

TEST REPORT

Reference No		WTX22X09184386S
Applicant	:	GlobTek, Inc.
Address	ave	186 Veterans Dr. Northvale, NJ 07647 USA
Manufacturer	CIEN	GlobTek, Inc.

Address : 186 Veterans Dr. Northvale, NJ 07647 USA

Product Name: Power supply

Model No. GT*96180-***** (See pages 4-5 for details)

Test specification....: Safety of household and similar electrical appliances

Part I: general requirements

IEC 60335-1:2010+A1:2013+A2:2016

Date of Receipt sample : 2022-09-30

Date of Test 2022-09-30 to 2022-10-21

Date of Issue : 2022-10-25

Test Report Form No.: WTX_IEC60335_1_2010C

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 approver.

Prepared By: Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road,
Block 70 Bao'an District, Shenzhen, Guangdong, China

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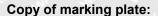
Tested by:	Approved by:
Ian Sun	-trulow
lan Sun	Harvid Wei

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Test item description:	Power supply	y with mit with me with the		
Trademark:	GlobTek, Inc.			
Model and/or type reference:	GT*96180-**** (See pages 4-5 for details)			
Rating(s):				
MITER WHITE WHITE WHITE WALL	Output: 5-30	VDC, 3A MAX , 18W MAX		
at the set set state.	(See pages 4	1-5 for details)		
Remark:		THE THE STILL STILL SHIP SHIP SHIP		
Whether parts of tests for the product h	ave been subc	ontracted to other labs:		
☐ Yes ⊠ No				
If Yes, list the related test items and lab	information:			
Test items:				
Lab information:	Jt 50	t stiet nites intie write white white will		
Summary of testing:	White Whi	THE AT A STATE OF THE STATE OF		
Tests performed (name of test and te	est clause):	Testing location:		
- IEC 60335-1:2010+A1:2013+A2:2016		Waltek Testing Group (Shenzhen) Co., Ltd.		
with the My My My		Address: 1/F., Room 101, Building 1, Hongwei		
The submitted samples were found to c	omply with the	Industrial Park, Liuxian 2nd Road, Block 70 Bao'an		
requirements of above specification.		District, Shenzhen, Guangdong, China		







Remark:

Above label for reference only, final label marking on product shall contain the information at least. Other models are with similar label as corresponding above models except different model name and output ratings.

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Test item particulars:	
Classification of installation and use:	Portable appliance and indoor used only
Supply Connection:	Direct plug-in or appliance inlet
Class of equipment:	Class II
Possible test case verdicts:	Mur Mu An An An
- test case does not apply to the test object:	N/A (Not Applicable)
- test object does meet the requirement:	P (Pass)
- test object does not meet the requirement:	F (Fail)
Name and address of factory (ies):	1. GlobTek, Inc. 186 Veterans Dr. Northvale, NJ 07647 USA
	2. GlobTek (Suzhou) Co., Ltd Building 4, No. 76, Jin Ling East Rd., Suzhou Industrial Park, Suzhou, JiangSu 215021, China
General remarks: The test result presented in this report relate only to the This report shall not be reproduced, except in full, without "(see Enclosure #)" refers to additional information appended table)" refers to a table appended to the Enclosure #).	out the written approval of the Issuing testing laboratory bended to the report. he report.
Throughout this report a ☐ comma / ☒ point is u	

General product information:

- 1. The appliance is intended for household and indoor use only.
- Transformers used in all models are with same construction. The turns of secondary winding may be added or reduced according different output voltage. Each standard rated output voltage designation corresponds to a transformer model. Each transformer model is identical in insulation construction including clearance and creepage except number of turns per coil.
- 3. All the types are designed for continuous operation.
- 4. The product top enclosure is secured to bottom enclosure by ultra sonic welding.
- 5. The specified maximum ambient temperature is 40°C.
- Only EN 50075 type of plug was evaluated in the report(details see table 24.1). Other plug type shall be checked for other countries' certification according to proper national standard before products are sold in the market.

Model similarity:

GT*96180-****,

The 1st "*" part can be 'M' or '-' or 'H' for market identification and not related to safety.

The 2nd "*" denotes the rated output wattage designation, which can be "01" to "18", with interval of 1.

The 3rd "*" denotes the standard rated output voltage designation, which can be "07", "11", "17.9" or "30";

The 4th "*" is optional deviation, subtracted from standard output voltage, which can be "-0.01" to "-12.0" with interval of 0.01, or blank to indicate no voltage different.

The 3rd "*" and 4th "*" together denote the output voltage, with a range of 5 - 30 volts.

The 5th "*" = blank, it means wall plug in with interchangeable blade

=-T2 means desktop class II with C8 AC inlet

=-T2A means desktop class II with C18 AC inlet

The last * denote any six character = 0-9 or A-Z or ()[] or – or blank for marketing purposes.

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Model list:

GT*96180-**** Interchangeable plug models

Model	Output voltage	Max. output current	Max. output power
GT*96180-*07**	5-7VDC	3.0A	15W
GT*96180-*11**	7.1-11VDC	2.53A	18W
GT*96180-*17.9**	11.1-17.9VDC	1.62A	18W
GT*96180-*30**	18-30VDC	1.0A	18W

GT*96180-***-T2/T2A* Desktop models

Model	Output voltage	Max. output current	Max. output power
GT*96180-*07*-T2/T2A*	5-7VDC	3.6A	18W
GT*96180-*11*-T2/T2A*	7.1-11VDC	2.53A	18W
GT*96180-*17.9*-T2/T2A*	11.1-17.9VDC	1.62A	18W
GT*96180-*30*-T2/T2A*	18-30VDC	1.0A	18W

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<u> </u>	IEC 60335-1		are are
Clause	Requirement – Test	Result – Remark	Verdict
5	GENERAL CONDITIONS FOR THE TESTS	MULLE MALLE MAILE	P
MALTER	Tests performed according to Clause 5, e.g. nature of supply, sequence of testing, etc.	WIEL WILLER MULTER	nited unit P
6 (c) (CLASSIFICATION		et Jep
6.1	Protection against electric shock: Class 0, 0I, I, II.	Class II	Р
WILEY	For a class III construction with a detachable power supply part the appliance is classified according to the detachable power supply part	the tex tex	N/A
6.2	Protection against harmful ingress of water	IPX0	N/A
7.50	MARKING AND INSTRUCTIONS	TEX TEX STER S	LIFE MILLE
7.1	Rated voltage or voltage range (V)	See marking label	P
Le Mill	Symbol for nature of supply, or:	See marking label	Pur Bur
الحرير الم	Rated frequency (Hz)	See marking label	L P
with	Rated power input (W), or:	CLIEB WILLE WHILE	N/A
At .	Rated current (A):	See marking label	P.
² 102 1	Manufacturer's or responsible vendor's name, trademark or identification mark	See page 1	Р
True Mus	Model or type reference	See pages 4-5	P.V
et et	Symbol IEC 60417-5172, for class II appliances	See marking label	F OF P
an.	IP number, other than IPX0:	IPX0	N/A
WALTER	Symbol IEC 60417-5180, for class III appliances, unless	SLIEK BLIEK MALTER	N/A
zet-	the appliance is operated by batteries only, or	201 2	N/A
11 M	for appliances powered by rechargeable batteries recharged in the appliance	WILL MILL MULL M	N/A
TILE AND	Symbol IEC 60417-5018, for class II and class III appliances incorporating a functional earth	TER WHITE WHITE WHI	N/A
White	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	MULTER WALTER WHITE	N/A
7.2	Warning for stationary appliances for multiple supply	at the left .	N/A
	Warning placed in vicinity of terminal cover	ITE AND AND AND	N/A
7.3	Range of rated values marked with the lower and upper limits separated by a hyphen	100-240V	PINI PINI
MALTER	Different rated values marked with the values separated by an oblique stroke	- ARK STER STER	N/A

	IEC 60335-1		
Clause	Requirement – Test	Result – Remark	Verdict
7.4	Appliances adjustable for different rated voltages or rated frequencies, the voltage or the frequency setting is clearly discernible	No adjustable device	N/A
itek _w ni	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	LIEX MULTER MULTER WILLER	N/A
7.5	Appliances with more than one rated voltage or one or more rated voltage ranges, marked with rated input or rated current for each rated voltage or range, unless	ALTER MILIER WHITE WHITE	PIL
NLTEX N	the power input or current are related to the arithmetic mean value of the rated voltage range	THE THE LIFE BUTTER	N/A
TEH WIT	Relation between marking for upper and lower limits of rated power input or rated current and voltage is clear	tex writex writex writex	TEK P
7.6	Correct symbols used	. " at at a	+ P
ZIL.	Symbol for nature of supply placed next to rated voltage	White white white whi	P
ourer 1	Symbol for class II appliances placed unlikely to be confused with other marking	WALLE WALLE WALL WALL	P
ILTE WA	Units of physical quantities and their symbols according to international standardized system	THE WALTER WALTER	NUT P N
7.7 M	Connection diagram fixed to appliances to be connected to more than two supply conductors and appliances for multiple supply, unless	Single supply voltage range	N/A
WELL	correct mode of connection is obvious	THE STIFF MALTE MALL	N/A
7.8	Except for type Z attachment, terminals for connection as follows:	on to the supply mains indicated	N/A
16th 25	- marking of terminals exclusively for the neutral conductor (letter N)	or our our set set	N/A
* 164	- marking of protective earthing terminals (symbol IEC 60417-5019)	whi are are	N/A
M	- marking of functional earthing terminals (symbol IEC 60417-5018)	MULL MULL MULL MIN	N/A
WILL C	- marking not placed on removable parts	SLIER WILL WILLE WHILE	N/A
7.9	Marking or placing of switches which may cause a hazard	No switch used	N/A
7.10	Indications of switches on stationary appliances and controls on all appliances by use of figures, letters or other visual means	No switch used	N/A
- OLIEK	This applies also to switches which are part of a control	THE THE LITTER OUT	N/A

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1, 100	IEC 60335-1	CENT THE STEP STATE	and and
Clause	Requirement – Test	Result – Remark	Verdict
MILITE AND LITE	If figures are used, the OFF position indicated by the figure 0	MULT MULTER MUTEL	N/A
ne n	The figure 0 indicates only OFF position, unless no confusion with the OFF position	MILE MILE MILE MI	N/A
7.11	Indication for direction of adjustment of controls	TEX STEE MITE SMITE	N/A
7.12	Instructions for safe use provided	Refer to user manual	J P
MILE	Details concerning precautions during user maintenance	White white white	un P
MILITE	The instructions state that:	LIEK NITER MITER W	NI P
nitek ant	- 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	NITER WHITER WHITER WHI	EK JATEL NA
t lifet	- children being supervised not to play with the appliance	L of the tot	Р
MUTER A	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	MUTER MUTER AUTER	N/A
NLTER WAY	Instructions for class III appliances state that it must only be supplied at SELV, unless	Et White Whi	N/A
EK WALTE	it is a battery-operated appliance, the battery being charged outside the appliance	E SLIFE WILLIAM STATES	N/A
MITER	For appliances for altitudes exceeding 2 000 m, the maximum altitude is stated	Tex Tex STER	N/A
MULTER ON	The instructions for appliances incorporating a functional earth states that the appliance incorporates an earth connection for functional purposes only	Willies Muries Muries and	N/A
7.12.1	Sufficient details for installation supplied	TER STEEL OUTER MITE	N/A
et watter	For an appliance intended to be permanently connected to the water mains and not connected by a hose-set, this is stated	A MALIER MALIER MALIER	N/A
WALLER	If different rated voltages or different rated frequencies are marked, the instructions state what action to be taken to adjust the appliance	MULTER MULTER MULTER M	N/A
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	Et Whitet Whitet Whites	N/A

IEC 60335-1				
Clause	Requirement – Test	Result – Remark	Verdic	
7.12.3	Insulation of the fixed wiring in contact with parts exceeding 50 K during clause 11; instructions stating that the fixed wiring must be protected	JUNE WILL WILL WILL	N/A	
7.12.4	Instructions for built-in appliances:	14. 14. 14.	N/A	
in wi	- dimensions of space	TER STEE WITE WY	N/A	
et el	- dimensions and position of supporting and fixing	. 4 1	N/A	
AL.	- minimum distances between parts and surrounding structure	White mill with	N/A	
White.	- minimum dimensions of ventilating openings and arrangement	WALTER WALTER WALTER	N/A	
inlifer on	- connection to supply mains and interconnection of separate components	NITER WALTER WALTER	N/A	
TEX WIT	- allow disconnection of the appliance after installation, by accessible plug or a switch in the fixed wiring, unless	TEX WALLEY WALLEY WAL	N/A	
MULTE	a switch complying with 24.3	to the prince on the	N/A	
7.12.5	Replacement cord instructions, type X attachment with a specially prepared cord	Tet Tet Tet	N/A	
	Replacement cord instructions, type Y attachment	are my	N/A	
NITE WAS	Replacement cord instructions, type Z attachment	ALT MANAGEMENT OF	N/A	
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	white while while	N/A	
7.12.7	Instructions for fixed appliances stating how the appliance is to be fixed	WHITE WALTER WALTER	N/A	
7.12.8	Instructions for appliances connected to the water m	ains:	N/A	
	- max. inlet water pressure (Pa):	he me	N/A	
iil whi	- min. inlet water pressure, if necessary (Pa):	TER OLIER WILLER WAS	N/A	
	Instructions concerning new and old hose-sets for appliances connected to the water mains by detachable hose-sets	t whitet whitet white	L N/A	
7.12.9	Instructions specified in 7.12 and from 7.12.1 to 7.12.8 appear together before any other instructions supplied with the appliance	MATER WATER MATER	unite un P	
VILLE MU	These instructions may be supplied with the appliance separately from any functional use booklet	NIFEK WALTER WALTER ON	P.	
TER WALT	They may follow the description of the appliance that identifies parts, or follow the drawings/sketches	EX WITEX WHITEX WITE	EF IN TEL PIN	
MULTER	In addition, instructions are also available in an alternative format such as on a website or on request from the user in a format such as a DVD	Multer Whitek Whitek	WALTE WALTE	

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ant's	IEC 60335-1	CENT OF STEP OUT	and and
Clause	Requirement – Test	Result – Remark	Verdict
WILLER ON	In addition, instructions are also available in an alternative format such as on a website or in a format such as a DVD	White white white	P
7.13	Instructions and other texts in an official language	English	Р
'.14	Markings clearly legible and durable:	LIEK NITER MITER WA	The Part
y NITE	Signal words WARNING, CAUTION, DANGER in uppercase having a height as specified	of the life wife	N/A
LIER	Uppercase letter of the text explaining the signal word not smaller than 1.6 mm	THE THE THE	N/A
ariek mi	Moulded in, engraved, or stamped markings either raised above or have a depth below the surface of at least 0.25 mm, unless	TEX STEX STEX STEX	N/A
ار بار	contrasting colours are used		ı, P
, me	Markings checked by inspection, measurement and rubbing test as specified	THE WILL MILL MILL	NI PI
'.15	Marking on a main part	On body	Unit uP
CLIER .	Marking clearly discernible from the outside, if necessary after removal of a cover	Tet Tet Tet	NATER SPATE
TEP N	For portable appliances, cover can be removed or opened without a tool	art who will be	N/A
ek unit	For stationary appliances, name, trademark or identification mark and model or type reference visible after installation	The same same	N/A
MILITER	For fixed appliances, name, trademark or identification mark and model or type reference visible after installation according to the instructions	NATER AND THE MANAGER	N/A
vek a	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	NATER WALTER WALTER W	N/A
F '94.	The symbol IEC 60417-5018 placed next to the symbol IEC 60417-5172 or IEC 60417-5180	The mile mile one	N/A
7.16	Marking of a possible replaceable thermal link or fuse link clearly visible with regard to replacing the link	yntie white white	N/A
21, 1	PROTECTION AGAINST ACCESS TO LIVE PARTS	MULL MULL MULL	III. b
.1	Adequate protection against accidental contact with live parts	TIEK WITER WITER ON	ITE MIT P
3.1.1 NO. CO.	Requirement applies for all positions, detachable parts removed	et sitet mitet mit	EF TEF P
MITER	Lamps behind a detachable cover not removed, if conditions met	TEN LIFE STER	N/A
, Clift	Insertion or removal of lamps, protection against contact with live parts of the lamp cap	M. M. M.	N/A

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1. 160	IEC 60335-1		W. ar
Clause	Requirement – Test	Result – Remark	Verdict
VIII LIKE	Use of test probe B of IEC 61032, with a force not exceeding 1 N: no contact with live parts	White Market Market	Р
me n	Use of test probe B of IEC 61032 through openings, with a force of 20N: no contact with live parts	Merter Meriter Meriter Merit	Whi P
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	TEX WHITE WHITE WHITE	y Ex prif
WALTER	Test probe 13 also applied through openings in earthed metal enclosures having a non-conductive coating: no contact with live parts	NUTER MUTER MUTER MUTE	N/A
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		N/A
it (lit	For a single switching action obtained by a switching device, requirements as specified	MUT AUT AU	N/A
WALTER V	For appliances with a supply cord and without a switching device, the single switching action may be obtained by the withdrawal of the plug from a socket-outlet	White white white white	N/A
8.1.4	Accessible part not considered live if:	The let	Р
CF	- safety extra-low a.c. voltage: peak value not exceeding 42.4 V	The same same	N/A
. Mr.	- safety extra-low d.c. voltage: not exceeding 42.4 V	Max. 30.02V d.c.	Р
NALTEK.	- or separated from live parts by protective impedance	ties stres miles and	F PER
WITEK A	If protective impedance: d.c. current not exceeding 2 mA, and	THE THE STATE OF THE	N/A
	a.c. peak value not exceeding 0.7 mA	Max. 0.19mA	Р
The Auto	- for peak values over 42.4 V up to and including 450 V, capacitance not exceeding 0.1 μF	TEK WILLER WILLER WILLER	N/A
WALTER	- for peak values over 450 V up to and including 15 kV, discharge not exceeding 45 μC	t one ret water out the ou	N/A
WALTER	- for peak values over 15kV, the energy in the discharge not exceeding 350 mJ	STIFF WILLS SPITER WILL	N/A
8.1.5	Live parts protected at least by basic insulation before	re installation or assembly:	N/A
ive an	- built-in appliances	ULIE WALLE WALL MALL	N/A
TEN JE	- fixed appliances	at at at set	N/A
11/2	- appliances delivered in separate units	anti mit mit 1	N/A

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	IEC 60335-1		
Clause	Requirement – Test	Result – Remark	Verdict
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	MILIER WHITER WHITER WA	P
	Only possible to touch parts separated from live parts by double or reinforced insulation	THE WALLE WALL WALL	N Pu
9 , , ,	STARTING OF MOTOR-OPERATED APPLIANCES	EX STEX STEE SPITE	N/A
MITER	Requirements and tests are specified in part 2 when necessary	Tet Jet Jet	N/A
10	POWER INPUT AND CURRENT	The Me in	Р
10.1	Power input at normal operating temperature, rated voltage and normal operation not deviating from rated power input by more than shown in table 1	ALTER WALTER WALTE WAS	N/A
y whitek	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	MULL MULL MULL	N/A
NLTEK WA	Otherwise the power input is the arithmetic mean value	et John Tet mil	N/A
	Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless	E WALTE WALTER	N/A
MULTER	the rated power input is related to the arithmetic mean value	MITER WALTER WALTER	N/A
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)	P
TE WILLEY WALTER	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		N/A
MULL	Otherwise the current is the arithmetic mean value	WILL MALLE MALLE	N/A
nliek w	Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless	STEK WILLER WILLER	EF MIT P
IER WALT	the rated current is related to the arithmetic mean value of the range	EX WILLER MATTER	N/A
11	HEATING	e at at at	P.
11.1	No excessive temperatures in normal use	With Aug Aug !	Р

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Clause	Requirement – Test	Result – Remark	Verdic
Clause	requirement – rest	Nesult – Nemark	Verdic
11.2	The appliance is held, placed or fixed in position as described:	Placed in the test corner as specified	Р
11.3	Temperature rises, other than of windings, determined by thermocouples	By thermocouples	Р
in mur	Temperature rises of windings determined by resistance method, unless	LIER MALTER MALTE MALTE	N/A
MALLE	the windings makes it difficult to make the necessary connections	A MUNITER MULTER MULTER ON	Р
11.4	Heating appliances operated under normal operation at 1.15 times rated power input (W):	THE MALTER MALTER WALE	N/A
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)	WILL P.
11.6	Combined appliances operated under normal operation at most unfavourable voltage between 0.94 and 1.06 times rated voltage (V)	fex unites unites unites o	N/A
11.7	Operation duration corresponding to the most unfavourable conditions of normal use	White white white wh	Р
11.8	Temperature rises monitored continuously and not exceeding the values in Table 3	(see appended table)	W P
NLTER WAY	If the temperature rise of a motor winding exceeds the value of Table 3, or	Et Whitet whiteh	N/A
iek walte	if there is doubt with regard to classification of insulation,	er it milit miller av	N/A
	tests of Annex C are carried out	10 Th	N/A
Mr.	Sealing compound does not flow out	OLITER WALTER WALL WALL	N/A
Zet-	Protective devices do not operate, except	1 x x x x	Р
mer m	components in protective electronic circuits tested for the number of cycles specified in 24.1.4	With Mary Mary Mary	N/A
13	LEAKAGE CURRENT AND ELECTRIC STRENGTH TEMPERATURE	AT OPERATING	P
13.1	Leakage current not excessive and electric strength adequate	White write white w	Р
WALTER	Heating appliances operated at 1.15 times the rated power input (W)	Whitek whitek whitek white	N/A
NLTEK WY	Motor-operated appliances and combined appliances supplied at 1.06 times the rated voltage (V):	(see appended table)	P
TE WALTE	Protective impedance and radio interference filters disconnected before carrying out the tests	EX MULTER MULTER MULTER W	Р
13.2	The leakage current is measured by means of the circuit described in Figure 4 of IEC 60990:1999	THE NITES MITTER WAS	Pie

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				1	7
	4	1	V	A	9
N.		7	V		

J. W.	IEC 60335-1	the the site of	ant, who	
Clause	Requirement – Test	Result – Remark	Verdict	
MILIER N	For class 0I appliances and class I appliances, except parts of class II construction, C may be replaced by a low impedance ammeter	White white white	N/A	
,	Leakage current measurements:	(see appended table)	Р	
13.3	The appliance is disconnected from the supply	TEX NITER MITE MITE	y Pur	
+ 16	Electric strength tests according to Table 4:	(see appended table)	P	
and	No breakdown during the tests	White white white	JI P	
14	TRANSIENT OVERVOLTAGES	t it it	N/A	
The s	Appliances withstand the transient over-voltages to which they may be subjected	white mer me w	N/A	
I ^{res} al	Clearances having a value less than specified in table 16 subjected to an impulse voltage test, the test voltage specified in table 6 :	NUTE WHITE WALL WALL	N/A	
70,	No flashover during the test, unless	in my my	N/A	
WALTER	of functional insulation if the appliance complies with Clause 19 with the clearance short-circuited	MILITER WALTER WALTER	N/A	
15	MOISTURE RESISTANCE			
15.1	Enclosure provides the degree of moisture protection according to classification of the appliance	unit was variet mis	N/A	
EK WALTE	Compliance checked as specified in 15.1.1, taking into account 15.1.2, followed by the electric strength test of 16.3	antit while while	N/A	
MALTEX	No trace of water on insulation which can result in a reduction of clearances and creepage distances below values specified in clause 29	WALTER WALTER WALTER	N/A	
15.1.1	Appliances, other than IPX0, subjected to tests as specified in IEC 60529	IPX0	N/A	
ITEK MILI	Water valves containing live parts in external hoses for connection of an appliance to the water mains tested as specified for IPX7 appliances	TEX WILLEY WHITE WHITE	N/A	
15.1.2	Hand-held appliance turned continuously through the most unfavourable positions during the test	WHITE WALTER WALTE	N/A	
WALTER	Built-in appliances installed according to the instructions	WALTER WALTER WALTER W	N/A	
VILLER AN	Appliances placed or used on the floor or table placed on a horizontal unperforated support	LIER BLIEF WHIER WHI	N/A	
SEK WALT	Appliances normally fixed to a wall and appliances with pins for insertion into socket-outlets are mounted on a wooden board	EX UNITER WHITEK WHITEK	N/A	
WALTER	For IPX3 appliances, the base of wall mounted appliances is placed at the same level as the pivot axis of the oscillating tube	WALTER WALTER WALTER	N/A	

	IEC 60335-1		
Clause	Requirement – Test	Result – Remark	Verdic
MITEL N	For IPX4 appliances, the horizontal centre line of the appliance is aligned with the pivot axis of the oscillating tube, and	MILITA MILITARY	N/A
itek _w ni	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	TEX MUTER WHITEK MA	N/A
Mrth	Wall-mounted appliances, take into account the distance to the floor stated in the instructions	White write white	N/A
White.	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	Whitek whitek whitek	N/A
TEK WALT	for IPX4 appliances, the movement of the tube is limited to two times 90° from the vertical for a period of 5 min	LEK WITER WITER AND	N/A
t water	Appliances with type X attachment fitted with a flexible cord as described	t jiet sliet miet	N/A
NITER.	Detachable parts subjected to the relevant treatment with the main part	et let let	N/A
VILLER MUS	However, if a part has to be removed for user maintenance and a tool is needed, this part is not removed	et white wh	N/A
15.2	Spillage of liquid does not affect the electrical insulation		N/A
LIER	Spillage solution comprising water containing approximately 1 % NaCl and 0.6 % rinsing agent	of the The	N/A
164 20,	Appliances with type X attachment fitted with a flexible cord as described	Must Aug Aug	N/A
ILEK OUT	Appliances incorporating an appliance inlet tested with or without an connector, whichever is most unfavourable	net and and a	N/A
٠. ٦	Detachable parts removed	The In In	N/A
MULT	Overfilling test with additional amount of the solution, over a period of 1 min (I):	MILIER WALTER WALTE	N/A
WALTER	The appliance withstands the electric strength test of 16.3	MILIER WHITER WHITER	N/A
NITEK W	No trace of water on insulation that can result in a reduction of clearances and creepage distances below values specified in clause 29	NITER MUTEL MUTER AN	N/A
15.3	Appliances proof against humid conditions	et jet sjet mi	P
t SEK	Checked by test Cab: Damp heat steady state in IEC 60068-2-78	M W	P

Ρ

Detachable parts removed and subjected, if necessary, to the humidity test with the main part

,,,	o.: WTX22X09184386S Page 16 of 115		A. C.
	IEC 60335-1		. av.
Re	equirement – Test	Result – Remark	Verdic
Нι	umidity test for 48 h in a humidity cabinet	25°C, 93% R.H.	Р
	eassembly of those parts that may have been emoved	OUTER WILLER WILLER	N/A
Th	he appliance withstands the tests of clause 16	a at at at	√P .
LE	EAKAGE CURRENT AND ELECTRIC STRENGTH	The wife mer me a	Р
	eakage current not excessive and electric strength dequate	A STRIFE WILLER WALTER WAL	P
	rotective impedance disconnected from live parts efore carrying out the tests	The street south	PER
	ests carried out at room temperature and not onnected to the supply	THE THE LIFE NITHER	P.
	ingle-phase appliances: test voltage 1.06 times ated voltage (V)	(see appended table)	P
	hree-phase appliances: test voltage 1.06 times ated voltage divided by $\sqrt{3}$ (V):	the sure of the sure of	N/A
Le	eakage current measurements:	(see appended table)	Р
Lir	imit values doubled if:	at the test test	N/A
- a	all controls have an off position in all poles, or	mure mure mure and	N/A
	the appliance has no control other than a thermal ut-out, or	Et Millet Millet	N/A
	all thermostats, temperature limiters and energy egulators do not have an off position, or	er wife milit whitek wh	N/A
- tl	the appliance has radio interference filters	The state of	N/A
	Ith the radio interference filters disconnected, the eakage current do not exceed limits specified:	white white whit will	N/A
Ele	lectric strength tests according to Table 7:	(see appended table)	P .
inl	est voltage applied between the supply cord and let bushing and cord guard and cord anchorage as pecified	TEX WATER WHITER WILLER W	N/A
No	o breakdown during the tests	t let let set si	P
0\	VERLOAD PROTECTION OF TRANSFORMERS	AND ASSOCIATED CIRCUITS	Р
as	o excessive temperatures in transformer or ssociated circuits in event of short-circuits likely to ccur in normal use	(see appended table)	Р
vo	ppliance supplied with 1.06 or 0.94 times rated oltage under the most unfavourable short-circuit or verload likely to occur in normal use (V)	1.06x240V=254.4V	P
Ва	asic insulation is not short-circuited	e mure mure mure m	Р
sa	emperature rise of insulation of the conductors of afety extra-low voltage circuits not exceeding the	WALTER WALTER WALTER	P
sa		WALTER WALTER WALTER WALT	

Clause	IEC 60335-1		
Jiause		Result – Remark	Verdict
	Requirement – Test	Nesult - Nelliaik	veruici
W. Ek	Temperature of the winding not exceeding the value specified in table 8,	MULL MULL MULL M	P III
ing w	However, limits do not apply to fail-safe transformers complying with sub-clause 15.5 of IEC 61558-1	INCLE WALL MALL MA	N/A
18	ENDURANCE	ITER ALTER WITE WALTE	N/A
ek antië	Requirements and tests are specified in part 2 when necessary	at the tiest number	N/A
19	ABNORMAL OPERATION	24, 24, 26,	P
19.1	The risk of fire, mechanical damage or electric shock under abnormal or careless operation obviated	Whitek whitek whiteh w	H TH
174 V	Electronic circuits so designed and applied that a fault will not render the appliance unsafe:	(see appended table)	Р
ane	Appliances incorporating heating elements subjected to the tests of 19.2 and 19.3, and	tek white white with	N/A
MUTIL	if the appliance also has a control that limit the temperature during clause 11 it is subjected to the test of 19.4, and	MULTER WHITER WHITER	N/A
are a	if applicable, to the test of 19.5	write while white and	N/A
TEK MU	Appliances incorporating PTC heating elements are also subjected to the test of 19.6	Et MITEL MILIT	N/A
EK NALTE	Appliances incorporating motors subjected to the tests of 19.7 to 19.10, as applicable	The lift of the	N/A
WALTER	Appliances incorporating electronic circuits subjected to the tests of 19.11 and 19.12, as applicable	WILLER MILIER WATER ON	P
inlife# ov	Appliances incorporating contactors or relays subjected to the test of 19.14, being carried out before the tests of 19.11	MITER WHITER WATER WAT	N/A
TER WIL	Appliances incorporating voltage selector switches subjected to the test of 19.15	TEE WALTER WALTER WALTER	N/A
k Walie	Unless otherwise specified, the tests are continued until a non-self-resetting thermal cut-out operates, or	E NITER WITER WHITER	N/A
LEX.	until steady conditions are established	1	Part Part
WAL V	If a heating element or intentionally weak part becomes open-circuited, the relevant test is repeated on a second sample	unite white white wh	N/A
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):	et airet miret aniret	N/A
19.3	Test of 19.2 repeated; test voltage (V), power input of 1.24 times rated power input (W):	THE THE STEEL	N/A
19.4	Test conditions as in cl. 11, any control limiting the temperature during tests of cl. 11 short-circuited	And An An	N/A

I WOULD	IEC 60335-1	let let liet al	EL WILL WA
Clause	Requirement – Test	Result – Remark	Verdic
19.5	Test of 19.4 repeated on Class 0I and I appliances with tubular sheathed or embedded heating elements. No short-circuiting, but one end of the element connected to the elements sheath	Whitek Whitek Whitek	N/A
iter mi	The test repeated with reversed polarity and the other end of the heating element connected to the sheath	TEX WILLER WILLER ON	N/A
MALTER	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	White white white	N/A
19.6	Appliances with PTC heating elements tested at rated voltage, establishing steady conditions	TEX STEX SUTEX	N/A
	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)	EX WILLEY WILLEY WILLEY THE WILLEY WILLEY	N/A
19.7	Stalling test by locking the rotor if the locked rotor torque is smaller than the full load torque, or	THE LIET OUTER	N/A
*	locking moving parts of other appliances	41 41	N/A
in m	Locked rotor, capacitors open-circuited one at a time	THE SINITE WE	N/A
EK WALTE	Test repeated with capacitors short-circuited one at a time, unless		N/A
	the capacitor is of class S2 or S3 of IEC 60252-1	Mr. M. A.	N/A
WALT	Appliances with timer or programmer supplied with rated voltage for each of the tests, for a period equal to the maximum period allowed:	White white white	N/A
TEK MIT	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	nick whilek whilek whi	N/A
y vinite	Other appliances supplied with rated voltage for a period as specified	t milet mairet waire	N/A
MITER	Winding temperatures not exceeding values specified in Table 8:	TER WIER WILL	N/A
19.8	Multi-phase motors operated at rated voltage with one phase disconnected	in in the	N/A
19.9	Running overload test on appliances incorporating motors intended to be remotely or automatically controlled or liable to be operated continuously	et with an in	N/A
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	- Milet Milet Milet	N/A

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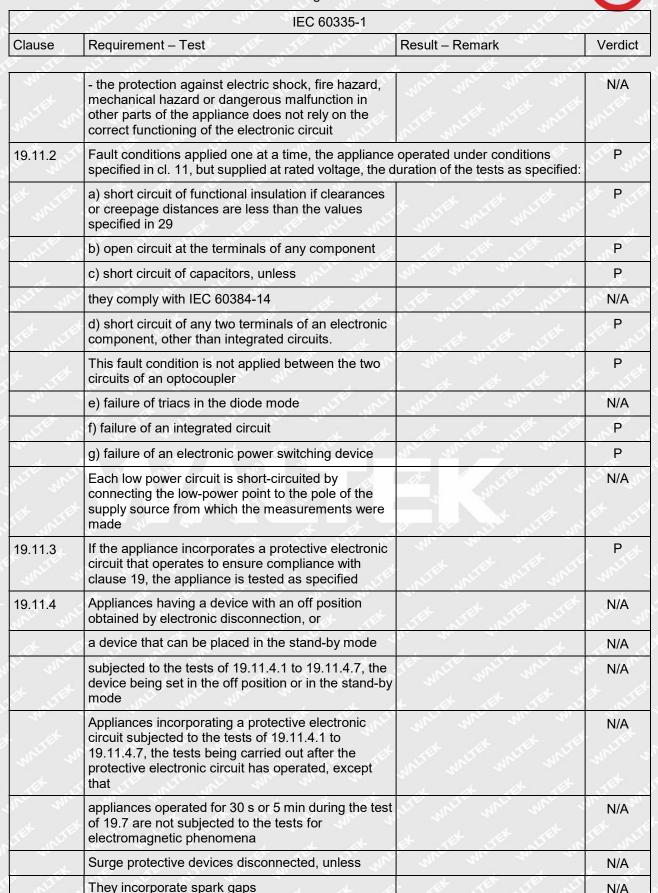


		IEC 60335-1	
Clause	Requirement – Test	Result – Remark	Verdict

Clause	Requirement – rest	ait – Kemark	Verdict
	all will all the sale and	at the set of	
Can.	Winding temperatures not exceeding values as specified	appended table)	N/A
19.10	Series motor operated at 1.3 times rated voltage for 1 min (V)	MULLE MULL MULL	N/A
ill whi	During the test, parts not being ejected from the appliance	WALTER WALTE WALTE OF	N/A
19.11	Electronic circuits, compliance checked by evaluation of the fault conditions specified in 19.11.2 for all circuits or parts of circuits, unless	RITER WHITER WHITER WAS	P
	they comply with the conditions specified in 19.11.1	ier white white whi	N/A
UNITEK WY	Appliances incorporating an electronic circuit that relies upon a programmable component to function correctly, subjected to the test of 19.11.4.8, unless	whilet whilet whilet.	N/A
ITEL MITE	restarting does not result in a hazard	TEX STEX STER O	N/A
et white!	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	TEK MULTER MULTER MULT	N/A
White W	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	et whitet white white	WA P
4 0	During and after each test the following is checked:	2 1 1 2 2	Д Р
MULL	- the temperature of the windings do not exceed the values specified in table 8	With Mulin Mulin Au.	Р
WALTE.	- the appliance complies with the conditions specified in 19.13	TEX MULTER MULTER MULTER	P
NUTTER W	- any current flowing through protective impedance not exceeding the limits specified in 8.1.4	t united outsited outsited	ntiP y
LIEK WALI	If a conductor of a printed board becomes open-circuited, t to have withstood the particular test, provided both of the met:		N/A
WALTER	- the base material of the printed circuit board withstands the test of Annex E	LIFE WALTER WALTER WAL	N/A
WALLEY 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	ex unifer unifer unifer	N/A
19.11.1	Fault conditions a) to g) in 19.11.2 are not applied to circu meeting both of the following conditions:	its or parts of circuits	N/A
y TEX	- 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	unite while when wh	N/A

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Page	20	of	1	15	



THE WITE	IEC 60335-1	at all other	WITE WIT
Clause	Requirement – Test	Result – Remark	Verdict
19.11.4.1	The appliance is subjected to electrostatic discharges in accordance with IEC 61000-4-2, test level 4	While While White Will	N/A
19.11.4.2	The appliance is subjected to radiated fields in accordance with IEC 61000-4-3, at frequency ranges specified	TEX WITER MUTER MUTER	N/A
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	* WILLER WHITER WHITER W	N/A
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	WILLER WILLER WALTER WAS	N/A
ine an	An open circuit test voltage of 2 kV is applicable for the line-to-line coupling mode	ALTER WALL WALL WALL	N/A
ITE WALTE	An open circuit test voltage of 4 kV is applicable for the line-to-earth coupling	EX UNITED WATER WALTER	N/A
WALTER	Earthed heating elements in class I appliances disconnected	Milet Whitek Whitek W	N/A
19.11.4.5	The appliance is subjected to injected currents in accordance with IEC 61000-4-6, test level 3	Lifet Street Miles Mile	N/A
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	Et Muliet Muliet	N/A
iek white L	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	EN WALTER WALTER WALTER	N/A
19.11.4.7	The appliance is subjected to mains signals in accordance with IEC 61000-4-13, test level class 2	WALTER WALTER WALTER WAS	N/A
19.11.4.8	The appliance is supplied at rated voltage and operated under normal operation. After 60s the power supply is reduced to a level such that the appliance ceases to respond or parts controlled by the programmable component cease to operate	NATER WHITER WHITER WHITE	N/A
et Jet	The appliance continues to operate normally, or	t at let let	N/A
20	requires a manual operation to restart	mer are are a	N/A
19.12	If the safety of the appliance for any of the fault conditions specified in 19.11.2 depends on the operation of a miniature fuse-link complying with IEC 60127, the test is repeated, measuring the current flowing through the fuse-link; measured current (A); rated current of the fuse-link (A)	MALIER WALTER WALTER WALTER	P
19.13	During the tests the appliance does not emit flames, molten metal, poisonous or ignitable gas in hazardous amounts	ex unifer write write.	P

Р

(see appended table)

Temperature rises not exceeding the values shown in Table 9:

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IEC 60335-1			
Clause	Requirement – Test	Result – Remark	Verdict
· Charles	Compliance with clause 8 not impaired	NEIT WATER THE THE	Р
NATTER W	If the appliance can still be operated it complies with 20.2	NITES WILLES WHITES	N/A
LIEK WAL	Insulation, other than of class III appliances or class contain live parts, withstands the electric strength tesspecified in table 4:		ALTE P
ek nije	- basic insulation (V):	1000	P
	- supplementary insulation (V):	1750	Р
WILLE	- reinforced insulation (V):	3000	Р
INLIEK ANI	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	NUTER WHITER WHITER	N/A
t liet	The appliance does not undergo a dangerous malfunction, and	the the test of	Р
7.E.J.	no failure of protective electronic circuits, if the appliance is still operable	Must me an an	Р
unio u	Appliances tested with an electronic switch in the off mode:	position, or in the stand-by	N/A
VELLE SALE	- do not become operational, or	THE CONTRACTOR OF	N/A
ek waite	- if they become operational, do not result in a dangerous malfunction during or after the tests of 19.11.4	Sunite multir multer wh	N/A
WALTER	If the appliance contains lids or doors that are control one of the interlocks may be released provided that:		N/A
UNLIEK WI	- the lid or door does not move automatically to an open position when the interlock is released, and	the still still spilet	N/A
ITEK MI	- the appliance does not start after the cycle in which the interlock was released	et let set siet siet.	N/A
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	t writes writes writes with	N/A
NALTEX 1	For a relay or contactor with more than one contact, all contacts are short-circuited at the same time	THE STEE STEEL SPITE	N/A
NLTEK WY	A relay or contactor operating only to ensure the appliance is energized for normal use is not short-circuited	THE MILES MILIES WILLES	N/A
IEK WALTE	If more than one relay or contactor operates in clause 11, they are short-circuited in turn	Et alifet milet uniter un	N/A
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	- NITE WILLER WILLER	N/A

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1000	IEC 60335-1		2000 -010
Clause	Requirement – Test	Result – Remark	Verdic
20	STABILITY AND MECHANICAL HAZARDS	INLIER WALTER WATER	Р
20.1	Appliances having adequate stability	to the state	A P
STEK MY	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	ITEX MILIER WHITEK WHITE	P
er Write	Tilting test repeated on appliances with heating elements, angle of inclination increased to 15°	MALTER WALTER WALTER	N/A
White.	Possible heating test in overturned position; temperature rise does not exceed values shown in table 9	MILIER WHITER WHITER W	N/A
20.2	Moving parts adequately arranged or enclosed as to provide protection against personal injury	No moving part	N/A
IIE WALT	Protective enclosures, guards and similar parts are non-detachable, and	LEK MUTTER MUTTER MUTTE	N/A
£	have adequate mechanical strength	t let let stet	N/A
10th	Enclosures that can be opened by overriding an interlock are considered to be detachable parts	MUST AND THE	N/A
Whi V	Self-resetting thermal cut-outs and overcurrent protective devices not causing a hazard by unexpected closure	with mill man my	N/A
	Not possible to touch dangerous moving parts with the test probe described	THE THE	N/A
21	MECHANICAL STRENGTH	ANTE ME ME	P
21.1	Appliance has adequate mechanical strength and is constructed as to withstand rough handling	MITER WALTER WALTER	ALTE WIPE
oneitek V	Checked by applying 3 blows to every point of the enclosure like to be weak, in accordance with test Ehb of IEC 60068-2-75, spring hammer test, with an impact energy of 0.5 J.	(see appended table)	P NOTE
. Ju	The appliance shows no damage impairing compliance with this standard, and	ar min min min	Р
"ALL	compliance with 8.1, 15.1 and clause 29 not impaired	MILLE MALLE WALL	Р
MULTE.	If doubt, supplementary or reinforced insulation subjected to the electric strength test of 16.3	WALTER WALTER WALTER W	N/A
NITER W	If necessary, repetition of groups of three blows on a new sample	stiek muitek muitek mui	N/A
21.2	Accessible parts of solid insulation having strength to prevent penetration by sharp implements	et auret antret antret	WALLEY PAR
y whiteh	Test not applicable if the thickness of supplementary insulation is at least 1 mm and reinforced insulation at least 2 mm	MUTEL WHITEK WHITEK	UNLIFE WALTE

	IEC 60335-1		
Clause	Requirement – Test	Result – Remark	Verdict
Milk	The insulation is tested as specified, and does withstand the electric strength test of 16.3	MULLER MULLER MULLER MULLER	N/A
22	CONSTRUCTION	CLITER WITE WALL WALL	n P
22.1	Appliance marked with the first numeral of the IP system, relevant requirements of IEC 60529 are fulfilled	IPX0	N/A
22.2	Stationary appliance: means to ensure all-pole disco provided:	nnection from the supply being	N/A
TEN	- a supply cord fitted with a plug, or	Not stationary appliance	N/A
20,	- a switch complying with 24.3, or	Mer Mer Mer Mer	N/A
uniter ou	- a statement in the instruction sheet that a disconnection incorporated in the fixed wiring is to be provided, or	NIFEK WHITEK WHITEK	N/A
CL ME	- an appliance inlet	THE DITTER SHITE WHITE W	N/A
ek andirek	Singe-pole switches and single-pole protective devices for the disconnection of heating elements in single-phase, permanently connected class 0I and class I appliances, connected to the phase conductor	Whitek whitek whitek whitek	N/A
22.3	Appliance provided with pins: no undue strain on socket-outlets	For direct plug-in models	P
	Applied torque not exceeding 0.25 Nm	Max. 0.12Nm	Р
SEA WALTER	Pull force of 50 N 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 1 mm	TEK STEK STEK MITER ANTE	PAL
alifest .	Each pin subjected to a torque of 0.4 Nm; the pins are not rotating, unless	THE THE THE STREET	P.
sir sir Ket si	rotating does not impair compliance with this standard	income and an an	N/A
22.4	Appliance for heating liquids and appliance causing undue vibration not provided with pins for insertion into socket-outlets	the more more and and and and	N/A
22.5	No risk of electric shock when touching pins, for appliances having a capacitor with rated capacitance equal to or greater than 0.1µF, the appliance being disconnected from the supply at the instant of voltage peak	MATER MATER MATER MATER	PEK WILTEK
1, 27,	Voltage not exceeding 34 V (V)	Max. 28V measured	Р
TER MILT	If compliance relies on the operation of an electronic	No such electronic circuit	N/A

circuit, the electromagnetic phenomena tests of 19.11.4.3 and 19.11.4.4 are applied

The discharge test is then repeated three times, voltage not exceeding 34 V (V).....

N/A

	IEC 60335-1		
Clause	Requirement – Test	Result – Remark	Verdict
22.6	Electrical insulation not affected by condensing water or leaking liquid	MULL MULL MULL AND	N/A
Wr. M	Electrical insulation of Class II appliances not affected in case of a hose rupture or seal leak	Marte Marie Marie War	N/A
ize wi	In case of doubt, test as described	THE STEE WITE SMITE W	N/A
22.7	Adequate safeguards against the risk of excessive pressure in appliances provided with steam-producing devices	A MULTER WALTER WALTER WAL	N/A
22.8	Electrical connections not subject to pulling during cleaning of compartments to which access can be gained without the aid of a tool, and that are likely to be cleaned in normal use	WHITEK WHITEK WHITEK	N/A
22.9	Insulation, internal wiring, windings, commutators and slip rings not exposed to oil, grease or similar substances, unless	No oil, grease or similar substances	P
t st	the substance has adequate insulating properties	70 T X	N/A
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:	No such device	N/A
NLTEK WA	- a non-self-resetting thermal cut-out is required by the standard, and	tet North Miter	N/A
Et NITE	- a voltage maintained non-self-resetting thermal cut-out is used to meet it	The lift is	N/A
- (E#	Non-self-resetting thermal motor protectors have a trip-free action, unless	and any any any	N/A
The .	they are voltage maintained	WHILE AND AND AND AND	N/A
WALTER ON	Reset buttons of non-self-resetting controls so located or protected that accidental resetting is unlikely	MITER WHITER WHITER	N/A
22.11	Reliable fixing of non-detachable parts that provide the necessary degree of protection against electric shock, moisture or contact with moving parts	TEX WRITER WHITE W	P
The City	Obvious locked position of snap-in devices used for fixing such parts	Marie Marie Marie Marie	N/A
MUTER OF	No deterioration of the fixing properties of snap-in devices used in parts that are likely to be removed during installation or servicing	White white white white	N/A
. 41,	Tests as described	50N, 10s applied on enclosure	Р
22.12	Handles, knobs etc. fixed in a reliable manner, if loosening result in a hazard	EX MILIER MILIER WHITER WA	N/A
WALTER	Removing or fixing in wrong position of handles, knobs etc. indicating position of switches or similar components not possible, if resulting in a hazard	NUTEK WILLER WILLER WILL	N/A

Reference	e No.: WTX22X09184386S	Page 26 of 115		
IER INI	the write with with any	IEC 60335-1	et let let al	et intre with
Clause	Requirement – Test	ALTER WALL WA	Result – Remark	Verdict
Ch Cle	A choking hazard does not an	nly to appliances for	CALLET MITER NATER	NI/A

Clause	Requirement – Test	Result – Remark	Verdic
NI LIVE	A choking hazard does not apply to appliances for commercial use	untit united united united	N/A
one w	Axial force 15 N applied to parts, the shape being so that an axial pull is unlikely to be applied	Marie Marie Marie Marie	N/A
ite mi	Axial force 30 N applied to parts, the shape being so that an axial pull is likely to be applied	LIER MULTER MULTER MULTER	N/A
White	If the part is removed and can be contained within the small parts cylinder, it is considered to be a choking hazard	A MULTER MULTER MULTER ON	N/A
22.13	Unlikely that handles, when gripped as in normal use, make the operators hand touch parts having a temperature rise exceeding the value specified for handles which are held for short periods only	White white white white	N/A
22.14	No ragged or sharp edges creating a hazard for the user in normal use, or during user maintenance	No ragged or sharp edges	II THE P
MUTIER	No exposed pointed ends of self tapping screws etc., liable to be touched by the user in normal use or during user maintenance	unifex whilek whilek wh	T P
22.15	Storage hooks and the like for flexible cords smooth and well rounded	THE SLIET MALER WALE	N/A
22.16	Automatic cord reels cause no undue abrasion or damage to the sheath of the flexible cord, no breakage of conductors strands, no undue wear of contacts	or white white	N/A
in any	Cord reel tested with 6000 operations, as specified	er write outil while w	N/A
WALTER	Electric strength test of 16.3, voltage of 1000 V applied	lifet stifet skifet søkt	N/A
22.17	Spacers not removable from the outside by hand or by means of a screwdriver or a spanner	THE SET SET WITH	N/A
22.18	Current-carrying parts and other metal parts resistant to corrosion	int was sur as	P
22.19	Driving belts not relied upon to provide the required level of insulation, unless	St. Mar. Mar. My.	N/A
in.	constructed to prevent inappropriate replacement	MULLE MULL MULL MU	N/A
22.20	Direct contact between live parts and thermal insulation effectively prevented, unless	THE MUTER WALTER WALT	Р
NLTEK -NI	material used is non-corrosive, non-hygroscopic and non-combustible	THE THE STEE MUTH	JALIT P
22.21	Wood, cotton, silk, ordinary paper and fibrous or hygroscopic material not used as insulation, unless	No such materials used as insulation	P
100	impregnated	The Mr. M. 2	N/A
WILLE	This requirement does not apply to magnesium oxide and mineral ceramic fibres used for the electrical insulation of heating elements	WALTER WALTER WALTER WAL	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
Clause	requirement – rest	Tresuit - Iremain	Verdici
22.22	Appliances not containing asbestos	Not containing asbestos	Р
22.23	Oils containing polychlorinated biphenyl (PCB) not used	Not such parts	IN NOTE P
22.24	Bare heating elements, except in class III appliances or class III constructions that do not contain live parts, adequately supported	TEX WHITEK WHITEK WHITEK	N/A
WALTE	In case of rupture, the heating conductor is unlikely to come in contact with accessible metal parts	MULTER WHITER WHITER	N/A
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	Whitek Whitek Whitek Wh	N/A
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	her white whitek whitek	P
22.27	Parts connected by protective impedance separated by double or reinforced insulation	MUTER WHITER WHITER W	Р
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	unitek unitek unitek uni	N/A
22.29	Class II appliances permanently connected to fixed wiring so constructed that the required degree of access to live parts is maintained after installation	and the surfect	N/A
22.30	Parts serving as supplementary or reinforced insulation fixed so that they cannot be removed without being seriously damaged, or	No parts can be omitted	P
oneitek ou	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	NATER WHITE WHITE WALL	et unip
22.31	Neither clearances nor creepage distances over supplementary and reinforced insulation reduced below values specified in clause 29 as a result of wear	t united whiles whites	P
WILLEY O	Neither clearances nor creepage distances between live parts and accessible parts reduced below values for supplementary insulation if wires, screws etc. become loose		P
22.32	Supplementary and reinforced insulation constructed or protected against pollution so that clearances or creepage distances are not reduced below the values in clause 29	Et united whitet whitet	un TEK uni

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	W
Š	I'E WIT
	Verdict
Š	
	N/A

Clause	Requirement – Test	Result – Remark	Verdict
Clause	Requirement – Test	Nesuit – Nemark	Verdici
WILLEK W	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	JUNITER WHITEK WHITEK	N/A
NITER WAY	Ceramic material not tightly sintered, similar material or beads alone not used as supplementary or reinforced insulation	ITEX WHITEK WHITEK WH	N/A
WILL	Ceramic and similar porous material in which heating conductors are embedded is considered to be basic insulation, not reinforced insulation	MULTER WILLES WILL	N/A
'ny.	Oxygen bomb test at 70°C for 96 h and 16 h at room temperature	White Mile Mile	N/A
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		N/A
X WALTER	unearthed metal parts separated from live parts by basic insulation only	t great named	N/A
	Electrodes not used for heating liquids	70, 20, 20,	N/A-
White and	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	94. 24. 24.	N/A
CET SIGNET	the reinforced insulation consists of at least 3 layers		N/A
MULTER	For class II constructions, conductive liquids which are in contact with live parts, not in direct contact with reinforced insulation, unless	WILLEY WALLEY WALLEY	N/A
TEX.	the reinforced insulation consists of at least 3 layers	A A A	N/A
un vi	An air layer not used as basic or supplementary insulation in a double insulation system if likely to be bridged by leaking liquid	net une une o	N/A
22.34	Shafts of operating knobs, handles, levers etc. not live, unless	t lit lit it	N/A
70,	the shaft is not accessible when the part is removed	Mer Aug Au	N/A
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	Whitek Whitek Whitek	N/A
TEK WALTE	Such parts being of metal, and their shafts or fixings are likely to become live in the event of an insulation fault, they are either adequately covered by insulation material, or their accessible parts are separated from their shafts or fixings by supplementary insulation		N/A

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IEC 60335-1			
Clause	Requirement – Test	Result – Remark	Verdict
WALTER W	This requirement does not apply to handles, levers and knobs on stationary appliances other than those of electrical components, provided they are either reliably connected to an earthing terminal or earthing contact, or separated from live parts by earthed	united whited whited whi	N/A
ities one ex onited	Insulating material covering metal handles, levers and knobs withstand the electric strength test of 16.3 for supplementary insulation	TEX TEX MITER MITER	N/A
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	MULTER WHITER WHITER WA	N/A
ITEK MIT	they are separated from live parts by double or reinforced insulation	et tet tet viet	N/A
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	No such capacitor	N/A
WILLE	the capacitors comply with 22.42	LIEF ALTER MATERIAL	N/A
22.38	Capacitors not connected between the contacts of a thermal cut-out	are little outs	N/A
22.39	Lamp holders used only for the connection of lamps	No lamp holder	N/A
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	white white white	N/A
antifek anti	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	NLIER WHITER WHITER WHITER	N/A
22.41	No components, other than lamps, containing mercury	MALIER WALLE WALLE	n' P
22.42	Protective impedance consisting of at least two separate components	Two Y capacitors used	JIN P
INLIEK WY	Values specified in 8.1.4 not exceeded if any one of the components are short-circuited or open-circuited	See 8.1.4	F WITP W
TEX WILL	Resistors checked by the test of 14.1 a) in IEC 60065	et stret stret milet	N/A
k STEK	Capacitors checked by the tests for class Y capacitors in IEC 60384-14	Approved Y capacitors	P

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, ,,,,	IEC 60335-1		10
Clause	Requirement – Test	Result – Remark	Verdict
22.43	Appliances adjustable for different voltages, accidental changing of the setting of the voltage unlikely to occur	No adjustable device	N/A
22.44	Appliances not having an enclosure that is shaped or decorated like a toy	The appliance is not likely to be treated as a toy	LITENP .IF
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	A MUTER MUTER MUTER MU	P WALL
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	MALIER WHITER WHITE WHITE	N/A
itek wait	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	LEX WHITEK MITTER MITTER ON	N/A
WILL	These requirements are not applicable to software used for functional purpose or compliance with clause 11	WHITE WAITE WALE WALE	N/A
22.47	Appliances connected to the water mains withstand the water pressure expected in normal use.	mile mil my my	N/A
VII. MU	No leakage from any part, including any inlet water hose	Multi Multi	N/A
22.48	Appliances connected to the water mains constructed to prevent backsiphonage of non potable water	MULTE WALLE MULTE WAS	N/A
22.49	For remote operation, the duration of operation is to be set before the appliance can be started, unless	WHITE WALL WALL WALL	N/A
Mr. M	the appliance switches off automatically or can operate continuously without hazard	NITER WAITER WALTER WALE	N/A
22.50	Controls incorporated in the appliance take priority over controls actuated by remote operation	TER WATER WATER WATER OF	N/A
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	WALTER WALTER WALTER	N/A
MULTER	There is a visual indication showing that the appliance is adjusted for remote operation	WALTER WALTER WALTER WALTER	N/A
NLTER WY	These requirements not necessary on appliances that giving rise to a hazard:	t can operate as follows, without	N/A
TEN IT	- continuously, or	at the late late	N/A
71/2	- automatically, or	MUST, MUST, MUST, AND	N/A
r ser	- remotely	- x 1 1 1 1 1	N/A

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7 JUL	IEC 60335-1	it the the start	WILL WALL
Clause	Requirement – Test	Result – Remark	Verdict
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	White white white	N/A
22.53	Class II appliances and class III appliances that incorporate functionally earthed parts have at least double insulation or reinforced insulation between live parts and the functionally earthed parts	TEX MULTER MULTER MU	N/A
22.54	Button cells and batteries designated R1 not accessible without the aid of a tool, unless	H WALTER WALTER WALTE	N/A
WALTER.	the cover of their compartment can only be opened after at least two independent movements have been applied simultaneously	MALIER WALTER WALTER	N/A
22.55	Devices operated to stop the intended function of the appliance, if any, are be distinguished from other manual devices by means of shape, size, surface texture or position	Niter Writer Writer W	N/A
ik Mutiter	The requirement concerning position does not preclude use of a push on push off switch	t light wright wright	N/A
	An indication when the device has been operated is	given by:	N/A
ania a	tactile feedback from the actuator or from the appliance, or	WALLER WHILE WHILE V	N/A
VIIE OV	- reduction in heat output; or	THE THE REAL PROPERTY OF	N/A
4 1	- audible and visible feedback		N/A
22.56	Detachable power supply part provided with the part of class III construction	white white white	N/A
22.57	The properties of non-metallic materials do not degrade from exposure to UV-C radiation, as specified in Annex T	WALTER WALTER WALTER	N/A
الا مالا الاست	This requirement does not apply to glass, ceramics or similar materials	INLIER WALTER WALTER W	N/A
23	INTERNAL WIRING	TER STER WITER ON	Pur
23.1	Wireways smooth and free from sharp edges	10 20	P
Mer	Wires protected against contact with burrs, cooling fins etc.	unite white white	Р
untile on	Wire holes in metal well rounded or provided with bushings	MALTER WALTER WALTER	N/A
	Wiring effectively prevented from coming into contact with moving parts	No moving parts	N/A
23.2	Beads etc. on live wires cannot change their position, and are not resting on sharp edges	Et aliet aniet ani	N/A
	Beads inside flexible metal conduits contained within an insulating sleeve	. Let Stet Stet	N/A

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IEC 60335-1				
Clause	Requirement – Test	Result – Remark	Verdict	
23.3	Electrical connections and internal conductors movable relatively to each other not exposed to undue stress	No movable conductors	N/A	
	Flexible metallic tubes not causing damage to insulation of conductors	of the text the	N/A	
	Open-coil springs not used	or me me m	N/A	
er write	Adequate insulating lining provided inside a coiled spring, the turns of which touch one another	MULTER WALTER WALTER	N/A	
WILLER.	No damage after 10 000 flexings for conductors flexed during normal use or	THE WHITE WHITE WA	N/A	
inliek on	100 flexings for conductors flexed during user maintenance	ITEK SLIEK MITEK MILIT	N/A	
IEK INI	Electric strength test of 16.3, 1000 V between live parts and accessible metal parts	et tet jet nijet	N/A	
t Tet	Not more than 10% of the strands of any conductor broken, and	L of let ret	N/A	
Zu.	not more than 30% for wiring supplying circuits that consume no more than 15W	MULT MULT MILL M	N/A	
23.4	Bare internal wiring sufficiently rigid and fixed	WILL WILL MILL MA	N/A	
23.5	The insulation of internal wiring subjected to the supply mains voltage withstanding the electrical stress likely to occur in normal use	THE MILITER WILLIE	Р	
EK WALTE	Basic insulation electrically equivalent to the basic insulation of cords complying with IEC 60227 or IEC 60245, or	WALTE WALTER	N/A	
UNL.	no breakdown when a voltage of 2 000 V is applied for 15 min between the conductor and metal foil wrapped around the insulation	2000V, 15min No Breakdown	NP	
irek uni	For class II construction, the requirements for supplementary insulation and reinforced insulation apply, except	ne un un un un tel	N/A	
ek strey	that the sheath of a cord complying with IEC 60227 or IEC 60245 may provide supplementary insulation	t at the state	N/A	
TEK	A single layer of internal wiring insulation does not provide reinforced insulation	and any and a	N/A	
23.6	Sleeving used as supplementary insulation on internal wiring retained in position by clamping at both ends, or	unit unit unit un Tet Tet alles alle	N/A	
TEN ST	be such that it can only be removed by breaking or cutting	at the tite tite	N/A	
23.7	The colour combination green/yellow used only for earthing conductors	Class II	N/A	
23.8	Aluminium wires not used for internal wiring	Not used	N _P	

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IEC 60335-1			
Clause	Requirement – Test	Result – Remark	Verdict
23.9	Stranded conductors not consolidated by soldering where they are subjected to contact pressure, unless	Not subject to contact pressure	P
	the contact pressure is provided by spring terminals	no my	N/A
23.10	The insulation and sheath of internal wiring, incorporated in external hoses for the connection of an appliance to the water mains, at least equivalent to that of light polyvinyl chloride sheathed flexible cord (60227 IEC 52)	TER MULTER WHITE MULTER WAS	N/A
24	COMPONENTS	· TEX STEX STEEL SPITE	, P
24.1	Components comply with safety requirements in relevant IEC standards	of the tex	P
1. 2.	List of components:	(see appended table)	Р
TER WALT	Motors not required to comply with IEC 60034-1, they are tested as part of the appliance	LEX MUTER MUTER MUTER ON	N/A
t still	Relays tested as part of the appliance, or	t at let set si	N/A
AEX AEX	alternatively acc. to IEC 60730-1, and meeting the additional requirements in IEC 60335-1	Whit with the tex	N/A
JUPE V	The requirements of Clause 29 apply between live parts of components and accessible parts of the appliance	white white was writed	WA P
EK WILTE	Components can comply with the requirements for clearances and creepage distances for functional insulation in the relevant component standard	and the south states and	FEK P
MULTER	30.2 of this standard apply to parts of non-metallic material in components including parts of non metallic material supporting current-carrying connections	WALTER WALTER WALTER	F Pres
ilek muri	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	D. 100 20	Mu. b
MULIER MULIER	Components that have been previously tested to comply with the resistance to fire requirements in the IEC standard for the relevant component need not be retested provided the specified conditions are met	L Whitely whitely whitely whitely whitely whitely whitely whitely	EK PLT
CLIEK NI	If these conditions are not satisfied, the component is tested as part of the appliance.	TER TER STER STER	MLTEP IN
iest white	Power electronic converter circuits not required to comply with IEC 62477-1, they are tested as part of the appliance	Et nifet mifet mifet	N/A
WALTER	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	WALTER WALTER WALTER	P

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IEC 60335-1				. We
Clause	Requirement – Test	with me	Result – Remark	Verdict
MUTER ON	For components mentioned in 24.1.1 to additional tests specified in the relevan standard are necessary other than thos 24.1.1 to 24.1.9	t component	JOHN JOHN JOHN JOHN JOHN JOHN JOHN JOHN	P MALTER
iter whi	Components not tested and found to conclude the conditions of the conditions occurring in the approximation.	s not marked king, tested	ret ret ret reed	P
MUTER ON	Lampholders and starterholders that hat tested and found to comply with the rel standard, tested as a part of the applia additionally according to the gauging a interchangeability requirements of the standard	evant IEC nce and nd	Whitek whitek whitek whitek	N/A
TEX WALL	No additional tests specified for national standardized plugs such as those detail 60083 or connectors complying with the sheets of IEC 60320-1 and IEC 60309	led in IEC/TR	LEK WHITEK WHITEK W	TEP VIII
24.1.1	Capacitors likely to be permanently subjected to the supply voltage and used for radio interference suppression or for voltage dividing, complying with IEC 60384-14		Approved	VP Whitek
NITEK WA	If the capacitors have to be tested, the according to Annex F	y are tested	et alliet united a	N/A
24.1.2	Transformers in associated switch mod supplies comply with Annex BB of IEC			N/A
- JES	Safety isolating transformers complying 61558-2-6	g with IEC	Must show the the	N/A
TEN TO	If they have to be tested, they are tested according to Annex G		whit will will will	P
24.1.3	Switches complying with IEC 61058-1, the number of cycles of operation being at least 10 000		ALTER WALL WALL WALL	N/A
The write	If they have to be tested, they are tested according to Annex H		THE WATER WATER WATER W	N/A
MALTE	If the switch operates a relay or contactor, the complete switching system is subjected to the test		t whilet whilet while whi	N/A
WALTER O	If the switch only operates a motor staring relay complying with IEC 60730-2-10 with the number of cycles of a least 10 000 as specified, the complete switching system need not be tested		MULTER MULTER MULTER	N/A
24.1.4	Automatic controls comply with IEC 60730-1 with the relevant part 2. The number of cycles of operation being at least:		N/A	
, me	- thermostats:	10 000	er unite mait wait wa	N/A
- JEK	- temperature limiters:	1 000	at the title of	N/A
2/1,	- self-resetting thermal cut-outs:	300	The Mr. Mr. Mr.	N/A

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	IEC 6033	35-1		
Clause	Requirement – Test	y, my	Result – Remark	Verdict
and the	with the the the	+ 20	Color State State	The same
at the	voltage-maintained non-self-resetting thermal cut-outs	1 000	Mun My M	N/A
in in	- other non-self-resetting thermal cut-outs	30	WITER WALLE MALLE	N/A
TEK J	- timers:	3 000	at at at .	N/A
	- energy regulators:	10 000	ric wir and an	N/A
ek walie Walie	The number of cycles for controls operating clause 11 need not be declared, if the applia meets the requirements of this standard what are short-circuited	ance	et tet test	N/A
	Thermal motor protectors are tested in combination with their motor under the conditions specified in Annex D.		Whit will writer	N/A
TEK MITEK	For water valves containing live parts and the incorporated in external hoses for connection appliance to the water mains, the degree of protection provided by enclosures against he ingress of water declared for subclause 6.5. 60730-2-8 shall be IPX7	on of an armful	TEX WHITEX WHITEX WHITE	N/A
WALLER O	Thermal cut-outs of the capillary type complete requirements for type 2.K controls in IEC 60730-2-9		WILLER WILLER	N/A
24.1.5	Appliance couplers complying with IEC 60320-1		Approved	LIFE NET P.W
EF MULTE	However, for class II appliances classified higher than IPX0, the appliance couplers comply with IEC 60320-2-3		White while while	N/A
WALTER	Interconnection couplers complying with IEC 60320-2-2		SLIER WILER WILLER	N/A
24.1.6	Small lamp holders similar to E10 lampholders complying with IEC 60238, the requirements for E10 lampholders being applicable		No lampholders	N/A
24.1.7	If the remote operation of the appliance is via a telecommunication network, the relevant standard for the telecommunication interface circuitry in the appliance is IEC 62151		TEK WILTER WILTER WIL	N/A
24.1.8	The relevant standard for thermal links is IEC 60691		me me me	N/A
My Titer o	Thermal links not complying with IEC 60691 considered to be an intentionally weak part purposes of Clause 19		united united united	N/A
24.1.9	Contactors and relays, other than motor starting relays, tested as part of the appliance		ALTER WALTER WALTER ON	N/A
L MUTER	They are also tested in accordance with Cla of IEC 60730-1, the number of cycles of ope in 24.1.4 selected according to the contactor function in the appliance	erations r or relay	EK Whitek Whitek Whit	N/A
24.2	Appliances not fitted with:	Men	m. m. n.	P

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I will	IEC 60335-1			
Clause	Requirement – Test	Result – Remark	Verdic	
M. T.	- switches, automatic controls or power supplies in flexible cords	while while while	Р	
anci w	- devices causing the protective device in the fixed wiring to operate in the event of a fault in the appliance	With write write a	P JEEK	
et de	- thermal cut-outs that can be reset by soldering, unless	the state	P	
2/10	the solder has a melding point of at least 230 °C	White white whi	N/A	
24.3	Switches intended for all-pole disconnection of stationary appliances are directly connected to the supply terminals and having a contact separation in all poles, providing full disconnection under overvoltage category III conditions	Whitek whitek whitek	N/A	
24.4	Plugs and socket-outlets for extra-low voltage circuits and heating elements, not interchangeable with plugs and socket-outlets listed in IEC/TR 60083 or IEC 60906-1 or with connectors and appliance inlets complying with the standard sheets of IEC 60320-1	TEK MILITEK WILLTER MILITER	N/A	
24.5	Capacitors in auxiliary windings of motors marked with their rated voltage and capacitance and used accordingly	antifek untifek untifek v	N/A	
iek mutie	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	The mile wh	N/A	
24.6	Working voltage of motors connected to the supply mains and having basic insulation that is inadequate for the rated voltage of the appliance, not exceeding 42V		N/A	
NUT W	In addition, the motors are complying with the requirements of Annex I	nite white white w	N/A	
24.7	Detachable hose-sets for connection of appliances to the water mains comply with IEC 61770	TEK WILLER WILLER WILL	N/A	
ER SINCTES	They are supplied with the appliance	t ist ist with	N/A	
WALTER	Appliances intended to be permanently connected to the water mains not connected by a detachable hose-set	TIFE WITER SMITH	N/A	
24.8	Motor running capacitors in appliances for which 30.2.3 is applicable and that are permanently connected in series with a motor winding, not causing a hazard in event of a failure	TITEL MUTER ON	N/A	
Men	One or more of the following conditions are to be me	et: nrift mrift uni	N/A	
L NALTEK	- the capacitors are of class S2 or S3 according to IEC 60252-1;	- lifet nifet nifet	N/A	

TER MET	IEC 60335-1	EK TEK ITEK JITEK IN	ie wi
Clause	Requirement – Test	Result – Remark	Verdict
W CT	- the capacitors are housed within a metallic or ceramic enclosure	MULTER MULTER MULTER	N/A
ener 1	- the distance of separation of the outer surface to adjacent non-metallic parts exceeds 50 mm	Marie Marie Marie Marie	N/A
TIL TOU	- adjacent non-metallic parts within 50 mm withstand the needle-flame test of Annex E	LIES WHITES WHITE WHITE O	N/A
EK WILTE	- adjacent non-metallic parts within 50 mm classified as at least V-1 according to IEC 60695-11-10	A MULTER MILITER WILLIEF MILE	N/A
25	SUPPLY CONNECTION AND EXTERNAL FLEXIBLE CORDS		Р
25.1	Appliance not intended for permanent connection to fixed wiring, means for connection to the supply:		Р
TEK VIL	- 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;	NITE WHITE WAS THE	N/A
y WALTER	- an appliance inlet having at least the same degree of protection against moisture as required for the appliance, or	L STER WITH MITTER WAT	P P
, et	- pins for insertion into socket-outlets	The state of the	P
25.2	Appliance not provided with more than one means of connection to the supply mains	Write White White Was	WP P
EK WILL	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	white white white	N/A
25.3	Appliance intended to be permanently connected to f the following means for connection to the supply mai		N/A
INLIEN ST	- a set of terminals allowing the connection of a flexible cord	TER THE STEEL WITH	N/A

N/A

N/A

N/A

N/A

- a fitted supply cord

compartment

to its support

support

- a set of supply leads accommodated in a suitable

- a set of terminals for the connection of cables of

- a set of terminals and cable entries, conduit

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

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 Reference No.: WTX22X09184386S Page 38 of 115

Olev	IEC 60335-1	Decute Decute	1/ !! /
Clause	Requirement – Test	Result – Remark	Verdict
MUSTER IN	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	MULTER MULTER MULTER MULTER	N/A
25.4	Cable and conduit entries, rated current of appliance not exceeding 16 A, dimension according to Table 10 (mm)	it let tet tet tet v	N/A
WALTER.	Introduction of conduit or cable does not reduce clearances or creepage distances below values specified in Clause 29	MUL MILES WITH MILES	N/A
25.5	Method for assemble supply cord with the appliance	The The Table	N/A
no m	- type X attachment	NITER WALL WALL WALL	N/A
TEX S	- type Y attachment	a at at at	N/A
1/2	- type Z attachment, if allowed in part 2	in with mir me m	N/A
MITER	Type X attachment, other than those with a specially prepared cord, not used for flat twin tinsel cords	"THE WALTER WALTER WALT	N/A
WALTER O	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	Whitek whitek whitek	N/A
25.6	Plugs fitted with only one flexible cord	" June and a	N/A
25.7	Supply cords, other than for class III appliances, being	ng one of the following types:	N/A
41,	- rubber sheathed (at least 60245 IEC 53)	are me m	N/A
RETER	- polychloroprene sheathed (at least 60245 IEC 57)	LET LET LIET OUT	N/A
TEK	- 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		N/A
in in	light polyvinyl chloride sheathed cord (60227 IEC 52), for appliances not exceeding 3 kg	With Mary Aug Au	N/A
ik ilik	ordinary polyvinyl chloride sheathed cord (60227 IEC 53), for other appliances	TE WALL WALL WALL OF	N/A
WAL	- heat resistant polyvinyl chloride sheathed. Not used specially prepared cords	for type X attachment other than	N/A
MULL	heat-resistant light polyvinyl chloride sheathed cord (60227 IEC 56), for appliances not exceeding 3 kg	Whitek whitek whitek white	N/A
in in	heat-resistant polyvinyl chloride sheathed cord (60227 IEC 57), for other appliances	THE MULT MULT MULT	N/A
in Miles	- halogen-free, low smoke, thermoplastic insulated an	d sheathed	N/A
* WALTER	Light duty halogen-free low smoke flexible cable (62821 IEC 101) for circular cable and (62821 IEC 101f) for flat cable	NUTER WHITER WHITE	N/A

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The same	IEC 60335-1	at all the start of	anti uni
Clause	Requirement – Test	Result – Remark	Verdict
onlike antike	Ordinary duty halogen-free low smoke flexible cable (62821 IEC 102) for circular cable and (62821 IEC 102f) for flat cable	MILITA WILLER WILLER	N/A
ijek «i	Supply cords for class III appliances adequately insulated		N/A
Et SE	Test with 500 V for 2 min for supply cords of class III appliances that contain live parts	and the second	N/A
25.8	Nominal cross-sectional area of supply cords not less than table 11; rated current (A); cross-sectional area (mm²)	THE THE TIPE	N/A
25.9	Supply cord not in contact with sharp points or edges	m. m. m.	N/A
25.10	Supply cord of class I appliances have a green/yellow core for earthing	NITER WHITE WHITE W	N/A
LIEM WALT	In multi-phase appliances, the colour of the neutral conductor of the supply cord is blue.	iek mutek mutek mut	N/A
y JES	Where additional neutral conductors are provided in	the supply cord:	N/A
ZEX.	other colours may be used for these additional neutral conductors;	Mur. Mur. Mr.	N/A
arier a	 all of the neutral conductors and line conductors are identified by marking using the alpha numeric notation specified in IEC 60445 	unite white white	N/A
, 4,	– the supply cord is fitted to the appliance	2 24 24	N/A
25.11	Conductors of supply cords not consolidated by lead-tin soldering where they are subject to contact pressure, unless	JUNITE WILLS WILL	N/A
me	the contact pressure is provided by spring terminals	WILLE WHILE WALL	N/A
25.12	Insulation of the supply cord not damaged when moulding the cord to part of the enclosure	STEP STEP WILL IN	N/A
25.13	Inlet opening so shaped as to prevent damage to the supply cord	at the the	N/A
EK WALTER	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	AND TEX MILITER MINITE	N/A
MULTER	If unsheathed supply cord, a similar additional bushing or lining is required, unless the appliance is	MALTER WALTER WALTER	N/A
alifek ja	class 0, or	Let Let Let	N/A
	a class III appliance not containing live parts	or mr m. m.	N/A
25.14	Supply cords moved while in operation adequately protected against excessive flexing	EX WATER WATER WATE	N/A
LIE	Flexing test, as described:	t let let let	N/A
20,	- applied force (N)	were me me	N/A

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1, 200	IEC 60335-1	At All John John John	The same
Clause	Requirement – Test	Result – Remark	Verdict
" CIT CIT'S	number of flevings	Light right till	N/A
	- number of flexings:	7/1 7/1 7/2	N/A
Maria de	The test does not result in:	ALTER METER ME	N/A
	- short-circuit between the conductors, such that the current exceeds a value of twice the rated current	ar ar ar	N/A
	- breakage of more than 10% of the strands of any conductor	city with with my	N/A
"Ing.	- separation of the conductor from its terminal	MULTER WALTE WALL	N/A
All the	- loosening of any cord guard	A A A	N/A
m, .	- damage to the cord or the cord guard	WALL WALL WALL	N/A
nliek w	- broken strands piercing the insulation and becoming accessible	NITER MITER WALTER	N/A
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	SEX WHITEK WHITEK WHITE	N/A
	The cord cannot be pushed into the appliance to such an extent that the cord or internal parts of the appliance can be damaged	WILLER WHITEK WHITEK	N/A
Steph S	Pull and torque test of supply cord:		√ N/A
EA 46	- fixed appliances: pull 100 N; torque (not on automatic cord reel) (Nm):	a lare a	N/A
Who willy	- other appliances: values shown in Table 12: mass (kg); pull (N); torque (not on automatic cord reel) (Nm)	WILL WILL WILL	N/A
ZE#	Cord not damaged and max. 2 mm displacement of the cord	mer mer m	N/A
25.16	Cord anchorages for type X attachments constructed	d and located so that:	N/A
self Si	- replacement of the cord is easily possible	at at at a	N/A
y	- it is clear how the relief from strain and the prevention of twisting are obtained	Must me m	N/A
200	- they are suitable for different types of supply cord;	antitum untitum untit	N/A
MALTER	- cord cannot touch the clamping screws of cord anchorage if these screws are accessible, unless	alter miter antier	N/A
LIEK ON	they are separated from accessible metal parts by supplementary insulation	Tet the street of	N/A
IEN OUT	- the cord is not clamped by a metal screw which bears directly on the cord	et tet tet it	N/A
- JEF	- at least one part of the cord anchorage securely fixed to the appliance, unless	The Mr. Mr.	N/A
20,	it is part of a specially prepared cord	They were the	N/A

Requirement - Test

Clause

Mur Mur an	at let set	ITEK NITEK
Page 41 of 115		
IEC 60335-1	et tet tet st	de direction
etiek write wri	Result – Remark	Verdict
perated when replacing component, if applicable	until until until	N/A
erative or incomplete or divithout a tool	MULTER MALTER MALLE M	N/A
ed the test of 25.15 is	LIEK WALTER WALTER WAT	N/A
nces: they are of ovided with an insulating	MULTER WATER WATER	N/A
e cord does not make	WHITE WHITE WHITE.	N/A
y are of insulating	NITER WATER WATER ON	N/A
d from accessible metal lation	SEX MITEX MITEX MILE	N/A
r the conditions ve not moved by more	MULTER WHITER WHITER	N/A
for type Y and Z d supplied with the	NATER MALTER MALTER	N/A

	IEC 60335-1	CENT TEN STEP ST	IN WILL WAL
Clause	Requirement – Test	Result – Remark	Verdict
MILTER	- live parts not accessible during insertion or removal	WILL MULES MULES	N/A
NATIFIE VI	Requirement not applicable to appliance inlets complying with IEC 60320-1	OLIER WILER WHILER	P
and the same	- connector can be inserted without difficulty	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	est of P
2 70	- the appliance is not supported by the connector	The write and we	P
ek wile	- is not for cold conditions if temp. rise of external metal parts exceeds 75 K, unless	A MITEL MITEL MALTE	N/A
- CER	the supply cord is not likely to touch such metal parts	* # #	N/A
25.23	Interconnection cords comply with the requirements for the supply cord, except that:	Output cord	P
anii aa Teek sii	the cross-sectional area of the conductors is determined on the basis of the maximum current during clause 11	NUTER WHITE WALLS ON	P
20,	- the thickness of the insulation may be reduced	in with the the	Р
WITE	- for class I or class II appliance with class III construction, the cross sectional areas of the conductors need not comply with 25.8 if specified conditions are met	Whitek whitek whitek	White Whitest
· .	If necessary, electric strength test of 16.3	are my	N/A
25.24	Interconnection cords not detachable without the aid of a tool if compliance with the standard is impaired when they are disconnected	tit , funtiti un	N/A
25.25	Dimensions of pins that are inserted into socket-outlets compatible with the dimensions of the relevant socket-outlet.	white me whe	N/A
WITEX W	Dimensions of pins and engagement face in accordance with the dimensions of the relevant plug in IEC/TR 60083	Tet ifet wifet	N/A

N/A

N/A

N/A

N/A

N/A

N/A

conductors

connection

TERMINALS FOR EXTERNAL CONDUCTORS

Appliances provided with terminals or equally

effective devices for connection of external

Terminals only accessible after removal of a

for class III appliances that do not contain live parts

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

Appliances with type X attachment and appliances

for connection to fixed wiring provided with terminals in which connections are made by means of screws,

non-detachable cover, except

nuts or similar devices, unless

26

26.1

26.2

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IEC 60335-1			
Clause	Requirement – Test	Result – Remark	Verdict
" Milita	the connections are soldered	Chief writer	N/A
NALTEK W	Screws and nuts serve only to clamp supply conductors, except	of the writer writer and	N/A
LIEY WI	internal conductors, if so arranged that they are unlikely to be displaced when fitting the supply conductors	TEX MUTEX MUTER MUTE	N/A
et white	If soldered connections used, the conductor so positioned or fixed that reliance is not placed on soldering alone, unless	Multer whiter whiter	N/A
unitek an	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	White white white whi	N/A
26.3	Terminals for type X attachment and for connection to fixed wiring so constructed that the conductor is clamped between metal surfaces with sufficient contact pressure and without damaging the conductor	LANGER WHITE WHITE	N/A
WITER .	Terminals fixed so that when the clamping means is	tightened or loosened:	N/A
	- the terminal does not become loosen	are my m.	N/A
LIFE WIL	- internal wiring is not subjected to stress	AL A STEEL MILE	N/A
EK NITE	- neither clearances nor creepage distances are reduced below the values in Clause 29	The life	N/A
MULTER	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)	MUTER MUTER MUTER	N/A
neter of	No deep or sharp indentations of the conductors	TEX ITEX LITER ON	N/A
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	TEX UNLIER WHITE WHITE	N/A
MALTEX	so constructed or placed that conductors prevented from slipping out when clamping screws or nuts are tightened	WILL WILL WILLEY	N/A
26.5	Terminals for type X attachment so located or shielded that if a wire of a stranded conductor escapes, no risk of accidental connection to other parts that result in a hazard	LITER MILITER MILITER MILITER	N/A
in min	Stranded conductor test, 8 mm insulation removed	EX INITE MITTER MILITE	N/A
+ NALTEK	No contact between live parts and accessible metal parts and,	- TEX STER STER	N/A

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1 200	IEC 60335-1	At At July	"WILL "M"
Clause	Requirement – Test	Result – Remark	Verdic
ANITEK N	for class II constructions, between live parts and metal parts separated from accessible metal parts by supplementary insulation only	White white white	N/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 (mm²)	The mortes multiple and	N/A
	If a specially prepared cord is used, terminals need only be suitable for that cord	Aur Aur Au	N/A
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	WHEEL THEY THEY	N/A
26.8	Terminals for the connection to fixed wiring, including the earthing terminal, located close to each other	let witer writer wit	N/A
26.9	Terminals of the pillar type constructed and located as specified	t light slight stight	N/A
26.10	Terminals with screw clamping and screwless terminals not used for flat twin tinsel cords, unless	et let let	N/A
The same	conductors ends fitted with a device suitable for screw terminals	are the the	N/A
12. M	Pull test of 5 N to the connection	and the sale	N/A
26.11	For type Y and Z attachment: soldered, welded, crimped and similar connections may be used	E MITE WALLY WALL	N/A
MULTER	For Class II appliances: the conductor so positioned or fixed that reliance is not placed on soldering, welding or crimping alone	WALTER WALTER WALTER	N/A
anlie 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		N/A
27	PROVISION FOR EARTHING	at left of	N/A
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	June whe while	N/A
alifet un	Earthing terminals and earthing contacts not connected to the neutral terminal	all the text	N/A
TEN IT	Class 0, II and III appliances have no provision for earthing	Class II	Et JEF P
t th	Class II appliances and class III appliances can incorporate an earth for functional purposes	Mury Aut Au	N/A
My	Safety extra-low voltage circuits not earthed, unless	WILL MULL MULL	N/A
	protective extra-low voltage circuits		N/A

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27	L.	

IEC 60335-1				
Clause	Requirement – Test	Result – Remark	Verdic	
27.2	Clamping means adequately secured against accidental loosening	MULLER MULTER MULTER	N/A	
nne w	Terminals used for the connection of external equipotential bonding conductors allow connection of conductors of 2.5 to 6 mm², and	antie mit mit v	N/A	
Et TE	do not provide earthing continuity between ifferent parts of the appliance, and	it was an an	N/A	
- Na	conductors cannot be loosened without the aid of tool	MULL ME ME	N/A	
Whi.	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	MALIER WHITE WHITE	N/A	
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	ALL WALLEY WALLEY WAL	N/A	
	For appliances with supply cord, current-carrying conductors become taut before earthing conductor, if the cord slips out of the cord anchorage	White white whi	N/A	
TIEK WA	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	THE THE THE STATES OF	N/A	
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	E WILL WILL WILL	N/A	
VINLIER	Parts providing earthing continuity, other than parts of a metal frame or enclosure, have adequate resistance to corrosion	WALTER WALTER	N/A	
الما يمارين	If of steel, these parts provided with an electroplated coating with a thickness at least 5 μm	NITER WHITE WHITE O	N/A	
iter wri	Adequate protection against rusting of parts of coated or uncoated steel, only intended to provide or transmit contact pressure	TEK WALTER WALTER WAL	N/A	
WAL	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	white white white	N/A	
NITEK M	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	unit unit unit	N/A	
27.5	Low resistance of connection between earthing terminal and earthed metal parts	of the the t	N/A	
ynitek ynitek	This requirement does not apply to connections providing earthing continuity in the protective extra-low voltage circuit, provided that clearances of basic insulation are based on the rated voltage of the appliance		N/A	

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Clause	Reguirement – Test Result – Remark	Verdic
Clause	Requirement – Test	verdic
MULTER IN	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	N/A
LIEK KI	Resistance not exceeding 0.1 Ω at the specified low-resistance test (Ω)	N/A
27.6	The printed conductors of printed circuit boards not used to provide earthing continuity in hand held appliances.	N/A
MUNITER.	They may be used to provide earthing continuity in other appliances if at least two tracks are used with independent soldering points and the appliance complies with 27.5 for each circuit	N/A
	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	N/A
28	SCREWS AND CONNECTIONS	Р
28.1	Fixings, electrical connections and connections providing earthing continuity withstand mechanical stresses	P.T.
MULL A	Screws not of soft metal liable to creep, such as zinc or aluminium	w P
NITE WI	Diameter of screws of insulating material min. 3 mm	N/A
iek wit	Screws of insulating material not used for any electrical connection or connections providing earthing continuity	N/A
MULTER	Screws used for electrical connections or connections providing earthing continuity screw into metal	N/A
NUTE W	Screws not of insulating material if their replacement by a metal screw can impair supplementary or reinforced insulation	N/A
ek murren	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	N/A
WALTER	For screws and nuts; torque-test as specified in Table 14:	N/A
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	N/A
t Tex	there is resiliency in the metallic parts to compensate for shrinkage or distortion of the insulating material	N/A
2/1,	This requirement does not apply to electrical connections in circuits of appliances for which:	N/A

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3/1/2	IEC 60335-1	The safe water and safe	- alv
Clause	Requirement – Test	Result – Remark	Verdict
711. TEX	30.2.2 is applicable and that carry a current not exceeding 0.5 A	MULTER MULTER WITH	N/A
ne n	30.2.3 is applicable and that carry a current not exceeding 0.2 A	unite white white was	N/A
28.3	Space-threaded (sheet metal) screws only used for electrical connections if they clamp the parts together	THE WILLIAM WILL WILL W	N/A
MUTTER	Thread-cutting (self-tapping) screws and thread rolling screws only used for electrical connections if they generate a full form standard machine screw thread	MULTER WHILE WHITER WHITE	N/A
التي المالية	Thread-cutting (self-tapping) screws not used if they are likely to be operated by the user or installer	NIFER MITER WAITER WALTER	N/A
TEK WALT	Thread-cutting, thread rolling and space threaded so connections providing earthing continuity provided it connection:		N/A
A SOLIE	- in normal use,	t tet tiet nitet mit	N/A
	- during user maintenance,	me m m	N/A
ANTIE A	- when replacing a supply cord having a type X attachment, or	WALLER WALLER WALLE WALLE	N/A
OLITER OF	- during installation	all of the state	N/A
CEL JE	At least two screws being used for each connection providing earthing continuity, unless	To the state of	N/A
t 1814	the screw forms a thread having a length of at least half the diameter of the screw	Anti And And And	N/A
28.4	Screws and nuts that make mechanical connection secured against loosening if they also make electrical connections or connections providing earthing continuity	White while while while	N/A
LIEK WAL	This requirement does not apply to screws in the earthing circuit if at least two screws are used, or	TEX STEX WIFEX WITEX W	N/A
et let	if an alternative earthing circuit is provided	The state of the s	N/A
MULTER	Rivets for electrical connections or connections providing earthing continuity secured against loosening if the connections are subjected to torsion	ancie unit unit unit	N/A
29	CLEARANCES, CREEPAGE DISTANCES AND SOL	ID INSULATION	Р
UTER ON	Clearances, creepage distances and solid insulation withstand electrical stress	LIER WHITER WHITER WHITE	nul P
TEX MUTT	For coatings used on printed circuits boards to protect the microenvironment (type 1) or to provide basic insulation (type 2), Annex J applies:	EX MULTEX MULTER WILLER	N/A
MUTTE	The microenvironment is pollution degree 1 under type 1 protection	WHITE WHITE WHITE WHITE	N/A

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	IEC 60335-1		
Clause	Requirement – Test	Result – Remark	Verdict
MUTITER M	For type 2 protection, the spacing between the conductors before the protection is applied is not less than the values specified in Table 1 of IEC 60664-3	MULTER MULTER MULTER MA	N/A
TER WY	These values apply to functional, basic, supplementary and reinforced insulation	TEX WITER WITER WITE	N/A
29.1	Clearances not less than the values specified in Table 16, taking into account the rated impulse voltage for the overvoltage categories of Table 15, unless	(see appended table)	P
11/2 11/2	for basic insulation and functional insulation they comply with the impulse voltage test of Clause 14	MULL MULL MULL M	N/A
TEK MIT	However, if the distances are affected by wear, distortion, movement of the parts or during assembly, the clearances for rated impulse voltages of 1 500 V and above are increased by 0.5 mm and the impulse voltage test is not applicable	NITER WHITE WHITE	ALL THE AND
White of	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	N/A
	Impulse voltage test is not applicable:	The The Table	N/A
in m	- when the microenvironment is pollution degree 3, or	The Junite with	N/A
white	- for basic insulation of class 0 and class 0I appliances, or	EL WALTER WALTER	N/A
MILITER	- to appliances intended for use at altitudes exceeding 2 000 m	WILLER MULTER MULTER	N/A
TEX.	Appliances are in overvoltage category II	x x 10 1	CF CP
(i) 11	A force of 2 N is applied to bare conductors, other than heating elements	with must must must	Р
in any	A force of 30 N is applied to accessible surfaces	TER WITE WALL WALL	N Pur
29.1.1	Clearances of basic insulation withstand the overvoltages, taking into account the rated impulse voltage	t untilet waitet untilet.	Р
WALTER	The values of Table 16 or the impulse voltage test of Clause 14 are applicable:	(see appended table)	LIE WIE
LITEK WIN	Clearance at the terminals of tubular sheathed heating elements may be reduced to 1.0 mm if the microenvironment is pollution degree 1	Street Whitest Whitest White	N/A
IE WITT	Lacquered conductors of windings considered to be bare conductors	ex matrex matrex matre	No. 1
29.1.2	Clearances of supplementary insulation not less than those specified for basic insulation in Table 16	(see appended table)	nii Pie

	IEC 60335-1		
Clause	Requirement – Test	Result – Remark	Verdic
29.1.3	Clearances of reinforced insulation not less than those specified for basic insulation in Table 16, using the next higher step for rated impulse voltage	(see appended table)	P
LIFEK WAL	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	ITEX WHITEX WHITEX WHITEX	LIE P _M
29.1.4	Clearances for functional insulation are the largest v	alues determined from:	Р
1115	- Table 16 based on the rated impulse voltage:	(see appended table)	Р
iviter an	- Table F.7a in IEC 60664-1, frequency not exceeding 30 kHz;	NUTER WHITER WHITER	N/A
ITEK MILT	- Clause 4 of IEC 60664-4, frequency exceeding 30 kHz	set sites while whiles w	TE P
K MITER	If values of Table 16 are largest, the impulse voltage test of Clause 14 may be applied instead, unless	t let let liet si	P
7	the microenvironment is pollution degree 3, or	m m m	N/A
MUTTE 1	the distances can be affected by wear, distortion, movement of the parts or during assembly	WALLER WALLER WALLER WALLER	N/A
NLTER JIN	However, clearances are not specified if the appliance complies with Clause 19 with the functional insulation short-circuited	The components and circuits after current fuse	Р
WE	Lacquered conductors of windings considered to be bare conductors	ANTIE MILL MILL AN	Р
WALTE	However, clearances at crossover points are not measured	MILIER WALTER WALTER WALTE	Р
Writer W	Clearance between surfaces of PTC heating elements may be reduced to 1mm	OLITER ANTIER SUNTER WHITE	N/A
29.1.5	Appliances having higher working voltages than rate insulation are the largest values determined from:	d voltage, clearances for basic	JE P
y	- Table 16 based on the rated impulse voltage:	In 2	+ P
ME	- Table F.7a in IEC 60664-1, frequency not exceeding 30 kHz;	White white white wh	N/A
WALTE V	- Clause 4 of IEC 60664-4, frequency exceeding 30 kHz	WALTER WALTER WALTER WALTER	Р
nliek wh	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	STER WITER WITER WITER	nt P

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	IEC 60335-1			
Clause	Requirement – Test	Result – Remark	Verdict	
Whitek W	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	MULTER MULTER MULTER MU	N/A	
ex write	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	ter white white whitek	WE BALLE	
Whitek W	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	MITER WHITER WHITER WHI	N/A	
iter white	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	LEK TEK PLIEK	N/A	
29.2	Creepage distances not less than those appropriate for the working voltage, taking into account the material group and the pollution degree:	(see appended table)	TEX WILLER	
At .	Pollution degree 2 applies, unless		P	
74 74 V. 711	- precautions taken to protect the insulation; pollution degree 1;	The fact that	N/A	
i wit	- insulation subjected to conductive pollution; pollution degree 3	WALTE WALTE WALTE	N/A	
WALTE	A force of 2 N is applied to bare conductors, other than heating elements	WALTER WALTER WALTER W	P P	
CLIER OF	A force of 30 N is applied to accessible surfaces	At 18th July 2	J. P	
irex mur	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	incomplish whites white	P LIFE WAL	
29.2.1	Creepage distances of basic insulation not less than specified in Table 17	(see appended table)	uni "Pili	
WALTER WA	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	united whited whited w	N/A	
TEK MITEK	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	ek mitek mitek mitek	N/A	

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	IEC 60335-1				
Clause	Requirement – Test	Result – Remark	Verdict		
29.2.2	Creepage distances of supplementary insulation at least those specified for basic insulation in Table 17, or	(see appended table)	Р		
	Table 2 of IEC 60664-4, as applicable	n n n	N/A		
29.2.3	Creepage distances of reinforced insulation at least double those specified for basic insulation in Table 17, or	(see appended table)	P		
21,	Table 2 of IEC 60664-4, as applicable:	MULL MILL MILL	N/A		
29.2.4	Creepage distances of functional insulation not less than specified in Table 18	(see appended table)	ALTE UN PER		
unitek vu	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	NITER WHITER WHITER WHI	N/A		
y walter	Creepage distances may be reduced if the appliance complies with Clause 19 with the functional insulation short-circuited	MULTER WALTER WALTER	unit & Pres		
29.3	Supplementary and reinforced insulation have adequate thickness, or a sufficient number of layers, to withstand the electrical stresses	Writer Murer Murer M.	TEK WILL		
VILLE OV	Compliance checked:	atter mit	P		
	- by measurement, in accordance with 29.3.1, or		Р		
MULL	- by an electric strength test in accordance with 29.3.2, or	White white white	III P		
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		N/A		
LIEK WIL	for accessible parts of reinforced insulation consisting of a single layer, by measurement in accordance with 29.3.4, or	Tex Miles Miles Miles	N/A		
EK WALTER	- 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	L Whitek whitek whitek	N/A		
nliek w	- 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	Lifet Militer whiles whi	N/A		
29.3.1	Supplementary insulation have a thickness of at least 1 mm	EX MITEX MATER MATER	THE PAL		
t SLIER	Reinforced insulation have a thickness of at least 2 mm	- It let let	P. O		

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	IEC 60335-1		
Clause	Requirement – Test	Result – Remark	Verdict
29.3.2	Each layer of material withstand the electric strength test of 16.3 for supplementary insulation	MULLER MULTER MULTER	P
mis w	Supplementary insulation consist of at least 2 layers	WILL MULL MULL AND	W P
All S	Reinforced insulation consist of at least 3 layers	a at at A	Р
29.3.3	The insulation is subjected to the dry heat test Bb of IEC 60068-2-2, followed by	the min me min	N/A
an.	the electric strength test of 16.3	White while while	N/A
MALTER	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	MULTER MULTER MULTER W	NITE PEK
29.3.4	Thickness of accessible parts of reinforced insulation consisting of a single layer not less than specified in Table 19:	NIFEX WHITEK WHITEK WHI	N/A
30	RESISTANCE TO HEAT AND FIRE	TER WITE WHITE WHITE	The Bur
30.1	External parts of non-metallic material,	L A A	P
21/2	parts supporting live parts, and	White white whi	n. h
JUNITER J	thermoplastic material providing supplementary or reinforced insulation,	STIFF WIFE MULTER WA	P
Let :	sufficiently resistant to heat		+ P
10 24	Ball-pressure test according to IEC 60695-10-2	MULL WILL	A P
EK WALTE KALTEK	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)	P
JUNITER VI	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)	P
TE WILLEY	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)	THE WALTER WALTER WALTER	N/A
30.2	Parts of non-metallic material resistant to ignition and spread of fire	INLIER WALTER WALTER W	P
TEX S	This requirement does not apply to:	at at all a	P
TEH WALTE	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	EX WHILE AND LES AND LES	P P
WALTER	decorative trims, knobs and other parts unlikely to be ignited or to propagate flames that originate inside the appliance	Whitek Multek Multek	N/A

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IEC 60335-1			
Clause	Requirement – Test	Result – Remark	Verdict
M. C.K.	Compliance checked by the test of 30.2.1, and in addition:	WILL WILLEY WILLEY	Р
الله ميمان	- for attended appliances, 30.2.2 applies	ALTER WILLER WHILE WHILE	N/A
all s	- for unattended appliances, 30.2.3 applies	and the second	Р
, 11,	For appliances for remote operation, 30.2.3 applies	CLE MULL MULL MULL	N/A
ek unlie	For base material of printed circuit boards, 30.2.4 applies	A MILLER MALLER MALLER W	NI EX PAI
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)	TE PER
nliek yn	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	NUTER WALLER WALLER	N/A
TEK WALT	the material is classified at least HB40 according to IEC 60695-11-10	FEK MITEL WHITEK	N/A
MALTER	Parts for which the glow-wire test cannot be carried out need to meet the requirements in ISO 9772 for material classified HBF	Whitek whitek whitek w	N/A
30.2.2	Appliances operated while attended, parts of non-metallic material supporting current-carrying connections, and	Whitek whitek whitek whi	N/A
The Mark	parts of non-metallic material within a distance of 3mm of such connections,	Multi will	N/A
MULTE	subjected to the glow-wire test of IEC 60695-2-11 with appropriate severity level:	E WALTE WALTER WALTE	N/A
WALTER	- 750 °C, for connections carrying a current exceeding 0.5 A during normal operation	antiek whitek whitek wh	N/A
JEX.	- 650 °C, for other connections	A 14 15 5	N/A
n si	Glow-wire applied to an interposed shielding material, if relevant	With Miles Aug Au	N/A
* 'W.	The glow-wire test is not carried out on parts of mate glow-wire flammability index according to IEC 60695		N/A
white a	- 750 °C, for connections carrying a current exceeding 0.5 A during normal operation	Whitek Whitek White W	N/A
MITE	- 650 °C, for other connections	TEN LITER SLITER IN	N/A
`.L	The glow-wire test is also not carried out on small pa	arts. These parts are to:	N/A
ill wh	- comprise material having a glow-wire flammability index of at least 750 °C, or 650 °C as appropriate, or	LIFER WHITE WHITE WHITE	N/A
E WILLE	- comply with the needle-flame test of Annex E, or	et liet liet sliet	N/A
t stet	- comprise material classified as V-0 or V-1 according to IEC 60695-11-10:	The text text	N/A
"EX	Glow-wire test not applicable to conditions as specified	Mur, My My M	N/A

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IEC 60335-1			- "n
Clause	Requirement – Test	Result – Remark	Verdict
	the state of the s	- it it still still	
30.2.3	Appliances operated while unattended, tested as specified in 30.2.3.1 and 30.2.3.2	mer mer me m	Р
mr m	Test not applicable to conditions as specified	MITER WALL WALL WALL	N/A
30.2.3.1	Parts of non-metallic material supporting connections carrying a current exceeding 0.2 A during normal operation, and	LIER WHITEK WHITEK	LIE'P
MULTE	parts of non-metallic material, other than small parts, within a distance of 3 mm,	A MILITER MILITER WHITER MILITER	P
WALTER	subjected to the glow-wire test of IEC 60695-2-11 with a test severity of 850 °C	(see appended table)	W. PER
NITEK WY	Glow-wire applied to an interposed shielding material, if relevant	THE LIES SLIES MITTER	N/A
TEK WILTE	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	tex mures mures mures in	N/A
30.2.3.2	Parts of non-metallic material supporting connections, and	white white white whi	Р
WYLLE M	parts of non-metallic material within a distance of 3 mm,	MULTER MULTER WALTER WALTER	P
LIER WAL	subjected to the glow-wire test of IEC 60695-2-11 with appropriate severity level:	(see appended table)	TEP N
EK WALTEN	- 750 °C, for connections carrying a current exceeding 0.2 A during normal operation,	THE WITH WILLIAM	TEK PUT
- 3	- 650 °C, for other connections	20 x x	N/A
ALC:	Glow-wire applied to an interposed shielding material, if relevant	White Mile Mile Mile	N/A
in _{riee} 'nu	However, the glow-wire test of 750 °C or 650 °C as a parts of material fulfilling both or either of the following		N/A
TER WALT	- a glow-wire ignition temperature according to IEC 60695-2-13 of at least:	TER WATER WATER OF	N/A
y whiteh	775 °C, for connections carrying a current exceeding 0.2 A during normal operation,	Martet Martet Walter Walt	N/A
- CENT	675 °C, for other connections	a state	N/A
Mr. M	- a glow-wire flammability index according to IEC 60695-2-12 of at least:	antit wat was and	N/A
in mi	- 750 °C, for connections carrying a current exceeding 0,2 A during normal operation,	Street White White White	N/A
E WILLE	- 650 °C, for other connections	ex tiex stiex with an	N/A
	The glow-wire test is also not carried out on small pa	arts. These parts are to:	N/A
MUTTE.	- comprise material having a glow-wire ignition temperature of at least 775 °C or 675 °C as appropriate, or	WALTER WALTER WALTER WALTER	N/A

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10 100	IEC 60335-1			
Clause	Requirement – Test	Result – Remark	Verdict	
Milk	- comprise material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or	united united united united	N/A	
West W	- comply with the needle-flame test of Annex E, or	NITER WHITE WHITE WALL	N/A	
ILLEK WIN	- comprise material classified as V-0 or V-1 according to IEC 60695-11-10	TEX STEE WIFE MITER OF	N/A	
EK MITE MITEK	The consequential needle-flame test of Annex E appendence 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 reparts are those:	e centre of the connection zone ent-carrying connections, and	N/A	
UNLIEK OU	- 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	OLIER MILIER MULTER MILIER	N/A	
LIEK WALT	- parts that comprised material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or	LEX WILLEX WILLEX WILLEY W	N/A	
MULLE	- small parts, that comprised material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or	Whitek whitek whiteh whi	N/A	
31 ¹ 3	- small parts for which the needle-flame test of Annex E was applied, or	WILL MULL MULL MULL	N/A	
vizi nv	- small parts for which a material classification of V-0 or V-1 was applied	The funite suntil a	N/A	
SEA WHITE	However, the consequential needle-flame test is not parts, including small parts, within the cylinder that a		N/A	
	- parts having a glow-wire ignition temperature of at least 775 °C or 675 °C as appropriate, or	MILIER WALTER WALTER	N/A	
NATIEK W	- parts comprising material classified as V-0 or V-1 according to IEC 60695-11-10, or	LIER SLIER WITER SOUTH	N/A	
itek mur	- parts shielded by a flame barrier that meets the needle-flame test of Annex E or that comprises material classified as V-0 or V-1 according to IEC 60695-11-10	TEK WATER WATER WATER	N/A	
30.2.4	Base material of printed circuit boards subjected to the needle-flame test of Annex E	MULTER MILITER MILITER MINE	N/A	
MILLE	Test not applicable to conditions as specified:	PCB: V-0	n'P	
31	RESISTANCE TO RUSTING	m m m	P	
uris an	Relevant ferrous parts adequately protected against rusting	street white white white	wr. b ∕n	
TE WILL	Tests specified in part 2 when necessary	et likt slikt spile spi	N/A	
32	RADIATION, TOXICITY AND SIMILAR HAZARDS	711. 211.	↓ P _A ¢	
MULL	Appliance does not emit harmful radiation or present a toxic or similar hazard due to their operation in normal use	MULTER MULTER MULTER WALL	P	

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100	IEC 60335-1	AND THE STATE OF T	THE WALL
Clause	Requirement – Test	Result – Remark	Verdict
ALLEY.	Compliance is checked by the limits or tests specified in part 2, if relevant	MULLE MULTER MULTER	N/A
Are w	ANNEX A (INFORMATIVE) ROUTINE TESTS	MILLER MALIE WALLE	N/A
iz, m.	Description of routine tests to be carried out by the manufacturer	TER MULTER MULTER MU	N/A
B	ANNEX B (NORMATIVE) APPLIANCES POWERED BY RECHARGEABLE BA	ATTERIES	N/A
White.	The following modifications to this standard are applicable for appliances powered by batteries that are recharged in the appliance	antifet water antifet	N/A
urit. M	Three forms of construction covered:	ALTER MITER MALTER MI	rift Juli 4
iiek _{wati}	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	EX WILLEX WHITEX WHI	N/A
whitek a	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	White white white	N/A
nere whi	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	The suntiff white suntif	N/A
3.1.9	Appliance operated under the following conditions:	- TEX STEX STEX	WILLE WATE
TEX .	- the appliance, supplied by its fully charged battery, operated as specified in relevant part 2;	The top the	N/A
riek wir.	- the battery is charged, the battery being initially discharged to such an extent that the appliance cannot operate;	net with neter in	N/A
ek waltek	- if possible, the appliance is supplied from the supply mains through its battery charger, the battery being initially discharged to such an extent that the appliance cannot operate. The appliance is operated as specified in relevant part 2;	in the water water	N/A
ULIER AU	- 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	and united antited an	N/A
3.6.2	Part to be removed in order to discard the battery is not considered to be detachable	et whitek whitek whit	N/A
5.B.101	Appliances supplied from the supply mains tested as specified for motor-operated appliances	- NIEK WIEK WITEK	N/A

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IEC 60335-1			
Clause	Requirement – Test	Result – Remark	Verdict
7.1	Battery compartment for batteries intended to be replaced by the user, marked with battery voltage V (V) and polarity of the terminals	While while while	N/A
ittek whi	The positive terminal indicated by symbol IEC 60417-5005 and the negative terminal by symbol IEC 60417-5006	TER WILLER WILLER	N/A
ek walie Walie	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	MULTER WHITER WHI	N/A
20, 1	use only with <model designation=""> supply unit</model>	White white white white	N/A
7.6	Additional symbols	at at let the	N/A
7.12	The instructions give information regarding charging	Vice Mur My My	N/A
iter whit	Instructions for appliances incorporating batteries intended to be replaced by the user include required information	LEK WHITEK WHITEK WHITEK WE	N/A
Mer	Details about how to remove batteries containing materials hazardous to the environment given	White white white wh	N/A
WILLE A	Instructions for appliances containing non-user-repla substance of the following:	ceable batteries state the	MUT.
NETER WAS	This appliance contains batteries that are only replaceable by skilled persons	THE MATTER VIOLET	N/A
iek mite	Instructions for appliances containing non-replaceab substance of the following:	le batteries shall state the	iek wat
MITEK	This appliance contains batteries that are non-replaceable	TER TER STEEL MITE	N/A
	For appliances intending to be supplied from a detact purposes of recharging the battery, the type reference stated along with the following:		MALTER.
LIEK WAL	WARNING: For the purposes of recharging the battery, only use the detachable supply unit provided with this appliance	TEX WILLER WALTER WILLER	N/A
MULTER	If the symbol for detachable supply unit is used, its meaning is explained	t whitek whitek whitek whi	N/A
7.15	Markings placed on the part of the appliance connected to the supply mains	TITEL MITEL MALTER MALTE	N/A
NLTEK NIN	The type reference of the detachable supply unit is placed in close proximity to the symbol	Tet siet wiet mitet	N/A
8.2	Appliances having batteries that according to the instruction may be replaced by the user need only have basic insulation between live parts and the inner surface of the battery compartment	EX MULTER MULTER MULTER	N/A
MULL	If the appliance can be operated without batteries, double or reinforced insulation required	White white white white	N/A

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IEC 60335-1			
Clause	Requirement – Test	Result – Remark	Verdict
	THE THE WAY AND	t at at the six	
11.7	The battery is charged for the period stated in the instructions or 24 h	MATE MATE MATE MATE	N/A
11.8	Temperature rise of the battery surface does not exceed the limit in the battery manufacturer's specification; measured (K); limit (K)	Write Mill Mill Mill Mill	N/A
et set	If no limit specified, the temperature rise does not exceed 20 K; measured (K)	er mer mer m	N/A
19.1	Appliances subjected to tests of 19.B101, 19.B102 and 19.B103	MULL MULL WAY WAY	N/A
19.10	Not applicable	ALTER WALTE WALL WALL	N/A
19.B.101	Appliances supplied at rated voltage for 168 h, the battery being continually charged	THE STEE STEE WITH	N/A
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,		N/A
19.B.103	Appliances having batteries replaceable by the user supplied at rated voltage under normal operation with the battery removed or in any position allowed by the construction	whitek whitek whitek white	N/A
19.13	The battery does not rupture or ignite	mer me me me	N/A
21.B.101	Appliances having pins for insertion into socket-outlets have adequate mechanical strength	THE WALTER WILLIAM	N/A
iek white	Part of the appliance incorporating the pins subjected to the free fall test, procedure 2, of IEC 60068-2-31, the number of falls being:		
t let	- 100, the mass of part does not exceed 250 g	30 T St St	N/A
The .	- 50, the mass of part exceeds 250 g	THE WALL WALL WALL	N/A
NALTEK WA	After the test, the requirements of 8.1, 15.1.1, 16.3 and clause 29 are met	THE STEE STEEL SHITEE	N/A
22.3	Appliances having pins for insertion into socket-outlets tested as fully assembled as possible	the the state state of	N/A
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	AUTER WITER WITER AND	N/A
30.2	For parts of the appliance connected to the supply mains during the charging period, 30.2.3 applies	MATER WALTER MATER WATER	N/A
alter ani	For other parts, 30.2.2 applies	Jet Jet Jet Jet	N/A
C	ANNEX C (NORMATIVE) AGEING TEST ON MOTORS	of the the the	N/A
y oritex	Tests, as described, carried out when doubt with regard to the temperature classification of the insulation of a motor winding	- TER STER WILL AND	N/A
	Test conditions as specified	24 24 24 24 2	N/A

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reciciono	C 140.: W 17/22/05 1045000	1 age 55 61 115		
LIET WITE	With Mit Me M	IEC 60335-1	CENTER THE STEE	WILL MILL
Clause	Requirement – Test	A STEP WITH MY	Result – Remark	Verdict

D. Giller	ANNEX D (NORMATIVE) THERMAL MOTOR PROTECTORS	N/A
rilek w	Applicable to appliances having motors that incorporate thermal motor protectors necessary for compliance with the standard	N/A
	Test conditions as specified	N/A
E WALLE	ANNEX E (NORMATIVE) NEEDLE-FLAME TEST	N/A
WALTER	Needle-flame test carried out in accordance with IEC 60695-11-5, with the following modifications:	MULTE
7	Severities	TIE.
	The duration of application of the test flame is 30 s ± 1 s	N/A
9	Test procedure	-7/1
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/A
9.2	The first paragraph does not apply	N/A
TEN SI	If possible, the flame is applied at least 10 mm from a corner	N/A
9.3	The test is carried out on one specimen	N/A
iet walte	If the specimen does not withstand the test, the test may be repeated on two further specimens, both withstanding the test	N/A
11	Evaluation of test results	m
zet.	The duration of burning not exceeding 30 s	N/A
mr. m	However, for printed circuit boards, the duration of burning not exceeding 15 s	N/A
F whi	ANNEX F (NORMATIVE) CAPACITORS	N/A
MULTER	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:	15 7- 12
1.5	Terms and definitions	ans.
1.5.3	Class X capacitors tested according to subclass X2	N/A
1.5.4	This subclause is applicable	N/A
1.6	Marking	- T
,	Items a) and b) are applicable	N/A
3.4	Approval testing	NI LL
3.4.3.2	Table II is applicable as described	N/A

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The street	IEC 60335-1	Alt Alt I'm Silv	wer are
Clause	Requirement – Test	Result – Remark	Verdict
4.4	Visual examination and shock of dimensions	y with with with	The Marie
4.1	Visual examination and check of dimensions		
24 21 21	This subclause is applicable	THE THE WITH WILL	N/A
4.2	Electrical tests	111 111 111	N/A
4.2.1	This subclause is applicable	THE STILL SHITE WALL	N/A
4.2.5	This subclause is applicable		N/A
4.2.5.2	Only table IX is applicable	Section to the state of the sta	N/A
- JEH	Values for test A apply		N/A
'M's	However, for capacitors in heating appliances the values for test B or C apply	MULL MEL MULL MY	N/A
4.12	Damp heat, steady state	ALTER OLITER ANTIFE ANALY	" "
d 2	This subclause is applicable	2 2 2 st	N/A
" "In	Only insulation resistance and voltage proof are checked	I fee white mile whi	N/A
4.13	Impulse voltage	EK LIEK NITER MITER W	ALT SUBLIT
J.	This subclause is applicable	1/11 2/11 2/11	N/A
4.14	Endurance	LIFE RUTER WALLS MAN	m-
NITEK WY	Subclauses 4.14.1, 4.14.3, 4.14.4 and 4.14.7 applicable	at a lifet mit	N/A
4.14.7	Only insulation resistance and voltage proof are checked	The lift	N/A
. ".	Visual examination, no visible damage	The Mr. In	N/A
4.17	Passive flammability test	y tex tier outer or	Lite NI Lite
	This subclause is applicable	20, 20, 20, 20, 20, 20, 20, 20, 20, 20,	N/A
4.18	Active flammability test	LIER SLIEF WILL WALL	me
<i>A</i> .	This subclause is applicable		N/A
G	ANNEX G (NORMATIVE) SAFETY ISOLATING TRANSFORMERS		
MILL	The following modifications to this standard are app transformers:	olicable for safety isolating	Vr. Alver
7	Marking and instructions	- Tex Liet with the	Р
7.1	Transformers for specific use marked with:		Р
Vrige All	- name, trademark or identification mark of the manufacturer or responsible vendor:	(see appended table)	IV P V
TEN OUT	- model or type reference:	(see appended table)	Po
17	Overload protection of transformers and associated	l circuits	Р
MULTER	Fail-safe transformers comply with subclause 15.5 of IEC 61558-1	E LITER OLITER MOLITER AND	N/A

	IEC 60335-1	all the other acti	" WILL WAS
Clause	Requirement – Test	Result – Remark	Verdict
22	Construction	While white white	Р
MUTIER MU	Subclauses 19.1 and 19.1.2 of IEC 61558-2-6 are applicable	OLIEF WHIEF WHIEF	nite uni P
29	Clearances, creepage distances and solid insulation	at the state of	CEP SEP
29.1, 29.2 and 29.3	The distances specified in items 2a, 2c and 3 in table 13 of IEC 61558-1 apply	LIL WALL MAN MAN	Р
MULTER	For insulated winding wires complying with subclause 19.12.3 of IEC 61558-1 there are no requirements for clearances or creepage distances	White will will	JUP P
NITEK WY	For windings providing reinforced insulation, the distance specified in item 2c of table 13 of IEC 61558-1 is not assessed	while wife while ou	LIEK WALTER
TEK WALTER	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	THE WALTER WALTER WALTER	
H LIEK W	ANNEX H (NORMATIVE) SWITCHES		N/A
JEK J	Switches comply with the following clauses of IEC 6	1058-1, as modified:	TEN TEN
74 784 V	The tests of IEC 61058-1 carried out under the conditions occurring in the appliance	a four on	N/A
, 24.	Before being tested, switches are operated 20 times without load	MILL WILL WILL	N/A
8	Marking and documentation	t liet sites mile	White Maria
, st	Switches are not required to be marked	711 711 7	N/A
ounir oun Tex out	However, switches that can be tested separately from the appliance marked with the manufacturer's name or trade mark and the type reference	Inter white white w	N/A
13	Mechanism	tis mer mer me	11 71
ek niter	The tests may be carried out on a separate sample	t let let alle	N/A
15	Insulation resistance and dielectric strength	mer mer m	- t
15.1	Not applicable	TEK NIER MIER	N/A
15.2	Not applicable	m m	N/A
15.3	Applicable for full disconnection and micro-disconnection	PLIER WALTER WALTE WA	N/A
17	Endurance	TER LIFER WITER WIT	Er White Dur
t alter	Compliance is checked on three separate appliances or switches	- let let ilet	N/A
TO THE	For 17.2.4.4, the number of cycles declared according to 7.1.4 is 10 000, unless	Mer Mer M	N/A

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				7
2 of 115		ALEX A	W	

<u>`_ur`</u>	IEC 60335-1	Company of the second of the s	<u> </u>
Clause	Requirement – Test	Result – Remark	Verdict
W. C.	otherwise specified in 24.1.3 of the relevant part 2 of EN 60335	MULLER MULTER MULTER	N/A
ner n	Switches for operation under no load and which can be operated only by a tool and	Write Muit Muli Muni	N/A
ing mi	switches operated by hand that are interlocked so that they cannot be operated under load,	LIER WHITE WHITE WHITE W	N/A
EK WITE	are not subjected to the tests	of the the state of	N/A
WHITEK	However, switches without this interlock are subjected to the test of 17.2.4.4 for 100 cycles of operation	MILES WILES WHILES WHILE	N/A
zet -	Sub-clauses 17.2.2 and 17.2.5.2 not applicable	a state of	N/A
itek mit	The ambient temperature during the test is that occurring in the appliance during the test of Clause 11 in EN 60335-1	ter ter ter the	N/A
K WILLER	Temperature rise of the terminals not more than 30 K above the temperature rise measured in clause 11 of EN 60335-1 (K)	t with writer writer want	N/A
20	Clearances, creepage distances, solid insulation and assemblies	coatings of rigid printed board	MALTER
STEK IN	Clause 20 is applicable to clearances across full disconnection and micro-disconnection	of Tet lifet	N/A
EK WALTE	It is also applicable to creepage distances for functional insulation, across full disconnection and micro-disconnection, as stated in Table 24	The part of the same	N/A
UNLTEX	ANNEX I (NORMATIVE) MOTORS HAVING BASIC INSULATION THAT IS IN VOLTAGE OF THE APPLIANCE	ADEQUATE FOR THE RATED	N/A
WALLER M	The following modifications to this standard are appliinsulation that is inadequate for the rated voltage of t		MITER V
8	Protection against access to live parts	a at at at	J J
8.1	Metal parts of the motor are considered to be bare live parts	ar mr. mr. m. a	N/A
11 300	Heating	RITE WILL WALL WALL	210
11.3	Temperature rise of the body of the motor is determined instead of the temperature rise of the windings	MALTER MALTER MALTER MALTER	N/A
11.8	Temperature rise of the body of the motor, where in contact with insulating material, not exceeding values in table 3 for the relevant insulating material	SLITER WALTER WALTER WALTER	N/A
16	Leakage current and electric strength	TEX INTER MILIE MINIT WA	4/10
16.3	Insulation between live parts of the motor and its other metal parts not subjected to the test	- ifet stret stret with	N/A
19	Abnormal operation	141 141 1	

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are.	IEC 60335-1	THE LITE ALL MAIN AND	- We
Clause	Requirement – Test	Result – Remark	Verdict
19.1	The tests of 19.7 to 19.9 not carried out	UNLIE WALE WATE WILL	N/A
19.I.101	Appliance operated at rated voltage with each of the	following fault conditions:	N/A
si r s'	- short circuit of the terminals of the motor, including any capacitor incorporated in the motor circuit	mer mer me me	N/A
100	- short circuit of each diode of the rectifier	cit whit with any a	N/A
EK JIE	- open circuit of the supply to the motor	of the set set is	N/A
- Allik	- open circuit of any parallel resistor, the motor being in operation	white the text is	N/A
11/2 1	Only one fault simulated at a time, the tests carried out consecutively	MILE MILE WAY AND	N/A
22	Construction	ALTER MILE MALL MILE	n a
22.I.101	For class I appliances incorporating a motor supplied by a rectifier circuit, the d.c. circuit being insulated from accessible parts of the appliance by double or reinforced insulation	ex whitex whitex whitek wh	N/A
"IX	Compliance checked by the tests specified for double and reinforced insulation	MULL MULL MULL MULL	N/A
Julia di	ANNEX J (NORMATIVE) COATED PRINTED CIRCUIT BOARDS		
ULLE WAL	Testing of protective coatings of printed circuit board IEC 60664-3 with the following modifications:	s carried out in accordance with	لاتين - ۱۸
5.7	Climatic sequence	The Life of	56th - 10 C
t TEX	When production samples are used, three samples of the printed circuit board are tested	who we set it	N/A
5.7.1	Cold	while mer we may	N/A
STEEL IS	The test is carried out at -25°C	et let tet ster	N/A
5.7.3	Rapid change of temperature	mr mr mr m	N/A
LIE WILL	Severity 1 is specified	LEK ITER ALTER OUTER OF	N/A
5.9	Additional tests	The second	* - V
Meri	This subclause is not applicable	t aller outer and whi	N/A
K	ANNEX K (NORMATIVE) OVERVOLTAGE CATEGORIES	THE SLIER SLIER SMITH	Pik
VITEK "W	The information on overvoltage categories is extracted from IEC 60664-1	at let tet tet	NITEP N
CENT CE	Overvoltage category is a numeral defining a transient overvoltage condition	to the set that	P
t St	Equipment of overvoltage category IV is for use at the origin of the installation	MULL MULL MINE MI	N/A

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1	A			¢
	a /	W	1	
		V		

The south	IEC 60335-1	the the the title	were are
Clause	Requirement – Test	Result – Remark	Verdict
MUSTER W	Equipment of overvoltage category III is equipment in fixed installations and for cases where the reliability and the availability of the equipment is subject to special requirements	Whitek whitek whitek white	N/A
ITEK WA	Equipment of overvoltage category II is energy consuming equipment to be supplied from the fixed installation	Category II	WILL BUT
WALL TELL	If such equipment is subjected to special requirements with regard to reliability and availability, overvoltage category III applies	White white white w	N/A
Writex M	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	White white white white	N/A
Feet white	ANNEX L (INFORMATIVE) GUIDANCE FOR THE MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES		
mer	Sequences for the determination of clearances and creepage distances	White white white w	Р
Martie	ANNEX M (NORMATIVE) POLLUTION DEGREE		
NITEK WA	The information on pollution degrees is extracted from IEC 60664-1	White white	V NUTE P
E* J*	Pollution	t the	JE# - J
	The microenvironment determines the effect of pollution on the insulation, taking into account the microenvironment	Tet itet sitet in	Р
JEK .	Means may be provided to reduce pollution at the insulation by effective enclosures or similar	on the set it	P
alt s	Minimum clearances specified where pollution may be present in the microenvironment	net with the till	Р
, m	Degrees of pollution in the microenvironment	itte, write write with	21, -21,
K WALTER	For evaluating creepage distances, the following deg microenvironment are established:	grees of pollution in the	ILLER WILL
WALTER	- pollution degree 1: no pollution or only dry, non-conductive pollution occurs. The pollution has no influence	aintrex unifex unifex uni	N/A
riter an	- pollution degree 2: only non-conductive pollution occurs, except that occasionally a temporary conductivity caused by condensation is to be expected	Pollution degree 2	P N
MALIER	- pollution degree 3: conductive pollution occurs or dry non-conductive pollution occurs that becomes conductive due to condensation that is to be expected	White Multer Whiter M	N/A

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Clause	Reguirement – Test Result – Remark	Verdic
Clause	Requirement – Test Result – Remark	verdic
NILL IN	- pollution degree 4: the pollution generates persistent conductivity caused by conductive dust or by rain or snow	N/A
N C	ANNEX N (NORMATIVE) PROOF TRACKING TEST	N/A
et de	The proof tracking test is carried out in accordance with IEC 60112 with the following modifications:	E
7	Test apparatus	20
7.3	Test solutions	C. Land
-20.	Test solution A is used	N/A
10	Determination of proof tracking index (PTI)	mir-
10.1	Procedure	\(
ITE WALT	The proof voltage is 100V, 175V, 400V or 600V :	N/A
4 25	The test is carried out on five specimens	N/A
TIEK	In case of doubt, additional test with proof voltage reduced by 25V, the number of drops increased to 100	N/A
10.2	Report	7
NLTER WY	The report stating if the PTI value was based on a test using 100 drops with a test voltage of (PTI-25) V	N/A
OL WILL	ANNEX O (INFORMATIVE) SELECTION AND SEQUENCE OF THE TESTS OF CLAUSE 30	P.
NALTER	Description of tests for determination of resistance to heat and fire	P
P NALTEK W	ANNEX P (INFORMATIVE) GUIDANCE FOR THE APPLICATION OF THIS STANDARD TO APPLIANCES USED IN WARM DAMP EQUABLE CLIMATES	N/A
	Modifications applicable for class 0 and 01 appliances having a rated voltage exceeding 150V, intended to be used in countries having a tropical climate and that are marked with symbol IEC 60417-6332	LLTER
WALTER	Modifications may also be applied to class 1 appliances having a rated voltage exceeding 150V, intended to be used in countries having a tropical climate and that are marked with symbol IEC 60417-6332, if liable to be connected to a supply mains that excludes the protective earthing conductor	WALTER
5.7	The ambient temperature for the tests of clauses 11 and 13 is 40 +3/0 °C	N/A
7.1	The appliance marked with symbol IEC 60417-6332	N/A
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	N/A

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1			1	7
	17	V	7	٩
1				

Claves	Demiliament Test	Docult Downsule	Mondiet
Clause	Requirement – Test	Result – Remark	Verdict
MUTER M	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	JULIER WHITE WHITE WHITE	N/A
TILEK MUT	If symbol IEC 60417-6332 is used, its meaning is explained	TEX WITH MUTER WITH	N/A
11.8	The values of Table 3 are reduced by 15 K	e of at	N/A
13.2	The leakage current for class I appliances not exceeding 0.5 mA (mA)	MUTT MUT MUT A	N/A
15.3	The value of t is 37 °C	NITER WALTE WALL WA	N/A
16.2	The leakage current for class I appliances not exceeding 0.5 mA (mA)	Lifet alifet miret anire	N/A
19.13	The leakage current test of 16.2 is applied in addition to the electric strength test of 16.3	et tet tet stet	N/A
Q	ANNEX Q (INFORMATIVE) SEQUENCE OF TESTS FOR THE EVALUATION OF	FELECTRONIC CIRCUITS	P
111	Description of tests for appliances incorporating elec-	tronic circuits	Р
RALTER	ANNEX R (NORMATIVE) SOFTWARE EVALUATION		N/A
nitek wai Kekaite	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	et of whitet whitet	N/A
R.1	Programmable electronic circuits using software	Muri Aur Aur 1	2 - 2
Whitek	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	Whitek whitek whitek white	N/A
R.2	Requirements for the architecture	in at all the	JE*
	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	TEX TEX STEX STEX SALE	N/A
R.2.1.1	Programmable electronic circuits requiring software control the fault/error conditions specified in table R.: structures:		- Janute s
TEK WILL	- single channel with periodic self-test and monitoring	et stret stret sources	N/A
+ 3	- dual channel (homogenous) with comparison	20, 20, 2	N/A
	- dual channel (diverse) with comparison	- 10 14 15 s	N/A

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TEN MIT	WALLE WALLE WALLE WA	IEC 60335-1	THE MITE
Clause	Requirement – Test	Result – Remark	Verdict

Clause	Requirement - Test Result - Remark	verdict
	THE THE SHE SHE SHE	
	Programmable electronic circuits requiring software incorporating measures to control the fault/error conditions specified in table R.1 have one of the following structures:	H WITEH
·	- single channel with functional test	N/A
lite with	- single channel with periodic self-test	N/A
.+ .c*	- dual channel without comparison	N/A
R.2.2	Measures to control faults/errors	71.
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	
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	N/A
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	N/A
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	N/A
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	N/A
R.2.2.6	The software is referenced to relevant parts of the operating sequence and the associated hardware functions	N/A
R.2.2.7	Labels used for memory locations are unique	N/A
R.2.2.8	The software is protected from user alteration of safety-related segments and data	N/A
R.2.2.9	Software and safety-related hardware under its control is initialized and terminates before compliance with clause 19 is impaired	N/A
R.3	Measures to avoid errors	III IN INTER
R.3.1	General	

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Reference	No W 1 X22 X 09 104 300 3	rage 00 01 113		
TER WITE	West Mer Aug Au	IEC 60335-1	et let stet st	ER WILL WHITE
Clause	Requirement – Test	A STEP WALL WAS	Result – Remark	Verdict

WILLER WI	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 following measures to avoid systematic fault in the software are applied	WALTEK
TIEF WIT	Software that incorporates measures used to control the fault/error conditions specified in table R.2 is inherently acceptable for software required to control the fault/error conditions specified in table R.1	N/A
R.3.2	Specification	100
R.3.2.1	Software safety requirements:	N/A
ALL A	The specification of the software safety requirements includes the descriptions listed	N/A
R.3.2.2	Software architecture	with.
R.3.2.2.1	The specification of the software architecture includes the aspects listed	N/A
	- 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;	
NALTE V	- time-based dependencies of sequences and data	" Will.
R.3.2.2.2	The architecture specification is validated against the specification of the software safety requirements by static analysis	N/A
R.3.2.3	Module design and coding	JEK
R.3.2.3.1	Based on the architecture design, software is suitably refined into modules	N/A
WAL	Software module design and coding is implemented in a way that is traceable to the software architecture and requirements	N/A
R.3.2.3.2	Software code is structured	N/A
R.3.2.3.3	Coded software is validated against the module specification by static analysis	N/A
TEK MUTTE	The module specification is validated against the architecture specification by static analysis	N/A
R.3.3.3	Software validation	£ -3
MUL.	The software is validated with reference to the requirements of the software safety requirements specification	N/A

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IEC 60335-1					
Clause	Requirement – Test	Result – Remark	Verdict		
MILIE	Compliance is checked by simulation of:	TEX WILL MILES WILLIAM	N/A		
J. L. T. E.	- input signals present during normal operation	t at let let	N/A		
20, 2	- anticipated occurrences	They must have a	N/A		
LIER N	- undesired conditions requiring system action	et et let i	N/A		

CER CLEE	CLIFE WILL	ABLE R.1 e – GENERAL FAULT	/ERROR CO	NDITIONS	- 16th - C	ET RETT
Component a	Fault/error	Acceptable measures b, c	Definitions	Document reference for applied measure	Document reference for applied test	Verdict
1 CPU 1.1	White	THE MULTI-MULT AND A	EK JEK	NITEK INL	ex unliex	N/A
Registers	Stuck at	Functional test, or	H.2.16.5	n 2.		<i>*</i>
	mer mer	periodic self-test using either:	H.2.16.6	Cler Cler	Wille W	WE
	A	- static memory test, or	H.2.19.6	1/1/2	20, 2,	
MULIER	LLIE WALLY	- word protection with single bit redundancy	H.2.19.8.2	ek waitek waitek	ALTER WALTE	MALTE
1.2 VOID	Et Liter	WILL WILL MAN MI		.+	at at	N/A
1.3	Stuck at	Functional test, or	H.2.16.5	Will an	, we	N/A
Programme counter	M	Periodic self-test, or	H.2.16.6		t et	LIEK WA
Counter		Independent time-slot monitoring, or	H.2.18.10.	MALIE	MULT. W	
	ing in	Logical monitoring of the programme sequence	H.2.18.10.	II. WILLIAM	ounties and	WALT
2 Interrupt handling and execution	No interrupt or too frequent interrupt	Functional test, or time-slot monitoring	H.2.16.5 H.2.18.10.	white whi	are where	N/A
3 Clock	Wrong frequency (for quartz synchroniz ed clock: harmonics/ sub-harmo nics only)	Frequency monitoring, or time slot monitoring	H.2.18.10. 1 H.2.18.10. 4	EX WHITEX	Whitek white	N/A
4. Memory	ang an	An of	et jet	LITER NET	INCTE SO	N/A
4.1		Periodic modified checksum, or	H.2.19.3.1	11. 21.	30	, t
Invariable	faults	multiple checksum, or	H.2.19.3.2	TEN CIEN	CLIFE OLI	E WALT
memory	TEK STEK	word protection with single bit redundancy	H.2.19.8.2	r wr		- KER

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Requirement – Test

Clause



Component	Fault/error	Acceptable measures b, c	Definitions	Document reference for applied measure	Document reference for applied test	Verdict
4.2 Variable memory	DC fault	Periodic static memory test, or word protection with single bit redundancy	H.2.19.6 H.2.19.8.2	iek mutek	unt whi	N/A
4.3 Addressing (relevant to variable and invariable memory)	Stuck at	Word protection with single bit redundancy including the address	H.2.19.8.2	Mritek Mri	et whitet	N/A
5 Internal data path	Stuck at	Word protection with single bit redundancy	H.2.19.8.2	er and	WALL WA	N/A
5.1 VOID		LEK TEK TEK MIT	are and	2/15. 1	1 20	N/A
5.2 Addressing	Wrong address	Word protection with single bit redundancy including the address	H.2.19.8.2	MUTER MU	TEX WALTER	N/A
6 External communicat ion	Hamming distance 3	Word protection with multi-bit redundancy, or CRC – single work, or Transfer redundancy, or Protocol test	H.2.19.8.1 H.2.19.4.1 H.2.18.2.2 H.2.18.14	anity	united uni	N/A
6.1 VOID	11/2		JE J.	LITE I	The Will	N/A
6.2 VOID	× 16*	The city of the same	10, 20,	31 37		N/A
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:	H.2.18.10. 4 H.2.18.18 H.2.18.10. 3	White white	Whitek white	N/A
white white the control of the contr	Wrong sequence	reciprocal comparison independent hardware comparator Logical monitoring, or time-slot monitoring, or Scheduled transmission	H.2.18.15 H.2.18.3 H.2.18.10. 2 H.2.18.10. 4 H.2.18.18	UNITER WALTER	TEX WILTER WINLTEX WILTEX WALTE SLITEX WALTE	WALTER WA

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28						
IEE WITE	IEC 60335-1					
Clause	Requirement – Test	Result – Remark	Verdict			

TABLE R.1 ° – GENERAL FAULT/ERROR CONDITIONS						
Component	Fault/error	Acceptable measures b, c	Definitions	Document reference for applied measure	Document reference for applied test	Verdict
7 Input/output periphery	Fault conditions specified in 19.11.2	Plausibility check	H.2.18.13	iek whitek	MATER MATE	N/A
7.1 VOID	JER LITE	WILL MULL MAY MA			et et	N/A
7.2 Analog I/O	t Tet	Discussion of the second	1104040	Murry M	et test	N/A
7.2.1 A/D and D/A-convert er	Fault conditions specified in 19.11.2	Plausibility check	H.2.18.13	Mulie Muni	outer ou	ilir m Vilir mur
7.2.2 Analog multiplexer	Wrong addressing	Plausibility check	H.2.18.13	ex anifer	NITE WILL	N/A
8 VOID	ex cer	RITER MITE WALL WALL	20, 20,		at at	N/A
9 Custom chips ^d e.g. ASIC, GAL, gate array	Any output outside the static and dynamic functional specificatio n	Periodic self-test	H.2.16.6	milie mi	Whitek w	N/A

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	S ANNEX S (NORMATIVE) BATTERY OPERATED APPLIANCES POWERED BY BATTERIES THAT ARE NON-RECHARGEABLE OR NOT RECHARGED IN THE APPLIANCE	
WALTER	The following modifications to this standard are applicable for battery-operated appliances where the batteries are either non-rechargeable (primary batteries), or	N/A
	rechargeable batteries (secondary batteries) that are not recharged in the appliance	N/A
5.8.1	If the supply terminals for the connection of the battery have no indication of polarity, the more unfavourable polarity is applied	N/A

IEC 60335-1				
Clause	Requirement – Test	Result – Remark	Verdict	
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	JUNITER WHITE VA	N/A	
5.S.102	Appliances are tested as motor-operated appliances.	TER MITER MATER MALE	N/A	
7.1	Appliances marked with the battery voltage (V) and the polarity of the terminals, unless	A THE STIET WITH	N/A	
	the polarity is irrelevant	24, 24	N/A	
Will .	Appliances also marked with:	SLIER WILLIAMSTER AND	ver nve	
INLTEK MI	name, trade mark or identification mark of the manufacturer or responsible vendor:	THE THE NITH MY	N/A	
A .	- model or type reference:	L 10 20 20	N/A	
it with	– IP number according to degree of protection against ingress of water, other than IPX0:	LEK WHITE WHITE WHITE	N/A	
- INLIE	- type reference of battery or batteries:	to the tier with	N/A	
MALTER	If relevant, the positive terminal is indicated by the symbol IEC 60417-5005 and the negative terminal by the symbol IEC 60417-5006	WITH WILLES WALLES AND	N/A	
NITEK WA	If appliances use more than one battery, they are marked to indicate correct polarity connection of the batteries	tet a Martiet was	N/A	
7.6	Additional symbols	The State of the S	N/A	
7.12	The instructions contain the following, as applicable:	me me m	- 1	
METER	- the types of batteries that may be used:	STEP STEP STEEL	N/A	
*	- how to remove and insert the batteries	m. m. m.	N/A	
native w	 non-rechargeable batteries are not to be recharged 	ALTER WALTER WALTER WA	N/A	
LIER WIL	rechargeable batteries are to be removed from the appliance before being charged	TEX WILLER WILLER WILLER	N/A	
ek whiteh	different types of batteries or new and used batteries are not to be mixed	t milet milet whilet	N/A	
1 Et	- batteries are to be inserted with the correct polarity	7 x x	N/A	
neres of	exhausted batteries are to be removed from the appliance and safely disposed of	MULTE MILLE MILL W	N/A	
	 if the appliance is to be stored unused for a long period, the batteries are removed 	STEEL WHITE MUTE MI	N/A	
TEN STATE	- the supply terminals are not to be short-circuited	et 18th JEE 25E	N/A	
11.5	Appliances are supplied with the most unfavourable	supply voltage between	<u> </u>	
MULTE	 0.55 and 1,0 times the battery voltage, if the appliance can be used with non-rechargeable batteries 	MALIER WALTER WALTER	N/A	

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all p	IEC 60335-1	THE RITE WITE WITE	an an
Clause	Requirement – Test	Result – Remark	Verdict
W. Lik	 - 0.75 and 1,0 times battery voltage, if the appliance is designed for use with rechargeable batteries only 	Milit Milit Mile	N/A
und w	The values specified in Table S.101 for the internal resistance per cell of the battery is taken into account	Mile Mile Mile V	N/A
19.1	The tests are carried out with the battery fully charged unless otherwise specified	the state	N/A
19.13	The battery does not rupture or ignite	White White whi	N/A
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	Whitek whitek whitek	N/A
	such a connection is unlikely to occur due to the construction of the appliance	With Mary Mary A	N/A
19.S.102	For appliances with provision for multiple batteries, one or more of the batteries are reversed and the appliance is operated, if reversal of batteries is allowed by the construction	to while while while	N/A
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	UNLIER WILLER	N/A
25.13	This requirement is not applicable to the flexible leads or flexible cord connecting external batteries or a battery box with an appliance	The surfect our	N/A
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	white while white	N/A
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	ALIER WHITE WHITE W	N/A
30.2.3.2	There is no battery in the area of the vertical cylinder used for the consequential needle flame test, unless		N/A
C. C. C. C.	the battery is shielded by a barrier that meets the needle flame test of Annex E, or	Who will the	N/A
2014 - 2	that comprises material classified as V-0 or V-1 according to IEC 60695-11-10	ant with white	N/A
T VIN	ANNEX T (NORMATIVE) UV-C RADIATION EFFECT ON NON-METALLIC M	IATERIALS	N/A
A MUTER	Requirements for non-metallic materials subject to direct or reflected UV-C radiation exposure and whose mechanical and electrical properties are relied upon for compliance with the	EX MILIER MILIER MILIER	N/A

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1101010110	0 110 11 17(22/(00 10 10000	ragorrorro		
LIEN WIT	WHIT WILL WITH W	IEC 60335-1	et let let let	MLIE WALT
Clause	Requirement – Test	IER STEE WALL WAS	Result – Remark	Verdict

Clause	Requirement – Test Result – Remark	verdict
	THE THE STATE OF THE STATE OF THE STATE OF	
	Does not apply to glass, ceramic and similar materials	N/A
m n	Tested as specified in ISO 4892-1 and ISO 4892-2, with the following modifications:	an .
all s	Modifications to ISO 4892-1:	56th .
5.1	Light source	-70
5.1.6	The UV-C emitter is a low pressure mercury lamp with a quartz envelope having a continuous spectral irradiance of 10 W/m2 at 254 nm	N/A
Mr.Lie	Subclause 5.1.6.1 and Table 1 are not applicable	N/A
5.2	Temperature	, j
5.2.4	The black-panel temperature shall be 63 °C ± 3 °C	N/A
5.3	Humidity and wetting	5Et 3
5.3.1	Humidification of the chamber air is specified in part 2 when necessary	N/A
9 🐠	Test report	n.
Let	This clause is not applicable	N/A
142 1	Modifications to ISO 4892-2:	11,-
7.4	Procedure	STEP .
7.1	General	
iek "tie	At least three test specimens are tested	N/A
. "	Ten samples of internal wiring is tested	N/A
7.2	Mounting the test specimens	· Jan
TE*	The specimens are attached to the specimen holders such that they are not subject to any stress	N/A
7.3	Exposure	
LIER MY	Apparatus prepared as specified	N/A
EK WALTER	The test specimens and, if used, the irradiance-measuring instrument are exposed for 1 000 h	N/A
7.4	Measurement of radiant exposure	
WAL V	If used, a radiometer is mounted and calibrated such that it measures the irradiance at the exposed surface of the test specimen	N/A
7.5	Determination of changes in properties after exposure	S
TEX WALT	Material properties and test methods for parts providing mechanical support or impact resistance as specified in Table T.1	N/A
Murr	Material properties and test method for electrical insulation of internal wiring as specified in Table T.2	N/A

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		IEC 60335-1	THE THE STATE ASS	INLIE WALL
Clause	Requirement – Test	ALTER WALT	Result – Remark	Verdict
	15 7/2 1/2	1 10	The still offer the	14, 14,
8	Exposure report			



10.1	TABLE: Power input deviation						
Input deviation	on of/at:	P rated (W)	P measured (W)	ΔP (%)	Required ΔP (%)	Remark	
-nite unit	With 1	n, no m	/	k - EK	TEK -TEK	IIE WALLE	

10.2 TABLE: Current deviation P							
Current de	viation of/at:	I rated (A)	I measured (A)	ΔI (%)	Required ΔI (%)	Remark	
100V/50Hz	ALTE WALTE V	0.6	0.305	-49.2	+20	Tested with	
100V/60Hz		0.6	0311	-48.2	+20	model GTM96180-15	
240V/50Hz	Mr. M.	0.6	0.165	-72.5	+20	07-2.0	
240V/60Hz	- MITEK WALTE	0.6	0.164	-72.7	+20	Output: 5VDC, 3A	
100V/50Hz	* #	0.6	0.338	-43.7	+20	Tested with	
100V/60Hz		0.6	0.342	-43.0	+20	model GTM96180-1	
240V/50Hz	A A	0.6	0.181	-69.8	+20	30	
240V/60Hz	in Mrs. M	0.6	0.182	-69.7	+20	Output: 30VDC, 0.6A	
100V/50Hz	The John	0.6	0.336	-44.0	+20	Tested with	
100V/60Hz		0.6	0.341	-43.2	+20	model GTM96180-18	
240V/50Hz	11/2 1/1/2	0.6	0.181	-69.8	+20	07-2.0-T2	
240V/60Hz	NLTEK INLTEK	0.6	0.180	-70.0	+20	Output: 5VDC, 3.6A	
100V/50Hz		0.6	0.367	-38.8	+20	Tested with	
100V/60Hz	IE WITE WY	0.6	0.371	-38.2	+20	model GTM96180-18	
240V/50Hz	L N A	0.6	0.197	-67.2	+20	30-T2	
240V/60Hz	MULL MULL	0.6	0.196	-67.3	+20	Output: 30VDC, 0.6A	

11.8	TABLE: Heating test, thermocouples						
Test voltage (V)			See below			'n'	$a_{n} = $
OLITER OF	Ambient (°C)		Se	e below	TEK J	el outer	ريروك
Thermocouple locations		Max. tem	Max. temperature rise measured, ΔT (K) Max. tem				
		94V/60Hz		254.4V/50Hz		rise limit,	ΔT (K)
		Horizont al	Vertical	Horizont al	Vertical		
Plug hold	der , , , , , , , , , ,	12.0	12.6	11.1	11.3	For cl.3	30.1

11.8



MOV1 body	26.4	27.6	24.3	24.8	T85-40=45
CX1 body	26.0	27.3	24.0	24.5	T100-40=60
L1 winding	40.7	42.7	37.6	38.3	T130-40=90
C1 body	42.4	44.5	39.2	40.0	T105-40=65
C2 body	37.7	39.6	34.9	35.6	T105-40=65
PCB near Q1 and T1	34.7	36.4	32.0	32.7	T130-40=90
T1 winding	47.6	49.9	44.0	44.8	85-15=70, Class 130
T1 bobbin	39.8	41.7	36.7	37.5	For cl.30.1
CY1 body	44.2	46.3	40.8	41.6	T125-40=85
U3 body	41.9	43.9	38.7	39.5	T100-40=60
C5 body	41.6	43.5	38.3	39.1	T105-40=65
Output lead wire	24.9	26.1	19.6	20.6	T80-40=40
Plastic enclosure inside near T1,	26.9	27.9	21.1	22.2	For cl.30.1
Plastic enclosure outside near T1	17.9	18.9	11.6	12.7	74-15=59
Support	16.1	22.7	13.6	15.0	65-15=50
Ambient	24.4°C	24.6°C	24.3°C	24.5°C	Alt Alt STEE

Ter Title To	est voltage (V)		See	below		SLIFE INCER OF THE
A	mbient (°C)		See	below	-40.	The state of
Thermocouple	e locations	Max. temp	perature ri	se measure	ed, ΔT (K)	Max. temperature
		94V/0	60Hz	254.4\	//50Hz	rise limit, ΔT (K)
		Horizont al	Vertical	Horizont al	Vertical	the must must m
Plug holder	he me m	9.1	9.3	9.6	9.0	For cl.30.1
MOV1 body	TEK TEK NI	19.5	19.8	20.3	18.9	T85-40=45
CX1 body	20, 20	30.9	31.4	29.6	29.8	T100-40=60
L1 winding	L OLITER MILIER	38.5	39.1	35.0	35.1	T130-40=90
C1 body	70 7	44.0	44.6	39.4	39.8	T105-40=65
C2 body	OPTIE WITE	44.7	45.5	40.4	40.5	T105-40=65
PCB near Q1 a	and T1	33.2	33.8	32.3	32.5	T130-40=90
T1 winding	ree were we	46.4	47.1	42.5	43.7	85-15=70, Class 130
T1 bobbin	et let le	36.5	37.1	34.1	33.4	For cl.30.1
CY1 body	me me	28.6	29.0	27.7	27.6	T125-40=85
U3 body	- TEK TIEK	40.5	41.0	36.8	38.9	T100-40=60

TABLE: Heating test, thermocouples



38.5	37.4	35.0	37.0	T105-40=65
28.1	28.4	25.4	27.1	T80-40=40
21.5	21.3	18.4	20.8	For cl.30.1
15.3	15.4	15.0	14.9	74-15=59
14.7	14.9	14.4	14.4	65-15=50
24.4°C	24.6°C	24.2°C	24.3°C	me me m
n model GT	M96180-18	330	at at	TEK STEK STE
	28.1 21.5 15.3 14.7 24.4°C	28.1 28.4 21.5 21.3 15.3 15.4 14.7 14.9 24.4°C 24.6°C	28.1 28.4 25.4 21.5 21.3 18.4 15.3 15.4 15.0 14.7 14.9 14.4	28.1 28.4 25.4 27.1 21.5 21.3 18.4 20.8 15.3 15.4 15.0 14.9 14.7 14.9 14.4 14.4 24.4°C 24.6°C 24.2°C 24.3°C

11.8	a at the test offer	P	
111	Test voltage (V)	See below	7. 2.,
500	Ambient (°C)	See below	<u> </u>

Thermocouple locations	Max. temp	erature ri	ed, ΔT (K)	Max. temperature		
	94V/60Hz		254.4V/50Hz		rise limit, ΔT (K)	
	Label up	Label down	Label up	Label down	OUTER WRITER WRITE	
Pin of appliance inlet	12.4	12.9	11.7	11.9	45-15=30	
MOV1 body	27.3	28.2	25.7	26.2	T85-40=45	
CX1 body	27.0	27.9	25.4	25.9	T100-40=60	
LF1 winding	42.2	43.5	39.7	40.5	T130-40=90	
C1 body	44.0	45.4	41.4	42.3	T105-40=65	
C7 body	39.1	40.4	36.8	37.6	T105-40=65	
PCB near Q1 and T1	35.9	37.1	33.8	34.5	T130-40=90	
T1 winding	49.3	50.9	46.4	47.4	85-15=70, Class 130	
T1 bobbin	41.2	42.5	38.8	39.6	For cl.30.1	
CY2 body	45.8	47.2	43.1	44.0	T125-40=85	
U3 body	43.4	44.8	40.9	41.7	T100-40=60	
C5 body	43.0	44.4	40.5	41.3	T105-40=65	
Output lead wire	25.3	27.0	23.8	24.3	T80-40=40	
Plastic enclosure inside near T1,	27.1	28.9	25.5	26.0	For cl.30.1	
Plastic enclosure outside near T1	17.9	19.8	16.9	17.2	74-15=59	
Test floor	14.4	16.0	13.7	13.9	65-15=50	
Ambient	24.4°C	24.3°C	24.2°C	24.4°C	142 - 23 - 23	



Ambient (°C)		See	e below			
Thermocouple locations	Max. temp	perature r	Max. temperature			
	94V/6	94V/60Hz		//50Hz	rise limit, ΔT (K)	
	Label up	Label down	Label up	Label down	ie write mais .	
Pin of appliance inlet	8.8	9.0	9.4	8.8	45-15=30	
MOV1 body	18.8	19.2	19.9	18.5	T85-40=45	
CX1 body	29.8	30.4	29.0	29.2	T100-40=60	
LF1 winding	37.2	37.9	34.3	34.4	T130-40=90	
C1 body	42.4	43.2	38.6	39.0	T105-40=65	
C7 body	43.2	44.0	39.6	39.7	T105-40=65	
PCB near Q1 and T1	32.1	32.7	31.7	31.9	T130-40=90	
T1 winding	44.8	45.6	41.7	42.8	85-15=70, Class 130	
T1 bobbin	35.3	35.9	33.4	32.7	For cl.30.1	
CY2 body	27.6	28.1	27.2	27.1	T125-40=85	
U3 body	39.0	39.6	36.1	38.1	T100-40=60	
C5 body	35.8	38.7	33.1	35.0	T105-40=65	
Output lead wire	26.9	27.0	24.9	26.6	T80-40=40	
Plastic enclosure inside near T1,	20.3	19.8	18.0	20.4	For cl.30.1	
Plastic enclosure outside near T1	14.7	14.7	14.7	14.6	74-15=59	
Test floor	14.2	14.1	14.1	14.1	65-15=50	
Ambient	24.5°C	24.5°C	24.3°C	24.6°C	SLIFE RILER WITE	
Supplementary information: Tested v	vith model GTI	M96180-1	830-T2	20, 2	2, 2, 2	

	entary information:	The Marie	Mr M	70 <u>1</u>		et Tet
Tempera	ature rise of winding	R ₁ (Ω)	R ₂ (Ω)	Δ T (K)	Max. Δ T (K)	Insulation class
MILL	Ambient, t ₂ (°C)			<u></u>	MULLE WALLE	mr. an
d d	Ambient, t ₁ (°C)		<u> </u>			
The My	Test voltage (V)			: Jek	TER WILLE	" 1 2 - 4
11.8	TABLE: Heating test, resistance method			N/A		

13.2	TABLE: Leakage current	LIER WILL MULL MULL AND	P
y TEN	Heating appliances: 1.15 x rated input (W):	The state of the	- UEL
"EX	Motor-operated and combined appliances: 1.06 x rated voltage (V):	254.4	711 <u> </u>



Leakage current between	I (mA)	Max. allowed I (mA)
Tested with model GTM96180-1507-2.0	H THE THE STEE	WILL WALL MALE
L/N to plastic enclosure	0.03	0.35 peak
L/N to output connector	0.10	0.35 peak
Tested with model GTM96180-1830	14 24 24	a at at
L/N to plastic enclosure	0.04	0.35 peak
L/N to output connector	0.11	0.35 peak
Tested with model GTM96180-1807-2.0-T2	TER WITE WILL WILL	Mrs. Mrs. M.
L/N to plastic enclosure	0.04	0.35 peak
L/N to output connector	0.12	0.35 peak
Tested with model GTM96180-1830-T2	st set set	TER STER WITER OF
L/N to plastic enclosure	0.02	0.35 peak
L/N to output connector	0.11	0.35 peak
Supplementary information:	is me me m	7, 7,

13.3	TABLE: Dielectric strength	THE MULT MULT MULT MILE	P	
Test vol	tage applied between:	Test potential applied (V)	Breakdown / flashover (Yes/No)	
Tested w	vith model GTM96180-1830	A A A A	LIER SLIER WILLER WI	
L/N to pla	astic enclosure	3017	No	
L/N to ou	tput connector	3017	No	
Primary and secondary of T1		3017	No	
Secondary and iron core of T1		3017	No	
One layer of insulation tape		3017	No	
Tested w	rith model GTM96180-1830-T2	ex itex sites outer white	MALL WALL WALL	
L/N to pla	astic enclosure	3017	No No	
L/N to ou	Itput connector	3017	No No	
Primary a	and secondary of T1	3017	No.	
Secondary and iron core of T1		3017	No No	
One layer of insulation tape		3017	No	
Supplem	entary information: Max. RMS volta	ge: 257V for T1.	21/2 24 24	

16.2	TABLE: Leakage current	Mure Mure M	. 19, 2	Р
CTER WAY	Single phase appliances: 1.06 x rated voltage (V):	254.4	ek whitek whi	E VI
ik mulie	Three phase appliances 1.06 x rated voltage divided by √3 (V):	est mires mulies	WALTER WALTE	MULTER
Leakage	e current between	I (mA)	Max. allow	ed I (mA)



Tested with model GTM96180-1507-2.0	We are an	
L/N to plastic enclosure	0.03	0.25
L/N to output connector	0.10	0.25
Tested with model GTM96180-1830	A LIER MITER AND	in with the
L/N to plastic enclosure	0.04	0.25
L/N to output connector	0.11	0.25
Tested with model GTM96180-1807-2.0-T2	T	All All S
L/N to plastic enclosure	0.04	0.25
L/N to output connector	0.12	0.25
Tested with model GTM96180-1830-T2	in with the m	20 20
L/N to plastic enclosure	0.02	0.25
L/N to output connector	0.11	0.25
Supplementary information:	et let det	ALTER MITE AND

16.3	TABLE: Dielectric strength		PIL MILE METER MET
Test volta	age applied between:	Test potential applied (V)	Breakdown / flashover (Yes/No)
Tested wi	th model GTM96180-1830	ex latte with water water	The the sail
L/N to pla	stic enclosure	3017	No No
L/N to out	put connector	3017	No
Primary and secondary of T1		3017	No
Secondar	y and iron core of T1	3017	No
One layer of insulation tape		3017	No we
Tested wi	th model GTM96180-1830-T2	is the the the	at at all
L/N to pla	stic enclosure	3017	mer No Mr a
L/N to out	put connector	3017	No No
Primary a	nd secondary of T1	3017	No No
Secondar	y and iron core of T1	3017	No. of No.
One layer	of insulation tape	3017	No
Suppleme	entary information: Max. RMS volta	ge: 257V for T1.	THE THE STREET

17 TABLE: Overload protection, thermocouple method			
Temperature rise of part/at:		Max. temperature rise measured, ΔT (K)	Max. temperature rise limit, ΔT (K)
Tested w	ith model GTM96180-1507-2.0	LIES NITES WITE MAIL W	in my my my
T1 windir	ig atter with white war	58.6	150
T1 bobbi	n , , , , , , , ,	47.7	For cl.30.1



Output lead wire	28.0	55
Tested with model GTM96180-1830	. I get tet steet is	LIER WITE WHITE WHITE
T1 winding	52.6	150
T1 bobbin	43.6	For cl.30.1
Output lead wire	31.3	55
Tested with model GTM96180-1807-2.	0-T2	White Aut Aut Au
T1 winding	56.7	150
T1 bobbin	47.9	For cl.30.1
Output lead wire	29.0	55
Tested with model GTM96180-1830-T2	2 TEX INTER MILE MALE WAL	The The The
T1 winding	51.1	150
T1 bobbin	41.0	For cl.30.1
Output lead wire	30.9	55
Supplementary information:	THE STEE WILL WALL WALL	4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4

19.7	TABLE: Abnorma	operation, loc	ked rotor/mov	ng parts		4	N/A
-Write S	Test voltage (V)	711		t stee at	SEK-INSTER INST	V S	Vr. 1
	Ambient, t₁ (°C)			: 1/1, 21,		į.	<u></u>
Vr. M	Ambient, t ₂ (°C)			: -45-	WHILE MILLS	11/2	_2
Temper	ature of winding	R ₁ (Ω)	R ₂ (Ω)	Δ T (K)	T (°C)	Max	. T (°C)
- 3	-	th 12th 10	TET STATE	rie and	70		-,, ^
Supplem	nentary information:	any a		at at	TEX LITER O	J. C.	MITTE

19.13 TABLE: Abnormal operation, temperature rises			N/A
Thermod	couple locations	Max. temperature rise measured, ΔT (K)	Max. temperature rise limit, ΔT (K)
- "	at it it	TEX INCTE WHITE THE WALL	Au - Au - Au
Supplem	entary information:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ITER STEEL WITE MY

21.1	TABLE: Impac	t resistance		THE MITTER MAY
Impacts	per surface	Surface tested	Impact energy (Nm)	Comments
Thre	ee blows	Enclosure	0.5J	No hazards
Suppleme	entary information:	LITER WALLE WALL	The Mr. Mr.	* et

24.1 T	ABLE: Components	White whire	me me m	70. 1	P. P.
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾



24.1	TABLE: Components	LIFE MITE.	were the the	7.	Р
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Plug holder 8 Enclosure	SABIC INNOVATIVE PLASTICS B V	SE1X, SE1	PPE+PS, Min. V-1, Min. thickness: 2.0mm, 105°C	IEC/EN 60335-1 UL 94 UL 746 A/B/C/D	Tested with appliance & UL E45329
(Alternative)	SABIC INNOVATIVE PLASTICS B V	SE100	PPE+PS, Min. V-1, Min. thickness: 2.0mm, 95°C	IEC/EN 60335-1 UL 94 UL 746 A/B/C/D	Tested with appliance & UL E45329
(Alternative)	SABIC INNOVATIVE PLASTI Alt. use CS B V	C2950	PC/ABS, Min. V-0, Min. thickness: 2.0mm, 105°C	IEC/EN 60335-1 UL 94 UL 746 A/B/C/D	Tested with appliance & UL E45329
(Alternative)	SABIC INNOVATIVE PLASTICS B V	CX7211	PC/ABS, Min. V-0, Min. thickness: 2.0mm, 90°C	IEC/EN 60335-1 UL 94 UL 746 A/B/C/D	Tested with appliance & UL E45329
(Alternative)	SABIC INNOVATIVE PLASTICS B V	945	PC, Min. V-0, Min. thickness: 2.0mm, 120°C	IEC/EN 60335-1 UL 94 UL 746 A/B/C/D	Tested with appliance & UL E45329
(Alternative)	SABIC INNOVATIVE PLASTICS B V	HF500R	PC, V-0, Min. thickness: 2.0mm, 125°C	IEC/EN 60335-1 UL 94 UL 746 A/B/C/D	Tested with appliance & UL E45329
(Alternative)	SABIC JAPAN L L C	SE1X, SE1	PPE+PS, Min. V-1, Min. thickness: 2.0mm, 105°C	IEC/EN 60335-1 UL 94 UL 746 A/B/C/D	Tested with appliance & UL E207780
(Alternative)	SABIC JAPAN L L C	SE100	PPE+PS, Min. V-1, Min. thickness: 2.0mm, 95°C	IEC/EN 60335-1 UL 94 UL 746 A/B/C/D	Tested with appliance & UL E207780
(Alternative)	SABIC JAPAN L L C	C2950	PC/ABS, Min. V-0, Min. thickness: 2.0mm, 105°C	IEC/EN 60335-1 UL 94 UL 746 A/B/C/D	Tested with appliance & UL E207780
(Alternative)	SABIC JAPAN L L C	CX7211	PC/ABS, Min. V-0, Min. thickness: 2.0mm, 90°C	IEC/EN 60335-1 UL 94 UL 746 A/B/C/D	Tested with appliance & UL E207780
(Alternative)	SABIC JAPAN L L C	945	PC, Min. V-0, Min. thickness: 2.0mm, 120°C	IEC/EN 60335-1 UL 94 UL 746 A/B/C/D	Tested with appliance & UL E207780
(Alternative)	SABIC JAPAN L L C	HF500R	PC, V-0, Min. thickness: 2.0mm, 125°C	IEC/EN 60335-1 UL 94 UL 746 A/B/C/D	Tested with appliance & UL E207780



24.1 T	ABLE: Components				Р
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
(Alternative)	SABIC INNOVATIVE PLASTICS US L L C	945	PC, Min. V-1, Min. thickness: 2.0mm, 120°C	IEC/EN 60335-1 UL 94 UL 746 A/B/C/D	Tested with appliance & UL E121562
(Alternative)	TEIJIN CHEMICALS LTD	LN-1250G	PC, Min. V-0, Min. thickness: 2.0mm, 115°C	IEC/EN 60335-1 UL 94 UL 746 A/B/C/D	Tested with appliance & UL E50075
Plug (Power supply)	GlobTek, Inc.	GT*96180-****	MATTER WALTER	EN 50075:1990	Waltek test report no. WTX22D0918 4387Z
Appliance inle CON1/CN1 (C8 type)	t LECI Electronics Co., Ltd	DB-8	250 Vac, 2.5A, 2 pins, 75°C	IEC/EN 60320-1 UL 498	VDE 40032028 UL E302229
(Alternative)	Delikang Electronics Technology Co Ltd	CDJ-8	250 Vac, 2.5A, 2 pins, 75°C	IEC/EN 60320-1 UL 498	VDE 40025531 UL E217394
(Alternative)	Rich Bay Co Ltd	R-201SN90	250 Vac, 2.5A, 2 pins, 75°C	IEC/EN 60320-1 UL 498	VDE 40030384 UL E184638
(Alternative)	Sun Fair Electric Wire & Cable (HK) Co Ltd	S-01	250 Vac, 2.5A, 2 pins, 75°C	IEC/EN 60320-1 UL 498	VDE 40034449 UL E226643
(Alternative)	Inalways Corp.	0721	250 Vac, 2.5A, 2 pins, 75°C	IEC/EN 60320-1 UL 498	ENEC/FI 2010087
(Alternative)	Zhe Jiang BeiErjia	ST-A03-005	250 Vac, 2.5A, 2 pins, 75°C	IEC/EN 60320-1 UL 498	VDE 40014833 UL E225980
(Alternative)	RongFengIndustr ialCo., Ltd.	RF-180	250 Vac, 2.5A, 2 pins, 75°C	IEC/EN 60320-1 UL 498	VDE 40030168 UL E102641
Appliance inle CON1/CN1 (C18 type)	t HCR ELECTRONICS CO., LTD.	SK05	250 Vac, 10A, 2 pins, 75°C	IEC/EN 60320-1	ENEC NO4018
(Alternative)	RongFengIndustr ial Co.,Ltd	SS-120A	250 Vac, 10A, 2 pins, 75°C	IEC/EN 60320-1	VDE 40028101 UL E102641
PCB	WALEX ELECTRONIC (WUXI) CO LTD	T2, T2A, T2B, T4	Min. 1.6 mm, thickness, min. V-0, 130°C	UL 796	UL E154355



24.1	TABLE: Components				Р
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
(Alternative)	YUANMAN PRINTED CIRCUIT CO LTD	1V0	Min. 1.6 mm, thickness, min. V-0, 130°C	UL 796	UL E74757
(Alternative)	KUNSHAN CITY QIANDENG WUQIAO ELECTRICAL APPLIANCE FACTORY	WQ-A, WQ-B, WQ-C	Min. 1.6 mm, thickness, min. V-0, 130°C	UL 796	UL E492425
(Alternative)	Jiangxi ZHONG XIN HUA Electronics Industry Co Ltd	ZXH-1, ZXH-2, ZXH-3	Min. 1.6 mm, thickness, min. V-0, 130°C	UL 796	UL E331298
(Alternative)	Shenzhen Jia Li Chuang Technology Development Co LTD	JLC-2	Min. 1.6 mm, thickness, min. V-0, 130°C	UL 796	UL E479892
(Alternative)	SUZHOU XINKE ELECTRONICS CO LTD	XK-2, XK-3	Min. 1.6 mm, thickness, min. V-0, 130°C	UL 796	UL E231590
(Alternative)	DONGGUAN HE TONG ELECTRONICS CO LTD	CEM1, 2V0, FR4	Min. 1.6 mm, thickness, min. V-0, 130°C	UL 796	UL E243157
(Alternative)	CHEERFUL ELECTRONIC (HK) LTD	02, 03, 03A	Min. 1.6 mm, thickness, min. V-0, 130°C	UL 796	UL E199724
(Alternative)	JIANGSU DIFEIDA ELECTRONICS CO LTD	DFD-1	Min. 1.6 mm, thickness, min. V-0, 130°C	UL 796	UL E213009
(Alternative)	DONGGUAN DAYSUN ELECTRONIC CO LTD	DS2	Min. 1.6 mm, thickness, min. V-0, 130°C	UL 796	UL E251754
(Alternative)	DAFENG AREX ELECTRONICS TECHNOLOGY CO LTD	02V0, 03V0, 04V0	Min. 1.6 mm, thickness, min. V-0, 130°C	UL 796	UL E186016
(Alternative)	BRITE PLUS ELECTRONICS (SUZHOU) CO LTD	DKV0-3A, DGV0-3A	Min. 1.6 mm, thickness, min. V-0, 130°C	UL 796	UL E177671



24.1 T	ABLE: Components				Р
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
(Alternative)	KUOTIANG ENT LTD	C-2, C-2A	Min. 1.6 mm, thickness, min. V-0, 130°C	UL 796	UL E227299
(Alternative)	SHENZHEN TONGCHUANG XIN ELECTRONICS CO LTD	TCX	Min. 1.6 mm, thickness, min. V-0, 130°C	UL 796	UL E250336
(Alternative)	PACIFIC WIN INDUSTRIAL LTD	PW-02, PW-03	Min. 1.6 mm, thickness, min. V-0, 130°C	UL 796	UL E228070
(Alternative)	SHANGHAI H-FAST ELECTRONICS CO LTD	211001, 411001	Min. 1.6 mm, thickness, min. V-0, 130°C	UL 796	UL E337862
Fuse (F1,F2) (F2 optional)	Conquer ElectronicsCo.,	MST series	T1.6A, 250V	IEC 60127-1 IEC 60127-3	VDE 40017118
	Ltd.	TEK WALTER WA	s unt my	UL 248-1 UL 248-14	UL E82636
(Alternative)	Ever Island Electric Co.,	2010	T1.6A, 250V	IEC 60127-1 IEC 60127-3	VDE 40018781
	Ltd.And Walter Electric	ITE MUTER	ALTE S	UL 248-1 UL 248-14	UL E220181
(Alternative)	Suzhou Walter Electronic	ICP	T1.6A, 250V	IEC 60127-1 IEC 60127-3	VDE 40012824
	Co. Ltd.	CEX NUTER AND	TEX MITEX WILL	UL 248-1 UL 248-14	UL E56092
(Alternative)	ZhongshanLanba o Electrical	RTI-10 Serie(s)	T1.6A, 250V	IEC 60127-1 IEC 60127-3	VDE 40017009
	Appliances Co., Ltd.	Mur. Mus.	TEX TEX	UL 248-1 UL 248-14	UL E213695
(Alternative)	Bel Fuse Ltd.	RST-Serie(s)	T1.6A, 250V	IEC 60127-1 IEC 60127-3	VDE 40011144
	A WILLER MUTER IN	TER MUTEL M	Sir Muri Mur	UL 248-1 UL 248-14	UL E20624
(Alternative)	Cooper Bussmann LLC	SS-5	T1.6A, 250V	IEC 60127-1 IEC 60127-3	VDE 40015513
	Et TET TEN	MALTER MALTER	MULTER MULTER	UL 248-1 UL 248-14	UL E19180
(Alternative)	Dongguan Better	932	T1.6A, 250V	IEC 60127-1 IEC 60127-3	VDE 40033369
	it white white	in in	let still still	UL 248-1 UL 248-14	UL E300003



24.1	TABLE: Components				P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
(Alternative)	Shenzhen Lanson Electronics Co. Ltd.	SMT	T1.6A, 250V	IEC 60127-1 IEC 60127-3 UL 248-1	VDE 40012592 UL E221465
(Alternative)	Conquer Electronics Co., Ltd.	MET series	T1.6A, 250V	UL 248-14 IEC 60127-1 IEC 60127-3 UL 248-1 UL 248-14	VDE 40017157 UL E82636
(Alternative)	Sunny East Enterprise Co. Ltd.	CFD-Serie(s)	T1.6A, 250V	IEC 60127-1 IEC 60127-3 UL 248-1 UL 248-14	VDE 40030246 UL E133774
(Alternative)	Suzhou Walter Electronic	2000	T1.6A, 250V	IEC 60127-1 IEC 60127-3	VDE 40018790
mer n	Co. Ltd.	et tet	NIEK MALTEK MALT	UL 248-1 UL 248-14	UL E56092
(Alternative)	Hollyland Company Limited	5ET	T1.6A, 250V;	IEC 60127-1 IEC 60127-3	VDE 40015669
		The state		UL 248-1 UL 248-14	UL E156471
X capacitor (CX1) (optional)	Cheng Tung Industrial Co., Ltd.	СТХ	Max. 0.47μF, Min.300V, 105°C, X1 or X2	IEC/EN 60384-14 UL 60384-14 UL 1414	ENEC-02671 UL E193049
(Alternative)	Tenta Electric Industrial Co. Ltd.	MEX	Max. 0.47μF, Min.250V, 100°C, X1 or X2	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 119119 UL E222911
(Alternative)	JOEY ELECTRONICS (DONG GUAN) CO LTD	MPX	Max. 0.47µF, Min.300V, 110°C, X1 or X2	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40032481 UL E216807
(Alternative)	Ultra Tech Xiphi Enterprise Co. Ltd.	HQX	Max. 0.47μF, Min.250V, 110°C, X1 or X2	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40015608 UL E183780
(Alternative)	Yuon Yu Electronics Co. Ltd.	MPX	Max. 0.47µF, Min.250V, 100°C, X2	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40032392 UL E200119
(Alternative)	Sinhua Electronics (Huzhou) Co., Ltd.	MPX	Max. 0.47µF, Min.300V, 110°C, X1 or X2	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40014686 UL E237560



24.1 TA	BLE: Components				Р
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
(Alternative)	Jiangsu XinghuaHuayu Electronics Co., Ltd.	MPX	Max. 0.47µF, Min.250V, 100°C, X2	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40022417 UL E311166
(Alternative)	Dain Electronics Co., Ltd.	MEX	Max. 0.47µF, Min.250V, 110°C, X1 or X2	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40018798 UL E147776
(Alternative)	Dain Electronics Co., Ltd.	MPX	Max. 0.47μF, Min.250V, 110°C, X1 or X2	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40018798 UL E147776
(Alternative)	Dain Electronics Co., Ltd.	NPX	Max. 0.47µF, Min.250V, 110°C, X1 or X2	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40018798 UL E147776
(Alternative)	Shenzhen Jinghao Capacitor Co., Ltd.	CBB62B	Max 0.47μF, Min.250V,110°C X2	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40018690 UL E252286
(Alternative)	Carli Electronics Co., Ltd.	MPX	Max. 0.47µF, Min.250V, 100°C, X2	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40008520 UL E120045
(Alternative)	Shantou High-New Technology Dev. Zone Songtian Enterprise Co., Ltd.	MPX MILET	Max. 0.47μF, Min.250V, 100°C, X2	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40034679 UL E208107
(Alternative)	HUA JUNG COMPONENTS CO LTD	MKP	Max. 0.47μF, Min.250V, 100°C, X2	IEC/EN 60384-14 UL 60384-14 UL 1414	ENEC 2001341 UL E149075
Bridging resistor (optional)	TY-Ohm Suzhou Electronic WorksCo. Ltd	RT JEL	1W	UL 1676 UL 6500	UL E321764
(Alternative)	YageoComponen ts(Suzhou) Co. Ltd	HHV WAS	1W until	IEC 62368-1 UL 1676 UL 6500	VDE 40031974 UL E333286
Y capacitor (CY1, CY2)	TDK Corporation	CD	Y1, AC250V, max. 2200pF, T125	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40029780 UL E37861



24.1 T	ABLE: Components	CITETY INLIES	are any an	20, 7,	Р
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
(Alternative)	Success Electronics Co., Ltd.	SE WILLER WALES	Y1, AC250V, max. 2200pF, T125	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40037211 VDE 40020002 UL E114280
(Alternative)	Success Electronics Co., Ltd.	SB	Y1, AC250V, max. 2200pF, T125	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40037221 VDE 40020001 UL E114280
(Alternative)	Murata Mfg. Co., Ltd.	KX	Y1, AC250V, max. 2200pF, T125	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40002831 UL E37921
(Alternative)	Walsin Technology Corp.	AH WALLET ON	Y1, AC250V, max. 2200pF, T125	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40001804 UL E146544
(Alternative)	Haohua Electronic Co.	CT7	Y1, AC250V, max. 2200pF, T125	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40003902 UL E233106
(Alternative)	Xiangtai Electronic (Shenzhen) Co., Ltd.	YO-series	Y1, AC250V, max. 2200pF, T125	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40036880 UL E319473
(Alternative)	Jyh Chung Electronic Co., Ltd.	JD WILLY	Y1, AC250V, max. 2200pF, T125	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 137027 UL E187963
(Alternative)	WELSON INDUSTRIAL CO LT D	WD	Y1, AC250V, max. 2200pF, T125	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40016157 UL E104572
(Alternative)	Shantou High-New Technology Dev. Zone Songtian Enterprise Co., Ltd.	CD, CE	Y1, AC250V, max. 2200pF, T125	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40025754 UL E208107
Varistor MOV (optional)	Thinking Electronic Industrial Co., Ltd.	TVR10471K, TVR14471K	Max. Continuous voltage: min 300Vac(rms), 85°C	IEC 61051-1 IEC 61051-2	VDE 005944 UL E314979
(Alternative)	Thinking Electronic Industrial Co., Ltd.	TVR10471K-M	Max. Continuous voltage: min 300Vac(rms), 125°C	IEC 61051-1 IEC 61051-2	VDE 40036061 UL E314979

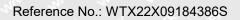
24.1	TA	BLE: Components				Р
Object / par No.	rt	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
(Alternative)).	CENTRA SCIENCE CORP	CNR-10D471K	Max. Continuous voltage: min 300Vac(rms), 105°C	IEC 61051-1 IEC 61051-2	VDE 40008220 UL E316325
(Alternative)	NAC NAC	CENTRA SCIENCE CORP	CNR-14D471K	Max. Continuous voltage: min 300Vac(rms), 105°C	IEC 61051-1 IEC 61051-2	VDE 40008220 UL E316325
(Alternative)		SUCCESS ELECTRONICS CO LTD	SVR10D471K, SVR14D471K	Max. Continuous voltage: min 300Vac(rms), 105°C	IEC 61051-1 IEC 61051-2	VDE 40030401 UL E330256
(Alternative)	-21/L	SUCCESS ELECTRONICS CO LTD	SVR10D471K, SVR14D471K	Max. Continuous voltage: min 300Vac(rms), 125°C	IEC 61051-1 IEC 61051-2	VDE 123677
(Alternative)	TEX	WALSIN TECHNOLOGY CORP	VZ10D471K, VZ14D471K	Max. Continuous voltage: min 300Vac(rms), 85°C	IEC 61051-1 IEC 61051-2	VDE 40010090 UL E309297
(Alternative)		BestBright Electronics Co. Ltd	10D471K, 14D471K	Max. Continuous voltage: min 300Vac(rms), 105°C	IEC 61051-1 IEC 61051-2	VDE 40005858
(Alternative)	NITE	CERAMATE TECHNICAL CO LTD	GNR10D471K, GNR14D471K	Max. Continuous voltage: min 300Vac(rms), 105°C	IEC 61051-1 IEC 61051-2	VDE 40031745 UL E315429
(Alternative))=-	BRIGHTKING (SHENZHEN) CO LTD	10D471K, 14D471K	Max. Continuous voltage: min 300Vac(rms), 105°C	IEC 61051-1 IEC 61051-2	VDE 40027827 UL E327997
(Alternative)	العال العالم	BRIGHTKING (SHENZHEN) CO LTD	10H471K-(+), 471KH10-(+)	Max. Continuous voltage: min 300Vac(rms), 125°C	IEC 61051-1 IEC 61051-2	VDE 40027827 UL E327997
(Alternative)), TER	JOYIN CO LTD	JVT10N471K, JVT14N471K	Max. Continuous voltage: min 300Vac(rms), 125°C	IEC 61051-1 IEC 61051-2	VDE 005937 UL E325508
(Alternative)	مارار مارارد	Shantou High-New Technology Dev. Zone Songtian Enterprise Co., Ltd.	07D471K, 10D471K, 14D471K	Max. Continuous voltage: min 300Vac(rms), 125°C	IEC 61051-1 IEC 61051-2	VDE 40023049 UL E330837



24.1	TABLE: Components	STEEL STEEL			Р
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
(Alternative)	Guangdong Huiwan Electronics Technology Co., LTD.	V-471K-10D, V-471K-10E, V-471K-14D, V-471-14E	Max. Continuous voltage: min 300Vac(rms), 125°C	IEC 61051-1 IEC 61051-2	VDE 40043880 UL E480104
Photo couple U3	Everlight Electronics Co., Ltd.	EL817	Dti=0.5mm, Int., dcr=6.0mm, EXT. dcr=7.7mm, thermal cycling test, 110°C	IEC/EN 60747-5-2	VDE 132249
(Alternative)	COSMO ELECTRONICS CORP	K1010	Dti=0.6mm, Int., dcr=4.0mm EXT. dcr=5.0mm, thermal cycling test, 115°C	IEC/EN 60747-5-2	VDE 101347
(Alternative)	COSMO Electronics Corporation	KP1010	Dti=0.6mm, Int., dcr=4.0mm EXT. dcr=5.0mm, thermal cycling test, 115°C	IEC/EN 60747-5-2	VDE 101347
(Alternative)	Lite-On Technology Corporation	LTV-817	Dti=0.8mm, Int., EXT. dcr=7.8mm, thermal cycling test, 110°C	IEC/EN 60747-5-2	VDE 40015248
(Alternative)	Fairchild Semiconductor Pte Ltd	H11A817B	Insulation voltage: 850V, Transient overvoltage: 6000V, CTI175; Int. Cr/ Ext. Cr: ≥7.0/ 7.0 mm, 30/110/21	IEC/EN 60747-5-2	VDE 40026857
(Alternative)	Fairchild Semiconductor Pte Ltd	FOD817B	Insulation voltage: 850V, Transient overvoltage: 6000V, CTI175; Int. Cr/ Ext. Cr: ≥7.0/ 7.0 mm, 30/110/21	IEC/EN 60747-5-2	VDE 40026857



24.1	TABLE: Components				Р
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
(Alternative)	SHARP CORP ELECTRONIC COMPONENTS AND DEVICES BU	PC817	Insulation voltage: 890V, Transient overvoltage: 9000V, Int. Cr/ Ext. Cr: 7.62/ 7.62 mm, 30/110/21	IEC/EN 60747-5-2	VDE 40008087
(Alternative)	Bright Led Electronics Corp.	BPC-817 A/B/C/D/L	Dti=0.4mm, EXT. dcr=7.0mm, thermal cycling test, 110°C	IEC/EN 60747-5-2	VDE 40007240
(Alternative)	Bright Led Electronics Corp.	BPC-817 M	Dti=0.4mm, EXT. dcr=7.0mm, thermal cycling test, 110°C	IEC/EN 60747-5-2	VDE 40007240
(Alternative)	Bright Led Electronics Corp.	BPC-817 S	Dti=0.4mm, EXT. dcr=7.0mm, thermal cycling test, 110°C	IEC/EN 60747-5-2	VDE 40007240
(Alternative)	TOSHIBA ELECTRONIC DEVICES & STORAGE CORPORATION	TLP817FK TLP817KF	Dti> 0,4mm, Ext cr> 8,0mm, Isolation 3000Vac min., 110°C min., Thermal cycling test	IEC/EN 60747-5-2	VDE 40021173
(Alternative)	Renesas Electronics Corporation	PS2701-1	Dti> 0,4mm, Ext cr> 7.0mm, Isolation 6000Vac min., 100°C min., Thermal cycling test	IEC/EN 60747-5-2	VDE 40008902
Transformer (T1)	GlobTek	TF042, TF043, TF044, TF045	Class B, with critical component listed below	IEC/EN 60335-1	Tested with appliance
-Magnet wire	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD	UEWN/U	MW28-C, 130°C	UL 1446	UL E201757



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24.1	TABLE: Components				Р
Object / par No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
(Alternative)	BOLUO COUNTY XIN LONG ELECTRICIAN DATA CO LTD	2UEW-F	MW 79-C, 155°C	UL 1446	UL E229423
(Alternative)	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD	UEWS/U	MW75-C, 130°C	UL 1446	UL E201757
(Alternative)	JUNG SHING WIRE CO LTD	UEW-4	MW75C, 130°C	UL 1446	UL E174837
(Alternative)	JUNG SHING WIRE CO LTD	UEY-2	MW28-C, 130°C	UL 1446	UL E174837
(Alternative)	JIANGSU HONGLIU MAGNET WIRE TECHNOLOGY CO LTD	2UEW/130	MW75-C, 130°C	UL 1446	UL E335065
(Alternative)	CHANGZHOU DAYANG WIRE & CABLE CO LTD	2UEW/130	MW75-C, 130oC	UL 1446	UL E158909
(Alternative)	WUXI JUFENG COMPOUND LINE CO LTD	2UEWB	MW75#, 130°C	UL 1446	UL E206882
(Alternative)	JIANGSU DARTONG M & E CO LTD	UEW	MW75-C, 130°C	UL 1446	UL E237377
(Alternative)	SHANDONG SAINT ELECTRIC CO LTD	UEW/130	MW75#, 130°C	UL 1446	UL E194410
(Alternative)	ZHEJIANG LANGLI ELECTRIC EQUIPMENTS CO LTD	UEW	MW 79#, 130°C	UL 1446	UL E222214
(Alternative)	NINGBO JINTIAN NEW MATERIAL CO LTD	2UEW	MW 75-C, 130°C	UL 1446	UL E227047
(Alternative)	HUIZHOU HUILI INDUSTRIAL CO LTD	MIW-B(x)	MW 79#, 130°C	UL 1446	UL E322908



24.1 TA	BLE: Components	E: Components							
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹				
-Triple-insulated wire (Secondary)	Great Leoflon IndustrialCo., Ltd.	TRW (B) Serie(s)	Class B, reinforced insulation	IEC/EN 60335-1 UL 2353	VDE 136581 UL E211989				
(Alternative)	KBI COSMOLINK CO.,LTD	TIW-M Serie(s)	Class B, reinforced insulation	IEC/EN 60335-1 UL 2353	VDE 138053 UL E213764				
(Alternative)	Furukawa Electric Co., Ltd.Electronics & Automotive Systems CompanyGlobal Business Development Division	TEX-E	Class B, reinforced insulation	IEC/EN 60335-1 UL 2353	VDE 006735 UL E206440				
(Alternative) TOTOKU ELECTRIC CO LTD		TIW-2	Reinforced insulation, rated 130° C (Class B)	IEC/EN 60335-1 UL 2353	VDE 40044910 UL E166483				
(Alternative) E&B TECHNOLOGY CO LTD		E&B-XXXB E&B-XXXB-1	Reinforced insulation, Class B	IEC/EN 60335-1 UL 2353	VDE 40023473 UL E315265				
(Alternative) SHENZHEN JIUDING NI MATERIAL LTD		DTIW-B	Reinforced insulation, Class B	IEC/EN 60335-1 UL 2353	VDE 40037495 UL E357999				
-Bobbin	CHANG CHUN PLASTICS CO LTD	T375J, T375HF, T373J	V-0, 150°C, thickness 0.45 mm min.	IEC/EN 60335-1	Tested with appliance & UL E59481				
(Alternative)	CHANG CHUN PLASTICS CO LTD	4130	V-0, 140°C, thickness 0.74 mm min.	IEC/EN 60335-1	Tested with appliance & UL E59481				
(Alternative)	SUMITOMO BAKELITE CO LTD	PM-9820, PM-9823, PM-9630	V-0, 150°C, thickness 0.45 mm min.	IEC/EN 60335-1	Tested with appliance & UL E41429				
(Alternative) SHOWA DENKO MATERIALS TECHNO SERVICE CO., LTD.		CP-J-8800	V-0, 150°C, thickness 0.45 mm min.	IEC/EN 60335-1	Tested with appliance & UL E514814				
-Insulating tape 3M COMPANY ELECTRICAL MARKETS DIV (EMD)		1350F-1 1350T-1 44	Min.130°C	IEC/EN 60335-1 UL 510	Tested with appliance & ULE17385				
(Alternative)	BONDTEC PACIFIC CO LTD	370S(b)	Min.130°C	IEC/EN 60335-1 UL 510	Tested with appliance & UL E175868				



24.1 TA	BLE: Components				Р	
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾	
(Alternative)	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	PZ, CT, WF	Min.130°C	IEC/EN 60335-1 UL 510	Tested with appliance & UL E165111	
(Alternative)	HUIZHOU YAHUA ELECTRONIC TECHNOLOGY CO LTD	СТ	Min.130°C	IEC/EN 60335-1 UL 510	Tested with appliance & UL E495875	
(Alternative)	JINGJIANG JINGYI ADHESIVE PRODUCT CO LTD	JY25-A(b)	Min.130°C	IEC/EN 60335-1 UL 510	Tested with appliance & UL E246950	
(Alternative) CHANG SHU LIANG YI TAPE INDUSTRY CO LTD		LY-XX(a)(b)	Min.130°C	IEC/EN 60335-1 UL 510	Tested with appliance & UL E246820	
-Teflon tube GREAT HOLDING INDUSTRIAL CO LTD		TFT, TFS	Min. 300V, 200°C	UL 224	UL E156256	
(Alternative)	SHENZHEN WOER HEAT-SHRINKA BLE MATERIAL CO LTD	WF	600V, 200°C	UL 224	UL E203950	
(Alternative)	CHANGYUAN ELECTRONICS (SHENZHEN) CO LTD	CB-TT-T, CB-TT-S	Min. 300V, 200°C	UL 224	UL E180908	
-Varnish	SUZHOU TAIHU ELECTRIC ADVANCED MATERIAL CO LTD	T-4260(a)	130°C	UL 1446	UL E228349	
Output lead wire KUNSHAN NEWZHICHENG ELECTRONICST ECHNOLOGIES CO LTD		1185, 2464, 2468, 1015	Min. 20AWG, min. 300Vac, min. 80°C	IEC/EN 60335-1	Tested with appliance & UL E237831	
(Alternative) ZHUANG SHANCHUANEL ECTRICALPRO DUCTS(KUNSH AN) COLTD		1185, 2464, 2468, 1015	Min. 20AWG, min. 300Vac, min. 80°C	IEC/EN 60335-1	Tested with appliance & UL E333601	



24.1	TABLE: Components				Р
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
(Alternative)	ZHUANG SHANCHUANEL ECTRICALPRO DUCTS(KUNSH AN) COLTD	SPT-1, SPT-2	Min. 20AWG, min. 300Vac, min. 80°C	IEC/EN 60335-1	Tested with appliance & UL E333536
(Alternative)	SUZHOU JIAHUISHU ELECTRONIC CO LTD	1185, 2464, 2468, 1015	Min. 20AWG, min. 300Vac, min. 80°C	IEC/EN 60335-1	Tested with appliance & UL E353532
(Alternative)	SUZHOUDIOUD EELECTRONICS CO LTD	SPT-1, SPT-2	Min. 20AWG, min. 300Vac, min. 80°C	IEC/EN 60335-1	Tested with appliance & UL E336192
Material of qu connector	Suzhou RLH Electronics Technology Co.,L td	Bress	H65	IEC/EN 60335-1	Tested with appliance
(Alternative)	Suzhou xianlede Electronics Co.,Ltd	Bress	H65	IEC/EN 60335-1	Tested with appliance
(Alternative)	HUANG JI MEC HANICAL ELECT RONIC FTY.	Bress	H65	IEC/EN 60335-1	Tested with appliance

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

Product model	Voltage range	Transformer model
GTM96180 series	5V-8V	TF042
murit murit	8.1V-14.9V	TF043
and the second	15V-18.9V	TF044
WILL MULT WILL	19V-30V	TF045

28.1	TABLE: Threade	d part torque test							
Threaded	part identification	Diameter of thread (mm)	Column number (I, II, or III)	Applied torque (Nm)					
711 2	1 4 4	THE THE ME	WHILE MALL	me m- m					
Supplemen	ntary information:	The The The	a de de	TER TER STEEL					

29.1	TABLE: Clearances	The text of the second of the	P
	Overvoltage category.:	Category II	4 _ 3+
NAC S	ing some some	Type of insulation:	"NUT.



Rated impulse voltage (V):	Min. cl (mm)	Basic (mm)	Supplementary (mm)	Reinforced (mm)	Functional (mm)	Verdict / Remark
330	0,2* / 0,5 / 0,8**	11 ¹² - 11	7,7 7,		ot -st	TEX - TEX
500	0,2* / 0,5 / 0,8**	J+ X	E- TE- MILE	antile and	, and	$v_{i} = i n_{i}$
800	0,2* / 0,5 / 0,8**	-100	m - ~ ~	JF Jd	- 40th	iek Jek n
1 500	0,5 / 0,8** / 1,0***	y - 184	TEL - MITE	Miles - Miles	ans an	20 - 20
2 500	1,5 / <u>2,0</u> ***	>2.0	>2.0	Jr - Jr	>2.0	P I
4 000	3,0 / <u>3,5</u> ***	C. C. C.	LIER WHILE WE	>3.5	12 - 10	Р
6 000	5,5 / 6,0***	111, - 1,	- ,+	et stet	TER - TER	write write
8 000	8,0 / 8,5***	cr ^{est} - "ci	The Mile Mile	"n" "	70	* - s
10 000	11,0 / 11,5***	-0,	, J+ J#	10 th	of the same	LIE NALIE W

^{*)} 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:	Creep	age dis	tances,	basic, su	ppleme	ntary a	nd reinfo	rced in	sulati	on	Р
	g voltage V):	Jake	* /- /		eepage dis (mm) ollution de		uni E	MUL	WITER	الله المالية	EK W	
ite antib	The Market	1		2	NUC.		3			Type o		y UNITE
, ,,,	d	, Et	Ma	aterial g	roup	Ma	terial g	roup		20	~ .	1
WITE	men m	Y 3		II	IIIa/IIIb	et l	e∜-II	IIIa/IIIb*	B**	S**	R**	Verdict
<u> </u>	£50	0,18	0,6	0,85	1,2	1,5	1,7	1,9	27.0	_	Æ	N/A
ک شامان	£50	0,18	0,6	0,85	1,2	1,5	1,7	1,9	115	" wi	-0	N/A
<i>i</i> ≤	50	0,36	1,2	1,7	2,4	3,0	3,4	3,8	_,		4	N/A
w 1	25	0,28	0,75	1,05	1,5	1,9	2,1	2,4	VILLE	100	- and	N/A
d 31	25	0,28	0,75	1,05	1,5	1,9	2,1	2,4	, e t	LEX.	-76	N/A
- 1 1	25	0,56	1,5	2,1	3,0	3,8	4,2	4,8	~_s	~	en_	N/A
2	250	0,56	1,25	1,8	2,5	3,2	3,6	4,0	>2.6	e¥_	CER.	υP
2	250	0,56	1,25	1,8	2,5	3,2	3,6	4,0	The.	>2.6	_	Р
2	250	1,12	2,5	3,6	<u>5,0</u>	6,4	7,2	8,0	-JE		>5.2	P
4	100	1,0	2,0	2,8	4,0	5,0	5,6	6,3	20,			N/A
4	100	1,0	2,0	2,8	4,0	5,0	5,6	6,3	O. E.	METER	100	N/A
4	100	2,0	4,0	5,6	8,0	10,0	11,2	12,6		74	e*	N/A
W. 5	500	1,3	2,5	3,6	5,0	6,3	7,1	8,0	, an	×_ <	160	N/A
5	500	1,3	2,5	3,6	5,0	6,3	7,1	8,0		,Ļ	L.	N/A



29.2	- 37	Creep	age dis		74,		ntary aı	nd reinfor	ced in	sulati	on	Р
(V	yvoltage /):				eepage di (mm) ollution d				e _{tt}			
ar, a	est rest	1	y Sil	2	ek white	MULT	3	Muric		Type o		CENT .
in m	7/2	10,	Ма	aterial group		Ma	terial g	roup	intie mate on		an.	1/1
et let	LIFE	CLIER	" INTE	n Îl	IIIa/IIIb	c_{t_L}	II	IIIa/IIIb*	B**	S**	R**	Verdic
50	00	2,6	5,0	7,2	10,0	12,6	14,2	16,0	²	<u> </u>	210	N/A
>630 ar	nd ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	٠	Ch.	524	N/A
>630 ar	nd ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	-1/2			N/A
>630 ar	nd ≤800	3,6	6,4	9,0	12,6	16,0	18,0	20,0	(1	را		N/A
>800 an	d ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5	211	10,		N/A
>800 an	d ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5	(<u>-6</u>	MITE	<u></u> (N/A
>800 an	d ≤1000	4,8	8,0	11,2	16,0	20,0	22,0	25,0	_	2,—		N/A
>1000 ar	nd ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0	, C	Æ.	100	N/A
>1000 ar	nd ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0	_	.+		N/A
>1000 ar	nd ≤1250	6,4	10,0	14,2	20,0	25,0	28,0	32,0	740	-41		N/A
>1250 ar	nd ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	7.3		÷	N/A
>1250 ar	nd ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	112	2/15	7/1	N/A
>1250 ar	nd ≤1600	8,4	12,6	18,0	25,0	32,0	36,0	40,0	74	-4"		N/A
>1600 ar	nd ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0		_	2,	N/A
>1600 ar	nd ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0	/	5°°	J. 18	N/A
>1600 ar	nd ≤2000	11,2	16,0	22,0	32,0	40,0	44,0	50,0	-2,			N/A
>2000 ar	nd ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0			<u> </u>	N/A
>2000 ar	nd ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0			y —	N/A
>2000 ar	nd ≤2500	15,0	20,0	28,0	40,0	50,0	56,0	64,0	~ T	Serie Contraction of the Contrac	an	N/A
>2500 ar	nd ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0		-	6	N/A
>2500 ar	nd ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0			7/2	N/A
>2500 ar	nd ≤3200	20,0	25,0	36,0	50,0	64,0	72,0	80,0	ķ— ,	e <u>*</u> _	(TEX	N/A
>3200 ar	nd ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	ang	-71	_	N/A
>3200 ar	nd ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	(6)	- 3	<u></u>	N/A
>3200 ar	nd ≤4000	25,0	32,0	44,0	64,0	80,0	90,0	100,0	211.	7/10	- 31	N/A
>4000 ar	nd ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	JE 16	(4°	77.17	N/A
	nd ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	_	SU	_7	N/A
	nd ≤5000	32,0	40,0	56,0	80,0	100,0	112,0	126,0	6	1500	N. C.	N/A
	nd ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0	-67,		200	N/A



29.2 T	ABLE:	Creep	age dis	tances,	basic, su	ppleme	ntary a	nd reinfor	ced in	sulati	on	P
Working vol (V):	tage	, , , , , , , , , , , , , , , , , , ,	TEK OF	Cre Po	, Ju	ite (JEK TEK	WALK				
or sex	TEN.	1	e sitt	2	EK MALTEN	White	3	White		Type o		
in min	n,	20	Ma	terial g	roup	Ma	terial g	roup	Mile	ane.	an	1/2
et let	JEK.	CLIER	MILE	J. fl	Illa/Illb	g), I	II .	IIIa/IIIb*	B**	S**	R**	Verdict
>5000 and ≤6	6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0	°-3	W .	2/2	N/A
>5000 and ≤6	6300	40,0	50,0	72,0	100,0	126,0	142,0	160,0		CENT.	J. E. K.	N/A
>6300 and ≤8	8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	in		_	N/A
>6300 and ≤8	8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	-56	٠	<u> </u>	N/A
>6300 and ≤8	8000	50,0	64,0	90,0	126,0	160,0	180,0	200,0	1/1	10,		N/A
>8000 and ≤1	0000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	JULET	10-16	ਗੁਪੰ	N/A
>8000 and ≤1	0000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	_			N/A
>8000 and ≤1	0000	64,0	80,0	112,0	160,0	200,0	220,0	250,0	(°	Ψ,	ener.	N/A
>10000 and ≤	12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0		<u>_</u>	Z ()	N/A
>10000 and ≤	12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	24/2	24		N/A
>10000 and ≤	12500	80,0	100,0	142,0	200,0	250,0	280,0	320,0	Z.		£	N/A

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

Working voltage (V):	TER WAY	ier uni Friedrich		eepage di (mm) ollution d	LK WALTER			
Er WILLE WALL	NY.	m	2	1	-	3	All I	TER OUTER MATERIA
	, et	Ma	terial g	roup	y Ma	aterial g	jroup	7 1 1
WILL WILL	111 .	$v_{h_{\mu}}$.	g _{en} II	Illa/IIIb	ال	_dli	IIIa/IIIb*	Verdict / Remark
≤10	0,08	0,4	0,4	0,4	1,0	1,0	1,0	N/A
50	0,16	0,56	0,8	1,1	1,4	1,6	1,8	N/A
125	0,25	0,71	1,0	1,4	1,8	2,0	2,2	N/A
250	0,42	1,0	1,4	2,0	2,5	2,8	3,2	PLT JULY P JULY
400	0,75	1,6	2,2	3,2	4,0	4,5	5,0	N/A
500	1,0	2,0	2,8	4,0	5,0	5,6	6,3	N/A
>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	N/A



>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0	N/A
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	N/A
>1600 and ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0	N/A
>2000 and ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0	N/A
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0	N/A
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	N/A
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	N/A
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0	N/A
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	N/A
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	N/A
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	N/A

Supplementary information:

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

30.1	TABLE: Ball P	TABLE: Ball Pressure Test of Thermoplastics							
Allowed	impression diame	eter (mm):	2.0	-C+					
Object/ F	Part No./ Material	Manufacturer/ trademark	Test temperature (°C)	Impression diameter	er (mm)				
Plug hold	der & Enclosure	See appended table 24.1	125	in 1.1 un	100				
T1 bobbi	n _{nu} n	See appended table 24.1	125	0.6	WALTE				

All alternative components listed on table 24.1 were considered and the most unfavourable test result is recorded.

30.2 T	TABLE: Resistance to heat and fire - Glow wire tests							
Object/ Part No./ Material	Manufacturer / / trademark		me m					
		550	650		750		250	Verdict
			te	ti	te	ti	850	
Plug holder & Enclosure	See appended table 24.1	P	-MI	MITEK W	0s	0s	unit P	TEK PITEK
Appliance inlet	See appended table 24.1	NITER O	LIEK ON	LIEB WINL	0s	0s	TE PALT	W P W
T1 bobbin	See appended table 24.1	EK MY	TEN WILL	y white	0s	0s	P	WAL BAILER



Output connector	See appended table 24.1	EK <u>N</u> NLTY	r mrite	TEX.	0s	0s	Р	P Virit
Object/ Part No./ Material	Manufacturer /	Glow		mmability FI), °C	GW ignition temp. (GWIT), °C		Verdict	
	trademark	550	650	750	850	675	775	
13. Tur.	1 - 1 - 1 - 1	_ `		ئى — بى	t Jet	ILITE OF	The Will.	ant a
The test spec	cimen passed the	glow wire	test (GW	/T) with n	o ignition [(te – ti) ≤ 2s]	(Yes/No):	Yes
If no, then surrounding parts passed the needle-flame test of annex E (Yes/No)								
	cimen passed the -wire (Yes/No)?							No (
Ignition of the specified layer placed underneath the test specimen (Yes/No):								

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

All alternative components listed on table 24.1 were considered and the most unfavourable test result is recorded.

30.2/30.2.4 TABLE: Needle- flame test (NFT)							
Object/ Part No./ Material	Manufacturer/ trademark	Duration of application of test flame (ta); (s)	Ignition of specified layer Yes/No Duration of burning (tb)		Verdict		
E WILL MY	<u> </u>			- nii ^{ek} nii	100 C.		

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

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Photo Documentation

Model: GTM96180-1807-2.0-T2



Photo 1



Photo 2

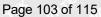




Photo 3



Photo 4

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Photo 5



Photo 6





Photo 7

Model: GTM96180-1830-T2



Photo 8

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W



Photo 9



Photo 10





Photo 11

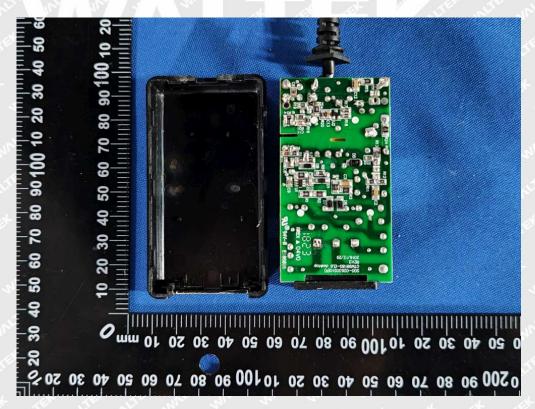


Photo 12

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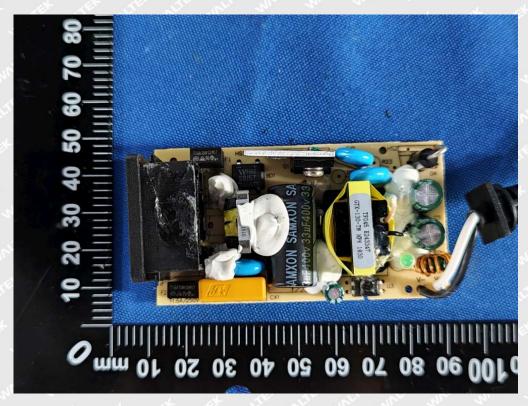


Photo 13

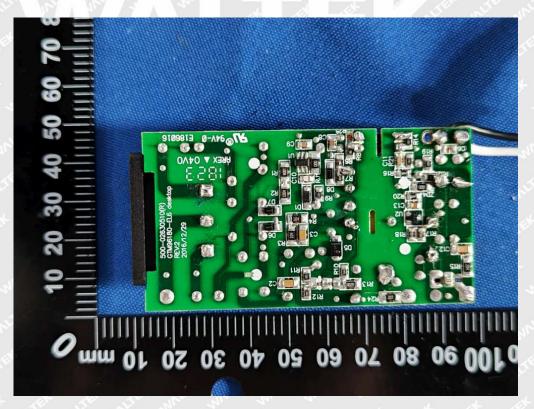


Photo 14

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Photo Documentation

Model: GTM96180-1507-2.0





Photo 15



Photo 16

W



Photo 17



Photo 18





Photo 19

09 04 08 06 00101 02 08 00 09 09 04 08 0

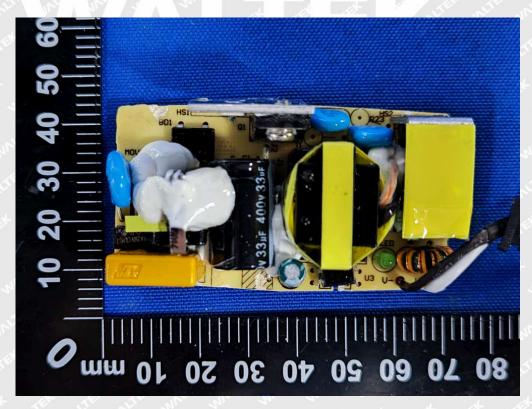


Photo 20

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Photo Documentation



Photo 21

Model: GTM96180-1830



Photo 22



Photo 23



Photo 24





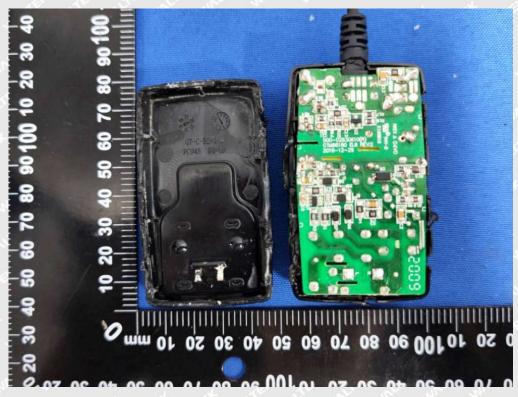


Photo 25

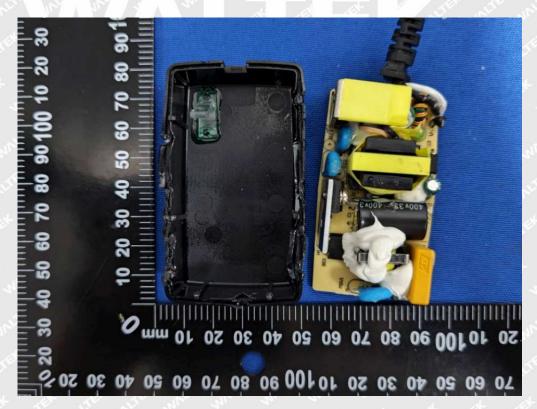


Photo 26

W

Photo Documentation



Photo 27

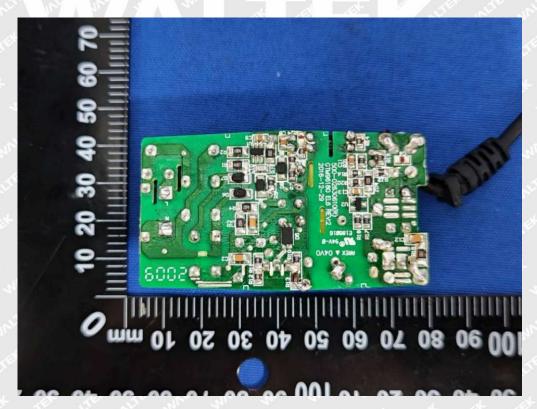


Photo 28

===== End of Report =====