

TEST REPORT

Reference No	- J	WTX22X09184384S
Applicant	:	GlobTek, Inc.
Address	alur	186 Veterans Dr. Northvale, NJ 07647 USA
Manufacturer	TEN	GlobTek, Inc.
Address		186 Veterans Dr. Northvale, NJ 07647 USA
Product Name		Power supply
Model No	ţ:	GT*96180-***** (See pages 4-5 for details)
Test specification	JUNION STEEK	Safety of household and similar electrical appliances Part I: general requirements Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure EN 60335-1:2012+A11:2014+A13:2017+A1:2019+A14:2019+A2:2019 EN 62233:2008
Date of Receipt sample	e i	2022-09-30
Date of Test	: 4	2022-09-30 to 2022-10-21
Date of Issue	, -	2022-11-03
Test Report Form No	F /	WTX_EN60335_1_2012F
Test Result		Pass
	Applicant	Reference No

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
Tel:+86-755-33663308 Fax:+86-755-33663309 Email:sem@waltek.com.cn

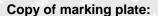
Tested by:	Approved by:
Ian Sun	The tit with the fact with the sail
lan Sun	Harvid Wei

Reference No.: WTX22X09184384S Page 2 of 128



Test item description:	Power supply	y little in the wall will will will will
Trademark:	Glob	Tek, Inc.
Model and/or type reference:	GT*96180-**	*** (See pages 4-5 for details)
Rating(s):	Input: 100-24	40V~, 50-60Hz, 0.6A;
WILES MULTER MULTER MULTER WALL	Output: 5-30'	VDC, 3A MAX , 18W MAX
at the set set .	(See pages 4	1-5 for details)
If Yes, list the related test items and lab Test items: Lab information: Summary of testing:		t of the milet writer writer writer writer
Tests performed (name of test and test) - EN 60335-1:2012+A11:2014+A13:2 +A14:2019+A2:2019 - EN 62233:2008 The submitted samples were found to continuous	2017+A1:2019	Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China
requirements of above specification.		







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.

Reference No.: WTX22X09184384S Page 4 of 128



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:	Murray Mar And
- 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:	et tet stet stiet stiet stiet skrie skrie
The test result presented in this report relate only to the This report shall not be reproduced, except in full, with a "(see Enclosure #)" refers to additional information applicate appended table)" refers to a table appended to the Throughout this report a seema / Seema / Project is upon the seema /	out the written approval of the Issuing testing laboratory pended to the report. he report.
Throughout this report a \square comma / \boxtimes point is u	sed as the decimal separator.

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.

Page 5 of 128



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



Reference No.: WTX22X09184384S Page 6 of

J9184384S	Page 6 of 128		
me m	EN 60335-1	all the state set	WILL WALL
– Test	- THE WITE ST	Result – Remark	Verdict

Clause	Requirement – Test	Result – Remark	Verdict
5	GENERAL CONDITIONS FOR THE TESTS	WHILE MUTE MULTIN	P
WALTER W	Tests performed according to Clause 5, e.g. nature of supply, sequence of testing, etc.	NLIET WILLER WILLER WI	LIER WILL P.
6	CLASSIFICATION		IF THE
6.1	Protection against electric shock: Class 0, 0I, I, III	Class II	Р
. WILE	For a class III construction with a detachable power supply part the appliance is classified according to the detachable power supply part	White white whi	N/A
6.2	Protection against harmful ingress of water	IPX0	N/A
7.50	MARKING AND INSTRUCTIONS	THE THE STEEL OF	TER INTE
7.1	Rated voltage or voltage range (V)	See marking label	Р
LIE MILI	Symbol for nature of supply, or:	See marking label	Bur Bur
e st	Rated frequency (Hz)	See marking label	+ P
me	Rated power input (W), or:	NITER MITER MILITE	N/A
At .	Rated current (A):	See marking label	At Pt
Mary 1	Manufacturer's or responsible vendor's name, trademark or identification mark	See page 1	P
Vrie AV	Model or type reference	See pages 4-5	Jun Pill
et de	Symbol IEC 60417-5172, for class II appliances	See marking label	P
ans	IP number, other than IPX0	IPX0	N/A
WALTER.	Symbol IEC 60417-5180, for class III appliances, unless	SLIEF STEET MILIER	N/A
26	the appliance is operated by batteries only, or	70 × 7	N/A
mr m	for appliances powered by rechargeable batteries recharged in the appliance	Write Muric Music My	N/A
ill with	Symbol IEC 60417-5018, for class II and class III appliances incorporating a functional earth	TEX WITE WILL WILL	N/A
White V	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	JUNITER WHITER WHITER	N/A
7.2	Warning for stationary appliances for multiple supply	at at let a	N/A
1, 2,,	Warning placed in vicinity of terminal cover	in my my my	N/A
7.3	Range of rated values marked with the lower and upper limits separated by a hyphen	100-240V	Jun Fin Pine
WALTER	Different rated values marked with the values separated by an oblique stroke	- NITE WIFE MITER	N/A

	EN 60335-1		
Clause	Requirement – Test	Result – Remark	Verdic
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
ITEX WAY	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	Tex muter muter muter a	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	HANDIER WHITE WHITE WHITE	PIL
NITEK SI	the power input or current are related to the arithmetic mean value of the rated voltage range	THE THE STREET	N/A
TEKWIT	Relation between marking for upper and lower limits of rated power input or rated current and voltage is clear	fet miret miret un	TEX P
7.6	Correct symbols used	* *	P
'Ar	Symbol for nature of supply placed next to rated voltage	MULTE WILL MILL WILL	VР
UNITY V	Symbol for class II appliances placed unlikely to be confused with other marking	White White White White	WP.P
LITE WA	Units of physical quantities and their symbols according to international standardized system	MILTER WILLER	TT P
7.7	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	LITER SLIFE WILL WALL	N/A
7.8	Except for type Z attachment, terminals for connection as follows:	on to the supply mains indicated	N/A
TER ST	- marking of terminals exclusively for the neutral conductor (letter N)	at the first first	N/A
jt jest	- marking of protective earthing terminals (symbol IEC 60417-5019)	a mer and an an	N/A
Me	- marking of functional earthing terminals (symbol IEC 60417-5018)	MULL ANT AND AND	N/A
Mary 1	- marking not placed on removable parts	ALTER ONLIE WALL	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

N/A

control

This applies also to switches which are part of a

Page 8 of 128



Clause	Requirement – Test	Result – Remark	Verdict
Clause	Requirement – Test	Result – Remark	Verdict
ALEK ALL	If figures are used, the OFF position indicated by the figure 0	MULL MULL MULL	N/A
We W	The figure 0 indicates only OFF position, unless no confusion with the OFF position	uniter matter until me	N/A
7.11	Indication for direction of adjustment of controls	TEX STER WITE WITE	N/A
7.12	Instructions for safe use provided	Refer to user manual	P
'm'	Details concerning precautions during user maintenance	White white white	n P
MALTE	The instructions state that:	LIER OLIER WILLIAM	NLTE JINP
ncifek ancif	- 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	P
e liter	- children being supervised not to play with the appliance	t let tet tet	P
whitek 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	united whited whited wh	N/A
NITER WAS	Instructions for class III appliances state that it must only be supplied at SELV, unless	Et Whitet white	N/A
IEK WALTE	it is a battery-operated appliance, the battery being charged outside the appliance	and the southern southern	N/A
- INLIER	For appliances for altitudes exceeding 2 000 m, the maximum altitude is stated	Tex Tex STER	N/A
MALTER VII	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 LIER OLIER WILLE	N/A
EX MULTER	For an appliance intended to be permanently connected to the water mains and not connected by a hose-set, this is stated	t united material antited	N/A
MULTER	If different rated voltages or different rated frequencies are marked, the instructions state what action to be taken to adjust the appliance	MALIER MALIER MALIER 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 whitet	N/A

	EN 60335-1		
Clause	Requirement – Test	Result – Remark	Verdict
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	white white white	N/A
7.12.4	Instructions for built-in appliances:	ne in in	N/A
ile and	- dimensions of space	THE STEE MITTER SIN	N/A
<i>*</i> .6	- dimensions and position of supporting and fixing	4 4	N/A
Mrs	- minimum distances between parts and surrounding structure	White white whit	N/A
until.	- minimum dimensions of ventilating openings and arrangement	White White White	N/A
nlier w	- connection to supply mains and interconnection of separate components	ALTER WALTER WALTER W	N/A
	- allow disconnection of the appliance after installation, by accessible plug or a switch in the fixed wiring, unless	Let Martiet Martiet Mart	N/A
MALTIN	a switch complying with 24.3	L LIER NITER MITE	N/A
7.12.5	Replacement cord instructions, type X attachment with a specially prepared cord	et let let	N/A
2, ,	Replacement cord instructions, type Y attachment	Were Mur My	N/A
LITE WY	Replacement cord instructions, type Z attachment	at a street in	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	Antita Antitat Antita	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 my	N/A
is mi	- min. inlet water pressure, if necessary (Pa):	TEX SLIEN SOLVE SON	N/A
ek waltey	Instructions concerning new and old hose-sets for appliances connected to the water mains by detachable hose-sets	t anifet whifet anife	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	JUNETER JUNETER JUNETER	MULTER WAY
	These instructions may be supplied with the appliance separately from any functional use booklet	LIFER WALTER WALTER WA	P
IER MUTT	They may follow the description of the appliance that identifies parts, or follow the drawings/sketches	et united united unit	The Pari
NALTEX	In addition, instructions are also available in an alternative format such as on a website or on	- JET STEE STEE	MILTE PE

request from the user in a format such as a DVD

Reference No.: WTX22X09184384S Page 10 of 128

110	EN 60335-1	the the the strength	The William
Clause	Requirement – Test	Result – Remark	Verdic
The state of the s	The state of the same of the s	the set of the	The source
	In addition, instructions are also available in an	The Mr. M.	Р
	alternative format such as on a website or in a format such as a DVD	at at at	TEX TEX
41 C		1 1 1 W W	U. U.
7.13	Instructions and other texts in an official language	English	Р
7.14	Markings clearly legible and durable:	Life Wille Will Wil	P
ek antie	Signal words WARNING, CAUTION, DANGER in uppercase having a height as specified:	at the title pure	N/A
	Uppercase letter of the text explaining the signal word not smaller than 1.6 mm	who we set that	N/A
24,	Moulded in, engraved, or stamped markings either	WILL WALL THE	N/A
	raised above or have a depth below the surface of at		it it
	least 0.25 mm, unless	LIER SLIER WILL OF	THE AVE. A
× .	contrasting colours are used	1. 20, 20, 20,	, P
i wrei	Markings checked by inspection, measurement and	CER STEE STEE SOL	P
	rubbing test as specified	211. 211. 22.	
7.15	Marking on a main part	On body	JILL NP
	Marking clearly discernible from the outside, if	24 24 2	P
alifer.	necessary after removal of a cover	Let let lite	WITE WILL
	For portable appliances, cover can be removed or	Wer The My A	N/A
JEE J	opened without a tool	at the second	THE STEEL
	For stationary appliances, name, trademark or	a the th	N/A
	identification mark and model or type reference visible after installation	# 1	y the
000		and the state with	ar ar
	For fixed appliances, name, trademark or	20.	N/A
	identification mark and model or type reference visible after installation according to the instructions	THE LIFE MITE	White White
<u> </u>	Indications for switches and controls placed on or	The Mr. Ch.	N/A
	near the components. Marking not on parts which	let let let.	IN/A
	can be positioned or repositioned in such a way that	inter and the ship	
18 S	the marking is misleading	a at at a	Et JEt .
	The symbol IEC 60417-5018 placed next to the	the multipliants and	N/A
t co	symbol IEC 60417-5172 or IEC 60417-5180		- J
7.16	Marking of a possible replaceable thermal link or	e write write while	N/A
	fuse link clearly visible with regard to replacing the link	70 70 7	. C. P C. P.
B	PROTECTION AGAINST ACCESS TO LIVE PARTS	WILL WILL WATER	P
		- L A	√ JP
3.1	Adequate protection against accidental contact with live parts	LITER INLIER WHITE W	ry Aur A
3.1.1	Requirement applies for all positions, detachable	-20 70	et et P
NATE OF THE PARTY	parts removed	Et LIET STEET OUT	" " " " " " " " " " " " " " " " " " "
	Lamps behind a detachable cover not removed, if	24, 24, 10,	N/A
	conditions met	- LET JET JET	THE WITE
- "	Insertion or removal of lamps, protection against	Mr. Mr. M.	N/A
	contact with live parts of the lamp cap		

Page 11 of 128

1 W.	EN 60335-1	the the the street	are are
Clause	Requirement – Test	Result – Remark	Verdict
MILLE	Use of test probe B of IEC 61032, with a force not exceeding 1 N: no contact with live parts	MULTER MULTER MILE	Р
mr. n	Use of test probe B of IEC 61032 through openings, with a force of 20N: no contact with live parts	MATER WATER MATER WATER	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 MITTER WHITE WHITE	well Park
WALTER.	Test probe 13 also applied through openings in earthed metal enclosures having a non-conductive coating: no contact with live parts	MULTER MULTER MULTER WAL	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
y	For a single switching action obtained by a switching device, requirements as specified	who we want	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:		₫ P
CK 16	- safety extra-low a.c. voltage: peak value not exceeding 42.4 V	The fact of	N/A
Mer	- safety extra-low d.c. voltage: not exceeding 42.4 V	Max. 30.02V d.c.	Р
NALTER.	- or separated from live parts by protective impedance	THE STIEF MITTER WAY	IE PIEK
INLIEK U	If protective impedance: d.c. current not exceeding 2 mA, and	Let the state said	N/A
	a.c. peak value not exceeding 0.7 mA	Max. 0.19mA	Р
ili mi	- for peak values over 42.4 V up to and including 450 V, capacitance not exceeding 0.1 μF	let while while while	N/A
ER WHITE	- for peak values over 450 V up to and including 15 kV, discharge not exceeding 45 μC	t onliter writer arriter or	N/A
WALTER	- for peak values over 15kV, the energy in the discharge not exceeding 350 mJ	STIFE WILLES WALTER WALL	N/A
8.1.5	Live parts protected at least by basic insulation before	re installation or assembly:	N/A
no m	- built-in appliances	etile white whit whi	N/A
TEN JE	- fixed appliances	at let let let	N/A
71,	- appliances delivered in separate units	Mur Aur Aur 2	N/A

Page 12 of 128

in win	EN 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	JUNITER MULTER MULTER MU	TEX WILLES	
The same	Only possible to touch parts separated from live parts by double or reinforced insulation	ITE WILL WILL WILL	Р	
9 Will	STARTING OF MOTOR-OPERATED APPLIANCES	EX SLIER WITER WITE	N/A	
MITER	Requirements and tests are specified in part 2 when necessary	THE THE STEEL	N/A	
10	POWER INPUT AND CURRENT	The My My	P	
10.1	Power input at normal operating temperature, rated voltage and normal operation not deviating from rated power input by more than shown in table 1	NUTER WHITE WHITE WAS	N/A	
Whitek 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	murit mur mur.	N/A	
NITEK JUNI	Otherwise the power input is the arithmetic mean value	THE WRITER WILL	N/A	
	Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless	white milit while	N/A	
WALTER	the rated power input is related to the arithmetic mean value	MILES MALIES MALIES W	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)	IEK WILL P	
ite _{uni} i ek _{uni} iek	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	
MULT.	Otherwise the current is the arithmetic mean value	THE MALTE WALLE ON	N/A	
NITEK W	Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless	STEK WHITEK WHITEK WHIT	ex Join of	
TER WALT	the rated current is related to the arithmetic mean value of the range	et milet milet mile	N/A	
11 00	HEATING	t at let stet	P. P.	
11.1	No excessive temperatures in normal use	They were the s	Р	

Page 13 of 128

EN 60335-1				
Clause	Requirement – Test	Result – Remark	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	
TIL MUT	Temperature rises of windings determined by resistance method, unless	TER MALTER MALTER MALTER.	N/A	
EL WILLE	the windings makes it difficult to make the necessary connections	AND LIES MALIES WALTER ON	Р	
11.4	Heating appliances operated under normal operation at 1.15 times rated power input (W):	NITER MILIER MILIER MILI	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):	LEX WHITEK WHITEK WHITEK	N/A	
11.7	Operation duration corresponding to the most unfavourable conditions of normal use	White while while wh	Р	
11.8	Temperature rises monitored continuously and not exceeding the values in Table 3	(see appended table)	P	
NITER JUNE	If the temperature rise of a motor winding exceeds the value of Table 3, or	et united whiteh	N/A	
iek white	if there is doubt with regard to classification of insulation,	THE MELLE WILLIAM	N/A	
+ ,e+	tests of Annex C are carried out	20 2	N/A	
Mrg.	Sealing compound does not flow out	CLIEB WILL WHILL WALL	N/A	
Zet-	Protective devices do not operate, except	1 1 1 1 1	Р	
ing in	components in protective electronic circuits tested for the number of cycles specified in 24.1.4	With Mary Auth Aug	N/A	
13	LEAKAGE CURRENT AND ELECTRIC STRENGTH TEMPERATURE	AT OPERATING	N P	
13.1	Leakage current not excessive and electric strength adequate	WALLEY WALLEY WALLE WA	Р	
WILLER	Heating appliances operated at 1.15 times the rated power input (W)	White white white whi	N/A	
NLTEK WY	Motor-operated appliances and combined appliances supplied at 1.06 times the rated voltage (V)	(see appended table)	JELL P	
TE WALTE	Protective impedance and radio interference filters disconnected before carrying out the tests	EK WALTER WALTER WALTER W	Р	
13.2	The leakage current is measured by means of the circuit described in Figure 4 of IEC 60990:1999	MITES MITES WHITES WAS	P	

Reference No.: WTX22X09184384S Page 14 of 128

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١,	7	
V	ø,	Z,

in the	EN 60335-1				
Clause	Requirement – Test	Result – Remark	Verdic		
MILIER MALIER	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 WITE WHITE	y Pyl		
* 4	Electric strength tests according to Table 4:	(see appended table)	P		
In.	No breakdown during the tests	INLIE WALL WALL	P		
14	TRANSIENT OVERVOLTAGES	at the set	N/A		
'Elk	Appliances withstand the transient over-voltages to which they may be subjected	while mer mer w	N/A		
nir ul Seit als	Clearances having a value less than specified in table 16 subjected to an impulse voltage test, the test voltage specified in table 6 :	ALTER WHITE WHITE WAS	N/A		
20.	No flashover during the test, unless	in me me m	N/A		
MULTE	of functional insulation if the appliance complies with Clause 19 with the clearance short-circuited	MULTER WALTER WALTER	N/A		
15	MOISTURE RESISTANCE				
15.1	Enclosure provides the degree of moisture protection according to classification of the appliance	and who was an	N/A		
ek walif	Compliance checked as specified in 15.1.1, taking into account 15.1.2, followed by the electric strength test of 16.3	antita while while	N/A		
WALTER	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		
iek wai	Water valves containing live parts in external hoses for connection of an appliance to the water mains tested as specified for IPX7 appliances	THE WILLES WALTER WILLE	N/A		
15.1.2	Hand-held appliance turned continuously through the most unfavourable positions during the test	White walter walte.	N/A		
White .	Built-in appliances installed according to the instructions	WILLER MILIER MILIER M	N/A		
NITEK WAITE	Appliances placed or used on the floor or table placed on a horizontal unperforated support	tiek mitek anitek anit	N/A		
	Appliances normally fixed to a wall and appliances with pins for insertion into socket-outlets are mounted on a wooden board	EX MILIER MALTER MALTER	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	MULTER MULTER WHITER	N/A		

Page	15	of	128
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<u> </u>	EN 60335-1		The wife
Clause	Requirement – Test	Result – Remark	Verdict
The state of the s	all the me and the	t at at the	The Wille
	For IPX4 appliances, the horizontal centre line of the appliance is aligned with the pivot axis of the oscillating tube, and	THE STEE STEET	N/A
izek wni	for appliances normally used on the floor or table, the movement is limited to two times 90° for a period of 5 min, the support being placed at the level of the pivot axis of the oscillating tube		N/A
with	Wall-mounted appliances, take into account the distance to the floor stated in the instructions	* White Write White	N/A
WITEE W	Appliances normally fixed to a ceiling are mounted underneath a horizontal unperforated support, the pivot axis of the oscillating tube located at the level of the underside of the support, and	Whitek whitek whitek	N/A
IEK WALT	for IPX4 appliances, the movement of the tube is limited to two times 90° from the vertical for a period of 5 min	LEX MILLER MUTER MUTE	N/A
k Waliek	Appliances with type X attachment fitted with a flexible cord as described	t stiff street mires	N/A
CLIEK .	Detachable parts subjected to the relevant treatment with the main part	Let Tet Tet	N/A
LIEY	However, if a part has to be removed for user maintenance and a tool is needed, this part is not removed	or our our	N/A
15.2	Spillage of liquid does not affect the electrical insulation		N/A
LIEX	Spillage solution comprising water containing approximately 1 % NaCl and 0.6 % rinsing agent	of the lit	N/A
TEX.	Appliances with type X attachment fitted with a flexible cord as described	me me m	N/A
irek ani	Appliances incorporating an appliance inlet tested with or without an connector, whichever is most unfavourable	net net stet at	N/A
	Detachable parts removed	21/2 211 24	N/A
MILITE	Overfilling test with additional amount of the solution, over a period of 1 min (I):	t while while while	N/A
MULTER	The appliance withstands the electric strength test of 16.3	INITER WALTER WALTER	N/A
LIEK WA	No trace of water on insulation that can result in a reduction of clearances and creepage distances below values specified in clause 29	STEE MALIER MALIER MA	N/A
15.3	Appliances proof against humid conditions	Et TEK JEK ST	Pol
Liek	Checked by test Cab: Damp heat steady state in IEC 60068-2-78		P
74	Detachable parts removed and subjected, if necessary, to the humidity test with the main part	Mur Mur Mu	P

Reference No.: WTX22X09184384S Page 16 of 128

ir wi	EN 60335-1	the all the state of	in an
Clause	Requirement – Test	Result – Remark	Verdic
1100	matt ant and and	The fift of the second	- 0/2/17
2,	Humidity test for 48 h in a humidity cabinet	25°C, 93% R.H.	Р
MATTER	Reassembly of those parts that may have been removed	NUTER WHITER WHITER WHITER	N/A
LEX X	The appliance withstands the tests of clause 16	at the state of	Р
16	LEAKAGE CURRENT AND ELECTRIC STRENGTH	the west mes me a	Р
16.1	Leakage current not excessive and electric strength adequate	at initest whitest whitest whi	P
MALIER	Protective impedance disconnected from live parts before carrying out the tests	SLIET SLIET MITEL MAILE	PER
NITEK NI	Tests carried out at room temperature and not connected to the supply	TER TER STEE STEET	P
16.2	Single-phase appliances: test voltage 1.06 times rated voltage (V)	(see appended table)	Р
t √164	Three-phase appliances: test voltage 1.06 times rated voltage divided by $\sqrt{3}$ (V)	Mar and any an	N/A
m	Leakage current measurements:	(see appended table)	P
All the	Limit values doubled if:	A St. St. St.	N/A
n 1	- all controls have an off position in all poles, or	MUTTER MUTE MUTE MINE	N/A
NLTER VIN	- the appliance has no control other than a thermal cut-out, or	Et Whitet whitet	N/A
EK WITE	- all thermostats, temperature limiters and energy regulators do not have an off position, or	E SLIFE WILLIAM WALTER WA	N/A
- Let	- the appliance has radio interference filters	W + A A	N/A
and	With the radio interference filters disconnected, the leakage current do not exceed limits specified:	Murite Murite Muri Muri	N/A
16.3	Electric strength tests according to Table 7:	(see appended table)	Р
LIEK WAL	Test voltage applied between the supply cord and inlet bushing and cord guard and cord anchorage as specified:	TEX MUTER MUTER MUTER	N/A
ik Jiter	No breakdown during the tests	e at alt set s	P
17	OVERLOAD PROTECTION OF TRANSFORMERS A	AND ASSOCIATED CIRCUITS	Р
WALTER V	No excessive temperatures in transformer or associated circuits in event of short-circuits likely to occur in normal use	(see appended table)	Р
	Appliance supplied with 1.06 or 0.94 times rated voltage under the most unfavourable short-circuit or overload likely to occur in normal use (V)	1.06x240V=254.4V	Р
71/2	Basic insulation is not short-circuited	with him him him	Р
WALTER	Temperature rise of insulation of the conductors of safety extra-low voltage circuits not exceeding the relevant value specified in table 3 by more than 15 K	WALTER WALTER WALTER WALT	P

Page 17 of 128

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S.			
			X.

	EN 60335-1		20, 10,
Clause	Requirement – Test	Result – Remark	Verdict
M. C.	Temperature of the winding not exceeding the value specified in table 8,	MULLER MULLER MULTER	P
ne n	However, limits do not apply to fail-safe transformers complying with sub-clause 15.5 of IEC 61558-1	Write Murie Murr M.	N/A
18	ENDURANCE	ITEK STEEK MITER SMITE	N/A
EK MITEN	Requirements and tests are specified in part 2 when necessary	t let let slet	N/A
19	ABNORMAL OPERATION	21/2 21/2 20	Р
19.1	The risk of fire, mechanical damage or electric shock under abnormal or careless operation obviated	MULTER WALTER WALTER W	NIT WP
is an	Electronic circuits so designed and applied that a fault will not render the appliance unsafe:	(see appended table)	Р
, mr	Appliances incorporating heating elements subjected to the tests of 19.2 and 19.3, and	THE WALTER WALTER WALTER	N/A
AND THE	if the appliance also has a control that limit the temperature during clause 11 it is subjected to the test of 19.4, and	MULEY WATER WATER	N/A
11/2 1	if applicable, to the test of 19.5	White white white wh	N/A
LIEK WA	Appliances incorporating PTC heating elements are also subjected to the test of 19.6	ALL MITEL WILL	N/A
EK MITE	Appliances incorporating motors subjected to the tests of 19.7 to 19.10, as applicable	The street	N/A
MALTER	Appliances incorporating electronic circuits subjected to the tests of 19.11 and 19.12, as applicable	WALLEY WILLEY WASTER	ALTE VALLE
UNLTEK W	Appliances incorporating contactors or relays subjected to the test of 19.14, being carried out before the tests of 19.11	ALTER WALTER WALTER WA	N/A
TEK WIL	Appliances incorporating voltage selector switches subjected to the test of 19.15	TEX WILLER WHITE	N/A
y writer	Unless otherwise specified, the tests are continued until a non-self-resetting thermal cut-out operates, or	L NUTER INVITER WALTER	N/A
dt	until steady conditions are established	7 × 2+	P.
rilek "V	If a heating element or intentionally weak part becomes open-circuited, the relevant test is repeated on a second sample	unite unite unit w	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 nifet nifet milet	N/A
19.3	Test of 19.2 repeated; test voltage (V), power input of 1.24 times rated power input (W):	- Tek Itek Litek	N/A
19.4	Test conditions as in cl. 11, any control limiting the temperature during tests of cl. 11 short-circuited	Mr. M. M.	N/A

Page 18 of 128

	EN 60335-1	it the star star all	100 W
Clause	Requirement – Test	Result – Remark	Verdict
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	Military Military Military	N/A
itek uni	The test repeated with reversed polarity and the other end of the heating element connected to the sheath	TEX MULTER MULTER MU	N/A
Whitek	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	ret ret liet o	N/A
TEK WILL	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)	SEX WHITEX WHITEX WHITEX	N/A
19.7	Stalling test by locking the rotor if the locked rotor torque is smaller than the full load torque, or	ifet sifet miret	N/A
*	locking moving parts of other appliances	4 4	N/A
in an	Locked rotor, capacitors open-circuited one at a time	CITY OF THE WAY	N/A
EK WIT	Test repeated with capacitors short-circuited one at a time, unless	and the sales of the	N/A
	the capacitor is of class S2 or S3 of IEC 60252-1	711 20 20	N/A
TEX	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
izer mur	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	TEK WITTER WITTER WIT	N/A
ik watte	Other appliances supplied with rated voltage for a period as specified	t milet milet while	N/A
Whitek.	Winding temperatures not exceeding values specified in Table 8:	tret stret wites	N/A
19.8	Multi-phase motors operated at rated voltage with one phase disconnected	all the test is	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 miet miet wai	N/A
MULTER	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	MALTER MALTER MALTER	N/A

Page 19 of 128



OI-	The second First	D. II D. I	17. "
Clause	Requirement – Test	Result – Remark	Verdict
All C	Winding temperatures not exceeding values as specified	(see appended table)	N/A
19.10	Series motor operated at 1.3 times rated voltage for 1 min (V)	Intitle Military Military Military	N/A
ite wat	During the test, parts not being ejected from the appliance	LIER WHITER WHITE WHITE W	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	MULTER WHITER WHITER WHI	P.L.
MUT.	they comply with the conditions specified in 19.11.1	OLITER MILIE MALIE MALIE	N/A
IVILLEK AN	Appliances incorporating an electronic circuit that relies upon a programmable component to function correctly, subjected to the test of 19.11.4.8, unless	ALTEX WALTER WALTER	N/A
TER OLI	restarting does not result in a hazard	et let liet sliet o	N/A
* 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	MULTER MULTER MULTER WILL	N/A
	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	WRITER WRITER WRITER WRITER	MA P
4 0	During and after each test the following is checked:	7 1 1 1 1 1	μP
Mer	- the temperature of the windings do not exceed the values specified in table 8	White Autin Autin Au	Р
WALTER	- the appliance complies with the conditions specified in 19.13	WALLER MALLER WALLER WALL	Р
intiek vil	- any current flowing through protective impedance not exceeding the limits specified in 8.1.4	PLIES WHITES WHITES	unit P
	If a conductor of a printed board becomes open-circu to have withstood the particular test, provided both o met:		N/A
MULTER	- the base material of the printed circuit board withstands the test of Annex E	t united white united whi	N/A
WALLEY V	- any loosened conductor does not reduce clearance or creepage distances between live parts and accessible metal parts below the values specified in clause 29	WALTER WALTER WALTER WALTER	N/A
19.11.1	Fault conditions a) to g) in 19.11.2 are not applied to meeting both of the following conditions:	circuits or parts of circuits	N/A
· with	- 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	antib unit unit un	N/A

Page 20 of 128



	EN 60335-1		
Clause	Requirement – Test	Result – Remark	Verdict
Whitek W	- the protection against electric shock, fire hazard, mechanical hazard or dangerous malfunction in other parts of the appliance does not rely on the correct functioning of the electronic circuit	Whitek whitek whitek whitek	N/A
19.11.2	Fault conditions applied one at a time, the appliance specified in cl. 11, but supplied at rated voltage, the conditions applied at rated voltage.		LIFE P IN
ex white	a) short circuit of functional insulation if clearances or creepage distances are less than the values specified in 29	A MUTER MUTER MUTER MUTER	P T
DETER .	b) open circuit at the terminals of any component	THE THE LIFE WIFE	Р
2	c) short circuit of capacitors, unless	my my my	Р
WILL ON	they comply with IEC 60384-14	THE LIEF MITE MITE	N/A
ITEK MIT	d) short circuit of any two terminals of an electronic component, other than integrated circuits.	the the tipe which we	TEK P
it stet	This fault condition is not applied between the two circuits of an optocoupler	- 10 10 10 10 10 10 10 10 10 10 10 10 10	P P
2,	e) failure of triacs in the diode mode	Mer Mer Mer M	N/A
THE S	f) failure of an integrated circuit	tet tet tiet stiet	Р
	g) failure of an electronic power switching device	me me	Р
NLTE VINI SEK VINLTE	Each low power circuit is short-circuited by connecting the low-power point to the pole of the supply source from which the measurements were made	white white w	N/A
19.11.3	If the appliance incorporates a protective electronic circuit that operates to ensure compliance with clause 19, the appliance is tested as specified	MILET MILET MALIET MALIE	PER
19.11.4	Appliances having a device with an off position obtained by electronic disconnection, or	STEEL NEITHER STEEL SHITTER	N/A
<i>i</i> t 1	a device that can be placed in the stand-by mode	The state of	N/A
EK VILER	subjected to the tests of 19.11.4.1 to 19.11.4.7, the device being set in the off position or in the stand-by mode	ter unite unit unit of	N/A
WHITEK Y	Appliances incorporating a protective electronic circuit subjected to the tests of 19.11.4.1 to 19.11.4.7, the tests being carried out after the protective electronic circuit has operated, except that	MILITER MILITER MILITER MILITER	N/A
	appliances operated for 30 s or 5 min during the test of 19.7 are not subjected to the tests for electromagnetic phenomena	et the the other	N/A
, ','L	Surge protective devices disconnected, unless	me me me an	N/A
, Wile,	They incorporate spark gaps	- THE THE THE OUT	N/A

Page 21 of 128



211	EN 60335-1	the site of the site.	and any
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	TEX TEX STEX S	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 WITEX WITEX WITE	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	MULTER WALTER WALTER	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	WHITEK WHITEK WHITEK W	N/A
ur, au	An open circuit test voltage of 2 kV is applicable for the line-to-line coupling mode	Will MULL MULL MA	N/A
The Willy	An open circuit test voltage of 4 kV is applicable for the line-to-earth coupling	iek whitek whitek white	N/A
Whiteh.	Earthed heating elements in class I appliances disconnected	MILTER WALTER WALTER	N/A
19.11.4.5	The appliance is subjected to injected currents in accordance with IEC 61000-4-6, test level 3	ster with writer or	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 Whitet whit	N/A
EK WALTER	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	White White muter	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 OF	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	NITER WHITER WHITER WH	N/A
ik Julia	The appliance continues to operate normally, or	t let set set	N/A
20	requires a manual operation to restart	Mary Aug Aug	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)	MATTER MATTER MATTER WAS	P
19.13	During the tests the appliance does not emit flames, molten metal, poisonous or ignitable gas in hazardous amounts	THE WALLE WALLE	IN PIN
m	Temperature rises not exceeding the values shown in Table 9	(see appended table)	W WP

Page 22 of 128

	EN 60335-1		
Clause	Requirement – Test	Result – Remark	Verdict
- Chr. Car.	Compliance with clause 8 not impaired	WILL MALE MALE	Р
NATER N	If the appliance can still be operated it complies with 20.2	NUTER WHITER WHITER	N/A
LITEK WAY	Insulation, other than of class III appliances or class contain live parts, withstands the electric strength tes specified in table 4:		P
er wife	- basic insulation (V):	1000	P
7,4	- supplementary insulation (V)	1750	P
WILL .	- reinforced insulation (V)	3000	₩P
initek vil	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	NITER WHITER WHITER	N/A
e alter	The appliance does not undergo a dangerous malfunction, and	t let tet tet st	P P
7.E.F	no failure of protective electronic circuits, if the appliance is still operable	mus mus my m	Р
ener a	Appliances tested with an electronic switch in the off mode:	position, or in the stand-by	N/A
in an	- do not become operational, or	THE WALLE	N/A
EK WILTE	- if they become operational, do not result in a dangerous malfunction during or after the tests of 19.11.4	THE WALLEY WAS	N/A
WALTER	If the appliance contains lids or doors that are contro one of the interlocks may be released provided that:	illed by one or more interlocks,	N/A
UNLIEK W	- the lid or door does not move automatically to an open position when the interlock is released, and	THE SLIET SLIET SPLIET	N/A
JEK WI	- the appliance does not start after the cycle in which the interlock was released	cet cet stet with	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 witer writer whiter whi	N/A
MITER	For a relay or contactor with more than one contact, all contacts are short-circuited at the same time	ifet stiet stiet spire	N/A
LIEK W	A relay or contactor operating only to ensure the appliance is energized for normal use is not short-circuited	STEET ON TEX WHITEK WHITEK	N/A
IEK WALT	If more than one relay or contactor operates in clause 11, they are short-circuited in turn	et stret writer writer	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	TIFE THE WALTER WALT	N/A

Reference No.: WTX22X09184384S Page 23 of 128

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		EN 60335-1		
Clause	Requirement – Test	EX SITER WALL I	Result – Remark	Verdict

Clause	Requirement – Test	Result – Remark	Verdict
20	STABILITY AND MECHANICAL HAZARDS	LICH WITH WITH	Р
20.1	Appliances having adequate stability	71	P
20.1	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	AND THE MILITER MALTER	P
WALTE	Tilting test repeated on appliances with heating elements, angle of inclination increased to 15°	at white white white.	N/A
White.	Possible heating test in overturned position; temperature rise does not exceed values shown in table 9	MALIER MALIER MALIER M	N/A
20.2	Moving parts adequately arranged or enclosed as to provide protection against personal injury	No moving part	N/A
TIE MUT	Protective enclosures, guards and similar parts are non-detachable, and	LEK WALTER WALTER WALTER	N/A
y July	have adequate mechanical strength	t of let set	N/A
Zeit-	Enclosures that can be opened by overriding an interlock are considered to be detachable parts	Must My And A	N/A
JIRT V	Self-resetting thermal cut-outs and overcurrent protective devices not causing a hazard by unexpected closure	until until uni un	N/A
SEK SITE	Not possible to touch dangerous moving parts with the test probe described		N/A
21	MECHANICAL STRENGTH	Aury Aur Au	P
21.1	Appliance has adequate mechanical strength and is constructed as to withstand rough handling	antiek whilek whilek w	LITE WP
	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)	STEEL N
ER YER	The appliance shows no damage impairing compliance with this standard, and	in must mer me	P
ANG.	compliance with 8.1, 15.1 and clause 29 not impaired	MILE WALL MILE	Р
MULL A	If doubt, supplementary or reinforced insulation subjected to the electric strength test of 16.3	MUTTER MUTTER MUTTER	N/A
Nrtier ON	If necessary, repetition of groups of three blows on a new sample	STEK MITEK MITEK MITE	N/A
21.2	Accessible parts of solid insulation having strength to prevent penetration by sharp implements	EX THE MITES WATER	WIN THE PART
MUTER	Test not applicable if the thickness of supplementary insulation is at least 1 mm and reinforced insulation at least 2 mm	WALTER WALTER WALTER	NIT PIEK

Page 24 of 128

	EN 60335-1		
Clause	Requirement – Test	Result – Remark	Verdic
W LIFE	The insulation is tested as specified, and does withstand the electric strength test of 16.3	MILLS MILLS MILLS	N/A
22	CONSTRUCTION	WILL WILL MILL MILL	о Р
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
ZUER	- a supply cord fitted with a plug, or	Not stationary appliance	N/A
7,, ,	- a switch complying with 24.3, or	Mrs. Mrs. Mrs. Am.	N/A
Urie Au	- a statement in the instruction sheet that a disconnection incorporated in the fixed wiring is to be provided, or	NITER WHITER WHITER WAITER	N/A
Me	- an appliance inlet	IER WILL WILL MALL MA	N/A
MALTER S	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	MILIER WALTER WALTER WALTER	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
MULTER	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 TEK STEK MITER MIN	P
CLIEK O	Each pin subjected to a torque of 0.4 Nm; the pins are not rotating, unless	THE THE THE STREET	P
50° 50°	rotating does not impair compliance with this standard	mit and and an	N/A
22.4	Appliance for heating liquids and appliance causing undue vibration not provided with pins for insertion into socket-outlets	t tet itet stet stet ni	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 $0.1\mu F$, the appliance being disconnected from the supply at the instant of voltage peak	MULTER MULTER MULTER	P
12.	Voltage not exceeding 34 V (V):	Max. 28V measured	Р
IEW WILL	If compliance relies on the operation of an electronic circuit, the electromagnetic phenomena tests of 19.11.4.3 and 19.11.4.4 are applied	No such electronic circuit	N/A

N/A

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

Page 25 of 128

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Clause	Requirement – Test	Result – Remark	Verdict
- 11	This sine was all and		100
22.6	Electrical insulation not affected by condensing water or leaking liquid	Must all all and all	N/A
	Electrical insulation of Class II appliances not affected in case of a hose rupture or seal leak	MULTER MILLER MILLER WILL	N/A
iil wit	In case of doubt, test as described	TEX STEX WITE WITE W	N/A
22.7	Adequate safeguards against the risk of excessive pressure in appliances provided with steam-producing devices	A MUTER MUTER MUTER MUTE	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	WHITE WHITE WHITE	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
الله الله	the substance has adequate insulating properties	An An	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
NITEH WAY	- a non-self-resetting thermal cut-out is required by the standard, and	at a still milet	N/A
iek mite	- a voltage maintained non-self-resetting thermal cut-out is used to meet it		N/A
t Jet	Non-self-resetting thermal motor protectors have a trip-free action, unless	while while will be	N/A
The .	they are voltage maintained	White Aut Aut Aut	N/A
MULTER ON	Reset buttons of non-self-resetting controls so located or protected that accidental resetting is unlikely	MITER WHITER 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 WRITE WATER ON	C Pur
All P	Obvious locked position of snap-in devices used for fixing such parts	MULTE MILL MILL MILL	N/A
Whi. A	No deterioration of the fixing properties of snap-in devices used in parts that are likely to be removed during installation or servicing	MULTER MULTER MULTER MULTER	N/A
1. 20	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 WITEX WHITEX WHITEX WI	N/A
* WHITE	Removing or fixing in wrong position of handles, knobs etc. indicating position of switches or similar components not possible, if resulting in a hazard	JULIER WHITER WHITER WHITE	N/A

TER OUT	EN 60335-1	at let let let	WILL WILL
Clause	Requirement – Test	Result – Remark	Verdict
JII-LI	A choking hazard does not apply to appliances for commercial use	MULLE MULLE MULL MU	N/A
11 ¹ 11	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 we	Axial force 30 N applied to parts, the shape being so that an axial pull is likely to be applied	LIER WHITE WHITE WHITE	N/A
ek white	If the part is removed and can be contained within the small parts cylinder, it is considered to be a choking hazard	Whitek whitek whitek w	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	Whitek white whitek whitek	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	IN TEK P
y white	No exposed pointed ends of self tapping screws etc., liable to be touched by the user in normal use or during user maintenance	Intex antier antier an	T P
22.15	Storage hooks and the like for flexible cords smooth and well rounded	LIFE BLIEF MILITER MALT	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	At Junited whites	N/A
me	Cord reel tested with 6000 operations, as specified	er with white white w	N/A
WALTER	Electric strength test of 16.3, voltage of 1000 V applied	THE STIPE WITH SHI	N/A
22.17	Spacers not removable from the outside by hand or by means of a screwdriver or a spanner	Let the state with	N/A
22.18	Current-carrying parts and other metal parts resistant to corrosion	of the tel tel	P
22.19	Driving belts not relied upon to provide the required level of insulation, unless	it was much war.	N/A
M	constructed to prevent inappropriate replacement	antiti white white w	N/A
22.20	Direct contact between live parts and thermal insulation effectively prevented, unless	STER SLIER MITER MILE	EV PER
NLTEK NE	material used is non-corrosive, non-hygroscopic and non-combustible	TER TER STER GETER	P
22.21	Wood, cotton, silk, ordinary paper and fibrous or hygroscopic material not used as insulation, unless	No such materials used as insulation	SEL P
7,	impregnated	The Aug Aug 2	N/A
White	This requirement does not apply to magnesium oxide and mineral ceramic fibres used for the	- INLIER WHITER WHITER WH	N/A

electrical insulation of heating elements

	EN 60335-1		
Clause	Requirement – Test	Result – Remark	Verdict
22.22	Appliances not containing asbestos	Not containing asbestos	Р
22.23	Oils containing polychlorinated biphenyl (PCB) not used	Not such parts	P NILL P
22.24	Bare heating elements, except in class III appliances or class III constructions that do not contain live parts, adequately supported	LIEK WHITEK WHITEK WHITEK	N/A
WALTE	In case of rupture, the heating conductor is unlikely to come in contact with accessible metal parts	MULTER WALTER WHITE V	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	TEX WILLEY WHITEX	W ZEX W
22.27	Parts connected by protective impedance separated by double or reinforced insulation	United Market Market	PIE
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	uniter whiter whiter whi	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
Mritek W	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 WHITER WALTER	P
22.31	Neither clearances nor creepage distances over supplementary and reinforced insulation reduced below values specified in clause 29 as a result of wear	te united united white	N PW
WALTER	Neither clearances nor creepage distances between live parts and accessible parts reduced below values		PER

become loose

22.32

for supplementary insulation if wires, screws etc.

Supplementary and reinforced insulation constructed or protected against pollution so that clearances or creepage distances are not reduced below the values in clause 29

Page 28 of 128

100	EN 60335-1				
Clause	Requirement – Test	Result – Remark	Verdict		
antiek 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	Military Miles Miles	N/A		
LIEK WA	Ceramic material not tightly sintered, similar material or beads alone not used as supplementary or reinforced insulation	TEX MULTER MULTER MU	N/A		
WALL	Ceramic and similar porous material in which heating conductors are embedded is considered to be basic insulation, not reinforced insulation	MILIER WILLE WILL	N/A		
'lik	Oxygen bomb test at 70°C for 96 h and 16 h at room temperature	white with with	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		
* WILLER	unearthed metal parts separated from live parts by basic insulation only	t light slight spirit	N/A		
<i>y</i> -	Electrodes not used for heating liquids	20, 20, 2	N/A		
MUTER AN	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	44 44	N/A		
iet mili	the reinforced insulation consists of at least 3 layers	The State of the	N/A		
MATEX	For class II constructions, conductive liquids which are in contact with live parts, not in direct contact with reinforced insulation, unless	MILIER WALTER WALTER	N/A		
Tex.	the reinforced insulation consists of at least 3 layers	A St St	N/A		
	An air layer not used as basic or supplementary insulation in a double insulation system if likely to be bridged by leaking liquid	THE THE WITH W	N/A		
22.34	Shafts of operating knobs, handles, levers etc. not live, unless	t let let life	N/A		
120	the shaft is not accessible when the part is removed	me me m	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	MATER WATER	N/A		
TEK WILT	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		

Reference No.: WTX22X09184384S Page 29 of 128

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W	4

21/2	EN 60335-1		311 - 011
Clause	Requirement – Test	Result – Remark	Verdict
WALTER WAL	This requirement does not apply to handles, levers and knobs on stationary appliances other than those of electrical components, provided they are either reliably connected to an earthing terminal or earthing contact, or separated from live parts by earthed metal	united white whited white	N/A
ek watte	Insulating material covering metal handles, levers and knobs withstand the electric strength test of 16.3 for supplementary insulation	at unifer whilek whilek	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 WILLER MILER WI	N/A
LIEK MIT	they are separated from live parts by double or reinforced insulation	et tet tet stet	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
المالية المالية	the capacitors comply with 22.42	TER STER WIFE NOT	N/A
22.38	Capacitors not connected between the contacts of a thermal cut-out	at Title nite	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
antiek w	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 WHITEK WHITEK WHITEK	N/A
22.41	No components, other than lamps, containing mercury	White White White	P
22.42	Protective impedance consisting of at least two separate components	Two Y capacitors used	TE MAP
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	IN P W
TEX MALT	Resistors checked by the test of 14.1 a) in IEC 60065	et stiff stiff milit	N/A
y LIEY	Capacitors checked by the tests for class Y capacitors in IEC 60384-14	Approved Y capacitors	L P

Reference No.: WTX22X09184384S Page 30 of 128

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	V.		

	EN 60335-1		- 'm
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	LIE P
22.45	When air is used as reinforced insulation, clearances not reduced below the values specified in 29.1.3 due to deformation as a result of an external force applied to the enclosure	A MITTER WHITER WHITER WHI	P
22.46	For programmable protective electronic circuits used to ensure compliance with the standard, the software contains measures to control the fault/error conditions in table R.1	MILIER WHITER WHITER WHITE	N/A
ITEK MALT	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 MUTER MUTER MUTER ON	N/A
WILL	These requirements are not applicable to software used for functional purpose or compliance with clause 11	white write white will	N/A
22.47	Appliances connected to the water mains withstand the water pressure expected in normal use.	mile mil my	N/A
VIL THE	No leakage from any part, including any inlet water hose	White white	N/A
22.48	Appliances connected to the water mains constructed to prevent backsiphonage of non potable water	until white white wh	N/A
22.49	For remote operation, the duration of operation is to be set before the appliance can be started, unless	MULTE MULL MULL MULL	N/A
mrit 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	THE 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	MALTER WALTER WALTER WAL	N/A
MULLE	There is a visual indication showing that the appliance is adjusted for remote operation	WALTER WALTER WALTER WALTER	N/A
nliek wh	These requirements not necessary on appliances that giving rise to a hazard:	t can operate as follows, without	N/A
TEN TE	- continuously, or	at the late of	N/A
11/2	- automatically, or	AUST, MUST, AUST, AU	N/A
t week	- remotely	- A A A A	N/A

Page 31 of 128

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S.		V	

	EN 60335-1		and one
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	unit unit unit	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		
22.54	Button cells and batteries designated R1 not accessible without the aid of a tool, unless	A MULTER MULTER MULTE	N/A
WALTE.	the cover of their compartment can only be opened after at least two independent movements have been applied simultaneously	MULTER WHITER WHITER	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	NUTER WHITE WALL W	N/A
y writer	The requirement concerning position does not preclude use of a push on push off switch	t light wifet mired	N/A
	An indication when the device has been operated is	given by:	N/A
ancii a	tactile feedback from the actuator or from the appliance, or	WALLER WHILE MALLE	N/A
VILLE AVI	- reduction in heat output; or	at a street in	N/A
	- audible and visible feedback		N/A
22.56	Detachable power supply part provided with the part of class III construction	WALTE WALTER WALT	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
11 L	This requirement does not apply to glass, ceramics or similar materials	NITE WAITE WALL V	N/A
23	INTERNAL WIRING	TEK ALTEK MITER ANT	I WILL BU
23.1	Wireways smooth and free from sharp edges	10 1	, P
MLE	Wires protected against contact with burrs, cooling fins etc.	MILIE WALTE WALTE	W P
MILLE	Wire holes in metal well rounded or provided with bushings	MALTER WALTER WALTER	N/A
NLTER WY	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 stiet miet wit	N/A
t NITEK	Beads inside flexible metal conduits contained within an insulating sleeve	- Let Let Let	N/A

Page	32	of	128	

	EN 60335-1		Jr Jr
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
TEK SI	Flexible metallic tubes not causing damage to insulation of conductors	at the text the	N/A
	Open-coil springs not used	re me me m	N/A
ek wite	Adequate insulating lining provided inside a coiled spring, the turns of which touch one another	A MILITER WHITER WHITER	N/A
WALTER.	No damage after 10 000 flexings for conductors flexed during normal use or	THE MILIER WHITER WAS	N/A
nltek ini	100 flexings for conductors flexed during user maintenance	ITEK SLIEK SLIEK MILIT	N/A
TEK MIT	Electric strength test of 16.3, 1000 V between live parts and accessible metal parts	et tet tet stat	N/A
t Jet	Not more than 10% of the strands of any conductor broken, and	with the text	N/A
All All	not more than 30% for wiring supplying circuits that consume no more than 15W	white wife with the	N/A
23.4	Bare internal wiring sufficiently rigid and fixed	INTER WITE WILL WILL	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	Et MALTE	VALUE P
ek walik - zy	Basic insulation electrically equivalent to the basic insulation of cords complying with IEC 60227 or IEC 60245, or	White while while	N/A
TEX	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	J P
iek mi	For class II construction, the requirements for supplementary insulation and reinforced insulation apply, except	ne we will all	N/A
y RITEY	that the sheath of a cord complying with IEC 60227 or IEC 60245 may provide supplementary insulation	t alt the state	N/A
JE#	A single layer of internal wiring insulation does not provide reinforced insulation	and and an a	N/A
23.6	Sleeving used as supplementary insulation on internal wiring retained in position by clamping at both ends, or	unit unit was all	N/A
SEEL ST	be such that it can only be removed by breaking or cutting	of let the the	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	Р

Page 33 of 128

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N.)	J	
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211	EN 60335-1		10
Clause	Requirement – Test	Result – Remark	Verdic
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	n n n n	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)	TEX MULTER WHITE WHITE WHI	N/A
24	COMPONENTS	The life slife wife	P
24.1	Components comply with safety requirements in relevant IEC standards	the tell tell tell	P
1. 1.	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 writer writer writer w	N/A
k SITEK	Relays tested as part of the appliance, or	t at let set si	N/A
All Like	alternatively acc. to IEC 60730-1, and meeting the additional requirements in IEC 60335-1	while and the the	N/A
NA V	The requirements of Clause 29 apply between live parts of components and accessible parts of the appliance	unite unit was wat	WPP
ek walte	Components can comply with the requirements for clearances and creepage distances for functional insulation in the relevant component standard	and the surfect of th	P
WALTER.	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	PER
iner mi	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	n - 20 - 20	on P
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	STEEL WILLER WILLER WILLER	P
ALTEK AIN	If these conditions are not satisfied, the component is tested as part of the appliance.	THE THE LIES STEEL	nite P
IEK WALTE	Power electronic converter circuits not required to comply with IEC 62477-1, they are tested as part of the appliance	EX WILEY WILEY WILLEY	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	MULTER MULTER MULT	F P.E.

Reference No.: WTX22X09184384S Page 34 of 128

Clause	Requirement – Test	- C - C	Result – Remark	Verdict
Jiause	Requirement – Test	41 41	Result – Remark	verdici
MILTER W	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	JULIER MULTER MULTER MULTER	P
itek wai K aliek	Components not tested and found to converge the control of the control of the control of the control of the conditions occurring in the approximation of the conditions occurring in the approximation of the conditions occurring the conditions occurrence the conditions occurrence the conditions occurring the conditions occurrence the c	s not marked king, tested	Tek unitek unitek unitek ut	P
	Lampholders and starterholders that hat tested and found to comply with the rel standard, tested as a part of the applial additionally according to the gauging an interchangeability requirements of the standard	evant IEC nce and nd	Whitek whitek whitek whitek	N/A
EK WILT	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	Est whites anites whites on	P N
24.1.1	4.1.1 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	Р
LIEK WA	If the capacitors have to be tested, they according to Annex F	y are tested	et white whitek	N/A
4.1.2	Transformers in associated switch mod supplies comply with Annex BB of IEC			N/A
JEK	Safety isolating transformers complying with IEC 61558-2-6		and the life	N/A
Wh.	If they have to be tested, they are tested according to Annex G		white many was with	P
4.1.3	Switches complying with IEC 61058-1, the number of cycles of operation being at least 10 000		NITE WALL WILL WALL	N/A
ir wi	If they have to be tested, they are tested according to Annex H		TER MUTER ANTIES MUTE A	N/A
MALTER	If the switch operates a relay or contactor, the complete switching system is subjected to the test		t whilek whilek while while	N/A
WILLER V	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		Whitek whitek whitek	N/A
24.1.4	Automatic controls comply with IEC 60 cycles of operation being at least:	730-1 with the	e relevant part 2. The number of	N/A
me	- thermostats:	10 000	et antitionnil until on	N/A
TEX	- temperature limiters:	1 000	t at at a	N/A
1/1	- self-resetting thermal cut-outs:	300	nite whit was well	N/A

Reference No.: WTX22X09184384S Page 35 of 128

24/24	EN 6033)J-1		ar ar
Clause	Requirement – Test	in me	Result – Remark	Verdict
Milk	- voltage-maintained non-self-resetting thermal cut-outs	1 000	MULLER MULLER MULTER	N/A
no u	- other non-self-resetting thermal cut-outs	30	WILL MILL MALLE	N/A
et i	- timers:	3 000	4 4 1	N/A
,,	- energy regulators:	10 000	THE MUTTER MUTTER	N/A
WALTER	The number of cycles for controls operating clause 11 need not be declared, if the applia meets the requirements of this standard whare short-circuited	ance	A MULTER MULTER MULTE	N/A
in .	Thermal motor protectors are tested in comwith their motor under the conditions specifi Annex D.		STEET WITH WITH SH	N/A
WALTER	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	SEX MUTER MUTER MUTER	N/A
unliek v	Thermal cut-outs of the capillary type comp the requirements for type 2.K controls in IEC 60730-2-9		UNITER WHITER WHITER	N/A
24.1.5	Appliance couplers complying with IEC 603.	20-1	Approved	TE NUT PAI
ek white	However, for class II appliances classified h than IPX0, the appliance couplers comply w 60320-2-3		Julie Williamite	N/A
WALTER	Interconnection couplers complying with IEC 60320-2-2		NIET WILL SWIET	N/A
24.1.6	Small lamp holders similar to E10 lamphold complying with IEC 60238, the requirements 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		TEX WHITEX WHITEX WHI	N/A
24.1.8	The relevant standard for thermal links is IE	C 60691	mr mr m	N/A
MULTER A	Thermal links not complying with IEC 60691 are considered to be an intentionally weak part for the purposes of Clause 19		WALLER MUTER MUTER	N/A
24.1.9	Contactors and relays, other than motor sta relays, tested as part of the appliance	rting	HITEK WILLEY WILLEY	N/A
MULTER	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 whi	N/A
24.2	Appliances not fitted with:	"IL	24 24 24	Р

Reference No.: WTX22X09184384S Page 36 of 128

EN 60335-1			
Clause	Requirement – Test	Result – Remark	Verdict
NI CLE	- switches, automatic controls or power supplies in flexible cords	until muter miter	P
MULT M	- devices causing the protective device in the fixed wiring to operate in the event of a fault in the appliance	Inties Mutter Junitary	TEX LIEX ON
Et (E	- thermal cut-outs that can be reset by soldering, unless	it with the sile	Р
"In"	the solder has a melding point of at least 230 °C	MALIE WALTE WAL	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	EX WALLEY WALLEY WALLEY	N/A
24.5	Capacitors in auxiliary windings of motors marked with their rated voltage and capacitance and used accordingly	UNLIER WALTER WALTER	N/A
	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 function was	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
71/2 VI	In addition, the motors are complying with the requirements of Annex I	NITE WALTE WALL V	N/A
24.7	Detachable hose-sets for connection of appliances to the water mains comply with IEC 61770	TEX WILLER WILLER WAY	N/A
	They are supplied with the appliance	t let tet ale	N/A
	Appliances intended to be permanently connected to the water mains not connected by a detachable hose-set	STEEL WILLIAM STEEL	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	erek unirek unirek un	N/A
	One or more of the following conditions are to be me	et: White white	N/A
	- the capacitors are of class S2 or S3 according to IEC 60252-1;	- LIEF SLIEF BLIEF	N/A

	EN 60335-1		
Clause	Requirement – Test	Result – Remark	Verdict
W LIE	- the capacitors are housed within a metallic or ceramic enclosure	WHITE WAS A STATE OF THE STATE	N/A
mr. n	- the distance of separation of the outer surface to adjacent non-metallic parts exceeds 50 mm	Write White Mile Mile	N/A
THE WAY	- adjacent non-metallic parts within 50 mm withstand the needle-flame test of Annex E	TER WILLER WHILE WHILE A	N/A
EK WITE	- adjacent non-metallic parts within 50 mm classified as at least V-1 according to IEC 60695-11-10	A MILIER MILIER MILIER MIL	N/A
25	SUPPLY CONNECTION AND EXTERNAL FLEXIBL	E CORDS	Р
25.1	Appliance not intended for permanent connection to connection to the supply:	fixed wiring, means for	P
TEK ST	- 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;	OF LEK LEK STER STEEK OF	N/A
ik whitek	- an appliance inlet having at least the same degree of protection against moisture as required for the appliance, or	THE WILL WILLES	P
, et	- pins for insertion into socket-outlets	The state of	P
25.2	Appliance not provided with more than one means of connection to the supply mains	White white white white	JIP P
NEE WALTE	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 the following means for connection to the supply ma		N/A
unitek w	- a set of terminals allowing the connection of a flexible cord	SLITER MALTER MALTER	N/A
at s	- a fitted supply cord	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
	- a set of supply leads accommodated in a suitable compartment	ite white when we	N/A
WILL	- a set of terminals for the connection of cables of fixed wiring, cross-sectional areas specified in 26.6, and the appliance allows the connection of the	MULTER MULTER MULTER MULTER	N/A

Reference No.: WTX22X09184384S Page 38 of 128

EN 60335-1				
Clause	Requirement – Test Result – Remark	Verdict		
Whitek W	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	N/A		
25.4	Cable and conduit entries, rated current of appliance not exceeding 16 A, dimension according to Table 10 (mm):	N/A		
WALTER.	Introduction of conduit or cable does not reduce clearances or creepage distances below values specified in Clause 29	N/A		
25.5	Method for assemble supply cord with the appliance:	N/A		
Vr. 21	- type X attachment	N/A		
all a	- type Y attachment	N/A		
21/2	- type Z attachment, if allowed in part 2	N/A		
AN TIER	Type X attachment, other than those with a specially prepared cord, not used for flat twin tinsel cords	N/A		
WILLER 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	N/A		
25.6	Plugs fitted with only one flexible cord	N/A		
25.7	Supply cords, other than for class III appliances, being one of the following types:	N/A		
4,	- rubber sheathed (at least 60245 IEC 53)	N/A		
" ILLER	- polychloroprene sheathed (at least 60245 IEC 57)	N/A		
JEK .	- 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		
Tek Y	light polyvinyl chloride sheathed cord (60227 IEC 52), for appliances not exceeding 3 kg	N/A		
THE WALLEY	ordinary polyvinyl chloride sheathed cord (60227 IEC 53), for other appliances	N/A		
	- heat resistant polyvinyl chloride sheathed. Not used for type X attachment other than specially prepared cords	N/A		
	heat-resistant light polyvinyl chloride sheathed cord (60227 IEC 56), for appliances not exceeding 3 kg	N/A		
	heat-resistant polyvinyl chloride sheathed cord (60227 IEC 57), for other appliances	N/A		
MULL	- halogen-free, low smoke, thermoplastic insulated and 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	N/A		

ite net	EN 60335-1	at all off of	IL INTER SINCE
Clause	Requirement – Test	Result – Remark	Verdict
MILIEK N	Ordinary duty halogen-free low smoke flexible cable (62821 IEC 102) for circular cable and (62821 IEC 102f) for flat cable	White white white	N/A
LIEK W	Supply cords for class III appliances adequately insulated	The state of the state of	N/A
Et JE	Test with 500 V for 2 min for supply cords of class III appliances that contain live parts	t of the	N/A
25.8	Nominal cross-sectional area of supply cords not less than table 11; rated current (A); cross-sectional area (mm²)	TEK STEK STEK	N/A
25.9	Supply cord not in contact with sharp points or edges	me me m	N/A
05.40	Cumply and of along Lamplianous have a	1 1 10	A 1/A

Supply cord of class I appliances have a 25.10 N/A green/yellow core for earthing In multi-phase appliances, the colour of the neutral N/A conductor of the supply cord is blue. Where additional neutral conductors are provided in the supply cord: N/A - other colours may be used for these additional N/A neutral conductors; - all of the neutral conductors and line conductors N/A are identified by marking using the alpha numeric notation specified in IEC 60445 - the supply cord is fitted to the appliance N/A Conductors of supply cords not consolidated by 25.11 N/A lead-tin soldering where they are subject to contact pressure, unless the contact pressure is provided by spring terminals N/A Insulation of the supply cord not damaged when 25.12 N/A moulding the cord to part of the enclosure Inlet opening so shaped as to prevent damage to the 25.13 N/A supply cord If it is not evident that the supply cord can be N/A introduced without risk of damage, a non-detachable lining or bushing complying with 29.3 for supplementary insulation provided If unsheathed supply cord, a similar additional N/A bushing or lining is required, unless the appliance is class 0, or N/A a class III appliance not containing live parts N/A Supply cords moved while in operation adequately 25.14 N/A protected against excessive flexing Flexing test, as described: N/A - applied force (N): N/A Reference No.: WTX22X09184384S Page 40 of 128

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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EN 60335-1	et the official	THE WAY
Clause	Requirement – Test	Result – Remark	Verdict
Million	- number of flexings:	MILL WATER WATER	N/A
J. C.	The test does not result in:	A ST ST	N/A
THE S	- short-circuit between the conductors, such that the current exceeds a value of twice the rated current	with my my a	N/A
er ve	- breakage of more than 10% of the strands of any conductor	cie unit mit un	N/A
and	- separation of the conductor from its terminal	White white white	N/A
- JEN	- loosening of any cord guard	* # #	N/A
1115	- damage to the cord or the cord guard	WHILL MULL AND	N/A
Wiley M	- broken strands piercing the insulation and becoming accessible	ALTER INTER INTER IN	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	ex whitex whitex whi	N/A
JUNLIER V	The cord cannot be pushed into the appliance to such an extent that the cord or internal parts of the appliance can be damaged	MITER MILIER WALLER	N/A
	Pull and torque test of supply cord:		N/A
est de	- fixed appliances: pull 100 N; torque (not on automatic cord reel) (Nm):	a lare an	N/A
NA NITEK	- other appliances: values shown in Table 12: mass (kg); pull (N); torque (not on automatic cord reel) (Nm)	White Mill will	N/A
TEX.	Cord not damaged and max. 2 mm displacement of the cord	Mer Mer Me	N/A
25.16	Cord anchorages for type X attachments constructed	d and located so that:	N/A
I Ething (- replacement of the cord is easily possible	at at at a	N/A
ek Jek	- it is clear how the relief from strain and the prevention of twisting are obtained	with the th	N/A
'm	- they are suitable for different types of supply cord;	while whi whi	N/A
Whitek whitek	- cord cannot touch the clamping screws of cord anchorage if these screws are accessible, unless	SLIET WALTER WHITEK	N/A
	they are separated from accessible metal parts by supplementary insulation	TEX TEX WIFE IN	N/A
	the cord is not clamped by a metal screw which bears directly on the cord	et let let li	N/A
	- at least one part of the cord anchorage securely fixed to the appliance, unless	are are cer	N/A
	it is part of a specially prepared cord	"Mer, Mer, Mer,	N/A

Reference No.: WTX22X09184384S Page 41 of 128

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3 Et (1)	EN 60335-1	at let let let	NITE IN
Clause	Requirement – Test	Result – Remark	Verdict
All The	- screws which have to be operated when replacing the cord do not fix any other component, if applicable	MILLER WALLER MILLER	N/A
mr. n	the appliance becomes inoperative or incomplete or the parts cannot be removed without a tool	united white white whi	N/A
The Mr.	- if labyrinths can be bypassed the test of 25.15 is nevertheless withstood	TEX MITTER MILIER MITTE	N/A
EK WALTE	- for Class 0, 0I and I appliances: they are of insulating material or are provided with an insulating lining, unless	et whilet whilet whilet	N/A
mr.	failure of the insulation of the cord does not make accessible metal parts live	White Milite Milite on	N/A
Willey Au	- for Class II appliances: they are of insulating material, or	NIER WHITE WHITE WHITE	N/A
LIEK WALT	if of metal, they are insulated from accessible metal parts by supplementary insulation	SEX WILLER WHITE	N/A
MALTER	After the test of 25.15, under the conditions specified, the conductors have not moved by more than 1 mm in the terminals	Whitek and text and text a	N/A
25.17	Adequate cord anchorages for type Y and Z attachment, test with the cord supplied with the appliance	WALTER WALTER WALTER WAY	N/A
25.18	Cord anchorages only accessible with the aid of a tool, or	Mari Mari	N/A
MULL	so constructed that the cord can only be fitted with the aid of a tool	White white white	N/A
25.19	Type X attachment, glands not used as cord anchorage in portable appliances	MUTER WHITER WHITER ON	N/A
Writek M	Tying the cord into a knot or tying the cord with string not used	THE STEEL WITER SHIT	N/A
25.20	The conductors of the supply cord for type Y and Z attachment insulated from accessible metal parts	cet set see asset	N/A
25.21	Space for supply cord for type X attachment or for co-constructed:	onnection of fixed wiring	N/A
MULLEX	- to permit checking of conductors with respect to correct positioning and connection before fitting any cover	THE TITE WITH THE	N/A
SLIEK W	- so there is no risk of damage to the conductors or their insulation when fitting the cover	all the set set	N/A
TEK	- for portable appliances, so that the uninsulated end of a conductor, if it becomes free from the terminal, prevented from contact with accessible metal parts	Et Willer Willer	N/A
t Natiest	2 N test to the conductor for portable appliances; no contact with accessible metal parts	- Tel Alies Alies	N/A
25.22	Appliance inlet:	74 24 24 24 2	A Pt

Page 42 of 128

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Clause	Requirement – Test	Result – Remark	Verdict
14,5	- live parts not accessible during insertion or removal	WHILE MALLE MALL	N/A
WILLER W	Requirement not applicable to appliance inlets complying with IEC 60320-1	OLIEK JALIEK JALIEK	Intitle on P
all s	- connector can be inserted without difficulty		d AP
10	- the appliance is not supported by the connector	The Wife Mr. Mr.	A b _n
WALLE	- is not for cold conditions if temp. rise of external metal parts exceeds 75 K, unless	et milet milet mult	N/A
Clerk.	the supply cord is not likely to touch such metal parts	A ST ST	N/A
25.23	Interconnection cords comply with the requirements for the supply cord, except that:	Output cord	W P
ine our	the cross-sectional area of the conductors is determined on the basis of the maximum current during clause 11	NUTER WHITE WALL W	II P
-20,	- the thickness of the insulation may be reduced	in me me me	Р
MILIE	- 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 white	White Mitter
7	If necessary, electric strength test of 16.3	Wer Mrs And	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	tet unite un	N/A
25.25	Dimensions of pins that are inserted into socket-outlets compatible with the dimensions of the relevant socket-outlet.	THE THE TEXT	N/A
Writek M	Dimensions of pins and engagement face in accordance with the dimensions of the relevant plug in IEC/TR 60083	THE STEEL WITH THE	N/A
26	TERMINALS FOR EXTERNAL CONDUCTORS	w	N/A
26.1	Appliances provided with terminals or equally effective devices for connection of external conductors	ter and and	N/A
TEX.	Terminals only accessible after removal of a non-detachable cover, except	Mer And And	N/A
140, 1	for class III appliances that do not contain live parts	WILL WALL WALL	N/A
ALTEK WA	Earthing terminals may be accessible if a tool is required to make the connections and means are provided to clamp the wire independently from its connection	stek whitek whitek w	N/A
26.2	Appliances with type X attachment and appliances for connection to fixed wiring provided with terminals in which connections are made by means of screws, nuts or similar devices, unless	- MITELY MILES MINITER	N/A

Reference No.: WTX22X09184384S Page 43 of 128

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EN 60335-1				
Clause	Requirement – Test	Result – Remark	Verdict	
" The City	the connections are soldered	CHIEF WILL AND THE	N/A	
MALTER OF	Screws and nuts serve only to clamp supply conductors, except	stret street sorrest son	N/A	
LIEK WIN	internal conductors, if so arranged that they are unlikely to be displaced when fitting the supply conductors	TEX MULTEX MULTER MULT	N/A	
er virte	If soldered connections used, the conductor so positioned or fixed that reliance is not placed on soldering alone, unless	Whitek whitek whiteh	N/A	
where w	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	towning while while	N/A	
WITEE.	Terminals fixed so that when the clamping means is	tightened or loosened:	N/A	
	- the terminal does not become loosen	are my my my	N/A	
VELLE MA	- internal wiring is not subjected to stress	THE MILE WALL	N/A	
EK MIT	- neither clearances nor creepage distances are reduced below the values in Clause 29		N/A	
	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)	whitek whitek whitek	N/A	
unliter W	No deep or sharp indentations of the conductors	THE STEE STEE 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	TER MUTER MUTER MUTE	N/A	
WILLER	so constructed or placed that conductors prevented from slipping out when clamping screws or nuts are tightened		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	STEEK MALTER MALTER MALE	N/A	
, me	Stranded conductor test, 8 mm insulation removed	ER WILLE WHILE MAIN	N/A	
t antiet	No contact between live parts and accessible metal parts and,	- Tet Tet Stet	N/A	

Page 44 of 128

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Clause	Requirement – Test	Result – Remark	Verdic
Clause	Requirement – rest	Nesult – Nemark	Veruic
NUTER OF	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)	itek mitek mitek mi st. sek sek ste	N/A
	If a specially prepared cord is used, terminals need only be suitable for that cord	AND MUR AND	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	White must me	N/A
26.8	Terminals for the connection to fixed wiring, including the earthing terminal, located close to each other	Et Witet Writes Wil	N/A
26.9	Terminals of the pillar type constructed and located as specified	t light slight solited	N/A
26.10	Terminals with screw clamping and screwless terminals not used for flat twin tinsel cords, unless	et set set	N/A
THE S	conductors ends fitted with a device suitable for screw terminals	are we will be	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 MILE WALLY WALL	N/A
WALTEX.	For Class II appliances: the conductor so positioned or fixed that reliance is not placed on soldering, welding or crimping alone	WILLIER WILLIER WILLIER	N/A
antier anti	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	a state 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	THE STEE STEET	N/A
CLIEK IN	Earthing terminals and earthing contacts not connected to the neutral terminal	out the text	N/A
TEK JE	Class 0, II and III appliances have no provision for earthing	Class II	P P
t tex	Class II appliances and class III appliances can incorporate an earth for functional purposes	Muri Muri Muri	N/A
MUL	Safety extra-low voltage circuits not earthed, unless	MITE WALL WALL	N/A
et.	protective extra-low voltage circuits		N/A

EN 60335-1				
Clause	Requirement – Test	Result – Remark	Verdic	
27.2	Clamping means adequately secured against accidental loosening	MULTER WATER	N/A	
ure w	Terminals used for the connection of external equipotential bonding conductors allow connection of conductors of 2.5 to 6 mm², and	untile white white w	N/A	
Et (E	do not provide earthing continuity between ifferent parts of the appliance, and	The the the	N/A	
- City	conductors cannot be loosened without the aid of tool	MULL MULL MULL	N/A	
UNL .	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	white write 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	PEX WALTER WALTER WALTE	N/A	
VID.	For appliances with supply cord, current-carrying conductors become taut before earthing conductor, if the cord slips out of the cord anchorage	White white white	N/A	
NITEK WA	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	und your will be	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 WALTE WALTER	N/A	
MALTER	Parts providing earthing continuity, other than parts of a metal frame or enclosure, have adequate resistance to corrosion	WALTER WALTER WALTER	N/A	
mriter m	If of steel, these parts provided with an electroplated coating with a thickness at least 5 μm	ALTER WHITER WALTER ON	N/A	
ire mi	Adequate protection against rusting of parts of coated or uncoated steel, only intended to provide or transmit contact pressure	TEX WALTER WALTER WALT	N/A	
MLF	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 MA	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	antit und water a	N/A	
27.5	Low resistance of connection between earthing terminal and earthed metal parts	et the the th	N/A	
MUTTER	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	

Page 46 of 128

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Clause	Requirement – Test	Result – Remark	Verdict
· Willie	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	MULTER MULTER MULTER MULTER	N/A
it ^{ek} «i	Resistance not exceeding 0.1 Ω at the specified low-resistance test (Ω)	at let let let	N/A
27.6	The printed conductors of printed circuit boards not used to provide earthing continuity in hand held appliances.	A STIFF WITH AND	N/A
WALTER.	They may be used to provide earthing continuity in other appliances if at least two tracks are used with independent soldering points and the appliance complies with 27.5 for each circuit	MULTER MULTER MULTER WHITE	N/A
inis oil Teit ait	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	NITES WHITE WHITE WHITE	N/A
28	SCREWS AND CONNECTIONS	The way we we	Р
28.1	Fixings, electrical connections and connections providing earthing continuity withstand mechanical stresses	whitek whitek whitek whi	Pir
mer 1	Screws not of soft metal liable to creep, such as zinc or aluminium	WALLEY WALL WALL	of P
المال المالم	Diameter of screws of insulating material min. 3 mm	ALTER ANTIE A	N/A
EK WALTE	Screws of insulating material not used for any electrical connection or connections providing earthing continuity	antita white white	N/A
WILLER	Screws used for electrical connections or connections providing earthing continuity screw into metal	Whitek Whitek Whitek White	N/A
WALTER W	Screws not of insulating material if their replacement by a metal screw can impair supplementary or reinforced insulation	ALTER WALTER WALTER WALTER	N/A
ek murrey	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	TER WATER WATER WATER WATER	N/A
MITEK	For screws and nuts; torque-test as specified in Table 14	itel street street street	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	strek mutek mutek mutek	N/A
t Tiex	there is resiliency in the metallic parts to compensate for shrinkage or distortion of the insulating material	EX JUNITER WHITE WHITE WA	N/A
2/1	This requirement does not apply to electrical connec which:	tions in circuits of appliances for	N/A

Reference No.: WTX22X09184384S Page 47 of 128

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Clause	Requirement – Test	Result – Remark	Verdic
	with the me and an an a	- St St St St	
	30.2.2 is applicable and that carry a current not exceeding 0.5 A	WHEN WHEN THE THE	N/A
nn n	30.2.3 is applicable and that carry a current not exceeding 0.2 A	untile mutit white white	N/A
28.3	Space-threaded (sheet metal) screws only used for electrical connections if they clamp the parts together	THE MILIE WALL WILL W	N/A
MUTER	Thread-cutting (self-tapping) screws and thread rolling screws only used for electrical connections if they generate a full form standard machine screw thread	while while while while	N/A
ulten m	Thread-cutting (self-tapping) screws not used if they are likely to be operated by the user or installer	SLIET WILLES WILLES	N/A
TEK WALT	Thread-cutting, thread rolling and space threaded so connections providing earthing continuity provided it connection:		N/A
	- in normal use,	t let liet aliet mi	N/A
	- during user maintenance,	me m m	N/A
on the	- when replacing a supply cord having a type X attachment, or	WALLER WALLER WALLE WALLE	N/A
LIER IN	- during installation	ALT THE STEEL	N/A
	At least two screws being used for each connection providing earthing continuity, unless	The state of the s	N/A
- 16x	the screw forms a thread having a length of at least half the diameter of the screw	And 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 white white whitek	N/A
TEK WIT	This requirement does not apply to screws in the earthing circuit if at least two screws are used, or	TEX STEX WITH MITER W	N/A
<u>+ _2</u> *	if an alternative earthing circuit is provided	74	N/A
VIVE VILLER	Rivets for electrical connections or connections providing earthing continuity secured against loosening if the connections are subjected to torsion	White white white who	N/A
29	CLEARANCES, CREEPAGE DISTANCES AND SOL	ID INSULATION	Р
LIER WY	Clearances, creepage distances and solid insulation withstand electrical stress	SLIES WHITEK WHITEK	nit P
	For coatings used on printed circuits boards to protect the microenvironment (type 1) or to provide basic insulation (type 2), Annex J applies:	EX WITTER MUTER MUTTER ON	N/A
MULTE	The microenvironment is pollution degree 1 under type 1 protection	WALTER WALTER WALTER WALT	N/A
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Page 48 of 128



	EN 60335-1				
Clause	Requirement – Test	Result – Remark	Verdict		
MULIER ON	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	MUTER MUTER MUTER AND	N/A		
LIEK WAL	These values apply to functional, basic, supplementary and reinforced insulation:	TEX NITES MILITER MILIT	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)	TE TEX		
"ik" 1	for basic insulation and functional insulation they comply with the impulse voltage test of Clause 14	MILL MILL MALL W	N/A		
uni un	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	NITE WHITE WHITE WHITE	JAP P VI		
	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	Whitek Whitek Whiteh	N/A		
*	Impulse voltage test is not applicable:	41 11 11	N/A		
VER THE	- when the microenvironment is pollution degree 3, or	y white whi	N/A		
ies white	- for basic insulation of class 0 and class 0l appliances, or	WALTER WALTER WALTER	N/A		
WILLER.	- to appliances intended for use at altitudes exceeding 2 000 m	WILER MULTER MULTER	N/A		
. Tet	Appliances are in overvoltage category II	at at at	P P		
" 11 11	A force of 2 N is applied to bare conductors, other than heating elements	Will Mult Mar M	Р		
in m	A force of 30 N is applied to accessible surfaces	TER WILL WHILE MALL	P		
29.1.1	Clearances of basic insulation withstand the overvoltages, taking into account the rated impulse voltage	t while whilet whilet	WALL SHEET		
MILLERY	The values of Table 16 or the impulse voltage test of Clause 14 are applicable:	(see appended table)	JIN P		
INLIEK WA	Clearance at the terminals of tubular sheathed heating elements may be reduced to 1.0 mm if the microenvironment is pollution degree 1	STEEK WALTER WALTER WAL	N/A		
The White	Lacquered conductors of windings considered to be bare conductors	ex uniter uniter uniter	P		
29.1.2	Clearances of supplementary insulation not less than those specified for basic insulation in Table 16	(see appended table)	INITE IN PER		



						1
of 128						
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- 31°	EN 60335-1				
Clause	Requirement – Test	Result – Remark	Verdict		
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		
TEK MUTE	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	TEX WITEX WITEX WITEX	EF Pur		
29.1.4	Clearances for functional insulation are the largest va	alues determined from:	P		
11/2	- Table 16 based on the rated impulse voltage:	(see appended table)	Р		
ivizer an	- Table F.7a in IEC 60664-1, frequency not exceeding 30 kHz;	street untilet waited waited	N/A		
LIEK WALTER	- Clause 4 of IEC 60664-4, frequency exceeding 30 kHz	set attes artist antick on	TEX P		
	If values of Table 16 are largest, the impulse voltage test of Clause 14 may be applied instead, unless	t tet itet sitet mit	P		
	the microenvironment is pollution degree 3, or	me me me	N/A		
	the distances can be affected by wear, distortion, movement of the parts or during assembly	WALLER WALTER WALTER WALTER	N/A		
NITER WAS	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	ALTEP M		
	Lacquered conductors of windings considered to be bare conductors	White white white wh	Р		
WALTE	However, clearances at crossover points are not measured	Whitek whitek white white	Р		
UNLIEK W	Clearance between surfaces of PTC heating elements may be reduced to 1mm	NUTER MUTER MALTER WALTER	N/A		
29.1.5	Appliances having higher working voltages than rate insulation are the largest values determined from:	d voltage, clearances for basic	P		
+ 3	- Table 16 based on the rated impulse voltage:	The second second	L P		
ME	- Table F.7a in IEC 60664-1, frequency not exceeding 30 kHz;	WALTER WALTER WALL WAL	N/A		
WILL 4	- Clause 4 of IEC 60664-4, frequency exceeding 30 kHz	WALLER WHITER WHITE WALLE	W P		
nitek wi Sek	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	Et Wilet Willer Miles	nt P n		

Page	50	of	128	

	EN 60335-1			
Clause	Requirement – Test	Result – Remark	Verdict	
MUTER M	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 WIL	N/A	
EK WINTER	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	the white whitek whitek	We but	
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	Whitek mutek mutek w	N/A	
ite 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	SEX WALTER WALTER	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 WILLEY	
Let .	Pollution degree 2 applies, unless		# RP	
54 % Vr 24	- precautions taken to protect the insulation; pollution degree 1;	Ty June mil	N/A	
. Mur.	- insulation subjected to conductive pollution; pollution degree 3	WALTE WALTE WALL	N/A	
MULTE	A force of 2 N is applied to bare conductors, other than heating elements	AND THE WALLES WALTER OF	nite mP	
NITEK 1	A force of 30 N is applied to accessible surfaces	et let let s	THE LEP	
itek mit	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	TEX MUTER MUTER MUTE	P	
29.2.1	Creepage distances of basic insulation not less than specified in Table 17	(see appended table)	Р	
MULTER 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	
TEX WILL	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	Et Multet Multet	N/A	

	EN 60335-1		CLIE JOU
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)	P
S	Table 2 of IEC 60664-4, as applicable	n. m. m.	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
21/2	Table 2 of IEC 60664-4, as applicable	MULL AND AND	N/A
29.2.4	Creepage distances of functional insulation not less than specified in Table 18:	(see appended table)	ALTE VIA PER
nciek w	However, if the working voltage is periodic and has a frequency exceeding 30 kHz, the creepage distances are also determined from Table 2 of IEC 60664-4, these values being used if exceeding the values in Table 18	Wiley Miles Mulley Mult	N/A
* White	Creepage distances may be reduced if the appliance complies with Clause 19 with the functional insulation short-circuited	MILIER WALTER WALTER	MALT WALTE
29.3	Supplementary and reinforced insulation have adequate thickness, or a sufficient number of layers, to withstand the electrical stresses	WALLER WALLER WALLER WA	P
VIZIET UNI	Compliance checked:	THE STATE OF THE	P.V
, L	- 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	''' 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	whilet whilet while w	N/A
LIEK WIL	for accessible parts of reinforced insulation consisting of a single layer, by measurement in accordance with 29.3.4, or	TER WILLER WHILE	N/A
ek watek	- 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	t whitet whitet whitet.	N/A
nliek wh	- 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	SLIES WALTER WALTER WAL	N/A
29.3.1	Supplementary insulation have a thickness of at least 1 mm	et outet mitet mitet	WALLER PAL
t et	Reinforced insulation have a thickness of at least	7, 4	y t P√

Page 52 of 128

The same of	EN 60335-1	AT ATT STEE STEE	West and
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 MULLER MULLER	P
Mrs M	Supplementary insulation consist of at least 2 layers	WILL MULLE MULL AND	n P
est s	Reinforced insulation consist of at least 3 layers	a at at A	⊬ ge P
29.3.3	The insulation is subjected to the dry heat test Bb of IEC 60068-2-2, followed by	The way were	N/A
and	the electric strength test of 16.3	White while whi	N/A
WALTER	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	MALIER MALTER MALIER W	P
29.3.4	Thickness of accessible parts of reinforced insulation consisting of a single layer not less than specified in Table 19:	NITER WHITER WHITER WHI	N/A
30	RESISTANCE TO HEAT AND FIRE	TER WITE WILLE MILL	n Pu
30.1	External parts of non-metallic material,		P.
n.	parts supporting live parts, and	White wall wall	P
ounliter o	thermoplastic material providing supplementary or reinforced insulation,	TITEL WILEY WITER WY	TEX NI PIE
Let !	sufficiently resistant to heat		# P
r 140	Ball-pressure test according to IEC 60695-10-2	White white	A _L b _A
ek waite Valtek	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)	WASTER PAINE
unitek un	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 WALTER	Parts of thermoplastic material providing supplementary or reinforced insulation tested at 25 °C plus the maximum temperature rise determined during Clause 19, if higher; temperature (°C)	TEK WALTER WALTER	N/A
30.2	Parts of non-metallic material resistant to ignition and spread of fire	INTER WATER WATER ON	LITE WINDER
JEK J	This requirement does not apply to:	at at all a	P
iek white	parts having a mass not exceeding 0.5 g, provided the cumulative effect is unlikely to propagate flames that originate inside the appliance by propagating flames from one part to another, or	EX MULTER MULTER MULTER	THE THE
WALTER	decorative trims, knobs and other parts unlikely to be ignited or to propagate flames that originate inside the appliance	Whitek Muliek Whitek	N/A

	EN 60335-1		WITE WILL
Clause	Requirement – Test	Result – Remark	Verdict
W.C.	Compliance checked by the test of 30.2.1, and in addition:	MULLE MULE M	Р
in Time	- for attended appliances, 30.2.2 applies	CLIEF WILL WHILE WHI	N/A
Let 3	- for unattended appliances, 30.2.3 applies		Р
- m	For appliances for remote operation, 30.2.3 applies	LIE WILL MULT MILL	N/A
ek wate	For base material of printed circuit boards, 30.2.4 applies	A WATER MATTER MATTER OF	NI EK PUI
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
unitek un	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	NITE WAITER WALTER WALTE	N/A
ITEH WALT	the material is classified at least HB40 according to IEC 60695-11-10	SEK MITER MILIER MILIER	N/A
MUTER	Parts for which the glow-wire test cannot be carried out need to meet the requirements in ISO 9772 for material classified HBF	Whitet Whitet Whites W	N/A
30.2.2	Appliances operated while attended, parts of non-metallic material supporting current-carrying connections, and	WALTER WALTER WALTER WALT	N/A
vez m	parts of non-metallic material within a distance of 3mm of such connections,	Marie with	N/A
ier white	subjected to the glow-wire test of IEC 60695-2-11 with appropriate severity level:	White white while	N/A
WALTER	- 750 °C, for connections carrying a current exceeding 0.5 A during normal operation	antifek whitek whitek wh	N/A
GE#	- 650 °C, for other connections	at the state of	N/A
The sail	Glow-wire applied to an interposed shielding material, if relevant	WELL MAIL MAY MAY	N/A
	The glow-wire test is not carried out on parts of mate glow-wire flammability index according to IEC 60695	erial classified as having a 5-2-12 of at least:	N/A
MULL	- 750 °C, for connections carrying a current exceeding 0.5 A during normal operation	MINITER WHITE WAITE W	N/A
MILITE .	- 650 °C, for other connections	TER LIER NITER AND	N/A
, t	The glow-wire test is also not carried out on small pa	arts. These parts are to:	N/A
ULL M	- comprise material having a glow-wire flammability index of at least 750 °C, or 650 °C as appropriate, or	LIFE WHITE WHITE WALL	N/A
TER JOLI	- comply with the needle-flame test of Annex E, or	et let liet wifet	N/A
t TEX	- comprise material classified as V-0 or V-1 according to IEC 60695-11-10:	the the top	N/A
			12.13.13.13

N/A

Glow-wire test not applicable to conditions as

specified....:

Page 54 of 128

	EN 60335-1		
Clause	Requirement – Test	Result – Remark	Verdict
30.2.3	Appliances operated while unattended, tested as specified in 30.2.3.1 and 30.2.3.2	until until unit unit	Р
mes n	Test not applicable to conditions as specified	NITER WITE WILLE 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	LEX WHITEK WHITEK WHITEK W	LIE'P W
ENVITE	parts of non-metallic material, other than small parts, within a distance of 3 mm,	A WHITEK WHITEK WHITE WHI	Р
WALTER	subjected to the glow-wire test of IEC 60695-2-11 with a test severity of 850 °C	(see appended table)	W.PER
INLIEK GIN	Glow-wire applied to an interposed shielding material, if relevant	lifet stifet stifet springt	N/A
	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	let whilet whilet whilet wh	N/A
30.2.3.2	Parts of non-metallic material supporting connections, and	White white white whi	Р
WILLER A	parts of non-metallic material within a distance of 3 mm,	WALTER WALTER WALTER	m P
NITEK WAT	subjected to the glow-wire test of IEC 60695-2-11 with appropriate severity level:	(see appended table)	VILLE D VILLE
iek while	- 750 °C, for connections carrying a current exceeding 0.2 A during normal operation,	and the second second	TEX PIT
t set	- 650 °C, for other connections		N/A
mr.	Glow-wire applied to an interposed shielding material, if relevant	MUTTER MUTTE MUTTER MAIN	N/A
mrire m	However, the glow-wire test of 750 °C or 650 °C as appropriate, is not carried out on parts of material fulfilling both or either of the following classifications:		
THE WAL	- a glow-wire ignition temperature according to IEC 60695-2-13 of at least:	TER WATER WALTER WATER OF	N/A
ek writer	775 °C, for connections carrying a current exceeding 0.2 A during normal operation,	L NITER MITTER MINITER MAN	N/A
A. T.	675 °C, for other connections	1 1 1 10	N/A
ing an	- a glow-wire flammability index according to IEC 60695-2-12 of at least:	mult mil mult mil	N/A
	- 750 °C, for connections carrying a current exceeding 0,2 A during normal operation,	STEEL MUTTER MUTTE MUTTE	N/A
ie wie	- 650 °C, for other connections	Et lift nifet wife un	N/A
t st	The glow-wire test is also not carried out on small pa	arts. These parts are to:	N/A
MUTEL	- comprise material having a glow-wire ignition temperature of at least 775 °C or 675 °C as appropriate, or	MULTER MULTER MULTER WALL	N/A

in with	EN 60335-1	All All I THE WALL AND	J. Wir	
Clause	Requirement – Test	Result – Remark	Verdict	
ALL LINE	- comprise material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or	MULLER MILE WILL	N/A	
me w	- comply with the needle-flame test of Annex E, or	NITER WILL WALL WALL WALL	N/A	
LTEK WAL	- comprise material classified as V-0 or V-1 according to IEC 60695-11-10	THE MITTER MITTER WITTER	N/A	
ek waliek	The consequential needle-flame test of Annex E appendix encroach within the vertical cylinder placed above the and on top of the non-metallic parts supporting curreparts of non-metallic material within a distance of 3 parts are those:	e centre of the connection zone ent-carrying connections, and	N/A	
NITEK W	- 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	WILL MILES MALES MALLES	N/A	
TEX MUT	- parts that comprised material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or	LEK WATER MUTER MUTER ME	N/A	
WILLE WILLE	- small parts, that comprised material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or	white white white whi	N/A	
one o	- small parts for which the needle-flame test of Annex E was applied, or	White White White White	N/A	
	- small parts for which a material classification of V-0 or V-1 was applied	White white	N/A	
ET WALTE	However, the consequential needle-flame test is no 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	MITES WHITE WHITES WHITE	N/A	
unitely wi	- parts comprising material classified as V-0 or V-1 according to IEC 60695-11-10, or	Lifet NITES WIFES WHITES	N/A	
itek muri	- 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	TEX MUTER MUTER MUTER OF	N/A	
30.2.4	Base material of printed circuit boards subjected to the needle-flame test of Annex E	MULTER MULTE MULTE MULT	N/A	
NALTE	Test not applicable to conditions as specified:	PCB: V-0	n P	
31	RESISTANCE TO RUSTING			
vr. nu	Relevant ferrous parts adequately protected against rusting	LITER MILIE WILLE MILL	n P N	
SE SUPLIF	Tests specified in part 2 when necessary	Et - LIER ALLER ANLIE AN	N/A	
32	RADIATION, TOXICITY AND SIMILAR HAZARDS	74. 25.	↓ P _A	
MUTT	Appliance does not emit harmful radiation or present a toxic or similar hazard due to their operation in normal use	MILLER WALLER WALLE WALL	NP	

Reference No.: WTX22X09184384S Page 56 of 128

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ı		V		
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Ole	EN 60335-1	D. J. D. J.	77 27
Clause	Requirement – Test	Result – Remark	Verdict
JII LEK	Compliance is checked by the limits or tests specified in part 2, if relevant	MULLET MULLET MILE	N/A
Ar w	ANNEX A (INFORMATIVE) ROUTINE TESTS	MULTER MULTER MULTER	N/A
Tre Mur	Description of routine tests to be carried out by the manufacturer	LER WALLER WALLE WAS	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	WHITEK WHITEK WHITEK	N/A
ner an	Three forms of construction covered:	STIER STIER SPITE SH	Life When W
ret with	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	LEX MUTER MUTER MUT	N/A
WALTER O	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
	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	white white white	N/A
3.1.9	Appliance operated under the following conditions:	- LEF LEF LIER	alie maie
TIEK .	- the appliance, supplied by its fully charged battery, operated as specified in relevant part 2;	THE THE THE	N/A
ni w	the battery is charged, the battery being initially discharged to such an extent that the appliance cannot operate;	THE STEE STEEL WAS	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;	meter with which	N/A
NLTEX VIN	- 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	un united united un	N/A
3.6.2	Part to be removed in order to discard the battery is not considered to be detachable	et whitek whitek whi	N/A
5.B.101	Appliances supplied from the supply mains tested as specified for motor-operated appliances	- Lifet Wifet Wifet	N/A

Page 57 of 128

100	EN 60335-1	all all other active and	2 " "
Clause	Requirement – Test	Result – Remark	Verdic
7.1 ¹¹	Battery compartment for batteries intended to be replaced by the user, marked with battery voltage V (V) and polarity of the terminals	White white writer writer	N/A
LIFEK WA	The positive terminal indicated by symbol IEC 60417-5005 and the negative terminal by symbol IEC 60417-5006	TEX OUTER MILES WHILES	N/A
EK WILTE	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	H WILLER WILLER WILL	N/A
m.	use only with <model designation=""> supply unit</model>	White White White White	N/A
7.6	Additional symbols	at at the other	N/A
7.12	The instructions give information regarding charging	VII. MUT. MUT. MI	N/A
iter wii	Instructions for appliances incorporating batteries intended to be replaced by the user include required information	LEX WATER WATER WATER OF	N/A
mr	Details about how to remove batteries containing materials hazardous to the environment given	White while while wh	N/A
MUTTE 1	Instructions for appliances containing non-user-repla substance of the following:	aceable batteries state the	MUT
ALTER JUNI	This appliance contains batteries that are only replaceable by skilled persons	Et United Whitely	N/A
EK WALTE	Instructions for appliances containing non-replaceab substance of the following:	le batteries shall state the	itik -
- INLIEK	This appliance contains batteries that are non-replaceable	tek tiek strek skie	N/A
unliex w	For appliances intending to be supplied from a detact purposes of recharging the battery, the type reference stated along with the following:		MALTER.
TEK WAL	WARNING: For the purposes of recharging the battery, only use the detachable supply unit provided with this appliance	TER WILLER WALTER WALTER OF	N/A
WALTER	If the symbol for detachable supply unit is used, its meaning is explained	t and the waited and the way	N/A
7.15	Markings placed on the part of the appliance connected to the supply mains	SLIER WILLER MUTER WHILE	N/A
NITEK AND	The type reference of the detachable supply unit is placed in close proximity to the symbol	THE STEE STEEL STEEL	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	EK MULLER MULLER MULLER	N/A
MUEL	If the appliance can be operated without batteries, double or reinforced insulation required	MALITEE MALTE MALLE WALL	N/A

Page 58 of 128

EN 60335-1					is also
iirer	ıirement – Test	t till til	" whise whe	Result – Remark	Verdict
D _D	and and	an an		the state of the state of	
	oattery is chargo uctions or 24 h	ed for the period	stated in the	Must must may any	N/A
ed t	ed the limit in th	the battery surfa e battery manufa red (K); limit (K)		INCIE WALL WALL WILL	N/A
	limit specified, t ed 20 K; measu	he temperature red (K)	rise does not	a war war war w	N/A
	ances subjecte	d to tests of 19.E	3101, 19.B102	MULL MULL MULL MULL	N/A
appl	applicable	7, 7,	TEN TEN	ALTER MALTE MALTE WALL	N/A
Appliances supplied at rated voltage for 168 h, the battery being continually charged			N/A		
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		
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			N/A		
oatt	oattery does no	rupture or ignite	alie mile	mer are are an	N/A
		ns for insertion i adequate mecha		White united	N/A
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:			TEK UNIT		
, th	, the mass of p	art does not exce	eed 250 g	The state of	N/A
the	the mass of pa	t exceeds 250 g	CER CER	CLIEB ANTIE WALL WALL	N/A
	the test, the rec	quirements of 8.7	1, 15.1.1, 16.3	TEX SITES MITES MITTER	N/A
		ns for insertion i as fully assemb		tet tet tet stet	N/A
conr nstr	connection cord	r bushing not red s in class III appl rating at safety e g live parts	liances or class	ANTER MITTER MUTTER AND	N/A
		ance connected arging period, 30		MUNITER WHITE WAITER WALTER	N/A
the	other parts, 30.2	.2 applies	, , , , , , , , , , , , , , , , , , ,	LET THE THE THE	N/A
	EX C (NORMATING TEST ON I		TIE MULTE A	int was on an	N/A
d to		carried out where ature classificati winding		- The stiff while and	N/A
con	conditions as s	pecified	were mer	24, 24, 20,	N/A
s, as	s, as described, rd to the temper ation of a motor	carried out wher ature classificati winding		White white white was	

Reference No.: WTX22X09184384S Page 59 of 128



TEN MIT	NOTE MILE MAIL ON	EN 60335-1	LIE WILL
Clause	Requirement – Test	Result – Remark	Verdict

D and	ANNEX D (NORMATIVE) THERMAL MOTOR PROTECTORS	N/A
aller M	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 WILLE	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	J. C. C.
7 (1) 11 - 21	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
JEK N	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
ier write	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	Mr.
18th	The duration of burning not exceeding 30 s	N/A
m, n	However, for printed circuit boards, the duration of burning not exceeding 15 s	N/A
F une	ANNEX F (NORMATIVE) CAPACITORS	
MULT	Capacitors likely to be permanently subjected to the supply voltage, and used for radio interference suppression or voltage dividing, comply with the following clauses of IEC 60384-14, with the following modifications:	N I EN
1.5	Terms and definitions	242.
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	(Er -11)
7,,	Items a) and b) are applicable	N/A
3.4	Approval testing	White.
3.4.3.2	Table II is applicable as described	N/A

Reference No.: WTX22X09184384S Page 60 of 128

The state of	EN 60335-1	Alt Alt JEE STE	are are
Clause	Requirement – Test	Result – Remark	Verdic
4.1	Visual examination and check of dimensions	I WILL MALE MILE	70,
Set.	This subclause is applicable	A St St S	N/A
4.2	Electrical tests	write may may may	N/A
4.2.1	This subclause is applicable	at the the the	N/A
4.2.5	This subclause is applicable	hay any any	N/A
4.2.5.2	Only table IX is applicable	S. LIEF ALTER ARTICLE	N/A
	Values for test A apply	70, 7, 7, 7, 7,	N/A
'm's	However, for capacitors in heating appliances the values for test B or C apply	White milit milit was	N/A
4.12	Damp heat, steady state	LIER SLIER WILL MALL	Julii - V
J+ J	This subclause is applicable	M. M. M. M. M.	N/A
, one	Only insulation resistance and voltage proof are checked	I FEE WHITE WHITE WHITE	N/A
4.13	Impulse voltage	Et JET NIET MITE IN	NET WALL
<i>*</i>	This subclause is applicable	W. W.	N/A
4.14	Endurance	CALTER WALTER WALTER WAL	" "
ALTEK WA	Subclauses 4.14.1, 4.14.3, 4.14.4 and 4.14.7 applicable	at Juliet mile	N/A
4.14.7	Only insulation resistance and voltage proof are checked	The lift	N/A
	Visual examination, no visible damage	mr. m. m.	N/A
4.17	Passive flammability test	t let sliet when w	The MUTTER
t	This subclause is applicable	14. 24. 2	N/A
4.18	Active flammability test	ALTER MITER MALTER MALE	Mr
at a	This subclause is applicable	the state of	N/A
G	ANNEX G (NORMATIVE) SAFETY ISOLATING TRANSFORMERS	NITE WALL WALL WALL	P
MULL	The following modifications to this standard are app transformers:	olicable for safety isolating	ur and
7,000	Marking and instructions	to the lift nite in	N P
7.1	Transformers for specific use marked with:	41. 41. 41.	Р
Vr. M	- name, trademark or identification mark of the manufacturer or responsible vendor:	(see appended table)	P
ier write	- model or type reference:	(see appended table)	Po
17	Overload protection of transformers and associated	l circuits	Р
MILIE	Fail-safe transformers comply with subclause 15.5 of IEC 61558-1	E SLIER OLIER WILLER W	N/A

Page 61 of 128

7 W.	EN 60335-1	the the tip the	th m	
Clause	Requirement – Test	Result – Remark	Verdict	
20	Construction	t tiek when white whi	Р	
22		711 A1 A1	+	
Mery M	Subclauses 19.1 and 19.1.2 of IEC 61558-2-6 are applicable	MITER WAITER WAITER WALTER	P IIII	
29	Clearances, creepage distances and solid insulation			
29.1, 29.2 and 29.3	The distances specified in items 2a, 2c and 3 in table 13 of IEC 61558-1 apply	the must meet must be	Р	
UN.	For insulated winding wires complying with subclause 19.12.3 of IEC 61558-1 there are no requirements for clearances or creepage distances	White white white wi	Р	
unliek un	For windings providing reinforced insulation, the distance specified in item 2c of table 13 of IEC 61558-1 is not assessed	while will writer whitek	P	
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	LEK MULTER MULTER MULTER	THE P	
H LTEK W	ANNEX H (NORMATIVE) SWITCHES			
de d	Switches comply with the following clauses of IEC 61058-1, as modified:			
TH TEX	The tests of IEC 61058-1 carried out under the conditions occurring in the appliance	a my my	N/A	
, we	Before being tested, switches are operated 20 times without load	MULTE WILL MILL W	N/A	
8	Marking and documentation	· ITER SITER MITER MITE	W.L.	
	Switches are not required to be marked	Mr. Mr. 211 2	N/A	
MULLE MU TEK TI	However, switches that can be tested separately from the appliance marked with the manufacturer's name or trade mark and the type reference	NITES WHITE WAIT WHITE	N/A	
13	Mechanism	in min men men a		
et Ster	The tests may be carried out on a separate sample	t the the the	N/A	
15	Insulation resistance and dielectric strength	They are in in		
15.1	Not applicable	TEX LIER WITH OUT	N/A	
15.2	Not applicable	Mr. Mr. Mr. m.	N/A	
15.3	Applicable for full disconnection and micro-disconnection	LIFE WHITE WHITE WHITE	N/A	
17	Endurance	let the the state of	2.TET -17	
t liet	Compliance is checked on three separate appliances or switches		N/A	
701	For 17.2.4.4, the number of cycles declared according to 7.1.4 is 10 000, unless	Mer mer mer me	N/A	

Reference No.: WTX22X09184384S Page 62 of 128

	EN 60335-1		10
Clause	Requirement – Test	Result – Remark	Verdict
	and the same and the same at t	- A Set Set Set	
76.t	otherwise specified in 24.1.3 of the relevant part 2 of EN 60335	with the the state	N/A
	Switches for operation under no load and which can be operated only by a tool and	Intifer Milite Milite Will	N/A
Tile Mil	switches operated by hand that are interlocked so that they cannot be operated under load,	TEX WHITE WHITE WHITE W	N/A
Et alle	are not subjected to the tests	at the the state of	N/A
WALTER	However, switches without this interlock are subjected to the test of 17.2.4.4 for 100 cycles of operation	WILL WILLEY WHILEY WALLEY	N/A
Let.	Sub-clauses 17.2.2 and 17.2.5.2 not applicable	a se se set	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	et let let viet viet	N/A
* 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 wifet writer writer	N/A
20	Clearances, creepage distances, solid insulation and assemblies	l coatings of rigid printed board	MITEK
- LTEK . (1)	Clause 20 is applicable to clearances across full disconnection and micro-disconnection	at the state	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	and the parties such	N/A
WALTER	ANNEX I (NORMATIVE) MOTORS HAVING BASIC INSULATION THAT IS INADEQUATE FOR THE RATED VOLTAGE OF THE APPLIANCE		
Writer W	The following modifications to this standard are appliinsulation that is inadequate for the rated voltage of t		nul <u>ie</u> r
8	Protection against access to live parts	a state of the	(10th)
8.1	Metal parts of the motor are considered to be bare live parts	The water water was	N/A
11	Heating	A WILL PULL MULL MULL	772
11.3	Temperature rise of the body of the motor is determined instead of the temperature rise of the windings	MALTER WALTER WALTER	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	RETER WHITER WHITER WHITER	N/A
16	Leakage current and electric strength	ilk niter niter uniter un	1/1
16.3	Insulation between live parts of the motor and its other metal parts not subjected to the test	- Tek Tek Tek szír	N/A

Page	63	of	128	

The state of	EN 60335-1	the the time at a	1 1/2
Clause	Requirement – Test	Result – Remark	Verdict
19.1	The tests of 19.7 to 19.9 not carried out	Milit While While While	N/A
19.1.101	Appliance operated at rated voltage with each of the	following fault conditions:	N/A
TEX T	- short circuit of the terminals of the motor, including any capacitor incorporated in the motor circuit	artic mail and min	N/A
er en	- short circuit of each diode of the rectifier	cret while much make a	N/A
EK JIE	- open circuit of the supply to the motor	of the set is	N/A
- The	- open circuit of any parallel resistor, the motor being in operation	and any of the	N/A
Mr. 1	Only one fault simulated at a time, the tests carried out consecutively	MULTI MULT WAS THE	N/A
22	Construction	WITE WALL WALL WALL	100 - 9
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	et united united white	N/A
"ik	Compliance checked by the tests specified for double and reinforced insulation	MULL MULL MULL MU	N/A
Tuna a	ANNEX J (NORMATIVE) COATED PRINTED CIRCUIT BOARDS		N/A
VILLE MUL	Testing of protective coatings of printed circuit boards carried out in accordance with IEC 60664-3 with the following modifications:		Vrieg-PA
5.7	Climatic sequence		16th - 1761
r Tille	When production samples are used, three samples of the printed circuit board are tested	A ST TH TE	N/A
5.7.1	Cold	MILL MILL MILL MILL	N/A
INLIER AU	The test is carried out at -25°C	THE THE STEEL NITER	N/A
5.7.3	Rapid change of temperature	Mr. My. My. An	N/A
LIE WILL	Severity 1 is specified	THE LIFE ALTER PATER OF	N/A
5.9	Additional tests	111 111 111	* - X
Mer	This subclause is not applicable	t outer united white whi	N/A
K	ANNEX K (NORMATIVE) OVERVOLTAGE CATEGORIES		PA
alter in	The information on overvoltage categories is extracted from IEC 60664-1	at let tet tet	ALTEP N
TEN ITE	Overvoltage category is a numeral defining a transient overvoltage condition	the state of	Р
r 24	Equipment of overvoltage category IV is for use at the origin of the installation	MULT MULT WIND MI	N/A

Reference No.: WTX22X09184384S Page 64 of 128

		1
	4	X.
31		

01	EN 60335-1		1 1/ 11
Clause	Requirement – Test	Result – Remark	Verdict
MUTER 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	MILES WILLES WILLES WILL	N/A
iter mu	Equipment of overvoltage category II is energy consuming equipment to be supplied from the fixed installation	Category II	P
White Aller	If such equipment is subjected to special requirements with regard to reliability and availability, overvoltage category III applies	T WILLER WHILE WHILE W	N/A
Wilex 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	MILE MILE MILES MILE	N/A
Lest Maris	ANNEX L (INFORMATIVE) GUIDANCE FOR THE MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES		
Muricia	Sequences for the determination of clearances and creepage distances	WALTER WALTER WALTER ON	Р
M	ANNEX M (NORMATIVE) POLLUTION DEGREE		
VILLEY AND	The information on pollution degrees is extracted from IEC 60664-1	at white white	V ALTE P AN
	Pollution		JE# J
	The microenvironment determines the effect of pollution on the insulation, taking into account the microenvironment	Tet itet stet in	P
TEK .	Means may be provided to reduce pollution at the insulation by effective enclosures or similar	and and all the	P
	Minimum clearances specified where pollution may be present in the microenvironment	ALL WILL WAS THE	Р
, 24r.	Degrees of pollution in the microenvironment	ite write write and	21, -21,
ek walter	For evaluating creepage distances, the following deg microenvironment are established:	grees of pollution in the	NI EK WILL
JUNITEK V	- pollution degree 1: no pollution or only dry, non-conductive pollution occurs. The pollution has no influence	antifet whilet whilet whi	N/A
NITER AIT	- 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
MULTER	- pollution degree 3: conductive pollution occurs or dry non-conductive pollution occurs that becomes conductive due to condensation that is to be expected	MUNITER MUTTER AND	N/A

Reference No.: WTX22X09184384S Page 65 of 128

1, 200	EN 60335-1	. "
Clause	Requirement – Test Result – Remark	Verdic
MITER OF	- pollution degree 4: the pollution generates persistent conductivity caused by conductive dust or by rain or snow	N/A
N (Fig. 2)	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:	
7	Test apparatus	10,
7.3	Test solutions	· Katha
70	Test solution A is used	N/A
10	Determination of proof tracking index (PTI)	WITE S
10.1	Procedure	`~
To will	The proof voltage is 100V, 175V, 400V or 600V :	N/A
+ 2	The test is carried out on five specimens	N/A
TEX	In case of doubt, additional test with proof voltage reduced by 25V, the number of drops increased to 100	N/A
10.2	Report	<u> </u>
NLTEN WA	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
O' white	ANNEX O (INFORMATIVE) SELECTION AND SEQUENCE OF THE TESTS OF CLAUSE 30	FEE P
NATER	Description of tests for determination of resistance to heat and fire	PIE
P EK	ANNEX P (INFORMATIVE) GUIDANCE FOR THE APPLICATION OF THIS STANDARD TO APPLIANCES USED IN WARM DAMP EQUABLE CLIMATES	N/A
LIEK WAL	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	ilier <mark>-</mark> un
	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	WILLEY WILLEY
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

Reference No.: WTX22X09184384S Page 66 of 128

I were	EN 60335-1	the the time the	10. 10
Clause	Requirement – Test	Result – Remark	Verdic
MULIEK 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		N/A
LIEK WA	If symbol IEC 60417-6332 is used, its meaning is explained	TEX MITES WILLES WHITES	N/A
11.8	The values of Table 3 are reduced by 15 K	e at at all	N/A
13.2	The leakage current for class I appliances not exceeding 0.5 mA (mA)	MILL MILL WAY	N/A
15.3	The value of t is 37 °C	CHILE WILL MALL MALL	N/A
16.2	The leakage current for class I appliances not exceeding 0.5 mA (mA)	LIET WIFE WIFE	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 still	N/A
Q	ANNEX Q (INFORMATIVE) SEQUENCE OF TESTS FOR THE EVALUATION OF ELECTRONIC CIRCUITS		P
11,	Description of tests for appliances incorporating electronic circuits		
RALTER	ANNEX R (NORMATIVE) SOFTWARE EVALUATION		N/A
NITEK WA	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	or and the suntrest	N/A
R.1	Programmable electronic circuits using software	in mir mir m	24.
onliek on	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	at the test of the	UEF-
ek watek	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	t white white white w	N/A
R.2.1.1	Programmable electronic circuits requiring software is control the fault/error conditions specified in table R.2 structures:		JALTER V

N/A

N/A

N/A

- single channel with periodic self-test and monitoring

- dual channel (diverse) with comparison

- dual channel (homogenous) with comparison

Page 67 of 128

		The Street William W		
TER WITE	with Mir Mur A	EN 60335-1	CER TER TER STER	WILL WALL
Clause	Requirement – Test	TER STEE WALL WAS	Result – Remark	Verdict

Clause	Requirement – Lest Result – Remark	verdict
	and the same and the same and the same and	JE JU
	Programmable electronic circuits requiring software incorporating measures to control the fault/error conditions specified in table R.1 have one of the following structures:	EX WITEX
	- single channel with functional test	N/A
The Will	- single channel with periodic self-test	N/A
,t .c.	- dual channel without comparison	N/A
R.2.2	Measures to control faults/errors	Mr Phys
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	N/A
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	LIVE INTER
R.3.1	General	

Reference No.: WTX22X09184384S Page 68 of 128

WILL WILLE		EN 60335-1	THE WALTE WALTE
Clause	Requirement – Test	Result – Remark	Verdict

Clause	Requirement – rest	verdict
WILLEY.	For programmable electronic circuits with functions requiring software incorporating	10,000
NUTEK NI	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	MALTER
itek mi	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	1
R.3.2.1	Software safety requirements:	N/A
Aler 2	The specification of the software safety requirements includes the descriptions listed	N/A
R.3.2.2	Software architecture	Mr M
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);	TEY LIE
	- interactions between hardware and software;	411
	- partitioning into modules and their allocation to the specified safety functions;	WALTER.
	- hierarchy and call structure of the modules (control flow);	NATEK W
	- interrupt handling;	*
	- data flow and restrictions on data access;	Mile Mari
	- architecture and storage of data;	
MILIE	- time-based dependencies of sequences and data	MULL
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	512t- 3
R.3.2.3.1	Based on the architecture design, software is suitably refined into modules	N/A
WILL	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 WALTE	The module specification is validated against the architecture specification by static analysis	N/A
R.3.3.3	Software validation	15 - 18 H
JUNE" .	The software is validated with reference to the requirements of the software safety requirements specification	N/A

Reference No.: WTX22X09184384S Page 69 of 128

	EN 60335-1		
Clause	Requirement – Test	Result – Remark	Verdict
W. C.	Compliance is checked by simulation of:	THE WILL MALES WATER	N/A
J. L.T.E.K.	- input signals present during normal operation	t at let let	N/A
21, 1	- anticipated occurrences	They must show a	N/A
LIER N	- undesired conditions requiring system action	at at at	N/A

0		Assertable research 6	D.C.		D	1/2
Component	Fault/error	Acceptable measures ^{b, c}	Definitions	Document reference for applied measure	Document reference for applied test	Verdict
1 CPU	The sales of	TIL MUT. MUT. M.		.+	it let	N/A
1.1	711 22	a state of the same	ER WILL	unlik wali	21/2	12 21
Registers	Stuck at	Functional test, or	H.2.16.5	4	, t	et :
	me me	periodic self-test using either:	H.2.16.6	LIE WITE	write was	in which
	10t 10t	- static memory test, or	H.2.19.6	20.		t 2
in Murite M	ALL MULL	 word protection with single bit redundancy 	H.2.19.8.2	ek whitek v	WILL MUTT	Merry
1.2 VOID	Et Jier	WILL WILL MALL MILL			et et	N/A
1.3	Stuck at	Functional test, or	H.2.16.5	antite and	11/2	N/A
Programme	1.5	Periodic self-test, or	H.2.16.6		L+	18th
counter	10, 10	Independent time-slot	H.2.18.10.	OLIT!	WITTEN.	ic, in
	/	monitoring, or	4	100		+ .
	112 -11	Logical monitoring of the	1104040	Service The	CLIET WILL	WILL
	et et	programme sequence	H.2.18.10.	'm	71, 7,	
2	No interrupt	Functional test, or	H.2.16.5	t tet	LITE MILITE	N/A
Interrupt handling and execution	or too frequent interrupt	time-slot monitoring	H.2.18.10. 4	MUTER MUT	et whitet	INLIEK I
3	Wrong	Frequency monitoring, or	H.2.18.10.	LIE WILLE	and an	N/A
Clock	frequency (for quartz synchroniz ed clock: harmonics/ sub-harmo nics only)	time slot monitoring	1-511		A 1	+ 4
WALLER WAY		United whited whited whited	H.2.18.10. 4	MUTEL MY	TEX WHITEX	unitek ex
4. Memory	ano an	The state of	et Jet	LIER OUT	antie a	N/A
4.1	All single bit faults	Periodic modified checksum, or	H.2.19.3.1	11. 211	30	,-t
Invariable		multiple checksum, or	H.2.19.3.2	LEK JEK	STEEL ST	ie with
memory	TEX TEX	word protection with single bit redundancy	H.2.19.8.2	' NU'S	24 B	- ZEN

Reference No.: WTX22X09184384S Page 70 of 128

Requirement – Test

Clause



		TABLE R.1 ° – GENERAL FAULT		NDITIONS	, 77	
Component	Fault/error	Acceptable measures b, c	Definitions	Document reference for applied measure	Document reference for applied test	Verdict
4.2	DC fault	Periodic static memory test, or	H.2.19.6	Mr. Will	21/2 211	N/A
Variable memory	Wriek Murie	word protection with single bit redundancy	H.2.19.8.2	EK WILLEK	MALTEX MALT	
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	Whitek Mile	erick while extunction	N/A
5 Internal data path	Stuck at	Word protection with single bit redundancy	H.2.19.8.2	it uni it jet	Whi wh	N/A
5.1 VOID	t	LEK TEK STEK SINLTE	Wer me	21/2 2	, ,	N/A
5.2 Addressing	Wrong address	Word protection with single bit redundancy including the address	H.2.19.8.2	MUTEK MU	JEK WALTER	N/A
6 External	Hamming distance 3	Word protection with multi-bit redundancy, or	H.2.19.8.1	MALTE	WALLE M	N/A
communicat ion		CRC – single work, or	H.2.19.4.1	. A.	Set S	
1011	, v	Transfer redundancy, or	H.2.18.2.2	" With	me m	
t let	Cler Cler	Protocol test	H.2.18.14		at the	- JEH
6.1 VOID	-20	A LEX STEEL	LIFE MIT	WELL W	r, mr	N/A
6.2 VOID	I TEN	LIFE WILL MULT WIND	10 12		at alt	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: - reciprocal comparison	H.2.18.10. 4 H.2.18.18 H.2.18.10. 3	until uni	JUNE WARTER WALTER	N/A
	Wrong sequence	 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	nitek whitek	H WALTER WALTER	

Reference No.: WTX22X09184384S Page 71 of 128

		10, 10, 10		
		EN 60335-1		en antite white
Clause	Requirement – Test	THE WALL WAL	Result – Remark	Verdict

	, T	ΓABLE R.1 ° – GENERAL FAUL	_T/ERROR CO	NDITIONS		
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	ies unites	Whitek whit	N/A
7.1 VOID	TER SUTE	with whi whi w	20		Let Let	N/A
7.2 Analog I/O	4 16x	TEX LIEK NITER WALTER	WALLE WALLE	mer, m	r aur	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	UNLIEK WALT	NUTEK NA	net w
7.2.2 Analog multiplexer	Wrong addressing	Plausibility check	H.2.18.13	EX MITEX	NITEK WALTE	N/A
8 VOID	et set	SITE OLIFE MILL WAS	-in -in	4	A 15	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	white whi	Junited whi	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	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	

	EN 60335-1		
Clause	Requirement – Test	Result – Remark	Verdic
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	Whitek Mulice Mulice wh	N/A
5.S.102	Appliances are tested as motor-operated appliances.	TEX UNLIER WHITEK WHITE	N/A
7.1	Appliances marked with the battery voltage (V) and the polarity of the terminals, unless:	A stiff stiff source	N/A
	the polarity is irrelevant	70, 20, 7	N/A
WILL .	Appliances also marked with:	ALTER MALTER MALTER W	The Thirty
WIZEK W	name, trade mark or identification mark of the manufacturer or responsible vendor:	Tet itet siret mi	N/A
	- model or type reference:	L. M. M. M.	N/A
The Miles	- IP number according to degree of protection against ingress of water, other than IPX0:	LEX WHITE WHITE WHITE	N/A
A WITE	- type reference of battery or batteries:	t let the tree	N/A
WILLER O	If relevant, the positive terminal is indicated by the symbol IEC 60417-5005 and the negative terminal by the symbol IEC 60417-5006	WILEY WILEY WILEY WA	N/A
NLTEK VIN	If appliances use more than one battery, they are marked to indicate correct polarity connection of the batteries	Et united white	N/A
7.6	Additional symbols	The Ties	N/A
7.12	The instructions contain the following, as applicable:	mr m. m	
MILITER	- the types of batteries that may be used:	THE LITTER STEELS	N/A
	- how to remove and insert the batteries	m m m	N/A
mrite w	 non-rechargeable batteries are not to be recharged 	NUTER WHITE WHITE WHE	N/A
ilifer whi	 rechargeable batteries are to be removed from the appliance before being charged 	Tex writes writes write	N/A
ek whiteh	different types of batteries or new and used batteries are not to be mixed	t milet milet mailet	N/A
MILIER MA	- batteries are to be inserted with the correct polarity	3" " A A	N/A
	exhausted batteries are to be removed from the appliance and safely disposed of	MILLE MULTE MULL M	N/A
	if the appliance is to be stored unused for a long period, the batteries are removed	stiff white white whi	N/A
TER WITE	- the supply terminals are not to be short-circuited	et 18th lift outer	N/A
11.5	Appliances are supplied with the most unfavourable s	supply voltage between	
MULTE	 0.55 and 1,0 times the battery voltage, if the appliance can be used with non-rechargeable batteries 	Whitek Mulitek Whitek V	N/A

Page 73 of 128



Clause	Requirement – Test	Result – Remark	Verdict
- 40		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10000
Mr.	- 0.75 and 1,0 times battery voltage, if the appliance is designed for use with rechargeable batteries only	Murit Mari Mari	N/A
une w	The values specified in Table S.101 for the internal resistance per cell of the battery is taken into account	Intitle white white	N/A
19.1	The tests are carried out with the battery fully charged unless otherwise specified	The the the	N/A
19.13	The battery does not rupture or ignite	antil 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
11 - 50 26t - 56	such a connection is unlikely to occur due to the construction of the appliance	Mit with with w	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	White white white	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		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	WALTER OF	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	Mariet Mariet Mariet	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 MALIER MALIER	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
TEN	the battery is shielded by a barrier that meets the needle flame test of Annex E, or	THE THE THE	N/A
The T	that comprises material classified as V-0 or V-1 according to IEC 60695-11-10	MULL MULL MULL	N/A
	ANNEX T (NORMATIVE) UV-C RADIATION EFFECT ON NON-METALLIC M	IATERIALS	N/A
L WALL	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 united united unit	N/A

Page 74 of 128

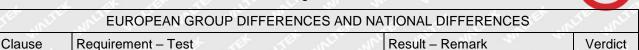


21/	EN 60335-1			
Clause	Requirement – Test	Result – Remark	Verdic	
W. C.	Does not apply to glass, ceramic and similar materials	MULLER MULLER MULLER MILLER	N/A	
are a	Tested as specified in ISO 4892-1 and ISO 4892-2, v	with the following modifications:	an -	
at i	Modifications to ISO 4892-1:	and the state of the	JEX-	
5.1	Light source	itter with with which w	-10	
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	A MULTER MULTER MULTER MULT	N/A	
White.	Subclause 5.1.6.1 and Table 1 are not applicable	TEX STEX NITER MITE	N/A	
5.2	Temperature	7/12 21 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	, jt	
5.2.4	The black-panel temperature shall be 63 °C ± 3 °C	NITER WALTE WALTE WALTE	N/A	
5.3	Humidity and wetting	at at all other	JE# N	
5.3.1	Humidification of the chamber air is specified in part 2 when necessary	must have any an	N/A	
9 🐠	Test report	nite with with white	n.	
All the	This clause is not applicable	a at the life	N/A	
11/2 1	Modifications to ISO 4892-2:	WALTER WALTER WALT WALTER	11.	
7.4	Procedure	A THE THE	JEEP.	
7.1	General	a Cours on a	- "	
IEE RETT	At least three test specimens are tested	THE LIEF AL	N/A	
-7,	Ten samples of internal wiring is tested	They are any an	N/A	
7.2	Mounting the test specimens	THE THE STEE WITE	- wite	
TEK.	The specimens are attached to the specimen holders such that they are not subject to any stress	A ST ST TET	N/A	
7.3	Exposure	intity which with the control of the	·	
ناه. المثالة	Apparatus prepared as specified	at at the title	N/A	
EX WALTER	The test specimens and, if used, the irradiance-measuring instrument are exposed for 1 000 h	- WAL MILES MALLER MALE	N/A	
7.4	Measurement of radiant exposure	The state of	- 12th	
WAL V	If used, a radiometer is mounted and calibrated such that it measures the irradiance at the exposed surface of the test specimen	White white white white	N/A	
7.5	Determination of changes in properties after exposur	e, we we	" _ ~	
TER WALT	Material properties and test methods for parts providing mechanical support or impact resistance as specified in Table T.1	EX MILIER WHITEK WHITEK WHI	N/A	
Mer	Material properties and test method for electrical insulation of internal wiring as specified in Table T.2	WHITE WHITE WHITE WHITE	N/A	

Page 75 of 128

1101010110	0 No.: W1/22/001040040	T 490 70 01	120,0	
	We all the second	EN 60335-1	The fire of the service of the servi	are are
Clause	Requirement – Test		Result – Remark	Verdict
R SILL	Exposure report	A 18	The state of the state	MI WELL
0	Exposure report	76 Jan 1	b. 74 20. 2	
	This clause is not applicable		it it let let	N/A

Reference No.: WTX22X09184384S Page 76 of 128



ATTACHMENT TO TEST REPORT IEC 60335-1 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

Household and similar electrical appliances - Safety -

Part 1: General requirements

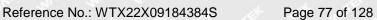
Differences according to: EN 603

EN 60335-1:2012+A11:2014+A13:2017+A1:2019+A14:2019+A2:2019

EN 62233:2008

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	CENELEC COMMON MODIFICATIONS		
6.1	Delete "class 0" and "class 01"	Class II	P
7.1	Single-phase appliances to be connected to the supply mains: 230 V covered	100-240V	My My P
T. Mus	Multi-phase appliances to be connected to the supply mains: 400 V covered	LEK WILLER WILLER	N/A
7.12	The instructions include the substance of the following	ng:	P ²
MILITER W	- this appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved		MUNITER WHITER
et s	- children shall not play with the appliance		A P
- 24 202	- cleaning and user maintenance shall not be made by children without supervision	MULL MULL M	P
8.1.1	Also test probe 18 of EN 61032 is applied	OLIEF WILLE WAL	NP NP
UNLIEK V	The appliance being in every possible position during the test, except that	THE STREET STREET	P-
TEK IN	appliances normally used on the floor and having a mass exceeding 40 kg are not tilted	in the text	N/A
t de	The force on the probe in the straight position is increased to 10 N when probe 18 is used	t if let	P
MITER	When using test probe 18 the appliance is fully assembled as in normal use without any parts removed, and	MILL MILL ME	P ALTER MATER
TEK .	parts intended to be removed for user maintenance are also not removed	The the tex	N/A
8.1.3	Instead of test probe B, test probe 18 and test probe 13, for appliances other than those of class II, test probe 41 of IEC 61032 is applied with a force not exceeding 1 N to live parts of visibly glowing heating elements, all poles of which can be disconnected by a single switching action	EX WHITEX WHITEX	N/A



- 4/1	EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES				
Clause	Requirement – Test	Result – Remark	Verdict		
8.2	Compliance is checked by inspection and by applying the test probes of EN 61032 in accordance with the conditions specified in 8.1.1	While White White	WILLEY WILLEY		
itek mi	Test probe B and probe 18 of EN 61032 are applied to built-in appliances and fixed appliances only after installation		N/A		
15.1.2	Appliances with an automatic cord reel tested with the cord in the most unfavourable position so that the reeling of the wet cord may affect electrical insulation during operation, the cord not being dried before reeling	* Whitek whitek whitek	N/A		
20.2	For appliances having dangerous moving parts, due to their working function, e.g. the needle of a sewing machine, tools of kitchen machines or the blade of an electrical knife, full protection is not possible for performing their intended use		N/A		
y Writes	When using a test probe similar to test probe B of EN 61032, having a circular stop face and applied with a force of 5N, the accessories and detachable covers are removed	Whitek Mutter Mutter	N/A		
MULLE A	When using test probe 18 it is applied with a force of 2.5N on the appliance fully assembled	MALTER WALTER WALTER	N/A		
22.12	Other parts intended to be detached during use, maintenance or cleaning (e.g. batteries, battery covers, lids, attachments, steam nozzles) are not considered as parts providing a similar function as handles, knobs, grips, levers	THE WALLEY WALL	N/A		
22.17	The requirement is not applicable to built-in appliances	street whilet	N/A		
24.1	Components comply with the safety requirements specified in the relevant standards as far as they reasonably apply	RLIER WILLER WILLIER	MIEL MITE		
LIEK WY	Motors are not required to comply with EN 60034-1, but tested as part of the appliance according to this standard	Tex MULTER MULTER MUL	N/A		
MULT	Relays are tested as part of the appliance according to this standard	* WHITE MUSICES MUSICE	N/A		
WALTER	Relays may be alternatively tested to EN 60730-1 and the additional requirements in EN 60335-1	INTER MULTER WATER	N/A		
VILLER ML	The requirements of Clause 29 of this standard apply between live parts of components and accessible parts of the appliance.	TITEK MULTER MULTER M	LIFE WITE W		
te write	Components may comply with the requirements for clearances and creepage distances for functional insulation as specified in the relevant component standard	EX WHITEX WHITEX WHIT	DITE METER		

Reference No.: WTX22X09184384S Page 78 of 128



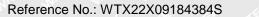
Clause	Requirement – Test	Result – Remark	Verdict
Clause	Requirement – Test	Result – Remark	verdict
MUTER W	The requirements of 30.2 of this standard apply to parts of non-metallic material in components including parts of non-metallic material supporting current-carrying connections inside components	MILIER MILIER MILIER WALTER	P
itek wai ek aite	Components that have not been tested and shown to comply with the EN standard for the relevant component are tested according to the requirements of 30.2 of this standard	TEX MITEX MITER MITER OF	LITE P OF
MALTEX.	Components that have been tested and shown to correquirements in the EN standard for the relevant corprovided that:		P
NITEK NI	- the severity specified in the component standard is not less than the severity specified in 30.2, and	Tex Tex Tips Nates	P.
iek "Ji	- the test report for the component states the values of te and ti acc. to EN 60695-2-11	at the fifth of	TEL P
- TEN	If the above two conditions are not satisfied, the component is tested as part of the appliance	want and any and	P
WLIEF.	Power electronic converter circuits are not required to comply with EN 62477-1, but tested as part of the appliance according to this standard	White whit whit whit	N/A
ILLER MA	Unless components have been previously tested and found to comply with the relevant standard for the number of cycles specified, they are tested in accordance with 24.1.1 to 24.1.9	unt white whitet whiteh	P
WALT	For components mentioned in 24.1.1 to 24.1.9, no additional tests specified in the relevant standard for the component are necessary other than those specified in 24.1.1 to 24.1.9	TEK TEK MITEK MIN	P
LIEN	Components that have not been separately tested and found to comply with the relevant standard, and	at the life life	P
er di	components that are not marked or not used in accordance with their marking,	into the set let	P
y Wiley	are tested in accordance with the conditions occurring in the appliance, the number of samples being that required by the relevant standard	t fet ifet sifet ni	P
MUTEK AN	Lamp holders and starter holders that have not been previously tested and found to comply with the relevant standard are tested as a part of the appliance and additionally comply with the gauging and interchangeability requirements of the relevant standard under the conditions occurring in the appliance	MATER WHITER WHITER WHITER	N/A
e whi	Where the relevant EN standard specifies these gauging and interchangeability requirements at elevated temperatures, the temperatures measured during the tests of Clause 11 are used	ex whitek white white wi	P.N.

Reference No.: WTX22X09184384S Page 79 of 128



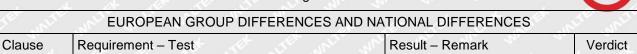
Clause	Requirement – Test	Result – Remark	Verdict
+ 50+	atil atil and with the	L A B At	176° 117°
untiek w	There are no additional tests specified for nationally standardized plugs such as those detailed in IEC/TR 60083 or connectors complying with the standard sheets of EN 60320-1 and EN 60309, unless they are specifically mentioned in the text of this standard	MITER WALTER WHITER W	N/A
ex antie	Plugs and socket-outlets and other connecting devices of interconnection cords are not interchangeable with plugs and socket-outlets listed in IEC/TR 60083 or IEC 60906-1, or	A Writer White Aurit	P W
WALTER.	with connectors and appliance inlets complying with the standard sheets of IEC 60320-1, if	list outst milet	P
OLITEK NI	direct supply to these parts from the supply mains gives rise to a hazard	Let let litt o	N/A
TEP IT	For plugs used in CENELEC countries Annex ZH applies	A ST ST ST	P
24.1.7	If the remote operation of the appliance is via a telecommunication network, the relevant standard for the telecommunication interface circuitry in the appliance is EN 41003	MUSTER MUTER MUTER	N/A
NUTE V	Compliance with Clause 8 of this standard is not impaired by connecting the appliance to a device covered by EN 41003	WALTER WALTER WALTER W	N/A
24.Z1	Type S2 and S3 capacitors according to EN 60252-1 are not required to undergo the testing as required by 30.2.2 and 30.2.3.1	The mile on	N/A
25.1	Plugs and pins for insertion into socket outlets follow the relevant standards sheets in Annex ZH	Must Must must	P
25.7	Rubber sheathed cords (60245 IEC 53) are not suitable for appliances intended to be used outdoors, or	white white white	N/A
a series	When they are liable to be exposed to significant amount of ultraviolet radiation	nis mis me m	N/A
25.25	Instead of IEC/TR 60083, dimensions of the pins and engagement face of plugs of appliances that are inserted into socket-outlets are in accordance with the dimensions of the relevant plug standard	t united maries mark	N/A
WALTER	Common plugs and socket-outlets types in CENELEC countries as shown in Annex ZH	NIFEK MITEK MALTER	N/A
26.11	Conductors connected by soldering are not considered to be positioned or fixed so that reliance is not placed upon the soldering alone tomaintain them in position,	TITER WHITER WHITER WH	N/A
m	unless they are held in place near the terminals independently of the solder	MULL MULL MULL	N/A

Page 80 of 128

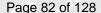


4/2	EUROPEAN GROUP DIFFERENCES AND NA		2112 211
Clause	Requirement – Test	Result – Remark	Verdict
29.3.Z1	Appliance constructed so that if there is a possibility of damaging the insulation during installation, the insulation withstands the scratch and penetration test of 21.2	Whitek whitek whitek	N/A
32	Compliance regarding electromagnetic fields is checked according to EN 62233	ITEX INTEX MILIER WILL	EK WITE PW
Annex I, 19.I.101	The appliance is supplied at rated voltage and operated under normal operation with each of the fault conditions specified	* while while while	N/A
WALTER	The duration of any of the tests is as specified in 19.7	MILIER MALIER MALIER	N/A
SEE S	I st mile while while while you	at the state of	TEX LITER
ZA	ANNEX ZA (NORMATIVE) SPECIAL NATIONAL CONDITIONS	inch which was an	Р
21/2	AND A REAL PROPERTY.	ite white white whi	24. 24
t all	Denmark, Sweden, Norway and Finland	L A A A	5 th 55°
7.12.8	The maximum inlet water pressure is at least 1,0 MPa:	white mit was	N/A
any a	The state of the s	OLITER SPLITE SUPLIFY	ir mr.
All S	Norway		CEPT CIEPT
19.5	The test is also applicable to appliances intended to be permanently connected to fixed wiring	a Chu, m	N/A
, me,	an an at the the	antit with while	me me
- Jest	Norway	- A 10	JE - JE
22.2	The second paragraph of this subclause, dealing with single-phase, permanently connected class I appliances having heating elements, is not applicable due to the supply system	White white whitek	N/A
56t 55	E NITER WILL WILL WAS AND AND	at at at a	EK JEK N
2,	Denmark	in min mer men	21 21
22.47	The maximum inlet water pressure is at least 1,0 MPa:	* JANTER WALTER WALTER	N/A
MILITER V	Ireland and United Kingdom	mile mile mile	ALTER AND LIER
25.8	In the table, the lines for 10 A and 16 A are replaced	by:	N/A
12/1	> 10 and ≤ 13 1,25	THE WILL MAIN AND	N/A
TER ANTE	> 13 and ≤ 16 1,5	et milet miret wait	N/A
7R	ANNEY 7R (INIFORMATIVE)	t it it it	P
ZB	ANNEX ZB (INFORMATIVE) A-DEVIATIONS		Mr. Mb

Reference No.: WTX22X09184384S Page 81 of 128



1100		1000
7,	The state of the s	
17 LIV	Ireland	Net Trans
25.1 and 25.25	These regulations apply to all plugs for domestic use at a voltage of not less than 200 V and in general allow only plugs complying with I.S. 401:1997, or equivalent, to be fitted to domestic appliances	N/A
er wite	while while while will all the test still hiteles the	أسرار
	United Kingdom	
25.1 and 25.25	These regulations apply to all plugs for domestic use at a voltage of not less than 200 V and in general allow only plugs to BS 1363 to be fitted to domestic appliances.	N/A
JEK MIE	It also allows plugs to BS 4573 and EN 50075 to be fitted to shavers and toothbrushes	N/A
, ,	It let tex they write with my my my my	
ZC	ANNEX ZC (NORMATIVE) NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH THEIR CORRESPONDING EUROPEAN PUBLICATIONS	P
NULL AND THE	A list of documents referred to in the text of this standard in such a way that some or all of their content constitutes requirements of this document	W P
ZD	ANNEX ZD (INFORMATIVE) IEC and CENELEC CODE DESIGNATIONS FOR FLEXIBLE CORDS	P
WALTER	List of IEC and CENELEC code designations for flexible cords	P
16 M	Strain and the state of the sta	11 TEN
ZE W	ANNEX ZE (INFORMATIVE) SPECIFIC ADDITIONAL REQUIREMENTS FOR APPLIANCES AND MACHINES INTENDED FOR COMMERCIAL USE	N/A
7.1	Business name and full address of the manufacturer and, where applicable, his authorized representative:	N/A
A Ph	Model or type reference:	N/A
ang a	Serial number, if any:	N/A
The S	Production year	N/A
21/2	Designation of the appliance:	N/A
7.12	Instructions provided with the appliance so that the appliance can be used safely	N/A
+ et	The instructions contain at least the following information:	N/A

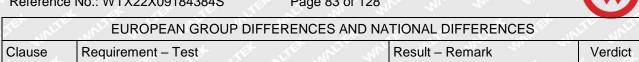


Page 82 of 128 Reference No.: WTX22X09184384S

Clause	Requirement – Test	Result – Remark	Verdict
- 104	ALTE WILL MALL WALL WALL TO THE TOTAL TO THE TOTAL TOT	L st st st	TE STE
WALLER W	the business name and full address of the manufacturer and, where applicable, his authorized representative	White while white	N/A
LIEK WAY	model or type reference of the appliance as marked on the appliance itself, except for the serial number	tex writer writer our	N/A
JANITE	 the designation of the appliance together with its explanation in case it is given by a combination of letters and/or numbers 		N/A
White.	the general description of the appliance, when needed due to the complexity of the appliance	Whitek Whitek Whitek	N/A
NITEK W	specific precautions if required during installation, operation, adjusting, user maintenance, cleaning, repairing or moving	NUTER WHITEK WHITEK W	N/A
ie whi	 when needed drawings, diagrams, descriptions and explanations necessary for the safe use and user maintenance of the appliance 	EX WHITEX WHITEX WHI	N/A
MUL	the possible reasonably foreseeable misuse and, whenever relevant, a warning against the effects it may have on the safe use of the appliance		N/A
ILTEK MA	The words "Original instructions" appear on the language version(s) verified by the manufacturer or by the authorized representative	und yun yu	N/A
ex waite	When a translation of the original instructions has been provided by a person introducing the appliance on the market; the meaning of the sentence "Translation of the original instructions" appear in the relevant instructions delivered with the appliance	MULL MULL MULL	N/A
grifek gul	The instructions for maintenance/service to be done by specialized personnel, mandated by the manufacturer or the authorized representative may be supplied in only one Community language which the specialized personnel understand	WILL MUTTER MUTTER OF	N/A
y white	The instructions indicate the type and frequency of inspections and maintenance required for safe operation including the preventive maintenance measures	t water water water	N/A
7.12.ZE1	If needed for specific appliances, the following inform	nation to be given:	N/A
STEK WY	- on use, transportation, assembly, dismantling when out of service, testing or foreseeable breakdowns, if these operations have consequences on stability of the appliance in order to avoid overturning, falling or uncontrolled movements of the appliance or of its component parts	and	N/A

Page 83 of 128

Reference No.: WTX22X09184384S



Clause	Requirement – Test	Result – Remark	verdict
	and the transfer of the	at the state of	
MUSTER AN	- on how to maintain adequate mechanical stability when in use, during transportation, assembly, dismantling, scrapping and any other action involving the appliance	White whitek whitek white	N/A
NITER WAL	- on the protective measures to be taken by the user, including, where appropriate, the personal protective equipment to be provided	TEX WALTER WALTER WALTER	N/A
White A	- on the operating method to be followed in the event of accident or breakdown; if a blockage is likely to occur the operating method to safely unblock the appliance	White white white on	N/A
NV FER WY	- on the specifications on the spare parts to be used, when these affect the health and safety of the operator	STEE WALTER WALTER	N/A
LIEK WALTE	- on airborne noise emissions, determined and declare relevant Part 2, which includes:	ed in accordance with the	N/A
WUTER.	- the A-weighted emission sound pressure level at workstations, where this exceeds 70 dB(A);	MULTER WALTER WA	N/A
White W	- where this level does not exceed 70 dB(A), this fact is indicated	WILLER MUTER MUTER MUTE	N/A
nliek whi	- the peak C-weighted instantaneous sound pressure value at workstations, where this exceeds 63 Pa (130 dB in relation to 20 µPa):	THE WILLER WHITES	N/A
t whitek	- the A-weighted sound power level emitted by the machinery, where the A-weighted emission sound pressure level at workstations exceeds 80 dB(A):	MUTER MUTER MUTER MUT	N/A
7.12.ZE2	The instructions includes a warning to disconnect the appliance from its power source during service and when replacing parts	LIFER WHITER WHITE	N/A
ek Milek	If the removal of the plug is foreseen, it is clearly indicated that the removal of the plug has to be such that an operator can check from any of the points to which he has access that the plug remains removed	EK WATER WATER WATER	N/A
MUTIEK	If this is not possible, due to the construction of the appliance or its installation, a disconnection with a locking system in the isolated position is provided	WATER MATER WATER WATE	N/A
19.11.4.8	The appliance continues to operate, without causing any hazard to the user, from the same point in its operating cycle at which the voltage fluctuation occurred, or	itek waitek waitek Harriek waitek	N/A
71,	a manual operation is required to restart it	Were Mer Me 2	N/A

Page 84 of 128 Reference No.: WTX22X09184384S

EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES			- ar
Clause	Requirement – Test	Result – Remark	Verdict
20.1	Appliances and their components and fittings have adequate mechanical stability during transportation, assembly, dismantling and any other action involving the appliance	JULIER WHITER WHITER	N/A
20.2	Dangerous moving transmission parts safeguarded either by design or guards	TEX MITEX MITEX WILLER	N/A
EX MULTER	When guards are used, they are fixed guards, interlocking movable guards or protective devices	# street wirest whites whi	N/A
MITEL	Moving parts directly involved in the function of the a completely inaccessible fitted with:	ppliance which cannot be made	N/A
ULIEK AU	- fixed guards or interlocking movable guards preventing access to those sections of the parts that are not used in the work, and	SURE WILEY WILEY	N/A
TEX WALTE	- adjustable guards restricting access to those sections of the moving parts where access is necessary	lex multex multex multex on	N/A
Walter	Interlocking movable guards used where frequent access is required	COLLEK WALTER WALTER WALT	N/A
21.1	Appliances and their components and fittings have adequate mechanical strength and is constructed to withstand such rough handling that may be expected in normal use, during transportation, assembly, dismantling, scrapping and any other action involving the appliance	united united whites whites	N/A
22.ZE.1	For appliances provided with a seat, the seat gives adequate stability	MULTER VIOLENT WALTER WA	N/A
MULTER	The distance between the seat and the control devices capable of being adapted to the operator	BLIEF WILLES WALTER WALTE	N/A
22.ZE.2	For appliances provided with separate devices for the start and the stop functions, the stop function is unambiguously identifiable and does always override the start function	NITER WHITER WHITER	N/A
EX WITEX	For appliances provided with one device performing the start and the stop function, the stop function is unambiguously identifiable and does always override the start function	the white white white whi	N/A
22.ZE.3	Appliances designed in such a way that incorrect mounting is avoided, if this can lead to an unsafe situation	MULTER MULTER MULTER	N/A
NITE WY	If this is not possible, information on the correct mounting is given directly on the part and/or the enclosure	STER WHITE WHITE WHITE	N/A
22.ZE.4	Where the weight, size or shape prevents appliances from being moved manually, they are fitted with attachments for lifting gear, or	er while while whi wh	N/A
The Table	so designed that they can be fitted with such attachments, or	Mur Mur My My	N/A

Page 85 of 128

Reference No.: WTX22X09184384S

01-	Decision Test	D. O. D. O. O.	/
Clause	Requirement – Test	Result – Remark	Verdict
M.C.	be shaped in such a way that standard lifting gear can easily be used	MULTER MULTER MULTER MULTER	N/A
ane al	Appliances to be moved manually are constructed or equipped so that they can be moved easily and safely	Intile Milit Milit Will	N/A
22.ZE.5	The fixing systems of fixed guards which prevent access to dangerous moving transmission parts only removable with the use of tools	at allest milest and and	N/A
Whitek 4	If such guards have to be removed by the user for routine cleaning or maintenance their fixing systems remain attached to the fixed guards or to the machine after removal	MAILER MALIER MALIER WALLE	N/A
ivez an	Where possible, guards are incapable of remaining in place without their fixings	ALTER MALTER WALLE WHILE	N/A
ile whit F TEX	This does not apply if, after removal of the screws, or if the component is incorrectly repositioned, the appliance becomes inoperative	TEX WHITE WHITE W	N/A
ne.	Movable guards are interlocked	WILL MULL MULL MULL	N/A
WALTER OF	The interlocking devices prevent the start of hazardous appliance functions until the guards are fixed in their position, and give a stop command whenever they are no longer closed	United Whitek Whitek Whitek	N/A
ek _{antie}	Where it is possible for an operator to reach the dan hazardous appliance functions has ceased, movable locking device in addition to an interlocking device the	guards associated with a guard	N/A
LIE	- prevents the start of hazardous appliance functions until the guard is closed and locked, and	THE THE THE STE	N/A
unitek un	- keeps the guard closed and locked until the risk of injury from the hazardous appliance functions has ceased	TEX SLIEN WITH SHIELD	N/A
ITEK MIT	Interlocking movable guards remain attached to the appliance when open, and		N/A
y whiley	they are designed and constructed in such a way that they can be adjusted only by means of an intentional action	t nitet mitet metet vert	N/A
22.ZE.6	Interlocking movable guards designed in such a way that the absence or failure of one of their components prevents starting or stops the hazardous appliance functions	MALTER MALTER MALTER MALTER	N/A
iek mute	The guard is opened to the extent needed to cause the interlocking to operate and is then closed, the number of operations being defined in the specific Part 2	eties white white whites	N/A
WALTER.	After this test any defect that may be expected in normal use is applied to the interlock system, including interruption of the supply, only one defect being simulated at a time	MULTER MULTER MULTER MULT	N/A

Reference No.: WTX22X09184384S	Page 86 of 128

<u> </u>	EUROPEAN GROUP DIFFERENCES AND NA	The state of the s	~ "a_
Clause	Requirement – Test	Result – Remark	Verdic
WILL CH	After these tests the interlock system is fit for further use	MULT MULT WITH WITH	N/A
22.ZE.7	Adjustable guards restricting access to areas of the for the work are:	moving parts strictly necessary	N/A
rite Mur	- adjustable manually or automatically, depending on the type of work involved, and	TER WITE MITTE MITTE	N/A
et alle	- readily adjustable without the use of tools	of the text of	N/A
22.ZE.8	In case of interruption, re-establishment after an interruption or fluctuation in whatever manner of the power supply, the appliance does not restart	THE WITH WHITE WHITE	N/A
INLIEK MILTE	However, automatic restarting of the operation is allowed if the appliance may continue to operate, without causing any hazard to the user, from the same point in its operating cycle at which the voltage interruption or fluctuation occurred	NUTER WHITER WHITER	N/A
22.ZE.9	Appliances fitted with means to isolate them from all energy sources	t det det det stet et	N/A
20	Such isolators are clearly identified, and	Mer Me My My	N/A
WILLER W	they are capable of being locked if reconnection endanger persons	WALTER WALTER WALTER WALTER	N/A
NITER WAS	After the energy source is disconnected, it is possible to dissipate any energy remaining or stored in the circuits of the appliance without risk to persons		N/A
ZF	ANNEX ZF (INFORMATIVE) CRITERIA APPLIED FOR THE ALLOCATION OF F STANDARDS IN THE EN 60335 SERIES UNDER L		P
NUTTER OUT	List of standards under CENELEC/TC61 with the allocation under the LVD (Low Voltage Directive) or the MD (Machinery Directive):	NITER WHITER WHITER WHITER	MILL P
LIE WILL	Mary Mary Mary St. The City	THE LIFE SLIFE WIFE OF	rece an
ZG	ANNEX ZG (NORMATIVE) UV APPLIANCES	the state asset asset ass	N/A
TEX	The following modifications to this standard apply to appliances having UV emitters	THE THE THE	N/A
NITEK WA	This annex is not applicable to appliances covered by the scopes of IEC 60335-2-27, IEC 60335-2-59 or IEC 60335-2-109	anti uni uni uni	N/A
7.12.ZG	The instructions for appliances incorporating UVC emitters include the substance of the following: WARNING — This appliance contains a UV emitter. Do not stare at the light source	EX WHITEX WHITEX WHITEX WH	N/A

Page 87 of 128 Reference No.: WTX22X09184384S

Clause	Requirement – Test	Result – Remark	Verdict
32	For appliances incorporating UV emitters the manufacturer delivers a declaration providing evidence that the plastic material exposed to the radiation is UV resistant	Whitek Miles Miles Miles	N/A
TEK S	TE TOTAL MILL MILL WITH WITH THE TOTAL THE TOT	at all the till	N/A
ZH	ANNEX ZH (INFORMATIVE) Common plug and socket-outlet types in CENELI	EC countries	P
"Elk	In general, supply cords of single-phase appliances hexceeding 16 A are fitted with a plug complying with		P
JUNE .	- for class I appliances or class II appliances with functional earth, standard sheet EU2, EU3 or EU4:	MUNITER MULTER WHILE WHEN	N/A
	- for class II appliances, standard sheet EU5, EU6 or EU7:	NET WAT THE THE	Р
- 10°	There are exemptions or differences in certain CENELEC countries	ter write ourier was an	Р
mr.	Jan Jan Jan Jan Jan Jan Jan Jan	aller intermeter with	Mer
ZI SUNCTER S	ANNEX ZI (INFORMATIVE) Information on the application of A11:2014 to EN CENELEC CLC/TC 61(SEC)2096A	60335-1:2012	P
LIFER WA	Clarification of the application of parts 2 in conjunction with the 2002 or 2012 version of EN 60335-1	at a function united a	P
arr	Mr. M. Car. Life Life 15	en mire with mail wh	, me
ZZA	ANNEX ZZA (INFORMATIVE) RELATIONSHIP BETWEEN THIS EUROPEAN STA OBJECTIVES OF DIRECTIVE 2014/35/EU [2014 O. COVERED		- Piel Walter
	This standard provides one means of conforming to safety objectives of Directive 2014/35/EU	WILL MULL MUST AND	P
y vini	When cited in the Official Journal under that Directive, compliance with the normative clauses of this standard given in Table ZZA.1 confers a presumption of conformity with the safety objectives of that Directive and associated EFTA regulations	TER WALTER WALTER WALTER WAL	P
MULL A	Compliance with this Part 1 when used together with the relevant Part 2 provides one means of conformity with the safety objectives	united united united united	nn P
in an	AND A LEAT LEAT	etter write write whi.	V 7
ZZB	ANNEX ZZB (INFORMATIVE) RELATIONSHIP BETWEEN THIS EUROPEAN STA ESSENTIAL REQUIREMENTS OF DIRECTIVE 2000 COVERED		N/A
2/1	This standard provides one means of conforming to essential requirements of EU Directive 2006/42/EC	when must make my	N/A

Reference No.: WTX22X09184384S Page 88 of 128

	EUROPEAN GROUP DIFFERENCES AND NA	TIONAL DIFFERENCES	
Clause	Requirement – Test	Result – Remark	Verdict
	all the way and an	and the state of	The Court
	When cited in the Official Journal under that Directive, compliance with the normative clauses of this standard given in Table ZZB.1 confers a presumption of conformity with the essential requirements of that Directive and associated EFTA regulations	White whitek whitek white	N/A
EK WALTE	Compliance with this Part 1 when used together with the relevant Part 2 provides one means of conformity with the essential health and safety requirements	A MUTER MULIER MULIER M	N/A
White .	on the top the text	LIER CLIER WIFE WAL	MULL
الدينة	ANNEX EN 62233:2008 EMF- ELECTROMAGNETICS FIELDS	Tet ifet siret sortel	P INTERNA
	The tested product also complies with the requireme	ents of EN 62233:2008	Р
CLE WILL	Limit100%	Measured max.: 1.16%	IL S. Bur



	opar doviduoi	TABLE: Power input deviation						
of/at:	P rated (W)	P measured (W)	ΔP (%)	Required ΔP (%)	Remark			
Will a	v no m		+ - e+	TEK TEK I	Life. Notice			
	of/at:	action to the state of	(W)	(W) (%)	(W) (%) (%)			

0.2 TABLE	: Current deviation				P
current deviation of	/at: I rated (A)	I measured (A)	ΔI (%)	Required ΔI (%)	Remark
00V/50Hz	0.6	0.305	-49.2	+20	Tested with
00V/60Hz	0.6	0311	-48.2	+20	model GTM96180-15
40V/50Hz	0.6	0.165	-72.5	+20	07-2.0
40V/60Hz	0.6	0.164	-72.7	+20	Output: 5VDC, 3A
00V/50Hz	0.6	0.338	-43.7	+20	Tested with
00V/60Hz	0.6	0.342	-43.0	+20	model GTM96180-18
40V/50Hz	0.6	0.181	-69.8	+20	30
40V/60Hz	0.6	0.182	-69.7	+20	Output: 30VDC, 0.6A
00V/50Hz	0.6	0.336	-44.0	+20	Tested with
00V/60Hz	0.6	0.341	-43.2	+20	model GTM96180-18
40V/50Hz	0.6	0.181	-69.8	+20	07-2.0-T2
40V/60Hz	0.6	0.180	-70.0	+20	Output: 5VDC, 3.6A
00V/50Hz	0.6	0.367	-38.8	+20	Tested with
00V/60Hz	0.6	0.371	-38.2	+20	model GTM96180-18
40V/50Hz	0.6	0.197	-67.2	+20	30-T2
40V/60Hz	0.6	0.196	-67.3	+20	Output: 30VDC, 0.6A

11.8	TABLE: Heating test, thermocouples						Р
Test voltage (V)			See below			- m	2,
NLTER O	Ambient (°C)		Se	e below	TEK J	ek outer	ريرو _ ر
Thermocouple locations		Max. tem	Max. temperature rise measured, ΔT (K) Max. temp				
		94V/60Hz		254.4V/50Hz		rise limit, ΔT (
y antie		Horizont al	Vertical	Horizont al	Vertical		
Plug hold	der	12.0	12.6	11.1	11.3	For cl.3	0.1

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	at alt all

	Test voltage (V)		See	below		STEEL WILL STEEL	
	Ambient (°C)		See	below	-20-	W - A	
Thermocouple locations		Max. tem	Max. temperature rise measured, ΔT (K)				
		94V/	94V/60Hz		//50Hz	rise limit, ΔT (K)	
		Horizont al	Vertical	Horizont al	Vertical	the mutit mutit of	
Plug holder	Mrs. Mrs. M.	9.1	9.3	9.6	9.0	For cl.30.1	
MOV1 body	TER STER OUT	19.5	19.8	20.3	18.9	T85-40=45	
CX1 body	We in in	30.9	31.4	29.6	29.8	T100-40=60	
L1 winding	TER STEE STEE	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	ER SINLIE WALLE	44.7	45.5	40.4	40.5	T105-40=65	
PCB near C	01 and T1	33.2	33.8	32.3	32.5	T130-40=90	
T1 winding	write with whi	46.4	47.1	42.5	43.7	85-15=70, Class 130	
T1 bobbin	et let let	36.5	37.1	34.1	33.4	For cl.30.1	
CY1 body	iver me me	28.6	29.0	27.7	27.6	T125-40=85	
U3 body	LET LET CLER	40.5	41.0	36.8	38.9	T100-40=60	

TABLE: Heating test, thermocouples



C5 body	38.5	37.4	35.0	37.0	T105-40=65
Output lead wire	28.1	28.4	25.4	27.1	T80-40=40
Plastic enclosure inside near T1,	21.5	21.3	18.4	20.8	For cl.30.1
Plastic enclosure outside near T1	15.3	15.4	15.0	14.9	74-15=59
Support	14.7	14.9	14.4	14.4	65-15=50
Ambient	24.4°C	24.6°C	24.2°C	24.3°C	The The Chi
Supplementary information: Tested wit	h model GT	M96180-18	330	et et	THE THE NITE

11.8	TABLE: Heating test, thermocouples		
-12.	Test voltage (V)	See below	2,
LIE 1	Ambient (°C)	See below	NITE N

Thermocouple locations	Max. temperature rise measured, ΔT (K)				Max. temperature	
	94V/6	0Hz	254.4V/50Hz		rise limit, ΔT (K)	
	Label up	Label down	Label up	Label down	MIER WIFE WIFE	
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	14. 24. 2.	
Supplementary information: Tested wit	h model GTI	M96180-18	307-2.0-T2	at at	TER STEE INT	

11.8	TABLE: Heating test, thermocouples	IN THE MIP
*	Test voltage (V)	* -



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 Labe down			
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	LIER WILL WILL	

TABLE: Heating test, resistance method					N/A
Test voltage (V)			: Jek "J	ER WILL MULTE	11, 2, 41
Ambient, t ₁ (°C)			141 141	* * *	
Ambient, t ₂ (°C)		<u> </u>		White white	mr. an
ure rise of winding	R ₁ (Ω)	R ₂ (Ω)	ΔΤ(Κ)	Max. Δ T (K)	Insulation class
TEX TEX STER IN	The Bull	mr. m	111		et tet
	Test voltage (V) Ambient, t ₁ (°C) Ambient, t ₂ (°C)	Test voltage (V) Ambient, t ₁ (°C) Ambient, t ₂ (°C)	Test voltage (V)	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$

13.2	TABLE: Leakage current	LITER WILLE WHILE WHILE WAL	Р
t de	Heating appliances: 1.15 x rated input (W):	The state of the	- TIE
"EX	Motor-operated and combined appliances: 1.06 x rated voltage (V)	254.4	164 20



Leakage current between	I (mA)	Max. allowed I (mA)
Tested with model GTM96180-1507-2.0	y the the site	WILLE MULLE MULL
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	24 24 24	at 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	THE WITE WALTER WALTE	Mr. Mr. 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	A ST ST	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:	re me me me	70, 2, 3
	p	

13.3	TABLE: Dielectric strength	THE MULT AND THE THE	P	
Test vol	tage applied between:	Test potential applied (V)	Breakdown / flashover (Yes/No)	
Tested w	vith model GTM96180-1830	A A A A A	LIER OLIER WILLER	
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 liter outer white	Mile Aug Mus 4	
L/N to pla	astic enclosure	3017	No No	
L/N to ou	itput connector	3017	No	
Primary a	and secondary of T1	3017	y No No	
Secondary and iron core of T1		3017	No No	
One laye	r of insulation tape	3017	No	
Supplem	entary information: Max. RMS volta	ge: 257V for T1.	21/2 21/2 21/2	

16.2	TABLE: Leakage current			Р
LIERVINE	Single phase appliances: 1.06 x rated voltage (V):	254.4	ek writek wri	10 - 11 LT
y wate	Three phase appliances 1.06 x rated voltage divided by √3 (V):	et miret miret	WALTER WALTE	MATER
Leakage	current between	I (mA)	Max. allow	ed I (mA)



Tested with model GTM96180-1507-2.0	en mer me m	The state of the s
L/N to plastic enclosure	0.03	0.25
L/N to output connector	0.10	0.25
Tested with model GTM96180-1830	of the state with and	ite with with M
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	The The The	Let the the
L/N to plastic enclosure	0.04	0.25
L/N to output connector	0.12	0.25
Tested with model GTM96180-1830-T2	CLIFE WALL MALL MALL WILL	. n
L/N to plastic enclosure	0.02	0.25
L/N to output connector	0.11	0.25
Supplementary information:	. It let get get	NIFE OUTE WIT

16.3	TABLE: Dielectric strength		PIL MILE ME
Test volta	age applied between:	Test potential applied (V)	Breakdown / flashover (Yes/No)
Tested wi	th model GTM96180-1830	EX CITE WITH WILL MILL	The the sail
L/N to pla	stic enclosure	3017	No No
L/N to out	put connector	3017	No
Primary a	nd 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 my my my my	at at att
L/N to pla	stic enclosure	3017	mer on No we 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	y No 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			
Temper	ature rise of part/at:	Max. temperature rise measured, ΔT (K)	Max. temperature rise limit, ΔT (K)	
Tested v	with model GTM96180-1507-2.0	A LIER OLIE WILL WILL W	vir me me in	
T1 windi	ng the matter which were	58.6	150	
T1 bobb	in the state of th	47.7	For cl.30.1	



Output lead wire	28.0	55
Tested with model GTM96180-1830	ret ret tret is	TER WITE WALLE WALL
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	et aller aller antie	white with me m
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	CULTER SINCE MALL MALL	me in in
T1 winding	51.1	150
T1 bobbin	41.0	For cl.30.1
Output lead wire	30.9	55
Supplementary information:	EL WILL MUT MUT	71 . 22

19.7	TABLE: Abnormal operation, locked rotor/moving parts								
wate w	Test voltage (V)	711	t stek st	EK NITE NAT	, '	V. 1			
	Ambient, t₁ (°C)		: 1/1 2/1	7	<u>. </u>	e ^{t-}			
Vr. m	Ambient, t ₂ (°C)			: -45-	College College	7/2	_2/2		
Tempera	ature of winding	R ₁ (Ω)	R ₂ (Ω)	Δ T (K)	T (°C)	Max	. T (°C)		
- "	3 to 24 d	et det de	TET STATES	Vice Aller	11- 711		°,		
Supplem	nentary information:	1/1/2		at at	TEX TEXT	J. C.	MITE		

19.13 TABLE: Abnormal operation, temperature rises					
Thermocouple locations		Max. temperature rise measured, ΔT (K)	Max. temperature rise limit, ΔT (K)		
-	at at at	TEX MITT WHITE WALL WALL	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Supplem	entary information:	the state of the	ITER SITER MITE WAL		

21.1	TABLE: Impac	t resistance		ALTER MITE MAP
Impacts	per surface	Surface tested	Impact energy (Nm)	Comments
Thr	ee blows	Enclosure	0.5J	No hazards
Suppleme	entary information:	TIER WHITE WALL	The Mr. Mr.	at at

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



24.1	TABLE: Components				Р
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Plug holder & 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 TA	BLE: 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-****	A MULTER WALLE	EN 50075:1990	Waltek test report no. WTX22D0918 4387Z
Appliance inlet CON1/CN1 (C8 type)	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 inlet CON1/CN1 (C18 type)	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	TA	BLE: Components				Р
Object / par No.	t	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
(Alternative)	, ₍₁₎	YUANMAN PRINTED CIRCUIT CO LTD	1V0	Min. 1.6 mm, thickness, min. V-0, 130°C	UL 796	UL E74757
(Alternative)	uni Liek	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)	WITE WITE	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)	and	DONGGUAN HE TONG ELECTRONICS CO LTD	CEM1, 2V0, FR4	Min. 1.6 mm, thickness, min. V-0, 130°C	UL 796	UL E243157
(Alternative)	ار الدي الديد	CHEERFUL ELECTRONIC (HK) LTD	02, 03, 03A	Min. 1.6 mm, thickness, min. V-0, 130°C	UL 796	UL E199724
(Alternative)	- in	JIANGSU DIFEIDA ELECTRONICS CO LTD	DFD-1	Min. 1.6 mm, thickness, min. V-0, 130°C	UL 796	UL E213009
(Alternative)	MILI VERK	DONGGUAN DAYSUN ELECTRONIC CO LTD	DS2	Min. 1.6 mm, thickness, min. V-0, 130°C	UL 796	UL E251754
(Alternative)	7 74	DAFENG AREX ELECTRONICS TECHNOLOGY CO LTD	02V0, 03V0, 04V0	Min. 1.6 mm, thickness, min. V-0, 130°C	UL 796	UL E186016
(Alternative)	wn'	BRITE PLUS ELECTRONICS (SUZHOU) CO LTD	DKV0-3A, DGV0-3A	Min. 1.6 mm, thickness, min. V-0, 130°C	UL 796	UL E177671



Page 99 of 128



24.1	ΓABLE: 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., Ltd.	MST series	T1.6A, 250V	IEC 60127-1 IEC 60127-3	VDE 40017118
	and and the	The Miles And	at at let	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	Tie Willer	Lite	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.	TER STER IN	TEX WHITEK WHITE	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. Mur.	TEX STEX	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
	EK WAITEK WAITEK	LIEK WALTER W	Sy mur 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
	at the The	WALTER WALTER	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
	The MULL MULL	et Itet	TEK INLIEK MILIT	UL 248-1 UL 248-14	UL E300003



24.1	TABLE: Components	wife all .	are me in		Р
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
(Alternative)	Shenzhen Lanson Electronics Co.	SMT	T1.6A, 250V	IEC 60127-1 IEC 60127-3	VDE 40012592
	Ltd.	201 - 201	LIET SLIET	UL 248-1 UL 248-14	UL E221465
(Alternative)	Conquer Electronics Co.,	MET series	T1.6A, 250V	IEC 60127-1 IEC 60127-3	VDE 40017157
	TEX Ltd.	NITER WALTER V	ing the the	UL 248-1 UL 248-14	UL E82636
(Alternative)	Sunny East Enterprise Co.	CFD-Serie(s)	T1.6A, 250V	IEC 60127-1 IEC 60127-3	VDE 40030246
	Ltd.	CLIEK WALTE	MUNITER MUTIES	UL 248-1 UL 248-14	UL E133774
(Alternative)	Suzhou Walter Electronic	2000	T1.6A, 250V	IEC 60127-1 IEC 60127-3	VDE 40018790
	Co. Ltd.	ing in	SEE WALLEY WALL	UL 248-1 UL 248-14	UL E56092
(Alternative)	Hollyland Company Limited	5ET	T1.6A, 250V;	IEC 60127-1 IEC 60127-3	VDE 40015669
		2017	THE SET	UL 248-1 UL 248-14	UL E156471
X capacitor (CX1)	Cheng Tung Industrial Co.,	СТХ	Max. 0.47μF, Min.300V,	IEC/EN 60384-14 UL 60384-14	ENEC-02671 UL E193049
(optional)	Ltd.	TEN MITER	105°C, X1 or X2	UL 1414	OL E193049
(Alternative)	Tenta Electric Industrial Co. Ltd.	1974 2000	Max. 0.47µF, Min.250V,	IEC/EN 60384-14	VDE 119119
	madstrar Go. Etc.	the Mrs. M	100°C, X1 or X2	UL 60384-14 UL 1414	UL E222911
(Alternative)	JOEY ELECTRONICS	MPX	Max. 0.47μF, Min.300V,	IEC/EN 60384-14	VDE 40032481
	(DONG GUAN) CO LTD	LEA STIER	110°C, X1 or X2	UL 60384-14 UL 1414	UL E216807
(Alternative)	Ultra Tech Xiphi Enterprise Co.	HQX	Max. 0.47μF, Min.250V,	IEC/EN 60384-14	VDE 40015608
TEX	Ltd.	LIER WILLE	110°C, X1 or X2	UL 60384-14 UL 1414	UL E183780
(Alternative)	Yuon Yu Electronics Co.	MPX	Max. 0.47μF, Min.250V,	IEC/EN 60384-14	VDE 40032392
	Ltd.	1. A. A.	100°C, X2	UL 60384-14 UL 1414	UL E200119
(Alternative)	Sinhua Electronics	MPX	Max. 0.47μF, Min.300V,	IEC/EN 60384-14	VDE 40014686
	(Huzhou) Co., Ltd.	MILITER WALTER	110°C, X1 or X2	UL 60384-14 UL 1414	UL E237560



24.1 TA	ABLE: Components					
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 NO	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	1W	UL 1676 UL 6500	UL E321764	
(Alternative)	YageoComponen ts(Suzhou) Co. Ltd	HHV	1W	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	ΓABLE: Components				Р
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹
(Alternative)	Success Electronics Co., Ltd.	SE WALTER WALTER	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	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 WILL WA	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



Page 103 of 128



24.1	TA	BLE: Components				Р
Object / pai 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)) SIPLE	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)	TEK TEK	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)	OUTE Prize	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)) W	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)). (^{EE}	JOYIN CO LTD	JVT10N471K, JVT14N471K	Max. Continuous voltage: min 300Vac(rms), 125°C	IEC 61051-1 IEC 61051-2	VDE 005937 UL E325508
(Alternative)) مین اماراژ	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



Page 104 of 128



24.1 T	ABLE: Components				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 coupler 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



Page 105 of 128



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



24.1	TABLE: Components	ABLE: Components				
Object / part 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				Р
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 NEW MATERIAL CO 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				
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	CT	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 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 T	ABLE: 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 qui connector	ck 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
mer mer m	8.1V-14.9V	TF043
at the se	15V-18.9V	TF044
White while while	19V-30V	TF045

28.1	TABLE: Threade	d part torque test	at at at.	N/A
Threaded	part identification	Diameter of thread (mm)	Column number (I, II, or III)	Applied torque (Nm)
111. 11		THE THE MITTER	WHILE WHILE WALL	m m - m
Supplemen	ntary information:	Mar. In In	a de de	TER TER STEE

29.1	TABLE: Clearances		P
. ".	Overvoltage category.:	Category II	2, 7
NITE .	and me and	Type of insulation:	The Wille



Rated impulse voltage (V):	Min. cl (mm)	Basic (mm)	Supplementary (mm)	Reinforced (mm)	Functional (mm)	Verdict / Remark
330	0,2* / 0,5 / 0,8**	المارية المار	3, 70, "- 70,		et -et	LET -JET
500	0,2* / 0,5 / 0,8**	J+ Z	et ite mit	unit uni	1100 1	10
800	0,2* / 0,5 / 0,8**	4/1/	70,	JE JE	- 2° 3	et tet
1 500	0,5 / 0,8** / 1,0***	k - 15k	TEF INCLE	Mich -Mich	1115- 111	20, - 2
2 500	1,5 / <u>2,0</u> ***	>2.0	>2.0	d - dt	>2.0	mil P mi
4 000	3,0 / <u>3,5</u> ***	Charle.	LIER WHILE WE	>3.5	1 1.0	Р
6 000	5,5 / 6,0***	24. " 2		et tet.	OFF TUFF.	mite mit
8 000	8,0 / 8,5***	CIENT (C)	the min me	2/15 2/1	7, 7	* - J+
10 000	11,0 / 11,5***	0		50 th	of the state of	The latest the second

^{*)} 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 reinfor	ced in	sulati	on	Р
Working (V	_	Jak	* 		eepage dis (mm) ollution de		e wat	MUL	WILE	الله المالية	EX M	
EK MITEK		1		2	160		3		70.75	Type o		H WALTE
`	et.	EX	Ma	terial g	roup	Ma	aterial g	roup		,	~ .	
WITE	mer in	7) I (II	IIIa/IIIb	ek l	\H	IIIa/IIIb*	B**	S**	R**	Verdict
≤5	0 +	0,18	0,6	0,85	1,2	1,5	1,7	1,9			Æ	N/A
≤5	0 -	0,18	0,6	0,85	1,2	1,5	1,7	1,9	11-11	" un	·	N/A
≤5	0	0,36	1,2	1,7	2,4	3,0	3,4	3,8				N/A
12	5	0,28	0,75	1,05	1,5	1,9	2,1	2,4	N. C.	100	7/1	N/A
12	5	0,28	0,75	1,05	1,5	1,9	2,1	2,4	+	LEX.	-6	N/A
12	5	0,56	1,5	2,1	3,0	3,8	4,2	4,8	_2		2/	N/A
25	0	0,56	1,25	1,8	<u>2,5</u>	3,2	3,6	4,0	>2.6	et .	CE TO THE REAL PROPERTY.	P
25	0	0,56	1,25	1,8	2,5	3,2	3,6	4,0	-m	>2.6	_	Р
25	0	1,12	2,5	3,6	<u>5,0</u>	6,4	7,2	8,0	-CE	· _ز	>5.2	P
40	0	1,0	2,0	2,8	4,0	5,0	5,6	6,3	20,			N/A
40	0	1,0	2,0	2,8	4,0	5,0	5,6	6,3	(1 th	METER	(m)	N/A
40	0	2,0	4,0	5,6	8,0	10,0	11,2	12,6	_	_¥-	et.	N/A
50	0 2	1,3	2,5	3,6	5,0	6,3	7,1	8,0	w ur	ν <u> </u>	W.	N/A
50	0 0	1,3	2,5	3,6	5,0	6,3	7,1	8,0		÷	, et	N/A



29.2 Working	TABLE:	Creep	age dis		epage di	• •	ntary a	nd reinfor	ced in	sulati	on	P
(V	/):	, t		Po	(mm) Ollution d	egree			'n,			
ner n	er ler	1	y sir	2	EK WALTEN	WALTE	3	MULLE		Type o		
in wi	m	n,	Ма	terial g	roup	Ма	Material group		Write Murie Mu			1/1/2
Et JEH	- LIEK	LITER	ME	arii 🗀	Illa/Illb	en. I	II	IIIa/IIIb*	B**	S**	R**	Verdic
50	00	2,6	5,0	7,2	10,0	12,6	14,2	16,0	·		216	N/A
>630 ar	nd ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	<u>+</u>	£	J. S.	N/A
>630 ar	nd ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	-an	- 0		N/A
>630 ar	nd ≤800	3,6	6,4	9,0	12,6	16,0	18,0	20,0	-(6	٠ر		N/A
>800 an	nd ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5	m.	2		N/A
>800 an	nd ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5	J. C.	OLITE	an C	N/A
>800 an	nd ≤1000	4,8	8,0	11,2	16,0	20,0	22,0	25,0	_	- T		N/A
>1000 ar	nd ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0	, E [#]		U.S.	N/A
>1000 ar	nd ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0		A.		N/A
>1000 ar	nd ≤1250	6,4	10,0	14,2	20,0	25,0	28,0	32,0	. NIC	-11		N/A
>1250 ar	nd ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	73		×	N/A
>1250 ar	nd ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	No.	2/2	711	N/A
>1250 ar	nd ≤1600	8,4	12,6	18,0	25,0	32,0	36,0	40,0	24	_4		N/A
>1600 ar	nd ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0			4	N/A
>1600 ar	nd ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0	#	JEK	J267	N/A
>1600 ar	nd ≤2000	11,2	16,0	22,0	32,0	40,0	44,0	50,0	- 20,			N/A
>2000 ar	nd ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0	, LIT'S		<u> </u>	N/A
>2000 ar	nd ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0	4,		<u> </u>	N/A
>2000 ar	nd ≤2500	15,0	20,0	28,0	40,0	50,0	56,0	64,0	NICE TO	1000	an	N/A
>2500 ar	nd ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0	A.	-4	6	N/A
>2500 ar	nd ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0			1/2	N/A
>2500 aı	nd ≤3200	20,0	25,0	36,0	50,0	64,0	72,0	80,0	ι — ,	¢-	15 EV	N/A
>3200 ar	nd ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	ans	_0	_	N/A
>3200 ar	nd ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	- (6)	- 3	#	N/A
>3200 ar	nd ≤4000	25,0	32,0	44,0	64,0	80,0	90,0	100,0	21/2	2/2	- 31	N/A
>4000 ar	nd ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	JEE	ET.	77-77	N/A
-74	nd ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	_			N/A
	nd ≤5000	32,0	40,0	56,0	80,0	100,0	112,0	126,0	6		Wille.	N/A
	nd ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0	-0,			N/A



29.2	TABLE:	Creep	age dis	tances,	basic, su	ppleme	ntary a	nd reinfor	ced in	sulati	on	Р
Working voltage (V):		, , , , , , , , , , , , , , , , , , ,	iek ov	Cre Po	. Ju	ite (JEK TEK	WALL				
Up To	et set	1	المالة	2	ek Matifek	White	3	white		Type o		
in men	1/2	10,	Ma	terial g	roup	Ma	terial g	roup	N.L.T.	24 File	'n	1/1/2
et let	J. C. E.	CLIER	" INTE	ar II	Illa/IIIb	20, I	, II	IIIa/IIIb*	B**	S**	R**	Verdict
>5000 an	nd ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0	`— <i>'</i>	~	2/2	N/A
>5000 an	nd ≤6300	40,0	50,0	72,0	100,0	126,0	142,0	160,0	<u>+— </u>	COLL.	J. E. K.	N/A
>6300 an	nd ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	240	_2	_	N/A
>6300 an	nd ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	-56	ا ا	<u></u>	N/A
>6300 an	nd ≤8000	50,0	64,0	90,0	126,0	160,0	180,0	200,0	2/1	20		N/A
>8000 and	d ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	TIER	.11 -11 6	- ar ti	N/A
>8000 and	d ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0		٠,		N/A
>8000 and	d ≤10000	64,0	80,0	112,0	160,0	200,0	220,0	250,0	·	<u> </u>	No.	N/A
>10000 an	nd ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0		<u>_</u>	2 to 1	N/A
>10000 an	nd ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	240	· w	_	N/A
>10000 an	nd ≤12500	80,0	100,0	142,0	200,0	250,0	280,0	320,0	7_3	- 2	*	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

9.2 T	ABLE:	Creep	age dis	tances	, function	al insula	ation		muri mr. M.
Working voltage (V):		Juni ^o Junio	ier uni		eepage di (mm) ollution d	h 26	, WALTE	A MATER	Writer Whiter White
TER WITE	N. C.	JIV.	m	2	7	1	3	Test .	ITER STIER SINITERS
		LEX.	Ma	terial g	roup	Ma	aterial g	roup	7
White M	10 11		24 I .	II	IIIa/IIIb	26H	√(ll	Illa/IIIb*	Verdict / Remark
≤10	<i>y</i> .	0,08	0,4	0,4	0,4	1,0	1,0	1,0	N/A
50	1/2	0,16	0,56	0,8	1,1	1,4	1,6	1,8	N/A
125	(f ^E	0,25	0,71	1,0	1,4	1,8	2,0	2,2	N/A
250	411.	0,42	1,0	1,4	2,0	2,5	2,8	3,2	WELL MUE B MUE
400	CLER	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 ≤1	1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5	N/A



3,2	5,0	7,1	10,0	12,5	14,0	16,0	N/A
4,2	6,3	9,0	12,5	16,0	18,0	20,0	N/A
5,6	8,0	11,0	16,0	20,0	22,0	25,0	N/A
7,5	10,0	14,0	20,0	25,0	28,0	32,0	N/A
10,0	12,5	18,0	25,0	32,0	36,0	40,0	N/A
12,5	16,0	22,0	32,0	40,0	45,0	50,0	N/A
16,0	20,0	28,0	40,0	50,0	56,0	63,0	N/A
20,0	25,0	36,0	50,0	63,0	71,0	80,0	N/A
25,0	32,0	45,0	63,0	80,0	90,0	100,0	N/A
32,0	40,0	56,0	80,0	100,0	110,0	125,0	N/A
40,0	50,0	71,0	100,0	125,0	140,0	160,0	N/A
	4,2 5,6 7,5 10,0 12,5 16,0 20,0 25,0 32,0	4,2 6,3 5,6 8,0 7,5 10,0 10,0 12,5 12,5 16,0 16,0 20,0 20,0 25,0 25,0 32,0 32,0 40,0	4,2 6,3 9,0 5,6 8,0 11,0 7,5 10,0 14,0 10,0 12,5 18,0 12,5 16,0 22,0 16,0 20,0 28,0 20,0 25,0 36,0 25,0 32,0 45,0 32,0 40,0 56,0	4,2 6,3 9,0 12,5 5,6 8,0 11,0 16,0 7,5 10,0 14,0 20,0 10,0 12,5 18,0 25,0 12,5 16,0 22,0 32,0 16,0 20,0 28,0 40,0 20,0 25,0 36,0 50,0 25,0 32,0 45,0 63,0 32,0 40,0 56,0 80,0	4,2 6,3 9,0 12,5 16,0 5,6 8,0 11,0 16,0 20,0 7,5 10,0 14,0 20,0 25,0 10,0 12,5 18,0 25,0 32,0 12,5 16,0 22,0 32,0 40,0 16,0 20,0 28,0 40,0 50,0 20,0 25,0 36,0 50,0 63,0 25,0 32,0 45,0 63,0 80,0 32,0 40,0 56,0 80,0 100,0	4,2 6,3 9,0 12,5 16,0 18,0 5,6 8,0 11,0 16,0 20,0 22,0 7,5 10,0 14,0 20,0 25,0 28,0 10,0 12,5 18,0 25,0 32,0 36,0 12,5 16,0 22,0 32,0 40,0 45,0 16,0 20,0 28,0 40,0 50,0 56,0 20,0 25,0 36,0 50,0 63,0 71,0 25,0 32,0 45,0 63,0 80,0 90,0 32,0 40,0 56,0 80,0 100,0 110,0	4,2 6,3 9,0 12,5 16,0 18,0 20,0 5,6 8,0 11,0 16,0 20,0 22,0 25,0 7,5 10,0 14,0 20,0 25,0 28,0 32,0 10,0 12,5 18,0 25,0 32,0 36,0 40,0 12,5 16,0 22,0 32,0 40,0 45,0 50,0 16,0 20,0 28,0 40,0 50,0 56,0 63,0 20,0 25,0 36,0 50,0 63,0 71,0 80,0 25,0 32,0 45,0 63,0 80,0 90,0 100,0 32,0 40,0 56,0 80,0 100,0 110,0 125,0

Supplementary information:

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

30.1	TABLE: Ball Pressure Test of Thermoplastics								
Allowed	impression diame	eter (mm):	2.0	1 1 1	t				
Object/ F	Part No./ Material	Manufacturer/ trademark	Test temperature (°C)	Impression diamet	er (mm)				
Plug hold	der & Enclosure	See appended table 24.1	125	mile un 1.1 m	1 m				
T1 bobbi	n _{nu} n	See appended table 24.1	125	0.6	MALIE				

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

30.2 T	ABLE: Resistan	ce to hea	t and fire	- Glow w	ire tests			, P
Object/	Manufacturer		G	low wire	test (GWT)); (°C)	The Military	me m
Part No./ Material	Set Liet of	FEOUN	6	50	7	7 50	050	Verdict
	trademark	550	te	ti	te	ti	850	in m
Plug holder & Enclosure	See appended table 24.1	P	WI TEN	WITEK W	0s	0s	uniti P	TEK PITEK
Appliance inlet	See appended table 24.1	NITEK V	RELIEF OUR	LIEK WAL	0s	0s	LIFE PULL	un P u
T1 bobbin	See appended table 24.1	iek whi	EK WALT	y white	0s	0s	P	WALLER WILLER



Output connector	See appended table 24.1	IEK <u>-</u> VIPLIK	ik <u>m</u> rite zik	TEX.	0s	0s	Р	P White
Object/ Part No./ Material	Manufacturer / trademark	Glow-wire flammability index (GWFI), °C				GW ignition temp. (GWIT), °C		Verdict
		550	650	750	850	675	775	
in the	m. Tu			£ - K		wri er or	The Contract	11/2 - 11/
The test spec	cimen passed the	glow wire	test (GV	T) with no	gnition [(t	e – 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 pl	aced und	erneath t	he test sp	ecimen (Ye	s/No)		∠ 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) (s)	Verdict			
E WILL AND	2 - 2 - 7			" MITER WIT	Sale City			

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

Page 115 of 128

W

Photo Documentation

Model: GTM96180-1807-2.0-T2



Photo 1



Photo 2

W



Photo 3



Photo 4

W



Photo 5

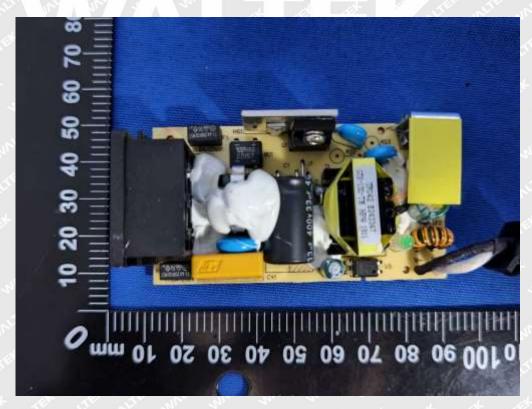


Photo 6

Page 118 of 128

W



Model: GTM96180-1830-T2

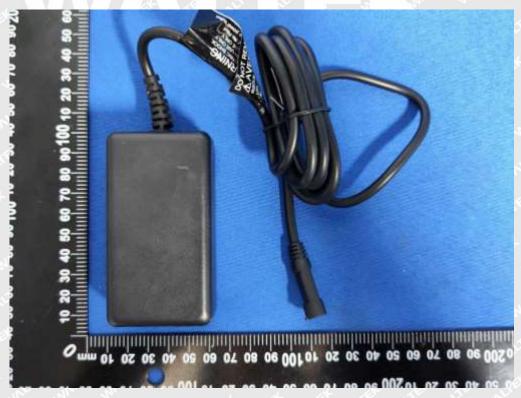


Photo 8

Page 119 of 128





Photo 9



Photo 10





Photo 11

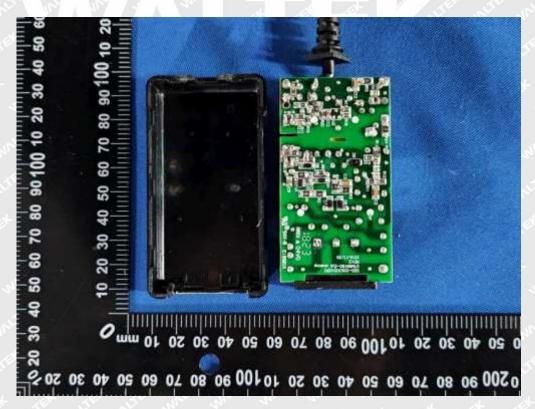


Photo 12

Page 121 of 128

W

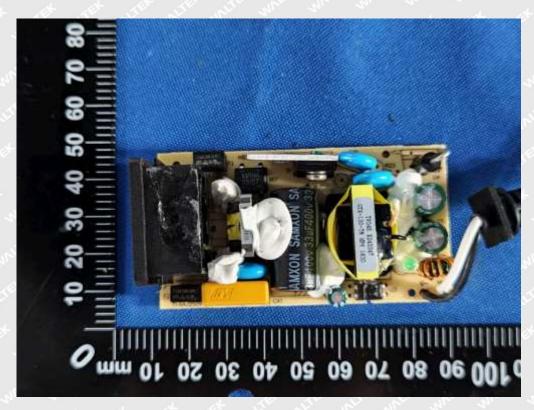


Photo 13

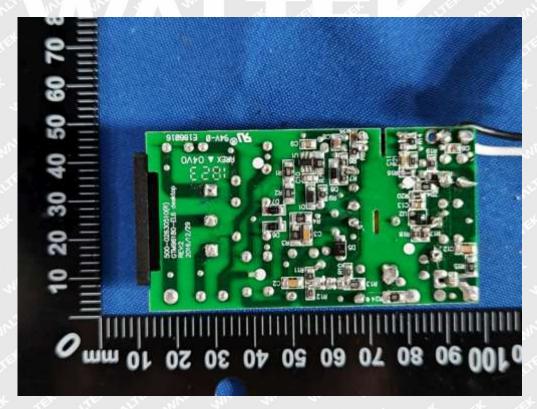


Photo 14

Page 122 of 128

Photo Documentation

Model: GTM96180-1507-2.0





Photo 15



Photo 16

Page 123 of 128





Photo 17



Photo 18

Page 124 of 128





Photo 19

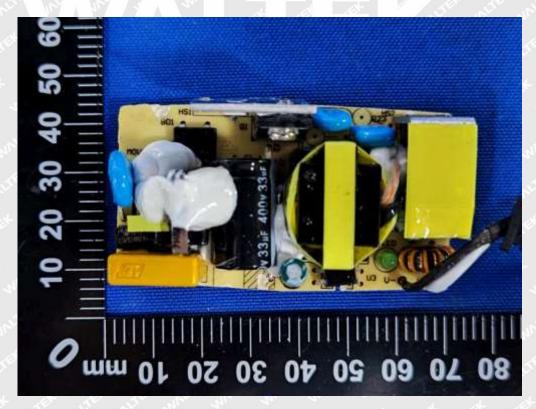


Photo 20

Page 125 of 128



Photo Documentation

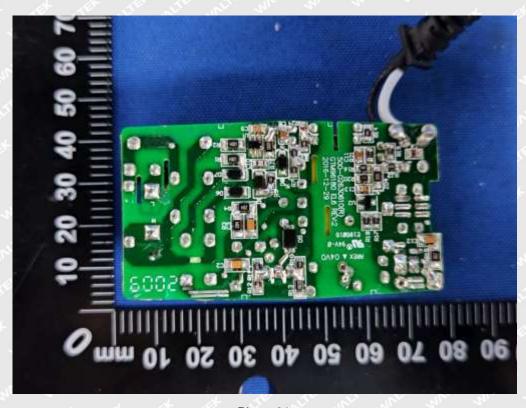


Photo 21

Model: GTM96180-1830



Photo 22





Photo 23



Photo 24

Page 127 of 128





Photo 25

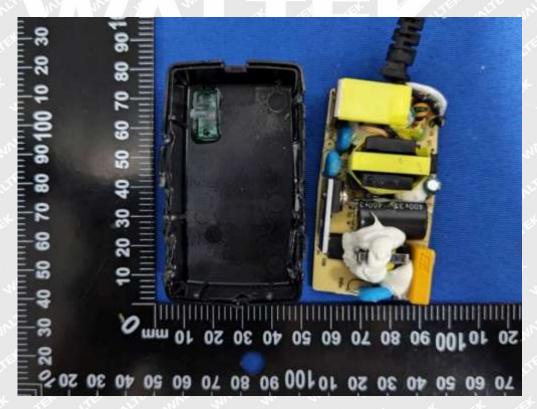


Photo 26

Page 128 of 128

W

Photo Documentation

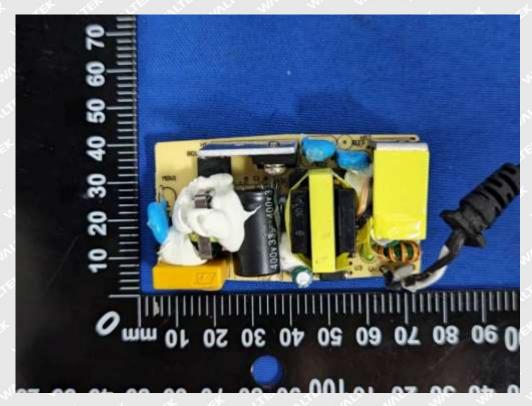


Photo 27

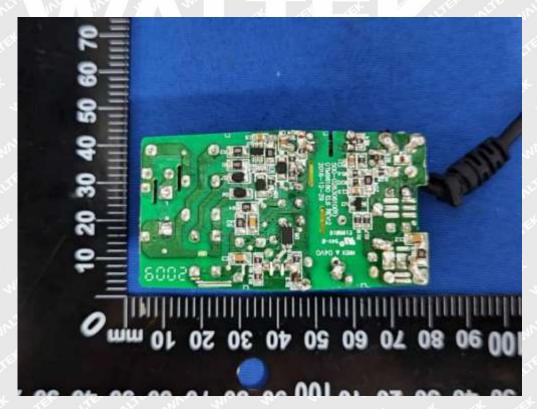


Photo 28

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