way	TEK NEK
IEK MIT	if there is doubt with regard to classification of insulation,	a a state surf	× NITEN
	tests of Annex C are carried out	Jule Jue In.	N
White	Sealing compound does not flow out	et the steet street	Pri Pri
	Protective devices do not operate, except	me m m	Р
WALTE V	components in protective electronic circuits tested for the number of cycles specified in 24.1.4	whitek whitek white w	N N
UTER N	Addition: NOTE 101	at at at	N N
- JNI	Operation of a current-limiting device in a high- voltage circuit is allowed. (IEC 60335-2-65)	With which which which	- Million
13	LEAKAGE CURRENT AND ELECTRIC STRENGTH TEMPERATURE	I AT OPERATING	Wer Pul
13.1	Leakage current not excessive and electric strength adequate	MALTER MALTER MALTER	UNIT EN PRIS
	Heating appliances operated at 1.15 times the rated power input (W):	Tet Jet with with	LIEV NEW

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Clause	Requirement + Test	Result - Remark	Verdict
J. C.	Match an around a patient and a patient		
	Motor-operated appliances and combined appliances supplied at 1.06 times the rated voltage (V)	(see appended table)	P F
+	Protective impedance and radio interference filters disconnected before carrying out the tests	LIEL WITTE WITTE WATT	N
13.2	For class 0, class II and class III appliances, and class II constructions, leakage current measured by means of the circuit described in figure 4 of IEC 60990	and the multiple water w	NI PA
NITEK NA	For class 0I and class I appliances, a low impedance ammeter may be used	THE THE STAR ON	JEK NY
4	Leakage current measurements:	(see appended table)	Р
13.3	The appliance is disconnected from the supply	TEX LIEK NUTER WITE	P
L at	Electric strength tests according to table 4:	(see appended table)	P
MULT	No breakdown during the tests	THE NUTER MUTER	JUL BU
14	TRANSIENT OVERVOLTAGES	Mr. Mr. L	N
white w	Appliances withstand the transient over-voltages to which they may be subjected	Intret watte maine w	SUN .
ite whi	Clearances having a value less than specified in table 16 subjected to an impulse voltage test, the test voltage specified in table 6	tret white white white	N N
white	No flashover during the test, unless	ex outer intre-wouter	Nº Nº
INLIEK	of functional insulation if the appliance complies with clause 19 with the clearance short-circuited	Tet Tet with	MIT AL N
15	MOISTURE RESISTANCE	me me m	Р
15.1	Enclosure provides the degree of moisture protection according to classification of the appliance	Net of the working when	NNN St. Let
MALTER	Compliance checked as specified in 15.1.1, taking into account 15.1.2, followed by the electric strength test of 16.3	when when which	N
WALTER S	No trace of water on insulation which can result in a reduction of clearances or creepage distances below values specified in clause 29	white white with	
15.1.1	Appliances, other than IPX0, subjected to tests as specified in IEC 60529:	IPX0	
EX MALTE	Water valves containing live parts in external hoses for connection of an appliance to the water mains tested as specified for IPX7 appliances	ret whe whitek white	N
15.1.2	Hand-held appliance turned continuously through the most unfavourable positions during the test	- tet set set	MITER N
. et	Built-in appliances installed according to the instructions	when when when when when when when when	N

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Clause	Requirement + Test	Result - Remark	Verdict
t	the star star with white way way		
Inter w	Appliances placed or used on the floor or table placed on a horizontal unperforated support	WALTER WALTER WALTER	on N
rter whi A rel	Appliances normally fixed to a wall and appliances with pins for insertion into socket-outlets are mounted on a wooden board	Jet writet writet w	
WAL	For IPX3 appliances, the base of wall mounted appliances is placed at the same level as the pivot axis of the oscillating tube	et watter watter wat	
WITEK W	For IPX4 appliances, the horizontal centre line of the appliance is aligned with the pivot axis of the oscillating tube, and	white white white	NUTER NUTER
EK WALT	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	ret with whitek whi	THE STREET
	Wall-mounted appliances, take into account the distance to the floor stated in the instructions	WALTER WALTER WALT	Mrs. Nrs
WALTER W	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	INTER WITTER WITTER	SUNTE NN
EX WALTE	for IPX4 appliances, the movement of the tube is limited to two times 90° from the vertical for a period of 5 min	Et allet outet and	Et IN IST
MUTEK	Appliances with type X attachment fitted with a flexible cord as described	Tet set stat	× N
JEt .	Detachable parts subjected to the relevant treatment with the main part	white where white	N
JEX JAL	However, if a part has to be removed for user maintenance and a tool is needed, this part is not removed	at the sure of	N
15.2	Spillage of liquid does not affect the electrical insulation	t at ret of	t set N
N. TEK	Spillage solution comprising water containing approximately 1 % NaCl and 0,6 % rinsing agent	white white where	N
NUT 1	Appliances with type X attachment fitted with a flexible cord as described	white white white	white white
ex it	Appliances incorporating an appliance inlet tested with or without an connector, whichever is most unfavourable	LIEK WAITER WAITER W	nti un'N .
m	Detachable parts are removed	TEN UNITE WALL WAL	~^ ¹ N ^{6/1}
MALTEK	Overfilling test with additional amount of the solution, over a period of 1 min (I):	THEY NITEY WITE	t N A N
TEX	The appliance withstands the electric strength test of 16.3	a it it	N N

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Clause	Requirement + Test	Result - Remark	Verdict
		Result - Remark	Verdic
Inter N	No trace of water on insulation that can result in a reduction of clearances or creepage distances below values specified in clause 29	white white white w	et set
15.3	Appliances proof against humid conditions	LIER WALLS WALL WALL	Р
* WALTER	Checked by test Cab: Damp heat steady state in IEC 60068-2-78	at intrest intrest innitest	WN THE PUN
Whitek	Detachable parts removed and subjected, if necessary, to the humidity test with the main part	Tet with with	NUT NOUT
	Humidity test for 48 h in a humidity cabinet	25 °C, 93% R.H.	PL
NITE WA	Reassembly of those parts that may have been removed	NITER WRITER WAITER WAY	SIN'P
IFX INT	The appliance withstands the tests of clause 16	at all set set set	P
16	LEAKAGE CURRENT AND ELECTRIC STRENGTH	Mar. Mar M.	Р
16.1	Leakage current not excessive and electric strength adequate	whitek watter watter	WILL ET PIL
NNLTEX N	Protective impedance disconnected from live parts before carrying out the tests	whet while while w	LIE PE
LTEX NN	Tests carried out at room temperature and not connected to the supply	ret that what will	et P-
16.2	Single-phase appliances: test voltage 1.06 times rated voltage (V)	(see appended table)	P
	Three-phase appliances: test voltage 1.06 times rated voltage divided by $\sqrt{3}$ (V):	white white white	N
un.	Leakage current measurements:	(see appended table)	N° VP
. Alt	Limit values doubled if:	the state	N ^t
in m	- all controls have an off position in all poles, or	inti sin winter win	N N
IEK WALT	- the appliance has no control other than a thermal cut-out, or	et a ret mit	St NITEN
t INLIEK	- all thermostats, temperature limiters and energy regulators do not have an off position, or	t set set with	IN THE N
	- the appliance has radio interference filters	mer mer m	N
white y	With the radio interference filters disconnected, the leakage current do not exceed limits specified:	whitek whitek whitek w	N.C.
16.3	Electric strength tests according to table 7:	(see appended table)	P P
EX NALIF	Test voltage applied between the supply cord and inlet bushing and cord guard and cord anchorage as specified	(see appended table)	P
	No breakdown during the tests	with sur st	Р
16.101	High-voltage transformers must have adequate internal insulation. The duration of the test is sec. (IEC 60335-2-65)	white white white	N

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IEC 60335-2-65

Clause	Requirement + Test	Result - Remark	Verdict
17 🔊	OVERLOAD PROTECTION OF TRANSFORMERS	AND ASSOCIATED CIRCUITS	SUL N
TEX WAL	No excessive temperatures in transformer or associated circuits in event of short-circuits likely to occur in normal use:	(see appended table)	N. T.N. V
* WALTER	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):	(see appended table)	STEEN N
NUTE	Basic insulation is not short-circuited	THE STREET MUTER MATTE	N
NLTEX WY	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	NUT WITH WATER WATER	NL
in white	Temperature of the winding not exceeding the value specified in table 8	of the watter watter watter w	N
WALTER	However, limits do not apply to fail-safe transformers complying with sub-clause 15.5 of IEC 61558-1	whitet whitet whitet whi	N
18	ENDURANCE	white white white white	JUN N
LIEK .IN	Requirements and tests are specified in part 2 when necessary	at the state state	N-
19	ABNORMAL OPERATION	it. whe we we	Р
19.1	The risk of fire, mechanical damage or electric shock under abnormal or careless operation obviated	et watter watter watter wa	P
wint.	Electronic circuits so designed and applied that a fault will not render the appliance unsafe	(see appended table)	P
NUTE W	Appliances incorporating heating elements subjected to the tests of 19.2 and 19.3, and	ALL VINITE VINITE	New
	if the appliance also has a control that limit the temperature during clause 11 it is subjected to the test of 19.4, and	when the wontreet of	N N
WALTE	if applicable, to the test of 19.5	t set allet aller and	Ŋ
NUTER	Appliances incorporating PTC heating elements are also subjected to the test of 19.6	when you we will all all a	N
Nº V	Appliances incorporating motors subjected to the tests of 19.7 to 19.10, as applicable	white white with sur	P
et nit	Appliances incorporating electronic circuits subjected to the tests of 19.11 and 19.12, as applicable	et ret the ster	
WALTER	Appliances incorporating contactors or relays subjected to the test of 19.14, being carried out before the tests of 19.11	white wires white	N EK MIL
LITER	Appliances incorporating voltage selector switches subjected to the test of 19.15	at let get get	N

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J.L.	IEC 60335-2-65					
Clause	Requirement + Test	Result - Remark	Verdic			
ntiet v	Unless otherwise specified, the tests are continued until a non-self-resetting thermal cut-out operates, or	while while while while	N ST			
NI	until steady conditions are established	iter white white white	Р			
NNLTEN N	If a heating element or intentionally weak part becomes open-circuited, the relevant test is repeated on a second sample	whitek whitek whitek w	N N			
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)	watter watter watter wat	N N			
19.3 🔊	Test of 19.2 repeated; test voltage (V), power input of 1.24 times rated power input (W):	MITE MAIL WALL MAL	SUN N			
19.4	Test conditions as in clause 11, any control limiting the temperature during tests of clause 11 short-circuited	white white white	N N 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 sheath	white white white white	N			
LTEX MINI	The test repeated with reversed polarity and the other end of the heating element connected to the sheath	thet whilet whilet whilet	N ⁻			
et woute	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	et whitet whitet whitet w				
19.6	Appliances with PTC heating elements tested at rated voltage, establishing steady conditions	when when when the	N			
Tet whit	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):	ALL AND	N			
19.7	Stalling test by locking the rotor if the locked rotor torque is smaller than the full load torque, or	when when we we	N			
Mr. 2	locking moving parts of other appliances	white white whe whe	<i>∕</i> [™] P			
LIFEK WAY	Locked rotor, capacitors open-circuited one at a time	LIEK INTER WALTER WALTER	N. N			
EX NALTE	Test repeated with capacitors short-circuited one at a time, unless	et the the atter				
t	the capacitor is of class P2 of IEC 60252-1	Mr. m. m.	, N			
WALTE	Appliances with timer or programmer supplied with rated voltage for each of the tests, for a period equal to the maximum period allowed	watter watter watter way	N			

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	4	1	10	

Clause	Requirement + Test	Result - Remark	Verdic
INLIGE WILL	An electronic timer or programmer that operates to ensure compliance with the test before the maximum period under the conditions of Clause 11 is reached, is a protective electronic circuit	MALIER WALTER WALTER WALT	ANN N
+ INLIEK	Other appliances supplied with rated voltage for a period as specified	Until steady condition	TEK-P
TEX	Winding temperatures not exceeding values specified in table 8	(see appended table)	P
19.8	Multi-phase motors operated at rated voltage with one phase disconnected	water water water w	N
19.9	Running overload test on appliances incorporating motors intended to be remotely or automatically controlled or liable to be operated continuously	NUTE WALL WALL WALL	S ^{IN} N
WALTER	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	whitet whitet whitet	N
	Winding temperatures not exceeding values as specified	untile water water we	N N
19.10	Series motor operated at 1.3 times rated voltage for 1 min (V)	LIET WALTER WALTE WALT	N .
WALTE	During the test, parts not being ejected from the appliance	et united waited waited	WULLEN NI
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	wather wather wather w	
LIER N	they comply with the conditions specified in 19.11.1	THE THE N	N N
FEK WALT	Appliances incorporating an electronic circuit that relies upon a programmable component to function correctly, subjected to the test of 19.11.4.8, unless	ALL AND	A NUTER
	restarting does not result in a hazard	the state	N
WALTER W	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	White white white	STE SMIT
LIEK WN	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	NUTER WALTER WALTER WAL	N - N
Mur	During and after each test the following is checked:	TER WALTER WALTE WALTE	1 P1
MALTER	- the temperature of the windings do not exceed the values specified in table 8	- List List Minet	MI P
TEX	- the appliance complies with the conditions specified in 19.13	M. M. M.	P



IEC 60335-2-65

Clause	Requirement + Test	Result - Remark	Verdict
Whitek W	- any current flowing through protective impedance not exceeding the limits specified in 8.1.4	WHITE WALTER WALTER WALT	N N
ITE WAL	If a conductor of a printed board becomes open-circu considered to have withstood the particular test, provious conditions are met:		N N
when	- the base material of the printed circuit board withstands the test of Annex E	White white white white	N
NITEX W	- any loosened conductor does not reduce clearance or creepage distances between live parts and accessible metal parts below the values specified in clause 29	whilet whilet white whi	S N
19.11.1	Fault conditions a) to g) in 19.11.2 are not applied to meeting both of the following conditions:	circuits or parts of circuits	N
t whitek	- 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	white white white	N ST
WALTER W	- the protection against electric shock, fire hazard, mechanical hazard or dangerous malfunction of other parts of the appliance does not rely on the correct functioning of the electronic circuit	UNLIEK WALTER WALTER WAL	E NEY
19.11.2	Fault conditions applied one at a time, the appliance specified in clause 11, but supplied at rated voltage, specified:		JN ¹ P
Whitek	a) short circuit of functional insulation if clearances or creepage distances are less than the values specified in clause 29	white white white	P ^N
20	b) open circuit at the terminals of any component	mur mur mu m.	Р
NUTER	c) short circuit of capacitors, unless	THE ALTER MUT	P
	they comply with IEC 60384-14	We we we	N
TE WALT	d) short circuit of any two terminals of an electronic component, other than integrated circuits	The on fet watter	S NO P
WALTER WALTER	This fault condition is not applied between the two circuits of an optocoupler	t wifet whilet whilet	NITER N.C.
Alt	e) failure of triacs in the diode mode	L A At	6- P.6
MUT 2	f) failure of microprocessors and integrated circuits	Intre white white white	-√ [™] P
	g) failure of an electronic power switching device		N
EK WALT	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	tet united white white	N 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	whitek whitek whitek w	

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Clause	Requirement + Test	Result - Remark Vero	
		Incodit Inciliarit	Verdie
19.11.4	Appliances having a device with an off position obtained by electronic disconnection, or	WALTER WALTER WALTER	NUL SUN
JE. WIT	a device that can be placed in the stand-by mode,	tet itet itet a	UTE NUTP
* white	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	Set milet whilet whit	St IN THE P
WALTER WAL	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	whitek whitek whitek	MALTER MALTER
EK WALTE	appliances operated for 30 s or 5 min during the test of 19.7 are not subjected to the tests for electromagnetic phenomena.	ant with an and a set of the set	JEK WITE N
t	Surge protective devices disconnected, unless	the second second	¢ − P ,
m	They incorporate spark gaps	WALTE WALTE WALT	Mr N
19.11.4.1	The appliance is subjected to electrostatic discharges in accordance with IEC 61000-4-2, test level 4	INTER WALTER WALTER	WALTE PLE
19.11.4.2	The appliance is subjected to radiated fields in accordance with IEC 61000-4-3, test level 3	LIEK WALTER WALTER W	ITEL MUP
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	Tex watter waiter wait	et refP
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	yunitet whitet white	WILL PL
INTE MA	An open circuit test voltage of 2 kV is applicable for the line-to-line coupling mode	Net Martin V	IN P
TENNIT	An open circuit test voltage of 4 kV is applicable for the line-to-earth coupling	T ME SU FET WA	STELL N N
WNLTER	Earthed heating elements in class I appliances disconnected	ret outer wouter while	St NIL SUN
19.11.4.5	The appliance is subjected to injected currents in accordance with IEC 61000-4-6, test level 3	THEY WITH MUTH	MALTE PIE
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	whe will be an iter whiter w	ALTER WALTER
et white	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	LIEK WALTER WALTER WAL	SHETEN W
19.11.4.7	The appliance is subjected to mains signals in accordance with IEC 61000-4-13, test level class 2	er until watter watte	WALL PL
19.11.4.8	The appliance is supplied at rated voltage and operated under normal operation. After 60s the	Tet the street	INTER PER

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Clause	Requirement + Test	Result - Remark	Verdic
Clause		Result - Remark	Verdic
INLIE W	power supply is reduced to a level such that the appliance ceases to respond or parts controlled by the programmable component cease to operate	white white white white	white
- m	The appliance continues to operate normally, or	LIES INTE WALL WALL	N
+	requires a manual operation to restart	i it at at	P
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)	WALTER WALTER WALTER WALTER	N
19.13	During the tests the appliance does not emit flames, molten metal, poisonous or ignitable gas in hazardous amounts	ret stret miret white	P
- INLIEK	Temperature rises not exceeding the values shown in table 9	(see appended table)	EK P
	Compliance with clause 8 not impaired	when when we we	Р
white w	If the appliance can still be operated it complies with 20.2	Intifet while while while	M P
LIEK WAY	Insulation, other than of class III appliances or class contain live parts, withstands the electric strength ter specified in table 4:		P
- INLIE	- basic insulation (V)	1000V	P
	- supplementary insulation (V):	1750V	Р
NALTER	- reinforced insulation (V):	3000V	P
NUTEK W	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	whe was sub-	Pek wnitek
t jitet	The appliance does not undergo a dangerous malfunction, and	when the set	P
wh	no failure of protective electronic circuits, if the appliance is still operable	white white white we	Ň
NALL V	Appliances tested with an electronic switch in the off mode:	position, or in the stand-by	NP
LTE NN	- do not become operational, or	TEX ITEX WIFE MUTER	P
et white	- if they become operational, do not result in a dangerous malfunction during or after the tests of 19.11.4	IEK MITEK MALTEK MALTEK M	LIER N
WALTER	If the appliance contains lids or doors that are control one of the interlocks may be released provided that:		ex P
	- the lid or door does not move automatically to an open position when the interlock is released, and	when the set of	P

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Clause	Requirement + Test	Result - Remark	Verdict
	Requirement + rest	Result - Remain	veruic
Inter W	- the appliance does not start after the cycle in which the interlock was released	WHITER WHITER WALTER WA	NP
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	THE WALTER WALTER WALT	N N
when	For a relay or contactor with more than one contact, all contacts are short-circuited at the same time	watter watter watter	M NO
WALTE V	A relay or contactor operating only to ensure the appliance is energized for normal use is not short- circuited	water water water w	N N
nt mn	If more than one relay or contactor operates in clause 11, they are short-circuited in turn	NUTER WINTE WALL WA	SM N
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	at white white white	N
20	STABILITY AND MECHANICAL HAZARDS	Mr. M. S.	Р
20.1	Appliances having adequate stability	TER STER MITER W	VI JUP
inex whi	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	Lifet would would would	P
WINL	Tilting test repeated on appliances with heating elements, angle of inclination increased to 15°	at write write write	Nor Nor
white	Possible heating test in overturned position; temperature rise does not exceed values shown in table 9	watter watter waiter	N N
20.2	Moving parts adequately arranged or enclosed as to provide protection against personal injury	att water water	√ P
IE WAL	Protective enclosures, guards and similar parts are non-detachable, and	when the met	VNL P V
+ NITER	have adequate mechanical strength	t set set set	P
	Enclosures that can be opened by overriding an interlock are considered to be detachable parts	white white white	P
NAT V	Self-resetting thermal cut-outs and overcurrent protective devices not causing a hazard by unexpected closure	white white white w	TEX MITEX
et	Not possible to touch dangerous moving parts with the test probe described	the way with any	P
21 🖑	MECHANICAL STRENGTH	TE WALTE WALT WAL	24 P.24
21.1	Appliance has adequate mechanical strength and is constructed as to withstand rough handling	- ALTER MITER MUTER	UNITER PUT
TEK	Checked by applying 3 blows to every point of the enclosure like to be weak, in accordance with test	(see appended table)	JEK PEK

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Clause	Requirement + Test	Result - Remark	Verdict
Clause	Requirement + rest	Result - Remark	verdici
NN-TEN W	Ehb of IEC 60068-2-75, spring hammer test, with an impact energy of 0,5 J	WALTER WALTER WALTER WALTER	WALTE
LTER WAL	The appliance shows no damage impairing compliance with this standard, and	LIEX WAITER WAITER WAITER	N ^{CC} P
K WALTER	compliance with 8.1, 15.1 and clause 29 not impaired	et allet white white wh	JEC P
NLIEK	If doubt, supplementary or reinforced insulation subjected to the electric strength test of 16.3	and the tree street mill	
JEX .	If necessary, repetition of groups of three blows on a new sample	with with the state	N
21.2	Accessible parts of solid insulation having strength to prevent penetration by sharp implements	Mile while while while	N
t strek	Test not applicable if the thickness of supplementary insulation is at least 1 mm and reinforced insulation at least 2 mm	antifer white white white w	N N N
W.	The insulation is tested as specified, and does withstand the electric strength test of 16.3	white white white white	Ň
22 🚿	CONSTRUCTION	white white white white	√ ^N P
22.1	Appliance marked with the first numeral of the IP system, relevant requirements of IEC 60529 are fulfilled	tret watter while white	N ⁻
22.2	Stationary appliance: means to ensure all-pole disconnection from the supply being provided:		JEE N N
. Let	- a supply cord fitted with a plug, or	i stat a	* N.<
m	- a switch complying with 24.3, or	White white white white	Ň
INLIEK W	- a statement in the instruction sheet that a disconnection incorporated in the fixed wiring is to be provided, or	att star watter watter	Net
TEN INLT	- an appliance inlet	A TEX STREET	N .
X WALTER	Singe-pole switches and single-pole protective devices for the disconnection of heating elements in single-phase, permanently connected class 01 and class I appliances, connected to the phase conductor	whitet whitet whitet wh	VILLE N
22.3	Appliance provided with pins: no undue strain on socket-outlets	Approved adaptor	P
r. m	Applied torque not exceeding 0.25 Nm	street untile would would	N N
et white	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	set while white white w	N
WAL	Each pin subjected to a torque of 0.4Nm; the pins are not rotating, unless	white white white whe	N
JIE .	rotating does not impair compliance with this	at the the state	N

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Clause	Pequirement + Test	Result - Remark	Verdic
Clause	Requirement + Test	Result - Remark	verdic
INTER N	standard	THE THE STREET	INTER NATE
22.4	Appliance for heating liquids and appliance causing undue vibration not provided with pins for insertion into socket-outlets	LIEX WALLEY WALLEY WA	LIEK NUTER
22.5	No risk of electric shock when touching the pins of the plug, for appliances having a capacitor with rated capacitance equal to or greater than $0,1\mu$ F, the appliance being disconnected from the supply at the instant of voltage peak	at whitet whitet white	P
A	Voltage not exceeding 34 V (V):	12V	,⊢ P,⊢
nti wn	If compliance relies on the operation of an electronic circuit, the electromagnetic phenomena tests of 19.11.4.3 and 19.11.4.4 are applied	MITER WALTE WALTE	N N
t set	The discharge test is then repeated three times, voltage not exceeding 34 V (V):	white white wh	N
22.6	Electrical insulation not affected by condensing water or leaking liquid	White white white	N
WULLE W	Electrical insulation of Class II appliances not affected if a hose ruptures or seal leaks	INTER WALTER WALTER	white wh
JEK N	In case of doubt, test as described	at at at	N N
22.7	Adequate safeguards against the risk of excessive pressure in appliances containing liquid or gases or having steam-producing devices	et the with the second	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	WALTER WALTER WALTER	NULL NULL
22.9	Insulation, internal wiring, windings, commutators and slip rings not exposed to oil, grease or similar substances, unless	NUN ATTE VUNITE V	N P
m	the substance has adequate insulating properties	Mr. W. Mr.	5 N 4
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:	Whitek whitek white	
win u	- a non-self-resetting thermal cut-out is required by the standard, and	white white white	W VN
it was	- a voltage maintained non-self-resetting thermal cut-out is used to meet it	NITER WAITE WALTE W	N N
E. WALT	Non-self-resetting thermal motor protectors have a trip-free action, unless	TEK WALTER WALTER WAL	
TEX	they are voltage maintained	- It It I	E See N
WI TEX	Reset buttons of non-self-resetting controls so located or protected that accidental resetting is unlikely	white white white	N

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Clause	Requirement + Test	Result - Remark	Verdic
22.11	Reliable fixing of non-detachable parts that provide the necessary degree of protection against electric shock, moisture or contact with moving parts	MUTT WALL WALL	
, NI + , EX	Obvious locked position of snap-in devices used for fixing such parts	the water water wi	Р
WAL	No deterioration of the fixing properties of snap-in devices used in parts that are likely to be removed during installation or servicing	and ret ret	N P
m.	Tests as described	white white white	-101 P
22.12	Handles, knobs etc. fixed in a reliable manner	at alt alt	J ^{et} J ^P
iet whit	Fixing in wrong position of handles, knobs etc. indicating position of switches or similar components not possible	ALL WAL WAL WAL	P
t NLTEX	Axial force 15 N applied to parts, the shape being so that an axial pull is unlikely to be applied	well with the	P
TEX	Axial force 30 N applied to parts, the shape being so that an axial pull is likely to be applied	when when when	P
22.13	Unlikely that handles, when gripped as in normal use, make the operator's hand touch parts having a temperature rise exceeding the value specified for handles which are held for short periods only	white white white w	
22.14	No ragged or sharp edges creating a hazard for the user in normal use, or during user maintenance	et writet writet whi	HK JEKP
WALTER.	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	white white white	MIT P
22.15	Storage hooks and the like for flexible cords smooth and well rounded	ALL ALL ALL AND THE A	UNLIEK NOK
22.16	Automatic cord reels cause no undue abrasion or damage to the sheath of the flexible cord, no breakage of conductors strands and no undue wear of contacts	when the surface we	STOCK N
with	Cord reel tested with 6000 operations, as specified	A INLIER WALTE WALT	Nr Nr
UNLIEK J	Electric strength test of 16.3, voltage of 1000 V applied	TEX STEX OUTER	INTE NE
22.17	Spacers not removable from the outside by hand or by means of a screwdriver or a spanner	when when when when the	N N
22.18	Current-carrying parts and other metal parts resistant to corrosion	net whe whe w	It It
22.19	Driving belts not relied upon to provide the required level of insulation, unless	in watter watter wat	N N N
MALTER	constructed to prevent inappropriate replacement	THE STEEL STEEL	N ¹
22.20	Direct contact between live parts and thermal insulation effectively prevented, unless	we we are	N

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Clause	Requirement + Test	Result - Remark	Verdict
.et	all all all with a set we we	A A A	it it
IN IN	material used is non-corrosive, non-hygroscopic and non-combustible	WALTER WALTER WALTE	Nue N
22.21	Wood, cotton, silk, ordinary paper and fibrous or hygroscopic material not used as insulation, unless	LIEK WALTER WALTER WA	LITER AND P
	impregnated	at at at a	et set N
Whitek .	This requirement does not apply to magnesium oxide and mineral ceramic fibres used for the electrical insulation of heating elements	whit white white	N N
22.22	Appliances not containing asbestos	m. m. n.	Р
22.23	Oils containing polychlorinated biphenyl (PCB) not used	NUTEX WALTER WALTER V	ntit antP
22.24	Bare heating elements, except in class III appliances or class III constructions that do not contain live parts, adequately supported	ret whitek whitek why	LET N LIFEN
white	In case of rupture, the heating conductor is unlikely to come in contact with accessible metal parts	white white white	White New
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	WITER WAITER WAITER	WITE WITE
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	Et white white whi	The sub-
22.27	Parts connected by protective impedance separated by double or reinforced insulation	Whitek Whitek White	WILL SN'S
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	and the summer of	North North
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	with some some	N
22.30	Parts serving as supplementary or reinforced insulation fixed so that they cannot be removed without being seriously damaged, or	WITE WITEK WALTER	Maire P
LITEK WAY	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	LIEK WALTER WALTER	NUTER MU
22.31	Neither clearances nor creepage distances over supplementary and reinforced insulation reduced below values specified in clause 29 as a result of wear	NUTE WATER WATE	P
it	Neither clearances nor creepage distances	t t	P

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Clause	Requirement + Test	Result - Remark	Verdict
15-	THE LITER NUTE NUTE WALL WITH		At At
White W	below values for supplementary insulation if wires, screws etc. become loose	WALTER WALTER WALTE	WALL WAL
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	at the states	P
	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	white white white	WITT MITT
NITER WA	Ceramic material not tightly sintered, similar materials or beads alone not used as supplementary or reinforced insulation	Millet watter watter	NITE N N
t uner	Ceramic and similar porous material in which heating conductors are embedded is considered to be basic insulation, not reinforced insulation	and the would work	N N N
MEX	Oxygen bomb test at 70 °C for 96 h and 16 h at room temperature	white white white	N 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, or	Intret white white	unt win
EK MALTE	unearthed metal parts separated from live parts by basic insulation only	at the the state	TEK N
.t.	Electrodes not used for heating liquids	The the m	N
whitek w	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	would would would	North Martin
IFK AL	the reinforced insulation consists of at least 3 layers	at the second	STATE STAN
* white	For class II constructions, conductive liquids which are in contact with live parts, not in direct contact with reinforced insulation, unless	and the second second	A MARTIN
at .	the reinforced insulation consists of at least 3 layers	Mr. In a	N
white w	An air layer not used as basic or supplementary insulation in a double insulation system if likely to be bridged by leaking liquid	White white white	NAL WN
22.34	Shafts of operating knobs, handles, levers etc. not live, unless	with which which w	P
WAL	the shaft is not accessible when the part is removed	TEX NUTER INTE INT	NN NN
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	white white white	t white white
IN I	Such parts being of metal, and their shafts or fixings	ARE JE JE	N N

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Clause	Requirement + Test	Result - Remark	Verdic
Intrest will	are likely to become live in the event of a failure of basic insulation, are either adequately covered by insulation material or their accessible parts are separated from their shafts or fixings by supplementary insulation	WALTER WALTER WALTER WA	ITEX SOLITEX
whitek whitek	This requirement does not apply to handles, levers and knobs on stationary appliances and cordless appliances, other than those of electrical components, provided they are reliably connected to an earthing terminal or earthing contact, or separated from live parts by earthed metal	WALTER WALTER WALTER	
ntin win text	Insulating material covering metal handles, levers and knobs withstand the electric strength test of 16.3 for supplementary insulation	NITER WAITER WAITE W	ntit _{sur} en et stet
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	whitek whitek white	P
weither w	they are separated from live parts by double or reinforced insulation	MITER WALTER WALTER	Nnu vnN
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	eret whilet whilet w	THE MEP
40°	the capacitors comply with 22.42	me me m	N
22.38	Capacitors not connected between the contacts of a thermal cut-out	WALTER WALTER WALTER	Whit PLA
22.39	Lamp holders used only for the connection of lamps		Net Net
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	ret with a wint with	
WALTER WAY	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	whitek whitek whitek	Martin Martin
22.41	No components, other than lamps, containing mercury	et the with all	EX LIEP
22.42	Protective impedance consisting of at least two separate components	- et ret ret	N
TEX	Values specified in 8.1.4 not exceeded if any one of the components are short-circuited or open-circuited	white white white	N N

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Clause	Requirement + Test	Result - Remark	Verdict
1. Ar	the state state with white water with		it it
Intit W	Resistors checked by the test of 14.1 a) in IEC 60065	UNLIER WALTER WALTE WAL	SUL N
LIEN WAL	Capacitors checked by the tests for class Y capacitors in IEC 60384-14	TEX WALTER WALTER WALTE	N SN S
22.43	Appliances adjustable for different voltages, accidental changing of the setting of the voltage unlikely to occur	et watter watter watter	oun Jet N
22.44	Appliances not having an enclosure that is shaped or decorated like a toy	watter watter watter wa	U. P.
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	NITER WHITER WHITER WHITE	et P
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	whitek whitek whitek	N N N
WALTER W	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	INTITET VINTET VINTET VIN	
EX NALTE	These requirements are not applicable to software used for functional purpose or compliance with clause 11	et tret stret with	N TEX M
22.47	Appliances connected to the water mains withstand the water pressure expected in normal use	the set set	
. It	No leakage from any part, including any inlet water hose	MAL WALL AND W	N SH
22.48	Appliances connected to the water mains constructed to prevent backsiphonage of non- potable water	and the same and	- SV N
22.49	For remote operation, the duration of operation is to be set before the appliance can be started, unless	when when we we	N
- MI	the appliance switches off automatically or can operate continuously without hazard	white white white	N
22.50	Controls incorporated in the appliance take priority over controls actuated by remote operation	WAITER WAITER WAITER WA	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	LIFE WALTER WALTER WALT	N N
when	There is a visual indication showing that the appliance is adjusted for remote operation	The watthe watthe watthe	Nov A
WALTE	These requirements not necessary on appliances the without giving rise to a hazard:	at can operate as follows,	Nº Nº
. Allt	- continuously, or	a at at	N N

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Clause	Requirement + Test	Result - Remark	Verdic
	and with white white where the		
n. n	- automatically, or	White white white	N Nucli Sur N
11 5	- remotely	t at at	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	at at at a	
22.53	Class II appliances and class III appliances that incorporate functionally earthed parts have at least double insulation or reinforced insulation between live parts and the functionally earthed parts	survices survices survices	Nº Nº
22.54	Button cells and batteries designated R1 not accessible without the aid of a tool, unless	NITEX WITEX MITEX	INLIEK WILN
TEX WALT	the cover of their compartment can only be opened after at least two independent movements have been applied simultaneously	ret and ret and ret and	STATE 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)	wattet wattet watte	June Pri
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)	Intret white white	WALL WIN
22.103	UV radiation air-cleaning appliances shall not emit UV radiation in hazardous amounts: – before, during or after installation; – during operation; – during maintenance; – during cleaning; – during replacement of the UV-C emitter. (IEC 60335-2-65/A2)	et wouret wouret wouret	
22.104	If the replacement of the UV-C emitter is allowed by the user, the appliance shall be constructed so that: - the replacement of the UV-C emitter is easily possible; - if screws or components are omitted or incorrectly positioned or fastened, the appliance is rendered inoperable or manifestly incomplete; - the UV-C emitter is deactivated by an interlock actuated by opening or removing of a part to gain access. (IEC 60335-2-65/A2)	A SUN SUNTER SUNTER SUNTER	A SIN CAL
22.105	If the replacement of the UV-C emitter by the user is not intended, this shall be prevented by the construction of the appliance. (IEC 60335-2-65/A2)	the state state of	TEK JUTEK M
22.106	Parts of organic material that are exposed to direct or reflected UV-C radiation shall be UV-C resistant. (IEC 60335-2-65/A2)	- TEL TEL TE	L N
23	INTERNAL WIRING	white white white	Р
23.1	Wireways smooth and free from sharp edges	the state	P

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Clause	Requirement Test	Result - Remark	Verdict
Clause	Requirement + Test	Result - Remark	verdic
INLIE W	Wires protected against contact with burrs, cooling fins etc.	MALTER MALTER MALTER	MILL MP
LIE. WAL	Wire holes in metal well-rounded or provided with bushings	LIEK WALLER WALLER WA	LIFE ONLY N
* WALTER	Wiring effectively prevented from coming into contact with moving parts	et ourer untret whit	at sun sun
23.2	Beads etc. on live wires cannot change their position, and are not resting on sharp edges	Tet sitet witet	SUNTE N
alifek "N	Beads inside flexible metal conduits contained within an insulating sleeve	when we we we	N N
23.3	Electrical connections and internal conductors movable relatively to each other not exposed to undue stress	net the niter of	Set whitek
+ NITEK	Flexible metallic tubes not causing damage to insulation of conductors	ret ret at	K IN
	Open-coil springs not used	white white with	N
NUNTERN	Adequate insulating lining provided inside a coiled spring, the turns of which touch one another	Intret watter watter	untre un
LIEK WAI	No damage after 10 000 flexings for conductors flexed during normal use, or	Tet milet whitet w	WITHE MITH
ex unite	100 flexings for conductors flexed during user maintenance	et the tet of	EK TEKN
Jet	Electric strength test of 16.3, 1000 V between live parts and accessible metal parts	we we ret	N
with the set	Not more than 10% of the strands of any conductor broken, and	Mall Mall Wat	N N
Int. M	not more than 30% for wiring supplying circuits that consume no more than 15W	ML VINLIL V	m sm N
23.4	Bare internal wiring sufficiently rigid and fixed	A THE IN	JE N
23.5	The insulation of internal wiring subjected to the supply mains voltage withstanding the electrical stress likely to occur in normal use	t intifet innifet while	A JUN EL P
WALTER S	Basic insulation electrically equivalent to the basic insulation of cords complying with IEC 60227 or IEC 60245, or	Whitek whitek whitek	white white
NITER MAN	no breakdown when a voltage of 2000 V is applied for 15 min between the conductor and metal foil wrapped around the insulation	stift whilet whilet w	NITET WITP
WALL	For class II construction, the requirements for supplementary insulation and reinforced insulation apply,	SEX WALTER WAITE WAI	N N
WALEX	except that the sheath of a cord complying with IEC 60227 or IEC 60245 may provide supplementary insulation.	white white white	N N



Clause	Requirement + Test	Result - Remark	Verdic
t	the state state with which with a		the set
WILL W	A single layer of internal wiring insulation does not provide reinforced insulation	WALTER WAITER WAITE WA	N N
23.6	Sleeving used as supplementary insulation on internal wiring retained in position by clamping at both ends, or	TEX WAITER WAITER WAIT	I I I N
whit	be such that it can only be removed by breaking or cutting	white white putter	n Nr
23.7	The colour combination green/yellow only used for earthing conductors	watter watter watter w	N ^L T NA
23.8	Aluminium wires not used for internal wiring	at at at	P
23.9	Stranded conductors not consolidated by soldering where they are subjected to contact pressure, unless	NUT WAT WAT WAT	P LIEL
	the contact pressure is provided by spring terminals	MI W W	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)	WALTER WALTER WALTER	ant Ne
24	COMPONENTS	at the test of	P
24.1	Components comply with safety requirements in relevant IEC standards	t at at at	P
2m	List of components:	(see appended table)	An bu
WALTER	Motors not required to comply with IEC 60034-1, they are tested as part of the appliance	ourer andres andres	UNIT OF PIT
At	Relays tested as part of the appliance, or	m - + At	N
Int w	alternatively acc. to IEC 60730-1, and meeting the additional requirements in IEC 60335-1	at white white	SIL N
The world	The requirements of Clause 29 apply between live parts of components and accessible parts of the appliance	when the set of the summer	
whitek	Components can comply with the requirements for clearances and creepage distances for functional insulation in the relevant component standard	WALTE WALT WAL	
LIFEK WIN	30.2 of this standard apply to parts of non-metallic material in components including parts of non-metallic material supporting current-carrying connections	MALL WALLEY WALTER WAL	P
WALTER .	Components that have not been previously tested to comply with the IEC standard for the relevant component are tested according to the requirements of 30.2	SEX WILLEX WALTER WALTER	
NITEK	Components that have been previously tested to comply with the resistance to fire requirements in the IEC standard for the relevant component need	White white with a	P



Clause	Requirement + Test	Result - Remark	Verdict
.t.	Alt the state when the second state	I Government	
intra m	not be retested provided the specified conditions are met	MALTER MALTE WALTE	When when
	If these conditions are not satisfied, the component is tested as part of the appliance.	LIEK MAITEK MALIEK M	LITER ALL P
WALTEN	Power electronic converter circuits not required to comply with IEC 62477-1, they are tested as part of the appliance	et writtet writtet writ	et sin sin
Whitek N	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	whitek whitek whitek	WITT PR
EX WALT	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	ret white white wh	Jet N Line
White w	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	WALTER WALTER WALTER	NUT PUT
ETEX WAITE	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	eret writet writet w	Et UN TEX UN
WALTER	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	whitet whitet white	N N
24.1.1	Capacitors likely to be permanently subjected to the supply voltage and used for radio interference suppression or for voltage dividing, comply with IEC 60384-14		
+ NNITEK	If the capacitors have to be tested, they are tested according to Annex F	at what what will	A SEK N
24.1.2	Transformers in associated switch mode power supplies comply with Annex BB of IEC 61558-2-16	when we we we	N
NI V	Safety isolating transformers comply with IEC 61558-2-6	which which where	SU SN
t wh	If they have to be tested, they are tested according to Annex G	NITE WAIT WALL W	N N
24.1.3	Switches comply with IEC 61058-1, the number of cycles of operation being at least 10 000	TEK WALTER WALTER WAL	N N N
WALTER	If they have to be tested, they are tested according to Annex H	NALTER WALTER WALTE	WALL ST N.L
INLIEK W	If the switch operates a relay or contactor, the complete switching system is subjected to the test	Tet stret stret	unite white

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	IEC 60335	-2-05		
Clause	Requirement + Test	and the	Result - Remark	Verdic
UNLIEK WIL	If the switch only operates a motor staring re complying with IEC 60730-2-10 with the nur cycles of a least 10 000 as specified, the co switching system need not be tested	mber of	NOLITER WALTER WALTER WALTER	NUT EX
at white	Addition: Interlock switches are operated 1 000 times (IEC 60335-2-65)	nti mi	et united whitet whitet wh	THEN N
24.1.4	Automatic controls comply with IEC 60730-7 cycles of operation being at least:	1 with the	relevant part 2. The number of	N N N
j.t.	- thermostats:	10 000	and a stat	N
ur m	- temperature limiters:	1 000	NITER INTERNITE WITH	SUL N
at it	- self-resetting thermal cut-outs:	300	i stat at	N
where the	- voltage maintained non-self-resetting thermal cut-outs:	1 000	anti water water w	N
WALT	- other non-self-resetting thermal cut-outs:	30	street intree sintre and	N
.it	- timers:	3 000	The second second	N
nner n	- energy regulators:	10 000	atter intre- intre intre	N
LIEK wini	The number of cycles for controls operating clause 11 need not be declared, if the applia meets the requirements of this standard who are short-circuited	ance	TEX WALTER WALTER WALTER	N.
white	Thermal motor protectors are tested in com with their motor under the conditions specifi Annex D		et watter watter wait wa	N N
MITEK W	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 subclause 6.5.2 of IEC 60730-2-8 is IPX7		white white white white	N
t white	Thermal cut-outs of the capillary type complete the requirements for type 2.K controls in IEC 60730-2-9		the set of the set	
24.1.5	Appliance couplers comply with IEC 60320-	1	white white white white	Ň
WALTER J	However, for class II appliances classified h than IPX0, the appliance couplers comply w 60320-2-3		watter watter watter watte	NI
NITE WAY	Interconnection couplers comply with IEC 6 2	0320-2-	stret while white white	en 'N
24.1.6	Small lamp holders similar to E10 lamphold comply with IEC 60238, the requirements for lampholders being applicable		NET WAITER WAITER WAITER W	LT N
24.1.7	For remote operation of the appliance via a telecommunication network, the relevant state for the telecommunication interface circuitry appliance is IEC 62151		Whitek white white white	N



Clause	Requirement + Test	Result - Remark	Verdic
24.1.8	The relevant standard for thermal links is IEC 60691	WALTER WALTER WALTER	onti on N
	Thermal links not complying with IEC 60691 are considered to be an intentionally weak part for the purposes of Clause 19	Tet wattet wattet w	
24.1.9	Contactors and relays, other than motor starting relays, tested as part of the appliance	et white white whi	Su Nu
	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:	WALTER WALTER WALTER	white white
24.2	Appliances not fitted with:	Mrs. Mrs. Mr. 4	Р
ie whit	- switches or automatic controls in flexible cords	TEX LIFE NUTER IN	IT NHI PN
* WALTER	- devices causing the protective device in the fixed wiring to operate in the event of a fault in the appliance	whitek whitek white	x ex P
NNLTEXN	- thermal cut-outs that can be reset by soldering, unless	THE MUTER MUTER	MALTE PLE
A	the solder has a melding point of at least 230 °C	ar an ar	N
24.3	Switches intended for all-pole disconnection of stationary appliances are directly connected to the supply terminals and have a contact separation in all poles, providing full disconnection under overvoltage category III conditions	Et white white whi	
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	WALTER WALTER WALTER	N.S.
24.5	Capacitors in auxiliary windings of motors marked with their rated voltage and capacitance, and used accordingly	with an art with	N
	Voltage across capacitors in series with a motor winding does not exceed 1,1 times rated voltage, when the appliance is supplied at 1,1 times rated voltage under minimum load	White white white	White White
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 42 V	whitek whitek whitek w	NIEL N
	In addition, the motors comply with the requirements of Annex I	with white white	N N
24.7	Detachable hose-sets for connection of appliances to the water mains comply with IEC 61770	watte watte wat	N
	They are supplied with the appliance	the fit off	N.



Appliances intended to be permanently connected to the water mains not connected by a detachable hose-set	white white white white	
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	et white white white	SIL N
One or more of the following conditions are to be me	et: L L L	N
- the capacitors are of class P2 according to IEC 60252-1	white white white white	N
- the capacitors are housed within a metallic or ceramic enclosure	ALTER WALT WALT WALT	so N
- the distance of separation of the outer surface to adjacent non-metallic parts exceeds 50 mm	set white white white y	N N
- adjacent non-metallic parts within 50 mm withstand the needle-flame test of Annex E	Muter whiter whiter wh	N N
- adjacent non-metallic parts within 50 mm classified as at least V-1 according to IEC 60695- 11-10	INLIEK WALTER WALTER WALTE	SULTER
Interlock switches that prevent access to live parts during user maintenance shall (IEC 60335-2-65)		UNLON .
 disconnect all poles, unless the secondary circuit is supplied through an isolating transformer; 	et ret tret with	THE N
 have a contact separation that provides full disconnection in accordance with IEC 61058-1. 	when we we are	N N
SUPPLY CONNECTION AND EXTERNAL FLEXIBLE CORDS		Р
Appliance not intended for permanent connection to fixed wiring, means for connection to the supply:		P
- supply cord fitted with a plug, the current rating and voltage rating of the plug being not less than the corresponding ratings of its associated appliance	where the ret white	N LIFEN AN
- an appliance inlet having at least the same degree of protection against moisture as required for the appliance, or	white white white w	N
- pins for insertion into socket-outlets	White white white white	<i>∿</i> ∕P
Appliance not provided with more than one means of connection to the supply mains	The street marks white	P-
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	Tet whitet whitet whitet	N N
	 to the water mains not connected by a detachable hose-set 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 One or more of the following conditions are to be meter the capacitors are of class P2 according to IEC 60252-1 the capacitors are housed within a metallic or ceramic enclosure the distance of separation of the outer surface to adjacent non-metallic parts exceeds 50 mm adjacent non-metallic parts within 50 mm withstand the needle-flame test of Annex E adjacent non-metallic parts within 50 mm classified as at least V-1 according to IEC 60695-11-10 Interlock switches that prevent access to live parts of (IEC 60335-2-65) disconnect all poles, unless the secondary circuit is supplied through an isolating transformer; have a contact separation that provides full disconnection in accordance with IEC 61058-1. SUPPLY CONNECTION AND EXTERNAL FLEXIBI Appliance not intended for permanent connection to connection to the supply: supply cord fitted with a plug, the current rating and voltage rating of the plug being not less than the corresponding ratings of its associated appliance. an appliance inlet having at least the same degree of protection against moisture as required for the appliance, or pins for insertion into socket-outlets Appliance not 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 	to the water mains not connected by a detachable hose-set 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 One or more of the following conditions are to be met: - the capacitors are of class P2 according to IEC 60252-1 - the capacitors are housed within a metallic or ceramic enclosure - the distance of separation of the outer surface to adjacent non-metallic parts exceeds 50 mm - adjacent non-metallic parts exceeds 50 mm - adjacent non-metallic parts within 50 mm classified as at least V-1 according to IEC 60695- 11-10 Interlock switches that prevent access to live parts during user maintenance shall (IEC 60335-2-65) - disconnect all poles, unless the secondary circuit is supplied through an isolating transformer; - have a contact separation that provides full disconnection in accordance with IEC 61058-1. SUPPLY CONNECTION AND EXTERNAL FLEXIBLE CORDS Appliance not intended for permanent connection to fixed wiring, means for connection to the supply: - supply cord fitted with a plug, the current rating and voltage rating of the plug being not less than the corresponding ratings of its associated appliance. - an appliance inlet having at least the same degree of protection against moisture as required for the appliance, or - pins for insertion into socket-outlets Appliance not provided with more than one means of connection to the supply may be provided with more than one means of Stationary appliance for multiple supply may be provided with more than one means of connection, provided with more than one

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Clause	Requirement + Test	Result - Remark	Verdict
1	The star with which with a star	w w i	, et
	- a set of terminals allowing the connection of a flexible cord	NITER MOUTEN WAITE MOUT	-onN
LTE. NAL	- a fitted supply cord	et itet itet niter	N N
it stre	- a set of supply leads accommodated in a suitable compartment	with the state of	N SEK N
wintret.	- 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	whitek whitek whitek white	N Junit Junit
NL. WI	- 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	et white white white	
NALTER D	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	MILL WALLEY WALLEY WALLEY	N
25.4	Cable and conduit entries, rated current of appliance not exceeding 16 A, dimension according to table 10 (mm)	t ret ret with with	
	Introduction of conduit or cable does not reduce clearances or creepage distances below values specified in clause 29	white white with the	N ^N
25.5	Method for assembling the supply cord to the appliance	e:	N (
	- type X attachment	LI LIE MUTE MALIE	N
	- type Y attachment		N
	- type Z attachment is allowed for appliances not exceeding 3 kg. (IEC 60335-2-65)	with the world a	N S
	Type X attachment, other than those with a specially prepared cord, not used for flat twin tinsel cords	whitet whitet whitet wh	N
	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	TEK MITEK MITEK MATEK	WN MITEK
25.6	Plugs fitted with only one flexible cord	the state	N
25.7	Supply cords, other than for class III appliances, being one of the following types:		N
	- rubber sheathed (at least 60245 IEC 53)	s at at a	← N
	- polychloroprene sheathed (at least 60245 IEC 57)	MALTE WALL WALL WAL	N
INLIEK W	- 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		Net

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Clause	Requirement Test	Result - Remark	Variation
Clause	Requirement + Test	Result - Remark	Verdict
NALIE W	 light polyvinyl chloride sheathed cord (60227 IEC 52), for appliances not exceeding 3 kg 	white white white white	SUPN STA
*	ordinary polyvinyl chloride sheathed cord (60227 IEC 53), for other appliances	white where where .	N N
whit	 heat resistant polyvinyl chloride sheathed. Not used than specially prepared cords 	d for type X attachment other	N
WALT V	 heat-resistant light polyvinyl chloride sheathed cord (60227 IEC 56), for appliances not exceeding 3 kg 	white white white white	N N
n wi	heat-resistant polyvinyl chloride sheathed cord (60227 IEC 57), for other appliances	NITE MALL WALL WALL	S N
NNN.	Supply cords for class III appliances adequately insulated	ret white white white	N N N
WALTE	Test with 500 V for 2 min for supply cords of class III appliances that contain live parts	watter waiter waiter wa	N N
25.8	Nominal cross-sectional area of supply cords not less than table 11; rated current (A); cross-sectional area (mm ²):	united whited whited white	e N e
25.9	Supply cords not in contact with sharp points or edges	LIET WILLEY WALTER WALTER	N N
25.10	Supply cord of class I appliances have a green/yellow core for earthing	et whitet whitet whitet	N JENN
MALTER	In multi-phase appliances, the colour of the neutral conductor of the supply cord is blue.	The street mines was	Set N
25.11	Conductors of supply cords not consolidated by soldering where they are subject to contact pressure, unless	when we white white	K NUTEK
at a	the contact pressure is provided by spring terminals	the second second	N
25.12	Insulation of the supply cord not damaged when moulding the cord to part of the enclosure	and the second	s N <
25.13	Inlet openings so constructed as to prevent damage to the supply cord	White white white ou	N.S.
WALTER W	If it is not evident that the supply cord can be introduced without risk of damage, a non- detachable lining or bushing complying with 29.3 for supplementary insulation provided	whitek whitek whitek white	N N
11× 54	If unsheathed supply cord, a similar additional bushing or lining is required, unless the appliance is	it with with white	N
- an	class 0, or	it wath wat wat v	N N
TEX	a class III appliance not containing live parts	at at at	N S
25.14	Supply cords moved while in operation adequately protected against excessive flexing	water water water water	N
In the	Flexing test, as described:	ITEL SITE OUT AND	J.N.N

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Clause	Requirement + Test	Result - Remark	Verdict
INLIEK N	- applied force (N)	THE STEE MITCH SU	N
ITEK WAL	- number of flexings	Tex maret united water	et N
+ ,4	The test does not result in:	a at at at	N
with	- short-circuit between the conductors, such that the current exceeds a value of twice the rated current	which which which	N
white w	- breakage of more than 10% of the strands of any conductor	watte watte water of	N
LITE M	- separation of the conductor from its terminal	TEX STEEL MITER NA	N
A A	- loosening of any cord guard	1. 24 20	N
white	- damage to the cord or the cord guard	ret lifet miter white	N N N
- NITEK	- broken strands piercing the insulation and becoming accessible	and the tret whet	IN IN
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	united waited waited w	N N
	The cord cannot be pushed into the appliance to such an extent that the cord or internal parts of the appliance can be damaged	at the state of the	N
	Pull and torque test of supply cord:	Mr. M. M.	N
WALTE	- fixed appliances: pull 100 N; torque (not on automatic cord reel) (Nm):	white white white	Intra No
NLIEK NI	- other appliances: values shown in table 12: mass (kg); pull (N); torque (not on automatic cord reel) (Nm)	at and and white wh	STEK N
TE WALT	Cord not damaged and max. 2 mm displacement of the cord	where the second superior	N N
25.16	Cord anchorages for type X attachments constructed	and located so that:	N
24.	- replacement of the cord is easily possible	white white white	N
NNLTER J	- it is clear how the relief from strain and the prevention of twisting are obtained	INTER WALTER WALTER W	NIE NIE
TEX	- they are suitable for different types of supply cord	at at at	N-
ent and	- cord cannot touch the clamping screws of cord anchorage if these screws are accessible, unless	NET WALL WALL WALL	N
WAL	they are separated from accessible metal parts by supplementary insulation	White white white	N N N
WALTE	- the cord is not clamped by a metal screw which bears directly on the cord	Whitek whitek whitek	
INLITEK N	- at least one part of the cord anchorage securely fixed to the appliance, unless	stret milet milet w	LIEN NEW

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Clause	Requirement + Test	Result - Remark	Verdic
			N
n n	it is part of a specially prepared cord	water water water wa	
LIEK WAL	- screws which have to be operated when replacing the cord do not fix any other component, unless	ret itek itek mit	A NUTE V
* JIE	the appliance becomes inoperative or incomplete or the parts cannot be removed without a tool	at the left that	TEK N
-SNI -SEK	- if labyrinths can be bypassed the test of 25.15 is nevertheless withstood	white white white	N N
WAL Y	- for class 0, 0I and I appliances they are of insulating material or are provided with an insulating lining, unless	white white white w	
11 . 11	failure of the insulation of the cord does not make accessible metal parts live	Not white white white	N
wh.	- for class II appliances they are of insulating material, or	antit water water	S N S
white	if of metal, they are insulated from accessible metal parts by supplementary insulation	WALTER WALTER WALTE	Ner Ner
NALTER N	After the test of 25.15, under the conditions specified, the conductors have not moved by more than 1 mm in the terminals	united waited waited on	
25.17	Adequate cord anchorages for type Y and Z attachment, test with the cord supplied with the appliance	Tex white white white	JN N
25.18	Cord anchorages only accessible with the aid of a tool, or	white white white	N ^N
white .	Constructed so that the cord can only be fitted with the aid of a tool	white white white	N N
25.19	Type X attachment, glands not used as cord anchorage in portable appliances	INTER WALTER WAY	STE NINN
TEK WALT	Tying the cord into a knot or tying the cord with string not used	TEX WOLLE	S NITEN S
25.20	The conductors of the supply cord for type Y and Z attachment insulated from accessible metal parts	at what while white	UN TEK N
25.21	Space for supply cord for type X attachment or for co constructed:	onnection of fixed wiring	N
N N	- to permit checking of conductors with respect to correct positioning and connection before fitting any cover	white white with w	EK WITEK
et nur	- so there is no risk of damage to the conductors or their insulation when fitting the cover	at at the set	N
WALTER	- 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	Whitek whitek whitek	unit at unit
11th	2 N test to the conductor for portable appliances; no	it it it.	N N

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IEC 60335-2-65				
Clause	Requirement + Test	Result - Remark	Verdict	
INLIEK N	contact with accessible metal parts	THE THE NUMBER	INLIEK INNITER	
25.22	Appliance inlets:	my my m	Р	
IT WAL	- live parts not accessible during insertion or removal	LIER WILLER WALTER W	P .	
NNLTE	Requirement not applicable to appliance inlets complying with IEC 60320-1	et unlifet whilet while	Stranger Stranger	
Jet-	- connector can be inserted without difficulty	t at at	E P	
me	- the appliance is not supported by the connector	white white white	11 1P	
NLTEX WA	- not for cold conditions if temp. rise of external metal parts exceeds 75 K during clause 11, unless	whet millet antifet a	NITE SUL	
at it	the supply cord is unlikely to touch such metal parts		At AN	
25.23	Interconnection cords comply with the requirements for the supply cord, except that:	MALTE WALT WA	N S	
WALT	- the cross-sectional area of the conductors is determined on the basis of the maximum current during clause 11	watter watter watte	JUNE NE	
n na	- the thickness of the insulation may be reduced	White white white	Mr MN	
let :	If necessary, electric strength test of 16.3	L A A	NN-	
25.24	Interconnection cords not detachable without the aid of a tool if compliance with this standard is impaired when they are disconnected	the works which we	N	
25.25	Dimensions of pins that are inserted into socket- outlets compatible with the dimensions of the relevant socket-outlet.	WAY WAY WATER WALTER	MALTER MALT	
INITEK W	Dimensions of pins and engagement face in accordance with the dimensions of the relevant plug in IEC/TR 60083	ALL ALL WALLEY	MUTER WALTER	
26	TERMINALS FOR EXTERNAL CONDUCTORS		A AP	
26.1	Appliances provided with terminals or equally effective devices for connection of external conductors	with some with	P	
LIEK	Terminals only accessible after removal of a non- detachable cover, except	when we we	Р	
2N 1	for class III appliances that do not contain live parts	white white white	30 - 2 N	
ILITER WIN	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	NITER WALTER WALTER W	NITER MIL	
26.2	Appliances with type X attachment and appliances for the connection of cables to fixed wiring provided with terminals in which connections are made by means of screws, nuts or similar devices, unless	WALL WALLEY WALTE	N N	
THE	the connections are soldered	at the state	N	

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Clause	Requirement + Test	Result - Remark	Verdic
IN IN	Screws and nuts not used to fix any other component, except	WILLER WALLER WALTE WA	SUL N
ister whi x set	internal conductors, if so arranged that they are unlikely to be displaced when fitting the supply conductors	Tet whitet whitet white	
WAL	If soldered connections used, the conductor so positioned or fixed that reliance is not placed on soldering alone, unless	et white white white	
	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	while while while wh	Tek suntifik
26.3	Terminals for type X attachment and for connection of cables of fixed wiring so constructed that the conductor is clamped between metal surfaces with sufficient contact pressure but without damaging the conductor	vunitet vunitet vunitet	ant at an
NALTE N	Terminals fixed so that when the clamping means is	tightened or loosened:	N N
*	- the terminal does not become loose	Nr. W. W. A.	N
LTL WAY	- internal wiring is not subjected to stress	ster street intre- whi	N ^N
et mire	- neither clearances nor creepage distances are reduced below the values in clause 29	at the the state	N JEL N
MALTER	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)	wattet wattet wattet	unit at unit
NITER M	No deep or sharp indentations of the conductors	THE THE N	S ^E 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	A WAR AND THE WALL	N
WITEK	so constructed or placed that conductors prevented from slipping out when clamping screws or nuts are tightened	whit whit white	
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	whe whe we v	SEX MUSE
E NALT	Stranded conductor test, 8 mm insulation removed	et jet sifet allet alle	N STE N
- JEK	No contact between live parts and accessible metal parts and,	We will sur	N
NI TEK	for class II constructions, between live parts and metal parts separated from accessible metal parts by supplementary insulation only	white white white a	N

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Clause	Requirement + Test	Result - Remark	Verdic
1	the state state out on the south south	A A A	
26.6	Terminals for type X attachment and for connection of cables of fixed wiring suitable for connection of conductors with cross-sectional area according to table 13; rated current (A); nominal cross-sectional area (mm ²)	STATES SUPERED SUPERED SUP	
	If a specially prepared cord is used, terminals need only be suitable for that cord	et writet writer writ	and an on
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	water watter watter	JUNITY - N.T.
26.8	Terminals for the connection of fixed wiring, including the earthing terminal, located close to each other	NUTER WALTER WALTER V	N N
26.9	Terminals of the pillar type constructed and located as specified	TEL MALTE WALT WAS	N S
26.10	Terminals with screw clamping and screwless terminals not used for flat twin tinsel cords, unless	WALTER WALTER WALTE	white Phil
NNLTERN	conductors ends fitted with means suitable for screw terminals	NUTER UNITER WALTER	white white
At 1	Pull test of 5 N to the connection	i i it	P P
26.11	For type Y and Z attachment, soldered, welded, crimped or similar connections may be used	the write write w	N
white is text	For Class II appliances, the conductor so positioned or fixed that reliance is not placed on soldering, welding or crimping alone	WALTER WALTER WAL	N
NUTEX W	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	white white white	North Street
27	PROVISION FOR EARTHING	AL M. M.	Р
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	A WALTER WALTER WALT	N
NUL V	Earthing terminals and earthing contacts not connected to the neutral terminal	White white white	SUN SUN
ILTE WAY	Class 0, II and III appliances have no provision for protective earthing	ALTER WALTER WALTER W	NITE MON
ex white	Class II appliances and class III appliances can incorporate an earth for functional purposes	Class II	IT P
. At	Safety extra-low voltage circuits not earthed, unless	t at a	F N
m	protective extra-low voltage circuits	WALTE WALTE WALTE	N N
27.2	Clamping means of earthing terminals adequately secured against accidental loosening	at let let	Nel

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01			
Clause	Requirement + Test	Result - Remark	Verdic
INLIER N	Terminals for the connection of external	The suffer miner	JAN JAN
THE ST	equipotential bonding conductors allow connection of conductors of 2.5 to 6 mm ² , and	when when we were	JEK JIEK
	- do not provide earthing continuity between different parts of the appliance, and	in which which we	N
when	- conductors cannot be loosened without the aid of a tool	et watter watter wat	AL NU
WALTE Y	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	watter watter waiter	white N
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	ret white white white	
MALT	For appliances with supply cords, current-carrying conductors become taut before earthing conductor, if the cord slips out of the cord anchorage	watter watter wait	MAL NA
nn n tret ni	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	intre write write	
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	the work when we	Et un tet un
MALTER	Parts providing earthing continuity, other than parts of a metal frame or enclosure, have adequate resistance to corrosion	MITER MATER WALTER	white white
NUTEX WI	If of steel, these parts provided with an electroplated coating with a thickness at least 5 µm	TEN NUTER	INTER NET
Tet whit	Adequate protection against rusting of parts of coated or uncoated steel, only intended to provide or transmit contact pressure	and the second second	LIFE N LIFE N
whitek	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	A WALTER WALTER WALT	STATES OF N
NNITE V	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	WALTER WALTER WALTER	N N
27.5	Low resistance of connection between earthing terminal and earthed metal parts	HIER WHITE WALTE N	n' un N
wont feet	This requirement does not apply to connections providing earthing continuity in the protective extra- low voltage circuit, provided the clearances of basic insulation are based on the rated voltage of the appliance	The summer summer summer	San
INLITEK N	Requirements not applicable to class II appliances and class III appliances that incorporate an earth	TEK STEK STEK	Net Met

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			T. N
Clause	Requirement + Test	Result - Remark	Verdic
NLIER N	for functional purposes	Alt 18 11th Alt	- re-
<u>, , , , , , , , , , , , , , , , , , , </u>	Resistance not exceeding 0,1 Ω at the specified low-resistance test (Ω)	with with sold sold sold	N
27.6	The printed conductors of printed circuit boards not used to provide earthing continuity in hand-held appliances.	of white which will a	N
WALTER .	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	whitet whitet whitet whit	L N
nti vin	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	NUTER MALTER WALT WALL	N
28 🔊	SCREWS AND CONNECTIONS	TET MALLE WALL WALL V	Р
28.1	Fixings, electrical connections and connections providing earthing continuity withstand mechanical stresses	watter watter watter wa	Р
WALTER W	Screws not of soft metal liable to creep, such as zinc or aluminium	Intret omiret univer omir	N ^P
in the	Diameter of screws of insulating material min. 3 mm	at at the set	N
EX NALTE	Screws of insulating material not used for any electrical connections or connections providing earthing continuity	et set sinet maret	
WALTER	Screws used for electrical connections or connections providing earthing continuity screwed into metal	where white white whi	Sak N Martin
NITEK W	Screws not of insulating material if their replacement by a metal screw can impair supplementary or reinforced insulation	Net WITH WALTER WALTER	- N.S
FET WINLI	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	A WALFER WALFER WALFER	
NNLTEK	For screws and nuts; torque-test as specified in table 14:	(see appended table)	Pre
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	NITEX WALTER WALTER WALTER	N
WAL	there is resiliency in the metallic parts to compensate for shrinkage or distortion of the insulating material	while while while w	N N
with	This requirement does not apply to electrical connec for which:	tions in circuits of appliances	N
int al	30.2.2 is applicable and that carry a current	JER STER MILE WITH	J.N.N

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Clause	Dequirement Test	Deput Demort	1/cmlint
Clause	Requirement + Test	Result - Remark	Verdict
IN IT IN	not exceeding 0,5 A	THE THE MUTER MUTER	NULL
ifek mi	30.2.3 is applicable and that carry a current not exceeding 0,2 A	at ret jet jet	N
28.3	Space-threaded (sheet metal) screws only used for electrical connections if they clamp the parts together	et stret with white you	N
WALTER	Thread-cutting (self-tapping) screws and thread rolling screws only used for electrical connections if they generate a full form standard machine screw thread	wolliet whilet whilet while	
ner wa	Thread-cutting (self-tapping) screws not used if they are likely to be operated by the user or installer	ALTER WALTER WALTE WALT	SUL N
ie whit	Thread-cutting, thread rolling and space threaded scr connections providing earthing continuity provided it is connection:		
with	- in normal use,	MUTER MATE WALL WAL	N
.et	- during user maintenance,	i st at de	- N.
N L N	- when replacing a supply cord having a type X attachment, or	INTER ANTER MALL MALL	JUN A
LTE NN	- during installation	THE LIFE MUTER MUTER	N ^N
et sufe	At least two screws being used for each connection providing earthing continuity, unless	at all all all a	TEK N
TEK	the screw forms a thread having a length of at least half the diameter of the screw	which which will be	N
28.4	Screws and nuts that make mechanical connection secured against loosening if they also make electrical connections or connections providing earthing continuity	white white white white	SN SUNLIEK
TEK WALT	This requirement does not apply to screws in the earthing circuit if at least two screws are used, or	the start whitek	NUTEN S
t dit	if an alternative earthing circuit is provided	the state	N
whitek y	Rivets for electrical connections or connections providing earthing continuity secured against loosening if the connections are subjected to torsion	white white white white	N N
29	CLEARANCES, CREEPAGE DISTANCES AND SOL	ID INSULATION	P-
NITE WANT	Clearances, creepage distances and solid insulation withstand electrical stress	with wouth wouth work.	Р
	For coatings used on printed circuits boards to protect the microenvironment (Type 1) or to provide basic insulation (Type 2), Annex J applies:	iet watter watter watter w	ST N _o r
whit	The microenvironment is pollution degree 1 under type 1 protection	WALLS WALL WALL WALL	N
J. 1	For type 2 protection, the spacing between the	at the set of	Ň

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Clause	Requirement + Test	Result - Remark	Verdic
			<u>+ _</u>
Inter W	conductors before the protection is applied is not less than the values specified in Table 1 of IEC 60664-3	WAITER WAITE WAITE WAITE	WAL
K SUL	These values apply to functional, basic, supplementary and reinforced insulation:	ater water water water	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	whitek white white w	P Pur
NUTEK IN	for basic insulation and functional insulation they comply with the impulse voltage test of clause 14	at the set of	N
iet would	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	ret white white	P
	For appliances intended for use at altitudes exceeding 2 000 m, the clearances in Table 16 is increased according to the relevant multiplier values in Table A.2 of IEC 60664-1	white white white white	E MILLE
Alt i	Impulse voltage test is not applicable:	at at at at	P
it it	- when the microenvironment is pollution degree 3, or	the write write write	Р
white	- for basic insulation of class 0 and class 01 appliances, or	er waite waite water w	NN
WALTE	- to appliances intended for use at altitudes exceeding 2 000 m	WALTER WALTER WALTER WAS	N
LITER IN	Appliances are in overvoltage category II	the set state state	P
	A force of 2 N is applied to bare conductors, other than heating elements	inter a sub-	P
M	A force of 30 N is applied to accessible surfaces	and the work .	<u> м</u> Р <
29.1.1	Clearances of basic insulation withstand the overvoltages, taking into account the rated impulse voltage	antiet white white a	P P
NINLIEL V	The values of table 16 or the impulse voltage test of clause 14 are applicable:	MALTER WAITER WAITER WAIT	N.C.
ILTER WAY	Clearance at the terminals of tubular sheathed heating elements may be reduced to 1,0 mm if the microenvironment is pollution degree 1	NITEX WALTER WALTER WALTER	N
E waite	Lacquered conductors of windings considered to be bare conductors	SEX WAITER WAITER WAITER V	VILLEN N
29.1.2	Clearances of supplementary insulation not less than those specified for basic insulation in table 16	(see appended table)	Р
29.1.3	Clearances of reinforced insulation not less than	(see appended table)	P

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Clause	Requirement + Test	Result - Remark	Verdict
INTEX N	those specified for basic insulation in table 16, using the next higher step for rated impulse voltage	White white white white	- JUNITER
yuninel yuninel	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	at white white white w	IN N S
29.1.4	Clearances for functional insulation are the largest v	alues determined from:	_√P [×]
1t	- table 16 based on the rated impulse voltage:	Mr. m. t. A	P
nta wh	- table F.7a in IEC 60664-1, frequency not exceeding 30 kHz	NITER MOLIER MALTE WALL	Sur N
FER WALT	- clause 4 of IEC 60664-4, frequency exceeding 30 kHz	TEX WALTER WALTER WALTER W	N N N
K WALTER	If values of table 16 are largest, the impulse voltage test of clause 14 may be applied instead, unless	INTEX INTEX WATER WAT	er N
.et	the microenvironment is pollution degree 3, or	where the second	P
N/N	the distances can be affected by wear, distortion, movement of the parts or during assembly	intifer while write write	SON.
et re	However, clearances are not specified if the appliance complies with clause 19 with the functional insulation short-circuited	Lifet while while while	NOP SEF
whit	Lacquered conductors of windings considered to be bare conductors	and white white white wi	PN
watt	However, clearances at crossover points are not measured	waiter water watter wat	P
INLIEE M	Clearance between surfaces of PTC heating elements may be reduced to 1mm	NI WALTER WALTER WALTER	N
29.1.5	Appliances having higher working voltages than rate insulation are the largest values determined from:	d voltage, clearances for basic	N.J. P
t st	- table 16 based on the rated impulse voltage:	w w at	P
	- table F.7a in IEC 60664-1, frequency not exceeding 30 kHz	white white white white	N
WALTER V	- clause 4 of IEC 60664-4, frequency exceeding 30 kHz	WALTER WALTER WALTER WALTE	N
STEK WA	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	Tet milet whitet whitet	
WALTER	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	whitek whitek whitek whi	et N VINIT

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Clause	Requirement + Test	Result - Remark	Verdic
,tt	THE STATE STATE MUT WAT SHALL	i d At	1.1.1.
INC W ITEX WNLT	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	NUTER WITTER WATER WATER	N
WALTER V	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	whitek whitek whitek	NIT MAIL
nto vun iet vuntif	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	ALTER WALTER WALTER WALTE	
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)	ount Ex P
JITEN .	Pollution degree 2 applies, unless	at at the	Je Ne
N N	- precautions taken to protect the insulation; pollution degree 1	untit which which we	N N
it where	- insulation subjected to conductive pollution; pollution degree 3	the white white whe	P
WALT	A force of 2 N is applied to bare conductors, other than heating elements	et white white white	un Pun
JIE	A force of 30 N is applied to accessible surfaces	. It let the	S P.S
NITEK W	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	white white white w	N N
29.2.1	Creepage distances of basic insulation not less than specified in table 17	(see appended table)	NUTP V
MALTEX W	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	A WALTER WALTER WALTER	
STEK WA	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	NUTER WALLER WALL	N.
29.2.2	Creepage distances of supplementary insulation at least those specified for basic insulation in table 17, or	(see appended table)	P Int Anti
*	Table 2 of IEC 60664-4, as applicable	me in m	N
29.2.3	Creepage distances of reinforced insulation at least		P

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Clause	Requirement + Test	Result - Remark	Verdic
INLIEK W	double those specified for basic insulation in table 17, or	WILLEY WALLEY WALLEY WA	LICK WALLER
IFR INT	Table 2 of IEC 60664-4, as applicable:	it set set al	N N
29.2.4	Creepage distances of functional insulation not less than specified in table 18	(see appended table)	P
	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	while while while	
nti wa	Creepage distances may be reduced if the appliance complies with clause 19 with the functional insulation short-circuited	MITER WALTER WAITE MAN	t set
29.3	Supplementary and reinforced insulation have adequate thickness, or a sufficient number of layers, to withstand the electrical stresses	anti wat wat	
*	Compliance checked:	me me m	Р
INLIE IN	- by measurement, in accordance with 29.3.1, or	TEX STER STER STER	P.
JEK "N	- by an electric strength test in accordance with 29.3.2, or	in sur sur s	et N
et white	- 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	et watter watter watter	- In Tex
WALTER.	for accessible parts of reinforced insulation consisting of a single layer, by measurement in accordance with 29.3.4, or	WALTER WALTER WALTER	
ntiter w	- 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	inter and the working white	N 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	A would would would would be	
29.3.1	Supplementary insulation have a thickness of at least 1 mm	WALTER WALTER WALTER W	P
LIEN WAY	Reinforced insulation have a thickness of at least 2 mm	NITER WALTER WALTER WAL	NNL ^P
29.3.2	Each layer of material withstand the electric strength test of 16.3 for supplementary insulation	set and white white	- WITTEN
. It	Supplementary insulation consist of at least 2 layers	w v st st	N
with	Reinforced insulation consist of at least 3 layers	NITE MITE WALT	N N
29.3.3	The insulation is subjected to the dry heat test Bb of IEC 60068-2-2, followed by	at all all	N

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Clause	Requirement + Test	Result - Remark	Verdict
. At	The strength with the second		**
in n	the electric strength test of 16.3	aliter white wait wat	- In N
LIEK WAL	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	Tet whitet whitet whitet	N
29.3.4	Thickness of accessible parts of reinforced insulation consisting of a single layer not less than specified in table 19	of senares senares senares a	N SUN
30	RESISTANCE TO HEAT AND FIRE	THE STEEL MUTER MY	Р
30.1	External parts of non-metallic material,	Mr. M. M.	P
NITE MAY	parts supporting live parts, and	TEN TIEN NUTER MATE	N
FER MIT	parts of thermoplastic material providing supplementary or reinforced insulation	at the set set	N
	sufficiently resistant to heat	white white white	Р
MITER	Ball-pressure test according to IEC 60695-10-2	TEX ITEX ALTER I	S P.S
WALTER N	External parts tested 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 30.1)	Р
Et white	Parts supporting live parts tested 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 30.1)	DE P
WALTER .	Parts of thermoplastic material providing supplementary or reinforced insulation tested at 25 °C plus the maximum temperature rise determined during clause 19, if higher; temperature (°C):	watter watter watter wa	N N
30.2	Parts of non-metallic material resistant to ignition and spread of fire	at white white	Р
TE NALT	This requirement does not apply to:	The second	P ,
* white	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	A whitek whitek whitek w	P
WALT V	decorative trims, knobs and other parts unlikely to be ignited or to propagate flames that originate inside the appliance	WALTER WALTER WALTER WAL	P
at when	Compliance checked by the test of 30.2.1, and in addition:	NUTE WALL WALL WALL	P
WAL	- for attended appliances, 30.2.2 applies	It street white white	N N N
- 14	- for unattended appliances, 30.2.3 applies	which we want	P
with	For appliances for remote operation, 30.2.3 applies	NUTER INLIER WALTE W	N
TEX	For base material of printed circuit boards, 30.2.4 applies	the state of	Pot

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IEC 60335-2-65			
Clause	Requirement + Test	Result - Remark	Verdict
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 30.2)	P
inter while	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	Tet white white white.	N
when	the material is classified at least HB40 according to IEC 60695-11-10	water water water w	N
WALTER V	Parts for which the glow-wire test cannot be carried out need to meet the requirements in ISO 9772 for material classified HBF	watter watter watter wat	NNN N
30.2.2	Appliances operated while attended. Not applicable. (IEC 60335-2-65)	ALTER WALT WALT WALT	N
30.2.3	Appliances operated while unattended, tested as specified in 30.2.3.1 and 30.2.3.2	ret watter watter watter	P _s v
WALTER	The tests are not applicable to conditions as specified	MALIER MALIER MALIER MA	N.C
30.2.3.1	Parts of non-metallic material supporting connections carrying a current exceeding 0,2 A during normal operation, and	Intret united untret unit	P
LIER WAL	parts of non-metallic material, other than small parts, within a distance of 3 mm,	LIET MALTER WALLET WALTER	N ^{SP}
EK WALTEN	subjected to the glow-wire test of IEC 60695-2-11 with a test severity of 850 °C	(see appended table 30.2)	DIFF P
MUTER	Glow-wire applied to an interposed shielding material, if relevant	- ret stet stret wi	Set P
MITEX W	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	whe whe white white	N
30.2.3.2	Parts of non-metallic material supporting connections, and	when the watter	N ^L P N
WALTER	parts of non-metallic material within a distance of 3mm,	A MITER MAITER MAILER M	P.C
NALTER W	subjected to the glow-wire test of IEC 60695-2-11 with appropriate severity level:	(see appended table 30.2)	P.F
LITEK IN	- 750 °C, for connections carrying a current exceeding 0,2 A during normal operation	at not not not not	PL
	- 650 °C, for other connections	in me me	N
E. WALTE	Glow-wire applied to an interposed shielding material, if relevant	Set whilet whilet while w	NUT PUT
WALTER	However, the glow-wire test of 750 °C or 650 °C as a on parts of material fulfilling both or either of the follo		Set N I
INLIFEK NI	- a glow-wire ignition temperature according to IEC 60695-2-13 of at least:	THE THE THE WIT	y Net

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J.F.	IEC 60335-2-65		<u>ل م</u>
Clause	Requirement + Test	Result - Remark	Verdic
	after after white white white white white	the state of the	
INT W	• 775 °C, for connections carrying a current exceeding 0,2 A during normal operation	white white white white	SULN S
TE NAT	675 °C, for other connections	TEX WER NUER MUTER	N V
t Jil	- a glow-wire flammability index according to IEC 60695-2-12 of at least:	at the set set	N N
Nº TEK	- 750 °C, for connections carrying a current exceeding 0,2 A during normal operation	when we we are	N
M	- 650 °C, for other connections	INTERNALIE WALL WALL	≪N
. Att	The glow-wire test is also not carried out on small pa	arts. These parts are to:	N
EX NAL	- comprise material having a glow-wire ignition temperature of at least 775 °C or 675 °C as appropriate, or	ALL WALL WALL WALL	N N
- JIEK	- comprise material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or	at the stat of	N N
14	- comply with the needle-flame test of Annex E, or	mut me me m	N
WALTER	- comprise material classified as V-0 or V-1 according to IEC 60695-11-10	white south wouth wouth	M
	The consequential needle-flame test of Annex E app encroach within the vertical cylinder placed above the and on top of the non-metallic parts supporting curre parts of non-metallic material within a distance of 3 n parts are those:	e centre of the connection zone nt-carrying connections, and	INIT N
WALTER	- 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	whitek whitek whitek whit	er N Mali
NUTEK W	- parts that comprised material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or	nes state whitek white	N
re wint	- small parts, that comprised material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or	where we have a sub-	
wh.	- small parts for which the needle-flame test of Annex E was applied, or	white white white	N
MALI	- small parts for which a material classification of V- 0 or V-1 was applied	WALTER WALTER WALTE WALT	N
LIEK WAY	However, the consequential needle-flame test is not parts, including small parts, within the cylinder that a		N N
EX WALT	- parts having a glow-wire ignition temperature of at least 775 °C or 675 °C as appropriate, or	tek strek milek milek av	LIC'N N
ex whit		and the second second second	N N

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	IEC 60335-2-65			
Clause	Requirement + Test	Result - Remark	Verdict	
INTEX N	60695-11-10	THE THE NUCL I	LIEK NALTEK	
30.2.4	Base material of printed circuit boards subjected to the needle-flame test of Annex E	(see appended table 30.2/30.2.4)	et P	
	Test not applicable to conditions as specified:	the me me me	N	
31	RESISTANCE TO RUSTING	at let the set	P	
	Relevant ferrous parts adequately protected against rusting	when when when	P	
m	Tests specified in part 2 when necessary	NUTE WALL WALL	10 - N	
32	RADIATION, TOXICITY AND SIMILAR HAZARDS	s at at .	AL P	
32.101	The ozone concentration produced by air-cleaning appliances shall not be excessive.	3.0x 10 ⁻⁶	P	
32.102	 Compliance is checked by the following test, which is carried out in a room without openings having dimensions of 2,5 m × 3,5 m × 3,0 m, the walls being covered with polyethylene sheet. If the instructions state that the appliance is to be fixed in a room having a volume exceeding 30 m3, the dimensions of the test room are increased accordingly. The appliance is positioned in accordance with the instructions. Appliances used on a table are placed in the centre of the room approximately 750 mm above the floor. The room is maintained at approximately 25 °C and 50 % relative humidity. The appliance is supplied at rated voltage for 24 h, removable filters being removed if this is more unfavourable. The ozone sampling tube is to be located in the air stream 50 mm from the air outlet of the appliance. The background ozone concentration measured prior to the test is subtracted from the maximum concentration measured during the test. The percentage of ozone in the room shall not exceed 5 × 10–6. 	and and the work would be and the work of		
	 amount. Compliance is checked by the followings test. The appliance is supplied at rated voltage and operated under normal operation. The irradiance is measured at a distance of 300 mm, the measuring instrument being positioned so that the highest radiation is recorded. If the appliance has an inspection window, the measuring distance is reduced to 0 mm. The measuring instrument used shall measure the mean irradiance over a circular area having a diameter not exceeding 20 mm. The response of the instrument shall be proportional to the cosine of the angle between incident radiation and the normal 	Whitek whitek whitek		

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0	Clause Dequirement Test		
Clause	Requirement + Test	Result - Remark	Verdic
INCON N	to the circular area. The spectral irradiance shall be measured at intervals not exceeding 2,5 nm in an appropriate spectro-radiometric system. The spectro-radiometer shall have a bandwidth not exceeding 2,5 nm.	MALEY WALLEY WALLEY	UNITER VALLEY
	The irradiance is measured when the radiation from the UV-C emitter has stabilized.	ex while while while	WIN JET WIN
	Appliances shall have a total irradiance not exceeding 0,003 W/m2, for wavelengths between	wattet waitet wattet	WALTER WALT
	200 nm and 280 nm. The spectral irradiance shall not exceed 10–5 Wm–2nm–1.	uset ouset onited as	NITER WALTER
A	ANNEX A (INFORMATIVE) ROUTINE TESTS	at at a the	TEX STEN
+ JEt	Description of routine tests to be carried out by the manufacturer	son she w	F N
BW	ANNEX B (NORMATIVE) APPLIANCES POWERED BY RECHARGEABLE BA RECHARGED IN THE APPLIANCE	TTERIES THAT ARE	N N
LIEK WA	The following modifications to this standard are applicable for appliances powered by batteries that are recharged in the appliance	Lifet wiret whitet	STATE N
* 1	Three forms of construction covered:		AL AN
WALTER	a) Appliance supplied directly from the supply mains or a renewable energy source, the battery charging circuitry and other supply unit circuitry incorporated within the appliance	A WALTER WALTER WAL	Not Spring
NETEX W	b) The part of the appliance incorporating the battery is supplied from the supply mains or a renewable energy source, via a detachable supply unit. The battery charging circuitry is incorporated within the part of the appliance containing the battery	ALL ALL ALL AND THE WAY	
WALTER V	c) The part of the appliance incorporating the battery is supplied from the supply mains or a renewable energy source, via a detachable supply unit. The battery charging circuitry is incorporated within the detachable supply unit	A WALTER WALTER WALTER	WALTE VINLE
3.1.9	Appliance operated under the following conditions:	Se st it	N-
NN NI	- the appliance, supplied by its fully charged battery, operated as specified in relevant part 2	NUTER WALTER WALTER W	N N
WALT	- the battery is charged, the battery being initially discharged to such an extent that the appliance cannot operate	NALTER WAITER WAT	N
WILLEX N	-if possible, the appliance is supplied from the supply mains through its battery charger, the battery being initially discharged to such an extent that the appliance cannot operate. The appliance is	WALL WALL WALL	MALEY MALEY

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Clause	Requirement + Test	Result - Remark	Verdic
Clause	Requirement + Test	Result - Remark	verdic
INLIER N	operated as specified in relevant part 2	THE UTER NUMBER	MITTE
Tet whi	- 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	Tet whitet whitet whitet	N
3.6.2	Part to be removed in order to discard the battery is not considered to be detachable	et white white white wh	Ň
5.B.101	Appliances supplied from the supply mains tested as specified for motor-operated appliances	white white white white	N
7.1 ×	Battery compartment for batteries intended to be replaced by the user, marked with battery voltage (V) and polarity of the terminals	NUTER WALTER WALTER WALTER	N
WALT	The positive terminal indicated by symbol IEC 60417-5005 and the negative terminal by symbol IEC 60417-5006	and the would would be	LL N
whitek w	Appliances intending to be supplied from a detachable supply unit marked with symbol IEC 60417-6181 and its type reference along with symbol ISO 7000-0790 (2004-01), or	white white white white	N
LIEK IN	use only with <model designation=""> supply unit</model>	at at and and	N-
7.6	Additional symbols	the man with the	Ν
7.12	The instructions give information regarding charging	at white white white wh	N
WALTER	The instructions for appliances incorporating batteries intended to be replaced by the user includes required information	whitek whitek whitek white	N S
NUTE W	Details about how to remove batteries containing materials hazardous to the environment given	RE WALTE WALTE	N
TER WALT	For appliances intending to be supplied from a detac purposes of recharging the battery, the type reference is stated along with the following:		N N
WAL	WARNING: For the purposes of recharging the battery, only use the detachable supply unit provided with this appliance	WALTER WALTER WALTER WA	N
NA U	If the symbol for detachable supply unit is used, its meaning is explained	white white whe whe	NN A
7.15 🕠	Markings placed on the part of the appliance connected to the supply mains	MITER WALTE WALT WALT	N N
EL WALTE	The type reference of the detachable supply unit is placed in close proximity to the symbol	let wifet whilet while w	LICN 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	white white white white	SK N MAL
NY N	If the appliance can be operated without batteries,	THE LIFE ALL MARKED	. NN

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Clause	Requirement + Test	Result - Remark	Verdict
	the star still will share with an		
nut mu	double or reinforced insulation required	Inter Mile Wall Mart	NI
11.7	The battery is charged for the period stated in the instructions or 24 h	ret ret stat stat	N
11.8	Temperature rise of the battery surface does not exceed the limit in the battery manufacturer's specification; measured (K); limit (K):	of street street sources and	
MITEK	If no limit specified, the temperature rise does not exceed 20 K; measured (K):	Tet the street with	N
19.1	Appliances subjected to tests of 19.B.101, 19.B.102 and 19.B.103	when when when any	N
19.10	Not applicable	ALTER WALTE WALT WAT	<i>s</i> // N
19.B.101	Appliances supplied at rated voltage for 168 h, the battery being continually charged	tet writet aniret aniret a	LICEN 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,	watter watter watter wat	EK 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	intret which which which	NON NUMBER
19.13	The battery does not rupture or ignite	i i i it	-N
21.B.101	Appliances having pins for insertion into socket- outlets have adequate mechanical strength	MULT WILL WALL WALL	N
white a	Part of the appliance incorporating the pins subjected 2, of IEC 60068-2-31, the number of falls being:	d to the free fall test, procedure	N
INLIER WIN	- 100, if the mass of the part does not exceed 250 g (g)	at an and a superior water	N.N.
At A	- 50, if the mass of the part exceeds 250 g:	at the	N
L with	After the test, the requirements of 8.1, 15.1.1, 16.3 and clause 29 are met	a mu ma ma	N
22.3	Appliances having pins for insertion into socket- outlets tested as fully assembled as possible	Mainer waite water water	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	whitek whitek whitek white	Whitek
30.2	For parts of the appliance connected to the supply mains during the charging period, 30.2.3 applies	at any and any	N
- Mr	For other parts, 30.2.2 applies	it while while while w	N
CUNTER	ANNEX C (NORMATIVE) AGEING TEST ON MOTORS	* mitet mitet waitet waitet	er N
JUTEK N	Tests, as described, carried out when doubt with regard to the temperature classification of the	at set set stat	Net

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Clause	Requirement + Test Result - Remark	Verdict
INLIEK W	insulation of a motor winding	WALTER
,t-	Test conditions as specified	Ν
D wet	ANNEX D (NORMATIVE) THERMAL MOTOR PROTECTORS	∩ ²² N ⊰
WALTE	Applicable to appliances having motors that incorporate thermal motor protectors necessary for compliance with the standard	N N
water	Test conditions as specified	Ň
E NITEK NA	ANNEX E (NORMATIVE) NEEDLE-FLAME TEST	Pr
	Needle-flame test carried out in accordance with IEC 60695-11-5, with the following modifications:	P
7 🔊	Severities	Р
MALTER	The duration of application of the test flame is $30 \text{ s} \pm 1 \text{ s}$	P.C
9 1	Test procedure	P
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	N ^{II} P
9.2	The first paragraph does not apply	Р
ER WALTE	If possible, the flame is applied at least 10 mm from a corner	LIE P IN
9.3 💉	The test is carried out on one specimen	کر ا
WITHER AN	If the specimen does not withstand the test, the test may be repeated on two additional specimens, both withstanding the test	P
11	Evaluation of test results	Р
IE INLI	The duration of burning not exceeding 30 s	N N
t stret	However, for printed circuit boards, the duration of burning not exceeding 15 s	P
F W	ANNEX F (NORMATIVE) CAPACITORS	N
WAL V	Capacitors likely to be permanently subjected to the supply voltage, and used for radio interference suppression or voltage dividing, comply with the following clauses of IEC 60384-14, with the following modifications:	NN NJEK
1.5	Terms and definitions	N
1.5.3	Class X capacitors tested according to subclass X2	J.C.N
1.5.4	This subclause is applicable	N
1.6	Marking	N C
<i>A</i> .	Items a) and b) are applicable	N
3.4	Approval testing	N

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Clause	Requirement + Test	Result - Remark	Verdict
.et	the star star with white when all	i i it	it it
3.4.3.2	Table 3 is applicable as described	ALTER UNITED WATER WATER	N 100
4.1	Visual examination and check of dimensions	the state of the s	r N
r. wur	This subclause is applicable	ret until white white	30~ N 3
4.2	Electrical tests	i s it it	, de N
4.2.1	This subclause is applicable	MULTE WALL WALL	m Nu
4.2.5	This subclause is applicable	a at at	L N
4.2.5.2	Only table 11 is applicable	WALTE WALT WALL W	∽ _sN
	Values for test A apply	t at at a	dt N⁺
n w	However, for capacitors in heating appliances the values for test B or C apply	and which which which	N N
4.12	Damp heat, steady state	et aller water wall	NN NN
t st	This subclause is applicable	sur at at	N
WALL	Only insulation resistance and voltage proof are checked	white white white	N
4.13	Impulse voltage	TEX STEX STER ON	N
s.	This subclause is applicable	n m m m	N
4.14	Endurance	TEX STEX STER MITE	N ^O N 3
et stre	Subclauses 4.14.1, 4.14.3, 4.14.4 and 4.14.7 are applicable	* ret ret ret	N
4.14.7	Only insulation resistance and voltage proof are checked	when when when	N
m	No visible damage	white white white w	∑ ⊸N
4.17	Passive flammability test		et Not
h - m	This subclause is applicable	Net white white	~2, N
4.18	Active flammability test	a and the	- Karakara K
-14	This subclause is applicable	when the sheet	N 2
G	ANNEX G (NORMATIVE) SAFETY ISOLATING TRANSFORMERS	MITER MAILER WALTER	
UNLIEK S	The following modifications to this standard are applica transformers:	able for safety isolating	
7	Marking and instructions	me me me	N
7.1 ്റ്റ	Transformers for specific use marked with:		N ^N N
EK INLIE	-name, trademark or identification mark of the manufacturer or responsible vendor	et tet stet stet	N LITER N
	-model or type reference:	MUL MIL MIL	N
17	Overload protection of transformers and associated cir	rcuits	S NS
S.	Fail-safe transformers comply with subclause 15.5 of IEC 61558-1	me me me	N

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THE	IEC 60335-2-65	e at at at	JER JI
Clause	Requirement + Test	Result - Remark	Verdict
22	Construction	UTEK NUTEK INTEK NAL	Ň
LIEK WALTE	Subclauses 19.1 and 19.1.2 of IEC 61558-2-6 are applicable	ret ret ret with	N
29	Clearances, creepage distances and solid insulation	U. M. M. M.	N
29.1, 29.2, 29.3	The distances specified in items 2a, 2c and 3 in table 13 of IEC 61558-1 apply	Tet whitet white white	In The New
WALTER N	For insulated winding wires complying with subclause 19.12.3 of IEC 61558-1 there are no requirements for clearances or creepage distances	WALTER WALTER WALTER WA	N C
Intit whit	For windings providing reinforced insulation, the distance specified in item 2c of table 13 of IEC 61558-1 is not assessed	onifet while while while	NN N
Whitek	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	whitek whitek whitek	N N N
H	ANNEX H (NORMATIVE) SWITCHES	me which we will	N
in me	Switches comply with the following clauses of IEC 6	1058-1, as modified below:	- N - N
EK WALTER	The tests of IEC 61058-1 carried out under the conditions occurring in the appliance	ex anet wret wret	UN TEKN
NITEK	Before being tested, switches are operated 20 times without load	the set set set	UTEL N
8	Marking and documentation	which with the same	N
NUTE NO	Switches are not required to be marked		N
LIEK WALTE	However, a switch that can be tested separately from the appliance marked with the manufacturer's name or trade mark and the type reference	Tex white	NUTER
13 🦽	Mechanism	t at at	N
MUT	The tests may be carried out on a separate sample	The NETER NALIER WALLEY	N N
15 📣	Insulation resistance and dielectric strength	and the state	N
15.1	Not applicable	INTER MUTER MALTE MAI	N
15.2	Not applicable		- N-
15.3	Applicable for full disconnection and micro- disconnection	write write write write	N
17 Jun	Endurance	LIEK NUTER INTERNATION	NN NN
+ NNLTEK	Compliance is checked on three separate appliances or switches	e the the wife	LT EX N
iffet	For 17.2.4.4, the number of cycles declared according to 7.1.4 is 10 000, unless	when when we we	N

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Clause	Requirement + Test	Result - Remark	Verdict
	The state of the second		
WHIC N	otherwise specified in 24.1.3 of the relevant part 2 of IEC 60335	MALTER WALTE WALTE WALT	N N
LIE WAL	Switches for operation under no load and which can be operated only by a tool, and	LIEK WALTER WALTER WALTER	n s N
K WALTE	switches operated by hand that are interlocked so that they cannot be operated under load,	et maret untret whitet wh	JECN N
. Et	are not subjected to the tests		L N
WALL S	However, switches without this interlock are subjected to the test of 17.2.4.4 for 100 cycles of operation	white white white white	N.
23.	Subclauses 17.2.2 and 17.2.5.2 not applicable	ALT WAL WAL WIT	S N
L CH	The ambient temperature during the test is that occurring in the appliance during the test of Clause 11 in IEC 60335-1	antifet watter watter watter w	N N
WALL	The temperature rise of the terminals not more than 30 K above the temperature rise measured in clause 11 of IEC 60335-1 (K)	white white white white	N
20	Clearances, creepage distances, solid insulation and assemblies	l coatings of rigid printed board	S ^N N
in wh	Clause 20 is applicable to clearances across full disconnection and micro-disconnection	little white white white	N N
ET WALTE	It is also applicable to creepage distances for functional insulation, across full disconnection and micro-disconnection, as stated in Table 24	et wattet wattet wattet wa	N
Lound	ANNEX I (NORMATIVE) MOTORS HAVING BASIC INSULATION THAT IS IN RATED VOLTAGE OF THE APPLIANCE	IADEQUATE FOR THE	N
it n	The following modifications to this standard are appli insulation that is inadequate for the rated voltage of t		N N
8	Protection against access to live parts	The work of	ſ∕N ∥
8.1	Metal parts of the motor are considered to be bare live parts	t stet sufet mitet and	SEK N
11	Heating the set of the set of the set	m. m. m.	Ν
11.3	The temperature rise of the body of the motor is determined instead of the temperature rise of the windings	watter watter watte	N
11.8	The 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	ret united white white	
16 🦽	Leakage current and electric strength		or N ∖
16.3	Insulation between live parts of the motor and its other metal parts is not subjected to the test	white white whe she	N
19	Abnormal operation	alt off off all	N

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Clause	Requirement + Test	Result - Remark	Verdict		
19.1	The tests of 19.7 to 19.9 are not carried out	street outer minet whit	N		
19.I.101	Appliance operated at rated voltage with each of the	following fault conditions:	N		
Li was	- short circuit of the terminals of the motor, including any capacitor incorporated in the motor circuit	The water water water	N N		
NALIE	- short circuit of each diode of the rectifier	et uter sufer white	IN NIN		
*	- open circuit of the supply to the motor	THE THE SEC.	N		
WALTE V	- open circuit of any parallel resistor, the motor being in operation	watter watter watter was	N		
NITER WAY	Only one fault simulated at a time, the tests carried out consecutively	NITER WALTER WALTER WALTE	SUNT N		
22	Construction	at at at at	N		
22.1.101	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	Montret wontret wontret w			
NNLTEK N	Compliance checked by the tests specified for double and reinforced insulation	stret milet antiet and	E NE		
J EK NAL	ANNEX J (NORMATIVE) COATED PRINTED CIRCUIT BOARDS				
et jet	Testing of protective coatings of printed circuit boards carried out in accordance with IEC 60664-3 with the following modifications:				
5.7	Conditioning of the test specimens	re white white white v	N		
WALTER	When production samples are used, three samples of the printed circuit board are tested	INTER MUTER WITTER WA			
5.7.1	Cold	Store the state	,⊢ N,≁		
we m	The test is carried out at -25 °C	inthe stranger white	2 M N		
5.7.3	Rapid change of temperature		N		
- MIL	Severity 1 is specified	and the super-	1 N 1		
5.9	Additional tests	s at at at	N N		
2111-	This subclause is not applicable	white when whe w	N		
K ster	ANNEX K (NORMATIVE) OVERVOLTAGE CATEGORIES	martek unifek unifek uni	PTE PTE		
LITEK NAL	The information on overvoltage categories is extracted from IEC 60664-1	THE UNIT NUT OUT	- P-		
ex nife	Overvoltage category is a numeral defining a transient overvoltage condition	at let let the	LIE!P		
	Equipment of overvoltage category IV is for use at the origin of the installation	with with with	N		
WAL	Equipment of overvoltage category III is equipment in fixed installations and for cases where the reliability and the availability of the equipment is	white white white wh	N		

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Clause	Requirement + Test	Result - Remark	Verdic
			Veruic
INLIE N	subject to special requirements	TEK ITEK NUTER INU	NILL
ITEK WAL	Equipment of overvoltage category II is energy consuming equipment to be supplied from the fixed installation	Tet whitet whitet whitet	P
WALTER WALTER	If such equipment is subjected to special requirements with regard to reliability and availability, overvoltage category III applies	whitek whitek whitek a	IN THE N
WALTER N	Equipment of overvoltage category I is equipment for connection to circuits in which measures are taken to limit transient overvoltages to an appropriate low level	whitet whitet whitet whi	ST N.S.
L	ANNEX L (INFORMATIVE) GUIDANCE FOR THE MEASUREMENT OF CLEARA DISTANCES	ANCES AND CREEPAGE	P
+ MITEK	Information for the determination of clearances and creepage distances	Tet Tet Stat	L Et P
M	ANNEX M (NORMATIVE) POLLUTION DEGREE	when when we we	P
sh s	The information on pollution degrees is extracted from IEC 60664-1	inter when when when	P
r, m	Pollution	LEEK MILE WALLS WALLS	P ·
Et white	The microenvironment determines the effect of pollution on the insulation, taking into account the macroenvironment	et waiter waiter waiter	n Tek P
WALTER	Means may be provided to reduce pollution at the insulation by effective enclosures or similar	whitek whitek whitek wh	P
INLIEK W	Minimum clearances specified where pollution may be present in the microenvironment	THE MUTER MUTER	Y Par
	Degrees of pollution in the microenvironment		Р
J. WAL	For evaluating creepage distances, the following degration microenvironment are established:	ees of pollution in the	S P S
NNITE VINITE	- pollution degree 1: no pollution or only dry, non- conductive pollution occurs. The pollution has no influence	WALTER WALTER WALTER W	N
WINLIEW WIN	- pollution degree 2: only non-conductive pollution occurs, except that occasionally a temporary conductivity caused by condensation is to be expected	Whitek white whitek white	L MITEL
EX WALT	- pollution degree 3: conductive pollution occurs or dry non-conductive pollution occurs that becomes conductive due to condensation that is to be expected	et whilet whilet whilet	N LTP P
whit	- pollution degree 4: the pollution generates persistent conductivity caused by conductive dust or by rain or snow	white white white wh	N

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Clause	Requirement + Test	Result - Remark	Verdic			
N N	ANNEX N (NORMATIVE) PROOF TRACKING TEST	WALTER WALTER WALTER WALTER	P			
LIE WAL	The proof tracking test is carried out in accordance with IEC 60112 with the following modifications:					
7 50	Test apparatus	at at at at	С ^{ор} Р			
7.3	Test solutions	ie more me me m	Р			
STER	Test solution A is used					
10	Determination of proof tracking index (PTI)					
10.1	Procedure					
	The proof voltage is 100V, 175V, 400V or 600V:	175V	Р			
IER INLT	The test is carried out on five specimens	let set set ster street	У Р			
+ whitek	In case of doubt, additional test with proof voltage reduced by 25V, the number of drops increased to 100	NUTEX INTEX WAITEX WAT	er N Sint			
10.2	Report	The the	- N			
NAL W	The report states if the PTI value was based on a test using 100 drops with a test voltage of (PTI-25) V	white white white white	NN S			
0	ANNEX O (INFORMATIVE) SELECTION AND SEQUENCE OF THE TESTS OF CLAUSE 30					
WAL	Description of tests for determination of resistance to heat and fire	the world would would we	Р			
Pontit	ANNEX P (INFORMATIVE) GUIDANCE FOR THE APPLICATION OF THIS STA USED IN WARM DAMP EQUABLE CLIMATES	ANDARD TO APPLIANCES	N			
I EK AL	Modifications applicable for class 0 and 01 applianc exceeding 150V, intended to be used in countries had climate and that are marked WDaE		SV N			
t watter	Modifications may also be applied to class 1 applian exceeding 150V, intended to be used in countries had climate and that are marked WdaE, if liable to be co excludes the protective earthing conductor	aving a warm damp equable	N SEX JUN			
5.7	The ambient temperature for the tests of clauses 11 and 13 is 40 +3/0 °C	WALTER WAITER WALTER WALTE	N/C			
7.1	The appliance marked with the letters WDaE	t at at at	N			
7.12	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	NET WALFER WALFER WALFER	N N			
WALTER	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	whitek whitek whitek whi	N N			

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Clause	Requirement + Test Result - Remark	Verdic
11.8	The values of Table 3 are reduced by 15 K	N
13.2	The leakage current for class I appliances not exceeding 0,5 mA	N
15.3	The value of t is 37 °C	N
16.2	The leakage current for class I appliances not exceeding 0,5 mA (mA):	N.C
19.13	The leakage current test of 16.2 is applied in addition to the electric strength test of 16.3	STEEL N. STE
Q. CK	ANNEX Q (INFORMATIVE) SEQUENCE OF TESTS FOR THE EVALUATION OF ELECTRONIC CIRCUITS	F PK
1	Description of tests for appliances incorporating electronic circuits	Р
R	ANNEX R (NORMATIVE) SOFTWARE EVALUATION	S N N SI
WALTER	Programmable electronic circuits requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2 validated in accordance with the requirements of this annex	N
R.1	Programmable electronic circuits using software	N
EX WALTE	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	UNCN N TEK SUN
R.2	Requirements for the architecture	N N
NUTEX M	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 incorporating measures to control the fault/error conditions specified in table R.2 have one of the following structures:	N SINT
NALTEK S	- single channel with periodic self-test and monitoring	
Å	- dual channel (homogenous) with comparison	N
L'IL WIN	- dual channel (diverse) with comparison	N ^N
EX WALTE	Programmable electronic circuits requiring software incorporating measures to control the fault/error conditions specified in table R.1 have one of the following structures:	N LIFE N
- Jet	- single channel with functional test	Set N
M	- single channel with periodic self-test	N
At .	- dual channel without comparison	or N⊘

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- Intit	IEC 60335-2-65					
Clause	Requirement + Test	Result - Remark	Verdic			
R.2.2	Measures to control faults/errors	alifet alifet antifit and inter	N N			
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	LIEK WALTER WALTER WALTER	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					
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	ret whitet whitet whitet w	EX WAL			
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	ATEX WALTER WALTER WALTER	N C			
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	white white white white	N			
R.2.2.6	The software is referenced to relevant parts of the operating sequence and the associated hardware functions	at a ret ster	NON LIEK			
R.2.2.7	Labels used for memory locations are unique	and the she a	N			
R.2.2.8	The software is protected from user alteration of safety-related segments and data	* MITER WAITER WAITER WA	I N N			
R.2.2.9	Software and safety-related hardware under its control is initialized and terminates before compliance with clause 19 is impaired	whitek whitek whitek white	- NE			
R.3	Measures to avoid errors	at let jet jet	N			
R.3.1	General	inter which which with	Ν			
er would	For programmable electronic circuits with functions r measures to control the fault/error conditions specific following measures to avoid systematic fault in the s	ed in table R.1 or R.2, the	UT N			
WALTER N	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	white white white white	N			

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Clause	Requirement + Test	Result - Remark	Verdict
INLIEK WA	R.1	THE THE MINE	NITEL WATER
R.3.2	Specification	me me	N
R.3.2.1	Software safety requirements:	Software Id:	N SUCCES
* INLIEK	The specification of the software safety requirements includes the descriptions listed	at the stat stat	t NIEL N
R.3.2.2	Software architecture	me me m	N
R.3.2.2.1	The specification of the software architecture includes the aspects listed - techniques and measures to control software faults/errors (refer to R.2.2); - interactions between hardware and software; - partitioning into modules and their allocation to the specified safety functions; - hierarchy and call structure of the modules (control flow); - interrupt handling; - data flow and restrictions on data access; - architecture and storage of data; - time-based dependencies of sequences and data	Document ref. No:	
R.3.2.2.2	The architecture specification is validated against the specification of the software safety requirements by static analysis	the while which wh	N N
R.3.2.3	Module design and coding	me me me	N
R.3.2.3.1	Based on the architecture design, software is suitably refined into modules	INTEX WAITER WALTER	white Mr.
NLTEK WIN	Software module design and coding is implemented in a way that is traceable to the software architecture and requirements	MAL TEN WALTER W	NUTER NA
R.3.2.3.2	Software code is structured	- the state of	SET N
R.3.2.3.3	Coded software is validated against the module specification by static analysis	et at all	N
- Alt	The module specification is validated against the architecture specification by static analysis	white white white	N
R.3.3.3 📣	Software validation	MITER MAILE WALL	NV JN
ITEK WAL	The software is validated with reference to the requirements of the software safety requirements specification	ALTER WALTER WALTER W	ster N-
et nure	Compliance is checked by simulation of:	at all all the of	IT N
14.	- input signals present during normal operation	white when white	N
NUTER	- anticipated occurrences	- THE THE THE	N
20.	- undesired conditions requiring system action	when when when	N

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Clause	Requirement + Test	Result - Remark	Verdict

Component	Fault/error	Acceptable measures ^{b, c}	Definitions	Document	Docume	Ver-dic
at white w	white white	whitek whitek whitek white	A ANTICE AND	reference for applied measure	nt referenc e for applied test	Intite of
1 CPU	Set Miles	inti with white we	at at	.et	(#* . J*	N
1.1		-t , it , it with		white wh	m	201
Registers	Stuck at	Functional test, or	H.2.16.5	1 1	- 11	JEX
	m. n.	periodic self-test using either:	H.2.16.6	NUTE MALIT	wint	MUL
	JEK J	 static memory test, or word protection with 	H.2.19.6 H.2.19.8.2	1 A	1	.et
	our and	single bit redundancy	п.2.19.0.2	ER UNITER	NULTE N	it's wi
1.2 VOID	JEK JIEK	WITE	Sec. 50	- *	it i	
1.3	Stuck at	Functional test, or	H.2.16.5	White M	er mur	N
Programme counter	et stek	Periodic self-test, or	H.2.16.6		* 1	
counter	when w	Independent time-slot monitoring, or	H.2.18.10.4	NULTER WALT	WALL	white
	WALTE WAY	Logical monitoring of the programme sequence	H.2.18.10.2	TEX NALLEY	MALTER	WALTERV
2- 1-	No	Functional test, or	H.2.16.5	4	et	, d ⁱ -N
Interrupt handling and execution	interrupt or too frequent interrupt	time-slot monitoring	H.2.18.10.4	at white v	net mer	EX NULL
3	Wrong	Frequency monitoring, or	H.2.18.10.1	m m		N
Clock	frequency (for quartz synchroniz ed clock: harmonics/ sub- harmonics only)	time slot monitoring	H.2.18.10.4		WALTER WAL	WALTER W
4. Memory	EX NUTER	NUTES WALTE WAT WIT		t.	1 1	- N <
4.1	All single	Periodic modified checksum, or	H.2.19.3.1	white whi	with	with
Invariable memory	bit faults	multiple checksum, or	H.2.19.3.2		. At	let
NILL NILL	mr. mr	word protection with single bit redundancy	H.2.19.8.2	LIEN WALTE	white	MUT
4.2	DC fault	Periodic static memory test, or	H.2.19.6	at let	IEt	N کې
Variable memory	TEK WALTER	word protection with single bit redundancy	H.2.19.8.2	WAL	IN W	EX WALT
4.3 Addressing	Stuck at	Word protection with single bit redundancy including the	H.2.19.8.2	at at		Not

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Clause F	Requirement -	+ Test	Result - R	Remark	Verdict
(relevant to variable and invariable memory)	white whi	address	offet whitet w	NUTEX WALLEY WAL	- MITEX
5 Internal data path	Stuck at	Word protection with single bit redundancy	H.2.19.8.2	WALTER WALTER	NO TEL N
5.1 VOID	et Jier	INTE MALL WAL W		at at	<- N<
5.2 Addressing	Wrong address	Word protection with single bit redundancy including the address	H.2.19.8.2	unti vun vun	N N
6 External communicati on	Hamming distance 3	Word protection with multi-bit redundancy, or CRC – single work, or Transfer redundancy, or	H.2.19.8.1 H.2.19.4.1 H.2.18.2.2	et whitet whitet	N
	L' WILL	Protocol test	H.2.18.14	NUTER MALTER IN	nt whi
6.1 VOID	t tet	is street inthe wat	- III	1	N
6.2 VOID	me a	SN SN		street out and	SUN .
6.3 Timing	Wrong point in time	Time-slot monitoring, or scheduled transmission Time-slot and logical monitoring, or comparison of redundant communication channels by either: - reciprocal comparison - independent hardware	H.2.18.10.4 H.2.18.18 H.2.18.10.3 H.2.18.15 H.2.18.3	Net watter water	
Tex white	Wrong sequence Fault	Logical monitoring, or time-slot monitoring, or Scheduled transmission Plausibility check	H.2.18.10.2 H.2.18.10.4 H.2.18.18 H.2.18.13	TEX WALTER WALT	S IT No
Input/output periphery	conditions specified in 19.11.2	NUTER WALTER WALTER	Maires Maire	white where we	IN JUL
7.1 VOID	*	et get oure onlie of	1 wint o	ne in in	N
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	Tet would would	ST LIFE N
7.2.2 Analog multiplexer	Wrong addressing	Plausibility check	H.2.18.13	white white w	

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Clause	Requirement + Test Result - Remark			Verdict			
8 VOID	Se Marina		et .	ret stret	NUTER NAL	NNLIER	JNN N
9 Custom chips ^d e.g. ASIC, GAL, gate array	outside the static and	Periodic self-test	whitek	H.2.16.6	Tek waitek	whitek wh	

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.

S TEK N	ANNEX S (NORMATIVE) BATTERY OPERATED APPLIANCES POWERED BY BATTERIES THAT ARE NON-RECHARGEABLE OR NOT RECHARGED IN THE APPLIANCE		N C
EX NITE	The following modifications to this standard are applicable for battery-operated appliances where the batteries are either non-rechargeable (primary batteries), or	thet water water water	JEL N
TEX	rechargeable batteries (secondary batteries) that are not recharged in the appliance	when when we we	N
5.8.1	If the supply terminals for the connection of the battery have no indication of polarity, the more unfavourable polarity is applied	white white white white	N N
5.S.101	Appliances intended for use with a battery box are tested with the battery box supplied with the appliance or with the battery box recommended in the instructions		N
5.S.102	Appliances are tested as motor-operated appliances.	A sufet intret intret with	I SUL
7.1	Appliances marked with the battery voltage (V) and the polarity of the terminals, unless	THE THE STREET WITH	- N
	the polarity is irrelevant	me me me	N
LITE MAI	Appliances also marked with:	THE LIFE NUTER MUTER	N ² N
et site	 – name, trade mark or identification mark of the manufacturer or responsible vendor	at left set set	L.E.N
20.	- model or type reference:	white white white a	N
WALTER	 – IP number according to degree of protection against ingress of water, other than IPX0 	WALTER WAITER WALTER WAT	N
Tex	- type reference of battery or batteries	1 of of A	N



Clause	Requirement + Test	Result - Remark	Verdic		
t	the state state out only with state		de de		
INCL. MI	If relevant, the positive terminal is indicated by the symbol IEC 60417-5005 and the negative terminal by the symbol IEC 60417-5006	MALTER MALTER MAILE MA	SUN St. Steft		
* with	If appliances use more than one battery, they are marked to indicate correct polarity connection of the batteries	of and and and	N		
7.6	Additional symbols	me m m	N		
7.12	The instructions contain the following, as applicable:				
*	- the types of batteries that may be used:	me me	N_		
NHTE WAY	- how to remove and insert the batteries	iter siter aller out	N N		
iet intif	 non-rechargeable batteries are not to be recharged 	at not not it	LIEN N		
+ stet	 rechargeable batteries are to be removed from the appliance before being charged 	and when she	N		
WA-	 different types of batteries or new and used batteries are not to be mixed 	N			
Watter W	 batteries are to be inserted with the correct polarity 				
LTEN WAL	 exhausted batteries are to be removed from the appliance and safely disposed of 		N N		
EX WALTER	 – if the appliance is to be stored unused for a long period, the batteries are removed 	et milet united waited	WULLER N		
. lit	- the supply terminals are not to be short-circuited	t t t	⊢ N ∠		
11.5	Appliances are supplied with the most unfavourable	supply voltage between	N N		
UNLIEK UN	 – 0,55 and 1,0 times the battery voltage, if the appliance can be used with non-rechargeable batteries 	att antifet and	Set Mat		
	 – 0,75 and 1,0 times battery voltage, if the appliance is designed for use with rechargeable batteries only 	and an ist and	N		
	The values specified in Table S.101 for the internal resistance per cell of the battery is taken into account	Manufet Maine Maine	N N		
19.1	The tests are carried out with the battery fully charged unless otherwise specified		Ň		
19.13	The battery does not rupture or ignite		N ^N N		
19.S.101	Appliances are supplied with the voltage specified in 11.5. The supply terminals having an indication of polarity are connected to the opposite polarity, unless	et whitet whitet white	W TEN		
WALL .	such a connection is unlikely to occur due to the construction of the appliance	WALTER WALTE WALTE V	N N		
19.S.102	For appliances with provision for multiple batteries,	it it it	S N		

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Clause	Requirement + Test	Result - Remark	Verdic	
INTER JUN	one or more of the batteries are reversed and the appliance is operated, if reversal of batteries is allowed by the construction	uniter uniter uniter u	ntiek wnitek	
25.5	The flexible leads or flexible cord used to connect an external battery or battery box in is connected to the appliance by a type X attachment		N	
25.13	This requirement is not applicable to the flexible leads or flexible cord connecting external batteries or a battery box with an appliance			
25.S.101	Appliances have suitable means for connection of the battery. If the type of battery is marked on the appliance, the means of connection is suitable for this type of battery	NITER WAITER WAITER W	N N	
26.5	Terminal devices in an appliance for the connection of the flexible leads or flexible cord connecting an external battery or battery box are so located or shielded that there is no risk of accidental connection between supply terminals		Not the solution	
30.2.3.2	There is no battery in the area of the vertical cylinder used for the consequential needle flame test, unless	MUTER WAITER WAITER	IN IT IN N	
in wat	the battery is shielded by a barrier that meets the needle flame test of Annex E, or	LIEK WALTER WALTE WA	N V	
WALTE	that comprises material classified as V-0 or V-1 according to IEC 60695-11-10	et whitet whitet whit	on the Nur	

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10.1 TABLE: Power	input deviation	stre wat wa	m	Mr. Co.	P
Input deviation of/at:	P rated (W)	P measured (W)	ΔP	Required ΔP	Remark
DC 24V	20	12.2	-39.0%	+20%	at - at

10.2	TABLE: Curre	nt deviation				P
Current devi	ation of/at:	I rated (A)	I measured (A)		Required Δ I	Remark
Tested with	adaptor	With White		EX JIEK	NUTER MUTER	UNLIEK WINE
100V, 50Hz	it set	1.0	0.24	-76.0%	+20%	d - 1
100V, 60Hz	me m	1.0	0.23	-77.0%	+20%	in water
240V, 50Hz	JEt J	1.0	0.12	-88.0%	+20%	* 7.*
240V, 60Hz	me m	1.0	0.11	-89.0%	+20%	un -
Tested with	out adaptor	MUTER		14 OC	t it	lit .
DC 24V	u - w	1.0	0.51	-49.0%	+20%	m- m

11.8	TABLE: Heating test, thermocouples	Р			
LITEK WA	Test voltage (V)	0.94x100V=94.0V, low speed	1.06x240V=254.4V , high speed	TEX WAITER W	
it d	Ambient, t ₁ (°C)	23.5	23.3	+ , , , ,	
MUL	Ambient, t ₂ (°C)	23.3	23.0	mr - m	
Thermocouple locations		dT	dT (K)		
		Test 1	Test 2	mur mur	
Adaptor		3.2	21.1	Ref	
Appliance inlet pin		3.0	5.7	CI.30	
PCB surface		10.2	7.5	CI.30	
Motor lead wire		7.0	9.8	T80-25=55	
Fan motor winding		6.9	15.0	Class 120, 80	
Ion generator lead wire		2.9	4.7	T80-25=55	
Ion generator		2.9	4.7	Ref.	
Control panel		2.8	4.6	60/CI.30	
Plastic enclosure (inside)		6.2	7.4	CI.30	
Plastic enclosure (outside)		4.4	6.7	75	
Test corner		3.1	4.3	65	

13.2	TABLE: Leakage current		P
. et .	Heating appliances: 1.15 x rated input (W):	to the second	Tet
NUT NUT	Motor-operated and combined appliances: 1.06 x rated voltage (V)	Same as Cl.11.8	m <u>r</u> :



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Leakage current between:	I (mA)	Max. allowed I (mA)
Live part and plastic enclosure/control panel	0.021	0.35 peak

13.3	TABLE: Dielectric strength	LIEK ALTER MUTER AN	LT WALL A WE P W
Test voltage applied between:		Test potential applied (V)	Breakdown / flashover (Yes/No)
Live part and	d plastic enclosure/control panel	3000	No

14	TABLE: Transient over	ervoltages	when wh	-me m		N
Clearance b	etween:	CI (mm)	Required Cl (mm)	Rated impulse voltage (V)	Impulse test voltage (V)	Flashover (Yes/No)
FER MITE	white white white	- nit-	t - at	11 11+	JIE JIE	Intre Int

16.2	TABLE: Leakage current		Set aller and Rai
TEX	Single phase appliances: 1.06 x rated voltage (V)	DC 1	13.8V —
NI D	Three phase appliances 1.06 x rated voltage divided by √3 (V)	Intre when	- Mr Mr W
Leakage	current between:	I (mA)	Max. allowed I (mA)
Live part and plastic enclosure/control panel		0.023	0.25

16.3 TABLE: Dielectric strength		t at at Part
Test voltage applied between:	Test potential applied (V)	Breakdown / flashover (Yes/No)
Live part and plastic enclosure/control panel	3000	No No

17 .	TABLE: Overload protection		N N N
Thermocoup	ble locations:	Max. temperature rise measured, Δ T (K)	Max. temperature rise limit, Δ T (K)
- ,+	ret stet stret with white	mur mr - mr	t - it it

17	TABLE: Overload	TABLE: Overload protection, resistance method					
with m	Test voltage (V)			NITER MIT	- NALTE MA		m_ n
	Ambient, t1 (°C)				- 1 1	¥	Alt of
m	Ambient, t2 (°C)			RITE WALTE	mat wat	-11	
Tempera	ature of winding:	R1 (Ω)	R2 (Ω)	ΔΤ(Κ)	T (°C)	Ma	ax. T (°C)
	The state of	+ 1184-118	Intres on	I WALL N	1. 1 .	An.	

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19.7	TABLE: abnormal oper	ation, temperature	e rise measurei	ments		+ P_+
WALL W	Abnormal conditions:	Supplied at rate Locking moving	tions	W L .		
Temperat	ture rise dT of part/at:		dT (K)		require	d dT (K)
Power co	rd set set s	NALTE WALT	11.6	In I	L 1	50 /
Fan moto	or winding	t at	Class 120, 165-25=140			
Control p	anel	11.8			Cl.30	
Plastic er	nclosure (inside)	it at a	46.2			.30
Test corn	er t	The working with	6.3			50
Winding t	emperature rise measurem	ents:	* NITER INT	IE WALTEN	unt whe	~N
Temperat	ture rise dT of winding:	R ₁ (Ω)) $R_2(\Omega)$	Temperat ure (°C)	Required (°C)	Insulation class
e st	let the state			S.	- 2	A 14

21.1 TABLE: Impa	act resistance		P.
Impacts per surface	Surface tested	Impact energy (Nm)	Comments
3 times	Fan guard	0.5J	No damage
3 times	Control panel	0.5J	No damage
3 times	Plastic enclosure	0.5J	No damage

24.1	ТАВ	LE: Critical component	ents information		t at at	J P PJ
Object / part	No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Adaptor	2	SHENZHEN KAIJUNSHENG ELECTRONIC TECHNOLOGY CO., LTD	KJS-02401000	Input: AC100- 240V, 50/60Hz, 1.0A Max, Output: DC 24V, 1A	EN 60950-1	BSTXD20081 5061101SC
Alternative	NU SEK	ZHUHAI CHENG LI XIN ELECTRONIC TECHNOLOGY CO., LTD	CLX- PF24N24AXG	Input: AC100- 240V, 50/60Hz, 1.0A Max, Output: DC 24V, 1A	EN 60950-1	UNI20151230 01SC-01
Inlet	NUL NULL	ZHUHAI CHENG LI XIN ELECTRONIC TECHNOLOGY CO., LTD	DC005	DC30V, 2A	IEC/EN 60335-1 IEC/EN 60335-2- 65	Tested with appliance
PCB	ire it	ZHUHAI CHENG LI XIN ELECTRONIC TECHNOLOGY CO., LTD	CLX-KJ100G- 107	94V-0, 130℃	IEC/EN 60335-1 IEC/EN 60335-2- 65	Tested with appliance

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n. n.		1 A		int. Int	m m
Alternative	KINGBOARD LAMINATES HOLDINGS LTD	KB-3150N	94V-0,130℃	IEC/EN 60335-1 IEC/EN 60335-2- 65	Tested with appliance
Alternative	SHANDONG JINBAO TECH- INNOV CORPORATION	ZD-95(G)F	94V-0,130℃	IEC/EN 60335-1 IEC/EN 60335-2- 65	Tested with appliance
Alternative	KINGBOARD LAMINATES HOLDINGS LTD	KB-5150	94V-0,130℃	IEC/EN 60335-1 IEC/EN 60335-2- 65	Tested with appliance
Alternative	GUANGDONG CHAOHUA TECHNOLOGY CO LTD	M-428F	94V-0,130℃	IEC/EN 60335-1 IEC/EN 60335-2- 65	Tested with appliance
Alternative	ZHONGSHAN LIXIN CHAIN- BOARD CO LTD	CEM-1	94V-0,130℃	IEC/EN 60335-1 IEC/EN 60335-2- 65	Tested with appliance
Alternative	Shunde Jun'an Shengsheng Electronic Co.,Ltd	S-1 / S-1D	94V-0,130℃	IEC/EN 60335-1 IEC/EN 60335-2- 65	Tested with appliance
Alternative	FOSHAN CITY YE FENG SHAN TIAN ELECTRICAL ASSISTANT LTD	YF-1	94V-0,130°C	IEC/EN 60335-1 IEC/EN 60335-2- 65	Tested with appliance
Alternative	SHUNDE JUNDA ELECTRONIC CO LTD	JD-D	94V-0,130℃	IEC/EN 60335-1 IEC/EN 60335-2- 65	Tested with appliance
Alternative	GUANGDONG CHAOHUA TECHNOLOGY CO LTD	C-104 / C-109	94V-0,130℃	IEC/EN 60335-1 IEC/EN 60335-2- 65	Tested with appliance
Alternative	FOSHAN SHUNDE TONGYU ELECTRONICS CO LTD	TY-2	94V-0,130℃	IEC/EN 60335-1 IEC/EN 60335-2- 65	Tested with appliance
Alternative	MEIXIAN JINJIANG CIRCUIT BOARA CO.,LTD	JJ-C1	94V-0,130℃	IEC/EN 60335-1 IEC/EN 60335-2- 65	Tested with appliance
Ozone generator	Foshan Shunde Youji Electronic Co.,Ltd.	YFD-24	DC24V, 1W, - 3.5KV DC ± 1KV DC, Max 0.064ppm	IEC/EN 60335-1 IEC/EN 60335-2- 65	Tested with appliance
Fan motor	Minebea Electronics Motor (ZHUHAI) Co., Ltd.	DNQ06M50R1 3F	DC 24V, 0.9A, Class 120	IEC/EN 60335-1 IEC/EN 60335-2- 65	Tested with appliance
Internal wire	GUANG DONG XIN LONG ENTERPRISE CO	2468	300V, 80℃, 26AWG	whitek whitek	UL E207567

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Ρ

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Alternative	Various	2468	300V, 80℃, 26AWG	t stat astat	UL approved
Alternative	FOSHANSHI SHUNDEQU JIANJIN WIRE CO LTD	1007	300V, 80℃, 24AWG	a Nifex anifex and	UL E464548
Alternative	Various	1007	300V, 80℃, 24AWG	NER WALTER WALTE	UL approved

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

28.1 TABLE: Threa	TABLE: Threaded part torque test P									
Threaded part identification:	Diameter of thread (mm)	Column number (I, II, or III)	Applied torqu	e (Nm)						
Screw for earthing termina	2.94	I	0.5	IFK NITE						

29.1

TABLE: Clearances

C	vervoltage category	,		: a a	I	A IT	
LT WAL	and an		Type of ir	nsulation:	IER MITE	untit white	
Rated impulse voltage (V):	Min. cl (mm)	Basic (mm)	Supplementary (mm)	Reinforced (mm)	Functional (mm)	Verdict / Remark	
330	0,2* / 0,5 / 0,8**	S N	N	N	N	N. N.	
500	0,2* / 0,5 / 0,8**	N	IT NT IN	NU.	In Nrue	N	
800	0,2* / 0,5 / 0,8**	<u>́ N </u>	N	N	N Set	JER N. JER	
1 500	0,5 / 0,8** / 1,0***	Ν	N N	Ň	N	N	
2 500	1,5 / 2,0***	>2.0	>2.0	N	>2.0	P.L.	
4 000	3,0 / 3,5***	N	white N white	>3.5	N N	Р	
6 000	5,5 / 6,0***	N	N		Ň	N N N	
8 000	8,0 / 8,5***	Ň	N N N	N	N N	N	
10 000	11,0 / 11,5***	N	N -	at Nat	JIE N JIE	N N N	

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

29.	2 TABLE:	LE: Creepage distances, basic, supplementary and reinforced insulation								
V	Vorking voltage (V)		Creepage dis (mm) Pollution de		et wonthe wonth won	t white				
m	m m	1	2 1 5	3,115	Type of insulation	n				

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and the set of the set		<u></u>	<u>Nr</u>					<u></u>			
t it i	*	K M	aterial g	roup	M	aterial g	roup				it
untit whit whit	m	1 200	П	IIIa/IIIb	et 1	<i>ا</i> ا	IIIa/IIIb*)	B** ⁾	S** ⁾	R** ⁾	Verdic
≤50	0,18	0,6	0,85	1,2	1,5	1,7	1,9		<u> </u>	<u></u>	N
≤50	0,18	0,6	0,85	1,2	1,5	1,7	1,9	A CONTRACT	ne	'ı	N 🔍
≤50	0,36	1,2	1,7	2,4	3,0	3,4	3,8			E.	►N _</td
125	0,28	0,75	1,05	1,5	1,9	2,1	2,4	N	m	m	Ň
125	0,28	0,75	1,05	1,5	1,9	2,1	2,4	<u>_</u>			N
125	0,56	1,5	2,1	3,0	3,8	4,2	4,8		_	an.	N
250	0,56	1,25	1,8	2,5	3,2	3,6	<u> </u>	>4.0		J.C.	Ň
250	0,56	1,25	1,8	2,5	3,2	3,6	<u>4,0</u>	-201	>4.0	_	Р
250	1,12	2,5	3,6	5,0	6,4	7,2	<u>8,0</u>	. The		>8.0	P
400	1,0	2,0	2,8	4,0	5,0	5,6	6,3	24	_	_	N
400	1,0	2,0	2,8	4,0	5,0	5,6	6,3	1 <u>1</u>	NULLE	June 1	N
400	2,0	4,0	5,6	8,0	10,0	11,2	12,6		-		N
500	1,3	2,5	3,6	5,0	6,3	7,1	8,0	, nr	· _ 、	n <u>r.</u>	JN N
500	1,3	2,5	3,6	5,0	6,3	7,1	8,0		it.	1 the	Ň
500	2,6	5,0	7,2	10,0	12,6	14,2	16,0	2m	-on	2	N
>630 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	. et		*	S [®] N
>630 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	<u></u>	m	- w	N
>630 and ≤800	3,6	6,4	9,0	12,6	16,0	18,0	20,0		J. C. E.	INLIE	N
>800 and ≤1000	2,4	4,0	5,6	8,0 1	10,0	11,0	12,5	-2	_		N
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5		14	NICE .	N'N
>800 and ≤1000	4,8	8,0	11,2	16,0	20,0	22,0	25,0			A	N
>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0		1 min	-11	N - N - N
>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0		.0		🦽 N 🖉
>1000 and ≤1250	6,4	10,0	14,2	20,0	25,0	28,0	32,0		NUC.	m	N
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	et.	, At		N
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0			<u></u>	N
>1250 and ≤1600	8,4	12,6	18,0	25,0	32,0	36,0	40,0	<	#	LIEK	Ń
>1600 and ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0	MIL	-24	_	Ν
>1600 and ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0				N S
>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	JEE	N-LIFE	NT-LI	N
>2000 and ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0	_	1		N
>2000 and ≤2500	15,0	20,0	28,0	40,0	50,0	56,0	64,0			1	N N

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m m m				4	A.	15	JI I			N	- In-
>2500 and ≤3200	10,0	12,5	18,0	√25,0 _√ √	32,0	36,0	40,0		<u></u>		N
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0	<u></u> _	1	<u>n 2</u>	MN ·
>2500 and ≤3200	20,0	25,0	36,0	50,0	64,0	72,0	80,0		<u>ڊ </u>	.et	Ň
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	min	-n	·	N - 11
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	7		t	N N
>3200 and ≤4000	25,0	32,0	44,0	64,0	80,0	90,0	100,0	<u></u>	m.	24	N
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	,et	1. Alt		N
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0			<u> </u>	N
>4000 and ≤5000	32,0	40,0	56,0	80,0	100,0	112,0	<u>126,0</u>	t _ni	EK N	>126 .0	W P
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0			et	N N
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0	nu.	211.	-12	Ν
>5000 and ≤6300	40,0	50,0	72,0	100,0	126,0	142,0	160,0	Jak -	A. C.	, NI	N
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0		_		N
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0		11	In LITE	N'n
>6300 and ≤8000	50,0	64,0	90,0	126,0	160,0	180,0	200,0		<u> </u>	it	N
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	MIT	10	0 - 9	n~ N ~N
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0			*	<re>K−N</re>
>8000 and ≤10000	64,0	80,0	112,0	160,0	200,0	220,0	250,0	n ¹	Ant.	m	N
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	et	- Tet		N Star
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	×		211-	N
>10000 and ≤12500	80,0	100,0	142,0	200,0	250,0	280,0	320,0	-	Set.	THEF	Ň
					N 1						

Supplementary information:

^{*)} Material group IIIb is allowed if the working voltage does not exceed 50 V $^{**)}$ B = Basic insulation, S = Supplementary insulation, R = Reinforced insulation

Lacquered conductors of windings are considered to be bare conductors, but creepage distances need not be greater than the associated clearance specified in Table 16 taking into account 29.1.1.

29.2	TABLE: Creepage distances, functional insulation	, ► P
Working voltage (V)	Creepage distance (mm) Pollution degree	WITEK W

	fet alfet alfet	1	2 ¹¹			3			set set when we	
	211. 211.	4	Ма	Material group			aterial g	group	nor mor me m	
e	t still white of		n ¹ 1	111	IIIa/IIIb	I	ļ	IIIa/IIIb*)	Verdict / Remark	

≤10	0,08	0,4	0,4	0,4~0	1,0	1,0	1,0	t of Net Set
50	0,16	0,56	0,8	< <u>1,0</u>	1,4	1,6	1,8	we we we

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				NEC 60	335-2-65	5		
me m m				<u></u>		Jer .	JE NI	ant and an
125	0,25	0,71	1,0	^ر 1,4 ر	1,8	2,0	2,2	NA
250	0,42	1,0	1,4	2,0	2,5	2,8	3,2	White wP whi
400	0,75	1,6	2,2	3,2	4,0	4,5	5,0	NL AL
J 500 J	1,0	2,0	2,8	4,0	5,0	5,6	6,3	ntic white white
>630 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	N A
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5	ne Nan m
>1000 and ≤1250	3,2	5,0	7,1 <	10,0	12,5	14,0	16,0	t set N set is
>1250 and ≤1600	4,2	6,3	9,0	(12,5	16,0	18,0	20,0	M N
>1600 and ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0	JEK NEW MITE
>2000 and ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0	N
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0	LIFE MIN MIT I
>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	In white Nation
>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	me ne me
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	At Nt Set
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	me men m
Supplementary inforr	nation:		NNE	J SNE	100		, L	at at at

Supplementary information:

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

30.1 TABLE: Ball Pressure Test of Thermo	plastics	INTE WALT WAL	P
Allowed impression diameter (mm)	2.0	1 A A	THE
Object/ Part No./ Material	Test temperature (°C)	Impression diameter (mm	
Inlet Jose And And And	125	1.0	JEt
PCB material	125	1.0 1.0	
Control panel	75	1.3	et i
Plastic enclosure	75	1.4	2h
Fan motor bobbin	125	1.2	

30.2 T	ABLE: Resistanc	e to heat a	and fire -	Glow wire	tests	. It	Alt S	P	
Object/	t it	dt.	Jer (Glow wire	test (GWT);	(°C)	v. m.	In A	
Part No./ Material	Manufacturer/			6	650	7	50	EL OFOITEN	Verdict
		550	te	ti	te s	r ti vr	850	201 1	
Control panel	See table 24.1	x			<i></i> +	dt - di		NUTE P NUTE	
Plastic enclosure	See table 24.1	× since	WATE	MUT	unt - un	-21 11+	VN V	P P	
PCB material	See table 24.1		. State	JIE	5° 0,55		n x m	Р	

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Fan motor bobbin	See table 24.1	WALTER	mar	white a	0	0	x	Ter P	
Ozone generator	See table 24.1	NALITEK IN	NITE V	WILL NU	0	0	x	P	
Inlet	See table 24.1	F		et - NI	0	N° 0 N	x	An P	
Object/ Part No./	Manufacturer/	Glov		mmability /FI), °C	index		ion temp. T), °C	Verdict	
Material	trademark	550	650	750	850	675	775		
Mut - Mut	w w			. tik	JH	Think	white w	the flux	
The test speci	men passed the	glow wire	test (GW	/T) with no	ignition [(t	e – ti) ≤ 2s]	(Yes/No):	J- Yes	
If no, then sur	rounding parts pa	assed the	needle-fl	ame test c	f annex E	(Yes/No)		~N	
The test specimen passed the test by virtue of most of the flaming material being withdrawn with the glow-wire (Yes/No)?						Yes			
Ignition of the specified layer placed underneath the test specimen (Yes/No):						No			
Supplementar	y information:		4	. It		LIFE NIF	NNLTE	inter m	
- The GWIT pr	not relevant (or re-selection optio oplicable) for atte	n, the 850	°C GWI						

30.2/30.2.4 T/	ABLE: Needle- flame test (N	FT)	LIE WALT W	in mer a	ь <i>ч</i> л
Object/ Part No Material	b./ Manufacturer/ trademark	Duration of application of test flame (ta); (s)	Ignition of specified layer Yes/No	Duration of burning (tb) (s)	Verdict
PCB material	See table 24.1	30	No	NITE O NITE	Р

Supplementary information:

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

===== End of Report ==

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IEC 60335-2-65 - Attachment

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Cla	use Requirement + Test	Result - Remark	Verdict		
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ATTACHMENT TO TEST REPORT IEC 60335-2-65 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES Part 2: Particular requirements for air-cleaning appliances Differences according to.....: EN 60335-1:2012+A11:2014+A13:2017+A1:2019+A2:2019+A14:2019 EN 60335-2-65:2003 + A1:2008 + A11:2012 EN 62233:2008

	CENELEC COMMON MODIFICATIONS (EN)	at set set ster.	
6.1	Delete "class 0" and "class 01"	ALT WALL WALL WALL W	Р
7.1	Single-phase appliances to be connected to the supply mains: 230 V covered	TEX MUTEX WALTER WALTER W	Ste P N
K WALTER	Multi-phase appliances to be connected to the supply mains: 400 V covered	stret intret united and	K N S
7.12	The instructions include the substance of the followir	ng:	P
WALL WALT	- 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	and and the work would would be	
. jet	- children shall not play with the appliance	the state	P
white	- cleaning and user maintenance shall not be made by children without supervision	white white white	sР "
8.1.1	Also test probe 18 of EN 61032 is applied	TE NITE WITE I	PP
ITEK N	The appliance being in every possible position during the test, except that	the state with a	Р
*	appliances normally used on the floor and having a mass exceeding 40 kg are not tilted		Ν
WAL	The force on the probe in the straight position is increased to 10 N when probe 18 is used	white white when he	P
MALI	When using test probe 18 the appliance is fully assembled as in normal use without any parts removed, and	white white white white	NP SP
n m	parts intended to be removed for user maintenance are also not removed	with which which all all	P
8.1.3	Instead of test probe B, test probe 18 and test probe 13, for appliances other than those of class II, test probe 41 of IEC 61032 is applied with a force not exceeding 1 N to live parts of visibly glowing heating elements, all poles of which can be disconnected by a single switching action	whitek whitek whitek white	NSO SUNIT



Clause	Requirement + Test	Result - Remark	Verdic
	the the tree with white white with		the A
8.2	Compliance is checked by inspection and by applying the test probes of EN 61032 in accordance with the conditions specified in 8.1.1	white white white	
	Test probe B and probe 18 of EN 61032 are applied to built-in appliances and fixed appliances only after installation	ite white when we	
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	WALLEY WALTER WALTER	white white
20.2	For appliances having dangerous moving parts, due to their working function, e.g. the needle of a sewing machine, tools of kitchen machines or the blade of an electrical knife, full protection is not possible for performing their intended use	NET WALL WALL W	
Whitek	When using a test probe similar to test probe B of EN 61032, having a circular stop face and applied with a force of 5N, the accessories and detachable covers are removed	watter watter water	N
	When using test probe 18 it is applied with a force of 2,5N on the appliance fully assembled	at at at at	Tet NITE
22.12	Other parts intended to be detached during use, maintenance or cleaning (e.g. batteries, battery covers, lids, attachments, steam nozzles) are not considered as parts providing a similar function as handles, knobs, grips, levers	et white white wh	Et NI TEL
22.17	The requirement is not applicable to built-in appliances	WALTER WALTE WALT	N N
24.1	Components comply with the safety requirements specified in the relevant EN standards as far as they reasonably apply	ner sunifer vunifer v	nite on P
y NITER	Motors are not required to comply with EN 60034-1, but tested as part of the appliance according to this standard	with sold with	Р
whitek whitek	Relays are tested as part of the appliance according to this standard	which which which	N
	Relays may be alternatively tested to EN 60730-1 and the additional requirements in EN 60335-1	white white white	Mr MN
nti wa	The requirements of Clause 29 of this standard apply between live parts of components and accessible parts of the appliance	strek waiter waiter w	N ¹ M ¹ P
WIT	Components may comply with the requirements for clearances and creepage distances for functional insulation as specified in the relevant component	whit whit wh	Р

standard

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IEC 60335-2-65 - Attachment

Clause	Requirement + Test	Result - Remark	Verdict
untitet with	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	united united would united	VI P
ex would be	Components that have not been tested and shown to comply with the EN standard for the relevant component are tested according to the requirements of 30.2 of this standard	at white white white w	THE P
WALTER	Components that have been tested and shown to co requirements in the EN standard for the relevant cor provided that:		Р
Ur. MU	- the severity specified in the component standard is not less than the severity specified in 30.2, and	NITER MALTE MALTE WAL	N ^P P
IE WALT	- the test report for the component states the values of $t_{\rm e}$ and $t_{\rm i}$ acc. to EN 60695-2-11	Tet whitet white white a	V, P ^N
WNLTER	If the above two conditions are not satisfied, the component is tested as part of the appliance	INTER WITER WATER WAT	P
WALTER N	Power electronic converter circuits are not required to comply with EN 62477-1, but tested as part of the appliance according to this standard	Intifet waiter waiter waite	- Nek
LIFE WAY	Unless components have been tested and found to comply with the relevant EN standard for the number of cycles specified, they are tested in accordance with 24.1.1 to 24.1.9	tret whitet whitet whitet	NICP
WALTER	For components mentioned in 24.1.1 to 24.1.9, no additional tests specified in the relevant EN standard for the component are necessary other than those specified in 24.1.1 to 24.1.9	white white white	P
INLIER WI	Components that have not been tested and found to comply with the relevant EN standard, and	ALL STREY WALTER WALTER	NIN PE
JEK WALT	components that are not marked or not used in accordance with their marking,	The sources	NJEP N
* white	are tested in accordance with the conditions occurring in the appliance, the number of samples being that required by the relevant standard	A NUTEX WALTER WALTER WA	IFF P
SUNLITER SUN NITER SUN	Lamp-holders and starter-holders that have not been tested and found to comply with the relevant EN standard are tested as a part of the appliance and additionally comply with the gauging and interchangeability requirements of the relevant EN standard under the conditions occurring in the appliance	whitek whitek whitek white	
WALTER	Where the relevant EN standard specifies these gauging and interchangeability requirements at elevated temperatures, the temperatures measured during the tests of Clause 11 are used	while while while whi	Por

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Clause	Requirement + Test	Result - Remark	Verdict
UNITER AND	There are no additional tests specified for nationally standardized plugs such as those detailed in IEC/TR 60083 or connectors complying with the standard sheets of EN 60320-1 and EN 60309, unless they are specifically mentioned in the text of this standard	White white white	STATE STATES
MALTER	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	white white white	white white
NLIFEK WN	with connectors and appliance inlets complying with the standard sheets of EN 60320-1, if	wifet miret miret	MITEL MILINE
FEK NALT	direct supply to these parts from the supply mains gives rise to a hazard	the state with a	STOCK STOCK
t strek	For plugs used in CENELEC countries Annex ZH applies	all we we	P
24.1.7	When 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	whitek whitek whitek	white white
LIEK WAL	Compliance with Clause 8 of this standard is not impaired by connecting the appliance to a device covered by EN 41003	Tet wattet waitet w	NICE MIN
24.Z1	Type S2 and S3 capacitors according to EN 60252- 1 are not required to undergo the testing as required by 30.2.2 and 30.2.3.1	at white white wh	N/C
25.1	Plugs and pins for insertion into socket outlets follow the relevant standards sheets in Annex ZH	WALTER WALTER WALTE	N SN
25.7	Rubber sheathed cords (60245 IEC 53) are not suitable for appliances intended to be used outdoors, or	ALL STREY WALTER	N
The works	when they are liable to be exposed to significant amount of ultraviolet radiation	we we we we	N S
25.25	Instead of IEC/TR 60083, dimensions of the pins and engagement face of plugs of appliances that are inserted into socket-outlets are in accordance with the dimensions of the relevant plug standard	whitek whitek white	N
un u	Common plugs and socket-outlets types in CENELEC countries as shown in Annex ZH	white white white	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,	stret whitet whitet w	ILTER WEP
- it	unless they are held in place near the terminals independently of the solder	Mr. M. M.	Р



Clause	Requirement + Test	Result - Remark	Verdict
		Result Remain	
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	Whitek whitek whitek	White WN
32	Compliance regarding electromagnetic fields is checked according to EN 62233	et the the state	at the 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	whe white white	WILL WILL
NLTEX NN	The duration of any of the tests is as specified in 19.7	THE WIEK WITH	INTER NY
st e	t ret ret ret nifet whit whit w	Un Min Min 1	e et
ZA M	ANNEX ZA (NORMATIVE) SPECIAL NATIONAL CONDITIONS (EN)	TEX WALTER WALTER WA	P _N
NOLTH	Denmark, Sweden, Norway and Finland	WATER WAITER WAIT	P
7.12.8	The maximum inlet water pressure is at least 1,0 MPa	NUTER NALLER WALLER	white wh
LIER WIL	Norway	the water water	P
19.5	The test is also applicable to appliances intended to be permanently connected to fixed wiring	et minet minet whi	JEK JUL JEKN
	TEL LIER NUE		
where a	Norway	NUTER NALTE MALL	W VP
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	NU STEP WALTER	NALIES N.S.
MA		no in the	5 JUL 1
	Denmark	t at at	et P
22.47	The maximum inlet water pressure is at least 1,0 MPa	which which whe	N
white w	M when we set get get	aller aller walter	white white
t	Ireland and United Kingdom	N. N. A.	P
25.8 🔊	In the table, the line >10 A and ≤16 A is replaced wit	hite with white	N ¹ N
et d	> 10 and \leq 13 1,25 (1,0) ^b		N N
WILL	> 13 and \leq 16 1,5 (1,0) ^b	LER WALTER SIALTE MAI	No ¹
- Alt	stift attended wat wat was		t at a
ZB	ANNEX ZB (INFORMATIVE) A-DEVIATIONS		P

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IEC 60335-2-65 - Attachment

IEC 60335-2-65 – Attachment				
Clause	Requirement + Test	Result - Remark	Verdict	
MUTER NO	Ireland	the the state with	P	
25.1 and 25.25	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	aret wontret wontret wontret	NUTEN N	
. Jet	United Kingdom	w w	Р	
25.1 and 25.25	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.	NUTER WALTER WALTER WALTER	N	
NULL	It also allows plugs to BS 4573 and EN 50075 to be fitted to shavers and toothbrushes	SEX MALTER WALTER WALTER W	N _S	
zc	ANNEX ZC (NORMATIVE) NORMATIVE REFERENCES TO INTERNATIONAL F CORRESPONDING EUROPEAN PUBLICATIONS	PUBLICATIONS WITH THEIR	Р	
ifet whit	A list of documents referred to in the text of this standard in such a way that some or all of their content constitutes requirements of this document	LIEK WALTER WALTER WALTER	P	
ZD	ANNEX ZD (INFORMATIVE) IEC and CENELEC CODE DESIGNATIONS FOR F		N	
WALLE N	List of IEC and CENELEC code designations for flexible cords	white white white white	N	
NUTE NN		TE ALTER MITER	MITT	
ZE Jet white	ANNEX ZE (INFORMATIVE) SPECIFIC ADDITIONAL REQUIREMENTS FOR AF INTENDED FOR COMMERCIAL USE	PPLIANCES AND MACHINES	N	
7.1	Business name and full address of the manufacturer and, where applicable, his authorized representative	A WALTER WALTER WALTER WA	TEK N	
JIEK .	Model or type reference:	at at all of	N	
the sta	Serial number, if any	white white white white	N	
UTER NU	Production year	at all all all	Ń	
24	Designation of the appliance:	strong wat was	N	
7.12 Junit	Instructions provided with the appliance so that the appliance can be used safely	EX MALTER WALTER WALTER W	UTE N	
THE	The instructions contain at least the following information	ation:	o ^ل N ر	
WITH V	- the business name and full address of the manufacturer and, where applicable, his authorized representative	white white white white	N	



IEC 60335-2-65 - Attachment

Clause	Requirement + Test	Result - Remark	Verdict
jit.	THE STEP STEP SHIT WITH WITH WITH	the second	at at
Inter W	- model or type reference of the appliance as marked on the appliance itself, except for the serial number	white white white	onti on N
	- the designation of the appliance together with its explanation in case it is given by a combination of letters and/or numbers	inter working working with	
TEX	- the general description of the appliance, when needed due to the complexity of the appliance	whit with white	N
NITEK NN	- specific precautions required during installation, operation, adjusting, user maintenance, cleaning, repairing or moving	white white white	NUTER NUTER
TEX WALT	- when needed drawings, diagrams, descriptions and explanations necessary for the safe use and user maintenance of the appliance	ret wiret waitet wa	TEL WITTEN
WALTER	- the possible reasonably foreseeable misuse and, whenever relevant, a warning against the effects it may have on the safe use of the appliance	watter watter watte	t and et N
WALTER N	The words "Original instructions" appear on the language version(s) verified by the manufacturer or by the authorized representative	Intret whitey white	WALTE WAR
et white	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	et would would would would	
NINE VI	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	white white white	Martinet Martinet
I whitek	The instructions indicate the type and frequency of inspections and maintenance required for safe operation including the preventive maintenance measures	where we the work	
7.12.ZE1	If needed for specific appliances, the following inform	nation to be given:	Ν
WALL WAL	- 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	WALTER WALTER WALTER	
WALTER	- on how to maintain adequate mechanical stability when in use, during transportation, assembly, dismantling, scrapping and any other action involving the appliance	WALTER WALTER WALTER	N N

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IEC 60335-2-65 - Attachment

Clause	Requirement + Test	Result - Remark	Verdict
	The star with which we we		* 1
unt wi	- on the protective measures to be taken by the user, including, where appropriate, the personal protective equipment to be provided	Martin Walt wait wat	SUN
A WALTER	- 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	et while while while	N N
WALTER S	- on the specifications on the spare parts to be used, when these affect the health and safety of the operator	whitek whitek whitek whi	N
NITE WAY	- on airborne noise emissions, determined and decla relevant Part 2, which includes:	ared in accordance with the	on'N
I WALT	- the A-weighted emission sound pressure level at workstations, where this exceeds 70 dB(A);	et whitet whitet whitet	S STON
white	- where this level does not exceed 70 dB(A), this fact is indicated	watter water water water	N N
NALIEK N	 the peak C-weighted instantaneous sound pressure value at workstations, where this exceeds 63 Pa (130 dB in relation to 20 μPa)	united white whited white	N N N N N N N N N N N N N N N N N N N
et white	- the A-weighted sound power level emitted by the machinery, where the A-weighted emission sound pressure level at workstations exceeds 80 dB(A)	et white white white	IT TEL M
7.12.ZE2	The instructions include a warning to disconnect the appliance from its power source during service and when replacing parts	whitek whitek whitek wh	N
neit wh	If the removal of the plug is foreseen, it is clearly indicated that the removal of the plug is such that an operator can check from any of the points to which he has access that the plug remains removed	other with the winter winter	WON
WALTER	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	WALTER WALTER WALTER W	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	WALTER WALTER WALTER WALTER	NN N
* 1	a manual operation is required to restart it	and the second second	N
20.1	Appliances and their components and fittings have adequate mechanical stability during transportation, assembly, dismantling and any other action involving the appliance	ALTER MITER WAITER	
20.2	Dangerous moving transmission parts safeguarded either by design or guards	m when the	N

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IEC 60335-2-65 - Attachment

Clause	Requirement + Test	Result - Remark	Verdict
Whitek W	When guards are used, they are fixed guards, interlocking movable guards or protective devices	uniter white white white	N
LIER WALT	Moving parts directly involved in the function of the a made completely inaccessible fitted with:	appliance which cannot be	Josef N 3
NNLTER NALTER	- fixed guards or interlocking movable guards preventing access to those sections of the parts that are not used in the work, and	at whitet whitet whitet	IN SER N
WALTE	- adjustable guards restricting access to those sections of the moving parts where access is necessary	whitek whitek white wh	N
nter MA	Interlocking movable guards used where frequent access is required	NUTER MALTE MALTE WAL	SM N
21.1 WALTER	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	WALTER WALTER WALTER	N
22.ZE.1	For appliances provided with a seat, the seat gives adequate stability	untite white white wh	N N
LTE WAL	The distance between the seat and the control devices capable of being adapted to the operator	LIEK WALTER WALTER WALTE	SULL N
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	et whitek whitek whitek	
	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	white white white white	EX N
22.ZE.3	Appliances designed in such a way that incorrect mounting is avoided, if this can lead to an unsafe situation	WILL WE THE WORLTEN	N
	If this is not possible, information on the correct mounting is given directly on the part and/or the enclosure	WALTER WALTE WALTER	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	white white white wh	X NITER
	so designed that they can be fitted with such attachments, or	at the set set	N
	be shaped in such a way that standard lifting gear can easily be used	white white white	N N
	Appliances to be moved manually are constructed or equipped so that they can be moved easily and safely	white white white w	N



IEC 60335-2-65 – Attachment

Clause	Requirement + Test Result - Remark	Verdict
	after suffer and and and and and and and	
22.ZE.5	The fixing systems of fixed guards which prevent access to dangerous moving transmission parts only removable with the use of tools	WNN STEK
	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	
WALTER	Where possible, guards are incapable of remaining in place without their fixings	N NYE
NLTEK WINT	This does not apply if, after removal of the screws, or if the component is incorrectly repositioned, the appliance becomes inoperative	N.C.
FEX NIFE	Movable guards are interlocked	N N
whitek	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 STATE
WALTER W	Where it is possible for an operator to reach the danger zone before the risk due to hazardous appliance functions has ceased, movable guards associated with a guard locking device in addition to an interlocking device that:	N
LTL WAL	- prevents the start of hazardous appliance functions until the guard is closed and locked, and	M ^C N S
EX WALLE	- keeps the guard closed and locked until the risk of injury from the hazardous appliance functions has ceased	STE N
WALT V	Interlocking movable guards remain attached to the appliance when open, and	N
INLIES WA	they are designed and constructed in such a way that they can be adjusted only by means of an intentional action	SUN 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	
wintifet w	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	N N
EX WAL	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	NULLEX NUL
INLIEK	After these tests the interlock system is fit for further use	at N
22.ZE.7	Adjustable guards restricting access to areas of the moving parts strictly necessary for the work are:	N



Clause	Requirement + Test	Result - Remark	Verdic
	THE MUTE WALL WALL WALL		*
int. m	- adjustable manually or automatically, depending on the type of work involved, and	WALTER WALTE WALT WALT	JON N
	- readily adjustable without the use of tools	ret stet stret with	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	et out and and and a	N TEL N
	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	whilet whilet whilet whi	SEL N
22.ZE.9	Appliances fitted with means to isolate them from all energy sources	at left tet stat	N
20.	Such isolators are clearly identified, and	white white white	^S N ²
WALTER	they are capable of being locked if reconnection endanger persons	WALTER WALTER WALTER W	STEEL N.S.
NNITEK W	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	Intifet whitet whitet whit	
e an	we we	LIES WHITE WALL WAL	-m-
ZF	ANNEX ZF (INFORMATIVE) CRITERIA APPLIED FOR THE ALLOCATION OF F STANDARDS IN THE EN 60335 SERIES UNDER L		I STAP
WALTER V	List of standards under CENELEC/TC61 with the allocation under the LVD (Low Voltage Directive) or the MD (Machinery Directive):	LVD of white white	P
NET W	540 540	TE MAILE WALL	with
ZG	ANNEX ZG (NORMATIVE) UV APPLIANCES	the A LER MITER	N
t street	The following modifications to this standard apply to appliances having UV emitters	4 at alt fit	N
WILLIEK .N	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	white white white w	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	whe whitek whitek white	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	iet waitet waitet waiter	N

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01	IEC 60335-2-65 – Attachment	
Clause	Requirement + Test Result - Remark	Verdic
ZH	ANNEX ZH (INFORMATIVE) Common plug and socket-outlet types in CENELEC countries	SUL N
LIER WAL	In general, supply cords of single-phase appliances having a rated current not exceeding 16 A are fitted with a plug complying with the following standard sheets:	N LIN
et white	- for class I appliances or class II appliances with functional earth, standard sheet EU2, EU3 or EU4	STEE N
WALTER	- for class II appliances, standard sheet EU5, EU6 or EU7	N
INLITER WI	There are exemptions or differences in certain CENELEC countries	UNL'N'
it i	et tet after with white white white the	Alt
ZI ST	ANNEX ZI (INFORMATIVE) Information on the application of A11:2014 to EN 60335-1:2012 CENELEC CLC/TC 61(SEC)2096A	EF IN
NITEK	Clarification of the application of parts 2 in conjunction with the 2002 or 2012 version of EN 60335-1	P
	the set of the set of which want want want	- Star
ZZA	ANNEX ZZA (INFORMATIVE) RELATIONSHIP BETWEEN THIS EUROPEAN STANDARD AND THE SAFETY OBJECTIVES OF DIRECTIVE 2014/35/EU [2014 OJ L96} AIMED TO BE COVERED	
- JEK	This standard provides one means of conforming to safety objectives of Directive 2014/35/EU	P
When when when when when when when when w	When cited in the Official Journal under that Directive, compliance with the normative clauses of this standard given in Table ZZA.1 confers a presumption of conformity with the safety objectives of that Directive and associated EFTA regulations	VP Maliet
Not white	Compliance with this Part 1 when used together with the relevant Part 2 provides one means of conformity with the safety objectives	P S
-211-	a start set sites while while while while white white	20
ZZB	ANNEX ZZB (INFORMATIVE) RELATIONSHIP BETWEEN THIS EUROPEAN STANDARD AND THE ESSENTIAL REQUIREMENTS OF DIRECTIVE 2006/42/EC AIMED TO BE COVERED	
et su	This standard provides one means of conforming to essential requirements of EU Directive 2006/42/EC	N N
whitek whitek	When cited in the Official Journal under that Directive, compliance with the normative clauses of this standard given in Table ZZB.1 confers a presumption of conformity with the essential requirements of that Directive and associated EFTA regulations	EX SUNT

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Clause	Requirement + Test	Result - Remark	Verdict
			**
	Compliance with this Part 1 when used together with the relevant Part 2 provides one means of conformity with the essential health and safety requirements	White white white white	
* 1	t stet stret atter with white where	N W A	let .
whit	ANNEX EN 62233:2008 + AC:2008 EMF- ELECTROMAGNETICS FIELDS The tested product also complies with the requirements of EN 62233:2008		P
WALT			P
.t	Limit100%	Measured max. :13.548%	L P-
nti m	when we we at the	TER TIER ALTE ALTE WALT	MAL

EN 60335-2-65/A11:2012			
Annex ZE	Specific additional requirements for appliances and machines intended for commercial use	Not for commercial use	et N re
Annex ZF	Criteria applied for the allocation of products covered by standards in the EN 60335 series under LVD or MD	whitek whitek whitek white	Pet
Annex ZZ	Coverage of Essential Requirements of EU Directives	LIEK WAITER WAITER WAITER	IN N IN

===== End of Attachment ======

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Photo Documentation

Model: KJ100G-J107



Photo 1



Photo 2

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Photo Documentation



Photo 3

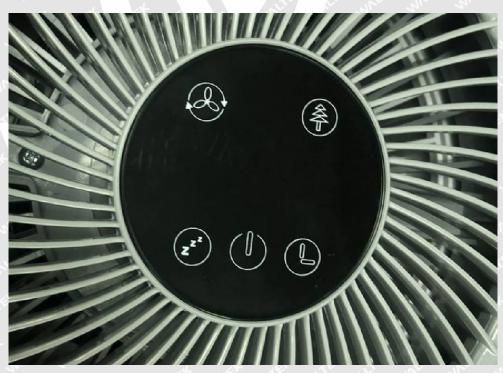


Photo 4

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Photo Documentation



Photo 6

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Photo Documentation

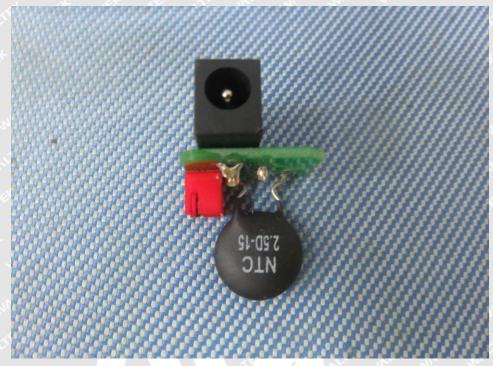


Photo 7



Photo 8

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Photo Documentation

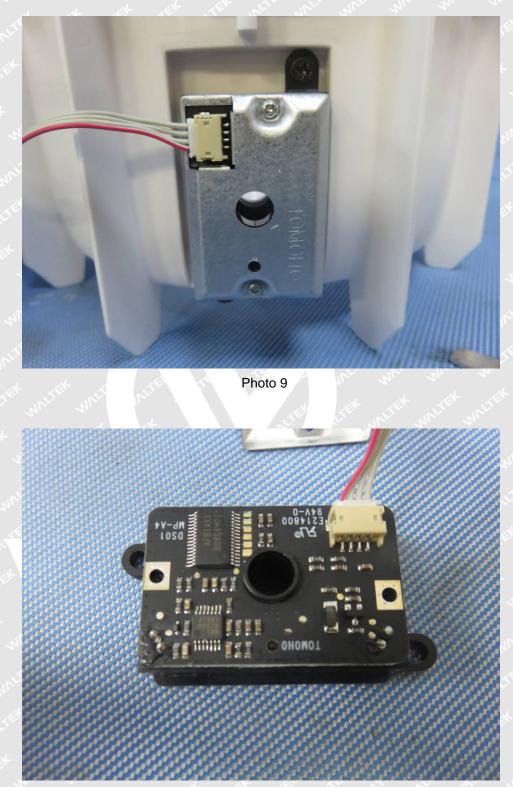


Photo 10

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Photo Documentation

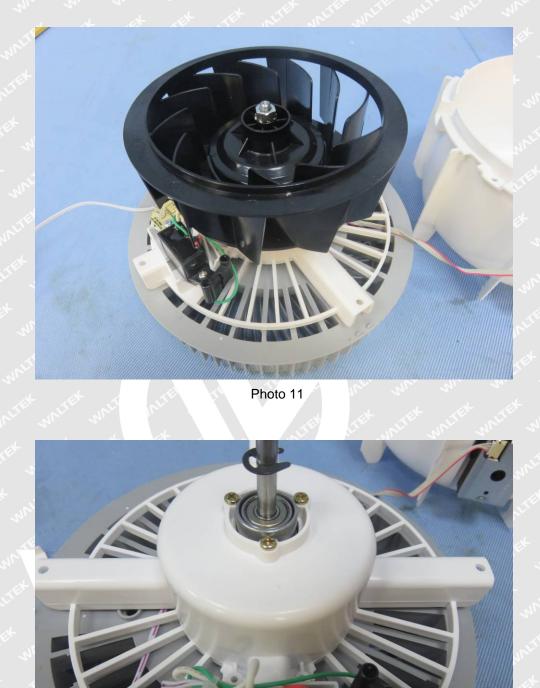


Photo 12

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Photo Documentation



Photo 13



Photo 14

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Photo Documentation

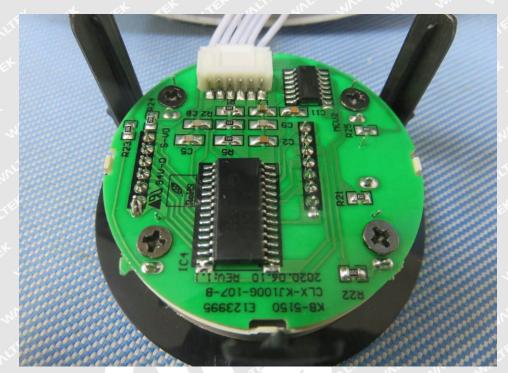


Photo 15

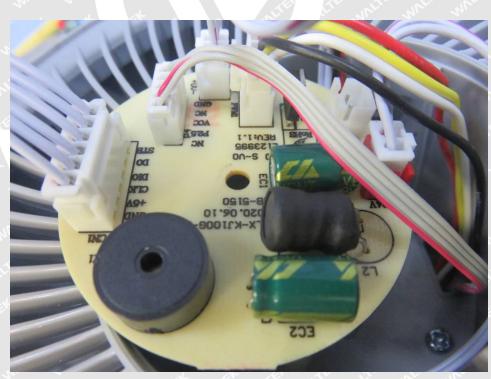


Photo 16

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