


# Technical Construction File(TCF)

File No.: XMT020200106S/LVD, XMT020200107S/EMC



<b>Applicant:</b>	Linhai Zhongqi Opto-Electrical Technology Co., Ltd.
<b>Address:</b>	West Road Village, Dongcheng Town, Taizhou, Zhejiang, CN
<b>Product Name:</b>	Juicer
<b>Model No.:</b>	SK-CZ-627,SK-CZ-626,JF-601D,603B,WK-725,JE-62 3D,SK-726,JF-651E,SK-CZ-631,JE-32,JE-25,JE-26,S K-160,SK-4004,SK-4003,SK-4000,IGJ01,SK-630,SK- 622
<b>Tested Date:</b>	2022-03-11
<b>Issued Date:</b>	2022-03-18
<b>Reviewed By:</b>	Peter Chen 
<b>Directive(s) :</b>	Low Voltage Directive 2014/35/EU Electromagnetic Compatibility Directive 2014/30/EU
<b>Standard(s):</b>	EN 60335-1:2012+A15:2021, EN 60335-2-14:2006+A12:2016, EN 55014-1:2021, EN 55014-2:2021, EN 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A2:2021

**Presented by**

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Linhai Zhongqi Opto-Electrical Technology Co., Ltd.

# CE Technical Documents

**Product Name: Juicer**

**Applied Directive : Low Voltage Directive 2014/35/EU**

**Document No.: XMT0202200106S/LVD**

**Date: 2022.03.18**

**Revision: V0**

<b>Applicant</b>	Linhai Zhongqi Opto-Electrical Technology Co., Ltd.	
<b>Address</b>	West Road Village, Dongcheng Town, Taizhou, Zhejiang, CN	
<b>Manufacturer</b>	Linhai Zhongqi Opto-Electrical Technology Co., Ltd.	
<b>Address</b>	West Road Village, Dongcheng Town, Taizhou, Zhejiang, CN	
<b>Test Item Description</b>		
Product Name :	Juicer	
Standard :	EN 60335-1:2012+A15:2021, EN 60335-2-14:2006+A12:2016	
Model/Type Reference :	SK-CZ-627,SK-CZ-626,JF-601D,603B,WK-725,JE-623D, SK-726,JF-651E,SK-CZ-631,JE-32,JE-25,JE-26,SK-160, SK-4004,SK-4003,SK-4000,IGJ01,SK-630,SK-622	
Ratings :	25W: SK-CZ-627 30W: SK-CZ-626 40W: JF-601D, 603B 45W: WK-725, JE-623D, SK-726 85W: JF-651E 120W: SK-CZ-631 300W: JE-32, JE-25 500W: JE-26, SK-160 800W: SK-4004, SK-4003, SK-4000, IGJ01 1200W: SK-630, SK-622 220-240V~ 50-60Hz	
<b>Test Case Verdicts</b>		
Test case does not apply to the test object :	N(.A.)	
Test item does meet the requirement :	P(ass)	
Test item does not meet the requirement :	F(ail)	
<b>General Remarks</b>		
<ul style="list-style-type: none"> <li>◆ This report shall not be reproduced except in full without the written approval of the testing laboratory.</li> <li>◆ The test results presented in this report relate only to the item tested.</li> <li>◆ Clause numbers between brackets refer to clauses in EN 60335-1:2012+A15:2021, EN 60335-2-14:2006+A12:2016,.</li> <li>◆ “(see remark #)”refers to a remark appended to the report.</li> <li>◆ “(see Annex #)”refers to an annex appended to the report.</li> <li>◆ Throughout this report a point is used as the decimal separator.</li> </ul>		

**JUICER**

Model: SK-630

Rated Voltage: 220-240V~

Rated Frequency: 50-60Hz

Rated Power Input: 1200W



**EN 60335-1:2012+A15:2021**  
**Household and similar electrical appliances. Safety. General requirements**

6	Classification		-
6.1	Appliances shall be class I, II or III with respect to protection against electrical shock.	class II	P
6.2	Appliances shall have the appropriate degree of protection against harmful ingress of water.		P
7	Marking and instructions		-
7.1	Appliances shall be marked with the:		-
	– rated voltage or rated voltage range in volts;	220-240V~	P
	– symbol for nature of supply, unless the rated frequency is marked;		P
	– rated power input in watts or rated current in amperes;		P
	Nature of supply..... :	~	P
	Rated frequency (Hz) ..... :	50 - 60Hz	P
	Rated power input (W)..... :	1200W	P
	Rated current (A) ..... :		N
	–name, trade mark or identification mark of the manufacturer or responsible vendor;	Yiwu Mingge Electric Appliance Co., Ltd.	P
	– model or type reference;	SK-630	P
	– symbol 5172 of IEC 60417, for class II appliances only;		P
	– IP number according to degree of protection against ingress of water, other than IPX0.		P
	The enclosure of electrically-operated water valves incorporated in external hose-sets for connection of an appliance to the water mains shall be marked with symbol IEC 60417-5036 (DB:2002-10) if their working voltage exceeds extra-low voltage.	Not Connect To Water Mains	N/A
	For humidifiers connected to the water supply:permissible maximum pressure (in pascals) of the water supply system.	Not Connect To Water Mains	N/A
	Humidifiers generating water or steam with a temperature exceeding 60 °C shall be marked with the following:	Not Humidifiers	N/A
	WARNING: Danger of hot water. Drain water before servicing.		N/A
7.2	Stationary appliances for multiple supply shall be marked with the substance of the following:	Not Applicable	N/A
	Warning: Before obtaining access to terminals, all supply circuits must be disconnected.		N/A
	This warning shall be placed in the vicinity of the terminal cover.		N/A
7.3	Appliances having a range of rated values and which can be operated without adjustment throughout the range shall be marked with the lower and upper limits of the range separated by a hyphen.	Pass Muster	P
	Appliances having different rated values and which have to be adjusted for use at a particular value by the user or		P
	installer shall be marked with the different values separated by an oblique stroke.		P
7.4	If the appliance can be adjusted for different rated voltages, the voltage to which the appliance is adjusted	Can Adjust	P

	shall be clearly discernible.		
7.5	For appliances marked with more than one rated voltage or with one or more rated voltage ranges, the rated power input or rated current for each of these voltages or ranges shall be marked.		P
	The upper and lower limits of the rated power input or rated current shall be marked on the appliance so that the relation between input and voltage is clear.		N/A
7.6	When symbols are used, they shall be as follows		-
	The symbol for nature of supply shall be placed next to the marking for rated voltage.	Placed	P
	The symbol for class II appliances shall be placed so that it will be obvious that it is a part of the technical information and is unlikely to be confused with any other marking.		N/A
	Units of physical quantities and their symbols shall be those of the international standardized system.		N/A
7.7	Appliances to be connected to more than two s and appliances for multiple supply shall have a connection diagram fixed to them, unless the correct mode of connection is obvious.	One Supply Conductor	N/A
7.8	Except for type Z attachment, terminals used for connection to the supply mains shall be indicated as follows:		-
	– terminals intended exclusively for the neutral conductor shall be indicated by the letter N;		N/A
	– protective earthing terminals shall be indicated by symbol 5019 of IEC 60417.		N/A
	These indications shall not be placed on screws, removable washers or other parts which can be removed when conductors are being connected.		N/A
7.9	Unless it is obviously unnecessary, switches which may give rise to a hazard when operated shall be marked or placed so as to indicate clearly which part of the appliance they control.	Control Box Provided	N/A
7.10	The different positions of switches on stationary appliances and the different positions of controls on all appliances shall be indicated by figures, letters or other visual means.		N/A
	If figures are used for indicating the different positions, the off position shall be indicated by the figure 0 and the position for a higher value, such as output, input, speed or cooling effect, shall be indicated by a higher figure.		N/A
	The figure 0 shall not be used for any other indication unless it is positioned and associated with other numbers so that it does not give rise to confusion with the indication of the off position.	Not Applicable	N/A
7.11	Controls intended to be adjusted during installation or in normal use shall be provided with an indication for the direction of adjustment.	No Controls	N/A
7.12	Instructions for use shall be provided with the appliance so that the appliance can be used safely.	Provided	P
	If it is necessary to take precautions during user maintenance, appropriate details shall be given.	Appropriate Details Given	P
	The instructions shall state the substance of the following:		-
	This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge,		P

	Children should be supervised to ensure that they do not play with the appliance.	Pass Muster	P
	For appliances accessible to the general public the classification according to 6.101 shall be included.	Included	P
7.12.1	If it is necessary to take precautions during installation of the appliance, appropriate details shall be given.	Appropriate Details Given	P
	In particular, the following information shall be supplied:		P
	– that the appliance shall be installed in accordance with national wiring regulations;	Supplied	P
	– the dimensions of the space necessary for correct installation of the appliance including the minimum permissible distances to adjacent structures;	Supplied	P
	– for appliances with electric resistance heaters and for those appliances tested in excess of zero clearance, the minimum clearance from the appliance to combustible surfaces.	Supplied	P
	– a diagram of the appliance with a clear indication of wiring to external control devices;	Supplied	P
	– the range of external static pressure at volumetric air flow at which the appliance was tested (add-on heat pumps, and appliances with electric resistance heaters, only);	Supplied	P
	– details of type and rating of fuses.	Supplied	P
7.12.2	If a stationary appliance is not fitted with a supply cord and a plug, or with other means for disconnection from the supply mains having a contact separation in all poles that provide full disconnection under overvoltage category III conditions		-
			P
7.12.3	If the insulation of the fixed wiring supplying an appliance for permanent connection to the supply mains can come into contact with parts having temperature rise exceeding 50 K during the test of clause 11.	Accord with Clause 11	P
7.12.4	The instructions for built-in appliances shall include information with regard to the following:		-
	– dimensions of the space to be provided for the appliance;	Pass Muster	P
	– dimensions and position of the means for supporting and fixing the appliance within this space;		P
	– minimum distances between the various parts of the appliance and the surrounding structure;	Pass Muster	P
	– minimum dimensions of ventilating openings and their correct arrangement;		P
	– connection of the appliance to the supply mains and the interconnection of any separate components;		P
	– necessity to allow disconnection of the appliance from the supply after installation, unless the appliance incorporates a switch complying with 24.3. T		P
7.12.5	For appliances with type X attachment having a specially prepared cord, the instructions shall contain the substance of the following.	Not Applicable	N/A
	If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer or its service agent.		N/A
	For appliances with type Y attachment, the instructions shall contain the substance of the following.		N/A
	If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.		N/A

	For appliances with type Z attachment, the instructions shall contain the substance of the following.		N/A
	The supply cord cannot be replaced. If the cord is damaged the appliance should be scrapped.		N/A
7.12.6	The instructions for heating appliances incorporating a non-self-resetting thermal cut-out that is reset by disconnection of the supply mains shall contain the substance of the following:	Heating Appliances	P
	CAUTION: In order to avoid a hazard due to inadvertent resetting of the thermal cutout, this appliance must not be supplied through an external switching device, such as a timer, or connected to a circuit that is regularly switched on and off by the utility.		P
7.12.7	The instructions for fixed appliances shall state how the appliance is to be fixed to its support.		N/A
7.12.8	The instructions for appliances connected to the water mains shall state		-
	– the maximum inlet water pressure, in pascals;		N/A
	– the minimum inlet water pressure, in pascals, if this is necessary for the correct operation of the appliance.		N/A
	The instructions for appliances connected to the water mains by detachable hose-sets shall state that the new hose-sets supplied with the appliance are to be used and that old hose-sets should not be reused.	Not Applicable	N/A
7.13	Instructions and other text required by this standard shall be written in an official language of the country in which the appliance is to be sold.	Pass Muster	P
7.14	The markings required by the standard shall be clearly legible and durable.		N/A
7.15	The markings specified in 7.1 to 7.5 shall be on a main part of the appliance.	Not Applicable	N/A
	Markings on the appliance shall be clearly discernible from the outside of the appliance but if necessary after removal of a cover. For portable appliances it shall be possible to remove or open this cover without the aid of a tool.		N/A
	For stationary appliances at least the name or trade mark or identification mark of the manufacturer or responsible vendor and the model or type reference shall be visible when the appliance is installed as in normal use. These markings may be beneath a detachable cover.	Not Applicable	N/A
	Indications for switches and controls shall be placed on or near these components. They shall not be placed on parts which can be positioned or repositioned in such a way that the marking is misleading.		N/A
	A marking may be located on a panel that can be removed for installation or service, providing that the panel shall be in place for the intended operation of the appliance.		N/A
7.16	If compliance with this standard depends upon the operation of a replaceable thermal link or fuse link, the reference number or other means for identifying the link shall be marked at such a place that it is clearly visible when the appliance has been dismantled to the extent necessary for replacing the link. This requirement does not apply to links which can only be replaced together with a part of the appliance. This requirement is also applicable to overload protective devices.	Not Replaceable	N/A
8	Protection against access to live parts		-



8.1	Appliances shall be constructed and enclosed so that there is adequate protection against accidental contact with live parts.		P
8.1.1	The requirement of 8.1 applies for all positions of the appliance when it is operated as in normal use, and after the removal of detachable parts.		P
8.1.2	Test probe 13 of IEC 61032 is applied without appreciable force through openings in class 0 appliances, class II appliances and class II constructions, except for those giving access to lamp caps and live parts in socket-outlets.		P
8.1.3	Instead of test probe B and test probe 13, for appliances other than those of class II, test probe 41 of IEC 61032 is applied without appreciable force to live parts of visibly glowing heating elements, all poles of which can be disconnected by a single switching action.	Accord with IEC 61032	P
8.1.4	An accessible part is not considered to be live if		-
	– the part is supplied at safety extra-low voltage, provided that for a.c., the peak value of the voltage does not exceed 42,4 V or d.c., the voltage does not exceed 42,4 V,		N/A
	– the part is separated from live parts by protective impedance.		N/A
	If protective impedance is used, the current between the part and the supply source shall not exceed 2 mA for d.c., its peak value shall not exceed 0,7 mA for a.c. and	Not Applicable	N/A
	– for voltages having a peak value over 42,4 V up to and including 450 V, the capacitance shall not exceed 0,1 $\mu$ F,		N/A
	– for voltages having a peak value over 450 V up to and including 15 kV, the discharge shall not exceed 45 $\mu$ C,		N/A
	– for voltages having a peak value over 15 kV, the energy in the discharge shall not exceed 350 mJ.		N/A
8.1.5	Live parts of built-in appliances, fixed appliances and appliances delivered in separate units, shall be protected at least by basic insulation before installation or assembly.	Basic Insulation	P
8.2	Class II appliances and class II constructions shall be constructed and enclosed so that there is adequate protection against accidental contact with basic insulation and metal parts separated from live parts by basic insulation only.		P
	It shall only be possible to touch parts which are separated from live parts by double insulation or reinforced insulation.		N/A
9	Starting of motor-operated appliances		-
10	Power input and current		-
10.1	If an appliance is marked with rated power input, the power input at normal operating temperature shall not deviate from the rated power input by more than the deviation shown in table 1	Not Deviate	P
	The deviation for motor-operated appliances applies for combined appliances if the power input of the motors is more than 50 % of the rated power input. The permissible deviations apply for both limits of the range for appliances marked with a rated voltage range having limits differing by more than 10 % of the arithmetic mean value of the range.	Voltage Range $\pm 10\%$	P
	For humidifiers with electrode or bare resistance heating devices where an increase in the concentration of		

	conductive components in residual water may occur, the test is carried out with a special test water which has a specific resistance of 2 000 cm at a temperature of 15 °C.	No Humidifiers	N/A
10.2	If an appliance is marked with rated current, the current at normal operating temperature shall not deviate from the rated current by more than the deviation shown in table 2.	Not Deviate	P
	The deviation for motor-operated appliances applies for combined appliances if the current of the motors is more than 50 % of the rated current.		P
11	Heating		-
11.1	Appliances and their surroundings shall not attain excessive temperatures in normal use.	Not Attain	P
11.2	Hand-held appliances are held in their normal position of use.	Hand-held	P
11.3	Temperature rises, other than those of windings, are determined by means of fine-wire thermocouples positioned so that they have minimum effect on the temperature of the part under test.		P
11.4	Heating appliances are operated under normal operation and at 1,15 times rated power input.		P
11.5	Motor-operated appliances are operated under normal operation and supplied with the most unfavourable voltage between 0,94 times and 1,06 times the rated voltage.	Not Motor-operated Appliances	N/A
11.6	Combined appliances are operated under normal operation and supplied with the most unfavourable voltage between 0,94 times and 1,06 times the rated voltage.	Between 0,94Times and 1,06Times	P
11.7	The appliance is operated for a duration corresponding to the most unfavourable conditions of normal use.	Duration	P
	The appliance is operated until steady-state conditions are reached.	Operated	P
11.8	During the test, the temperature rises are monitored continuously and shall not exceed the values shown in table 3	Not Exceed Table 3	P
12	Void		-
13	Leakage current and electric strength at operating temperature		-
13.1	At operating temperature, the leakage current of the appliance shall not be excessive and its electric strength shall be adequate.	Operating Temperature 20°C-65°C	P
	For humidifiers with electrode and bare resistance heating devices, the tests as specified in 13.2 and 13.3 are carried out with the special test water described in 10.1.		N/A
13.2	The leakage current is measured by means of the circuit described in figure 4 of IEC 60990 between any pole of the supply		P
	For appliances connected to fixed wiring, the leakage current shall not exceed 2 mA per kilowatt of rated power input, with a maximum value of 5 mA for appliances accessible to the general public and a maximum value of 10 mA for appliances not accessible to the general public.	Not Exceed 2 mA per kilowatt	P
	The leakage current of filter electrodes shall not exceed		P
	– for class I appliances 1,0 mA	Not Exceed	P
	– for class II and class III appliances 0,50 mA	Not Applicable	N/A
13.3	The appliance is disconnected from the supply and the insulation is immediately subjected to a voltage having a	Accord with IEC	

	frequency of 50 Hz or 60 Hz for 1 min, in accordance with IEC 61180-1.	61180-1	P
14	Transient overvoltages		-
	Appliances shall withstand the transient overvoltages to which they may be subjected.		P
	Compliance is checked by subjecting each clearance having a value less than those specified in table 16 to an impulse voltage test.	Compliance is Checked	P
15	Moisture resistance		-
15.1	The enclosure of the appliance shall provide the degree of protection against moisture in accordance with the classification of the appliance.		P
15.1.1	Appliances other than those classified IPX0 are subjected to the tests of IEC 60529	Accord with IEC 60529	P
15.1.2	Hand-held appliances are turned continuously through the most unfavourable positions during the test.	Hand-held Appliances	P
15.2	Appliances subject to spillage of liquid in normal use shall be constructed so that such spillage does not affect their electrical insulation.	Not Applicable	N/A
15.3	Appliances shall be proof against humid conditions that may occur in normal use.	Proof Against Humidity	P
16	Leakage current and electric strength		-
16.1	The leakage current of the appliance shall not be excessive and its electric strength shall be adequate.		P
	For electrode and bare resistance heating devices, the tests as specified in Clause 16 are carried out with the special test water described in 10.1.		N/A
16.2	An a.c. test voltage is applied between live parts and accessible metal parts that are connected to metal foil having an area not exceeding 20 cm *10 cm in contact with accessible surfaces of insulating materials.		P
	The leakage current is measured within 5 s after the application of the test voltage.	4s	P
	The leakage current shall not exceed the following values:		P
	– for class II appliances 0,25 mA	0,25 mA	P
	– for class 0, class 0I and class III appliances 0,5 mA		N/A
	– for portable class I appliances 0,75 mA	Not Applicable	N/A
	– for stationary class I motor-operated appliances 3,5 A		N/A
	– for stationary class I heating appliances 0,75 mA or 0,75 mA per kW rated power input of the appliance with a maximum of 5 mA, whichever is higher	Not Applicable	N/A
	The values specified above are doubled if all controls have an off position in all poles. They are also doubled if		P
	– the appliance has no control other than a thermal cut-out, or		P
	– all thermostats, temperature limiters and energy regulators do not have an off position, or		N/A
	– the appliance has radio interference filters. In this case the leakage current with the filter disconnected shall not exceed the limits specified.		N/A
	For combined appliances, the total leakage current may be within the limits specified for heating appliances or motor-operated appliances, whichever is the greater, but the two limits are not added.		N/A
	For appliances connected to fixed wiring, the leakage current shall not exceed 2 mA per kilowatt rated power input with a maximum value of 5 mA for appliances	Not Applicable	

	accessible to the general public and a maximum value of 10 mA for appliances not accessible to the general public.		N/A
16.3	Immediately after the test of 16.2, the insulation is subjected to a voltage having a frequency of 50 Hz or 60 Hz for 1 min in accordance with IEC 61180-1.		P
	Accessible parts of insulating material are covered with metal foil.	Covered	P
17	Overload protection of transformers and associated circuits		-
	Appliances incorporating circuits supplied from a transformer shall be constructed so that in the event of short circuits which are likely to occur in normal use, excessive temperatures do not occur in the transformer or in the circuits associated with the transformer.	Not Applicable	N/A
18	Endurance		-
19	Abnormal operation		-
19.1	Appliances shall be constructed so that as a result of abnormal or careless operation, the risk of fire,	Pass Muster	P
	mechanical damage impairing safety or protection against electric shock is obviated as far as is practicable.		
	Electronic circuits shall be designed and applied so that a fault condition will not render the appliance unsafe with regard to electric shock, fire hazard, mechanical hazard or dangerous malfunction.	Pass Muster	P
19.2	Appliances with heating elements are tested under the conditions specified in clause 11 but with restricted heat dissipation.	Accord with Clause 11	P
	The test is made without water in the appliance.		N/A
19.3	The test of 19.2 is repeated but with a supply voltage, determined prior to the test, equal to that required to provide a power input of 1,24 times rated power input under normal operation when the power input has .		P
	The test is made without water in the appliance.		N/A
19.4	The appliance is tested under the conditions specified in clause 11. Any control that limits the temperature during the test of clause 11 is short-circuited.	Accord with Clause 11	P
	Controls which operate during the test of Clause 11 are rendered inoperative. For humidifiers with a fan, the fan is switched off or the air supply is interrupted, whichever is the most unfavourable condition.		N/A
	Appliances are filled with water so that the heating elements or electrodes are just covered; the water supply is then shut off. The water is evaporated until the appliance is dry.	Not Applicable	N/A
19.5	The test of 19.4 is repeated on class 0I appliances and class I appliances incorporating tubular sheathed or embedded heating elements. However, controls are not short-circuited but one end of the element is connected to the sheath of the heating element.	Repeated	P
	This test is repeated with the polarity of the supply to the appliance reversed and with the other end of the element connected to the sheath.		P
	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.	Pass Muster	P
19.6	Appliances with PTC heating elements are supplied at rated voltage until steady conditions with regard to power	No PTC Heating Elements	

	input and temperature are established.		N/A
19.7	The appliance is operated under stalled conditions by		N/A
	– locking the rotor if the locked rotor torque is smaller than the full load torque;		N/A
	– locking moving parts of other appliances.		N/A
	For each of the tests, appliances provided with a timer or programmer are supplied at rated voltage for a period equal to the maximum period allowed by the timer or programmer.	Not Applicable	N/A
	Other appliances are supplied at rated voltage for a period		N/A
	– of 30 s for appliances,		N/A
	appliances that have to be kept switched on by hand or foot,		N/A
	– of 5 min for other appliances that are operated while attended;		N/A
	– until steady conditions are established, for other appliances.		N/A
	During the test, the temperature of the windings shall not exceed the relevant value specified in table 8.		N/A
19.8	One phase of appliances incorporating three-phase motors is disconnected. The appliance is then operated under normal operation and supplied at rated voltage for the period specified in 19.7.		N/A
19.9	A running overload test is carried out on appliances incorporating motors that are intended to be remotely or automatically controlled or liable to be operated continuously.	Pass Muster	P
	The appliance is operated under normal operation and supplied at rated voltage until steady conditions are established.		P
	During the test the winding temperature shall not exceed		N/A
	– 140 °C, for class A winding insulation;		N/A
	– 155 °C, for class E winding insulation;		N/A
	– 165 °C, for class B winding insulation;		N/A
	– 180 °C, for class F winding insulation;		N/A
	– 200 °C, for class H winding insulation;		N/A
	– 220 °C, for class 200 winding insulation;		N/A
	– 240 °C, for class 220 winding insulation;		N/A
	– 270 °C, for class 250 winding insulation.		N/A
19.10	Appliances incorporating series motors are operated with the lowest possible load and supplied at 1,3 times rated voltage for 1 min.	Not Applicable	N/A
	During the test, parts shall not be ejected from the appliance.		N/A
19.11	Electronic circuits are checked by evaluation of the fault conditions specified in 19.11.2 for all circuits or parts of circuits, unless they comply with the conditions specified in 19.11.1	Checked By Evaluation	P
19.11.1	Fault conditions a) to f) specified in 19.11.2 are not applied to circuits or parts of circuits when both of the following conditions are met:		P
	– the electronic circuit is a low-power circuit as described below;		P
	– protection against electric shock, fire hazard, mechanical hazard or dangerous malfunction of other parts of the appliance does not rely on the correct functioning of the electronic circuit.		P

19.11.2	The following fault conditions are considered and, if necessary, applied one at a time, consequential faults being taken into consideration:	Fault Conditions Considered	P
	a) short circuit of functional insulation if clearances or creepage distances are less than the values specified in clause 29;		P
	b) open circuit at the terminals of any component;		P
	c) short circuit of capacitors, unless they comply with IEC 60384-14;		P
	d) short circuit of any two terminals of an electronic component, other than an integrated circuit. This fault condition is not applied between the two circuits of an optocoupler;	Pass Muster	P
	e) failure of triacs in the diode mode;		P
	f) failure of an integrated circuit.		P
	g) failure of an electronic power switching device in a partial turn-on mode with loss of gate (base) control. During this test, winding temperatures shall not exceed the values given in 19.7.	Not Exceed	P
19.11.3	If the appliance incorporates a protective electronic circuit which operates to ensure compliance with clause 19, the relevant test is repeated with a single fault simulated, as indicated in a) to f) of 19.11.2. .	Not Applicable	N/A
19.11.4	Appliances having a device with an off position obtained by electronic disconnection, or a device that can be placed in the stand-by mode, are subjected to the tests of 19.11.4.1 to 19.11.4.7.	Not Applicable	N/A
19.11.4.1	The appliance is subjected to electrostatic discharges in accordance with IEC 61000-4-2, test level 4 being applicable. Ten discharges having a positive polarity and ten discharges having a negative polarity are applied at each preselected point.		N/A
19.11.4.2	The appliance is subjected to radiated fields in accordance with IEC 61000-4-3, test level 3 being applicable.		N/A
19.11.4.3	The appliance is subjected to fast transient bursts in accordance with IEC 61000-4-4. Test level 3 is applicable for signal and control lines. Test level 4 is applicable for the power supply lines.		N/A
19.11.4.4	The power supply terminals of the appliance are subjected to voltage surges in accordance with IEC61000-4-5, five positive impulses and five negative impulses being applied at the selected points.	Accord with IEC 61000-4-5	P
19.11.4.5	The appliance is subjected to injected currents in accordance with IEC 61000-4-6, test level 3 being applicable. During the test, all frequencies between 0,15 MHz to 80 MHz are covered.	Accord with IEC 61000-4-6	P
19.11.4.6	The appliance is subjected to the Class 3 voltage dips and interruptions in accordance with IEC 61000-4-11. The values specified in Table 1 and Table 2 of IEC61000-4-11 are applied at zero crossing of the supply voltage.	Accord with IEC 61000-4-11	P
19.11.4.7	The appliance is subjected to mains signals in accordance with IEC 61000-4-13, test level class 2 being applicable.		N/A
19.11.4.8	The appliance is supplied at rated voltage and operated under normal operation. After approximately 60 s, the power supply voltage is reduced to a level such that the appliance ceases to respond to user inputs or parts controlled by the programmable component cease to		P

	operate, whichever occurs first.		
19.12	If safety of the appliance depends upon the operation of a miniature fuse-link complying with IEC 60127 during any of the fault conditions specified in 19.11.2, the test is repeated but with the miniature fuse-link replaced by an ammeter. If the current measured	Not Depend Upon Fuse-link	N/A
	– does not exceed 2,1 times the rated current of the fuse-link, the circuit is not considered to be adequately protected and the test is carried out with the fuse-link short-circuited;		N/A
	– is at least 2,75 times the rated current of the fuse-link, the circuit is considered to be adequately protected;		N/A
	– is between 2,1 times and 2,75 times the rated current of the fuse-link, the fuse link is short-circuited and the test is carried out	Not Applicable	N/A
	for the relevant period or for 30 min, whichever is the shorter, for quick acting fuselinks;		N/A
	for the relevant period or for 2 min, whichever is the shorter, for time lag fuse-links.	Not Applicable	N/A
19.13	During the tests the appliance shall not emit flames, molten metal, or poisonous or ignitable gas in hazardous amounts and temperature rises shall not exceed the values shown in table 9.	Not Emit Flames	P
	After the tests, and when the appliance has cooled to approximately room temperature, compliance with Clause 8 shall not be impaired and the appliance shall comply with 20.2 if it can still be operated.	Cooled To Room Temperature	P
	When the insulation, other than that of class III appliances, has cooled down to approximately room temperature, it shall withstand the electric strength test of 16.3, the test voltage, however, being as specified in table 4.	Cooled To Room Temperature	P
	For appliances which are immersed in or filled with conducting liquid in normal use, the appliance is immersed in or filled with water for 24 h before the electric strength test is carried out.	Not Filled with Water	N/A
	After the operation or interruption of a control, clearances and creepage distances across the functional insulation shall withstand the electric strength test of 16.3, the test voltage, however, being twice the working voltage.	Pass Muster	P
	The appliance shall not undergo a dangerous malfunction, and there shall be no failure of protective electronic circuits if the appliance is still operable.		P
	Appliances tested with an electronic switch in the off position, or in the stand-by mode, shall:		-
	– not become operational, or		P
	– if they become operational, not result in a dangerous malfunction during or after the tests of 19.11.4.		P
19.14	Appliances are operated under the conditions of Clause 11. Any contactor or relay contact that operates under the conditions of Clause 11 is short-circuited.	Pass Muster	P
	Stability and mechanical hazards		-
20.1	Appliances, other than fixed appliances and hand-held appliances, intended to be used on a surface such as the floor or a table shall have adequate stability.	hand-held	P
20.2	Moving parts of appliances shall, as far as is compatible with the use and working of the appliance, be positioned		

	or enclosed to provide adequate protection against personal injury in normal use.		P
	Protective enclosures, guards and similar parts shall be non-detachable parts and shall have adequate mechanical strength.	Non-Detachable Parts	P
	The unexpected reclosure of self-resetting thermal cut-outs and overcurrent protective devices shall not cause a hazard.	Not Cause a Hazard	P
21.1	Appliances shall have adequate mechanical strength and be constructed to withstand such rough handling that may be expected in normal use.	Have Adequate Mechanical Strength	P
	After the test, the appliance shall show no damage that could impair compliance with this standard and compliance with 8.1, 15.1 and clause 29 shall not be impaired.	No Damage	P
21.2	Accessible parts of solid insulation shall have sufficient strength to prevent penetration by sharp implements.		P
22	Construction		-
22.1	If the appliance is marked with the first numeral of the IP system, the relevant requirements of IEC 60529 shall be fulfilled.	Accord With IEC60529	P
22.2	For stationary appliances, means shall be provided to ensure all-pole disconnection from the supply mains. Such means shall be one of the following:	Not Stationary	N/A
	– a supply cord fitted with a plug;		N/A
	– a switch complying with 24.3;		N/A
	– a statement in the instructions that a disconnection incorporated in the fixed wiring is to be provided;		N/A
	– an appliance inlet.		N/A
	Single-pole switches and single-pole protective devices that disconnect heating elements from the supply mains in single-phase, permanently connected class 0I appliances and class I appliances shall be connected to the phase conductor.	Not Applicable	N/A
22.3	Appliances with pins for insertion into socket-outlets shall not impose undue strain on these socket-outlets.		N/A
	The means for retaining the pins shall withstand the forces to which the pins are likely to be subjected in normal use.		
22.4	Appliances for heating liquids and appliances causing undue vibration shall not be provided with pins for insertion into socket-outlets.	Not For Heating Liquids	N/A
22.5	Appliances intended to be connected to the supply mains by means of a plug shall be constructed so that in normal use there is no risk of electric shock from charged capacitors having a rated capacitance exceeding 0,1 $\mu\text{F}$ , when the pins of the plug are touched.	Connected To The Supply Mains	P
22.6	Appliances shall be constructed so that their electrical insulation cannot be affected by water that could condense on cold surfaces or by liquid that could leak from containers, hoses, couplings and similar parts of the appliance.	Not Affected By Water	P
	Appliances shall be so constructed that water from condensation or leakage can flow out, if otherwise there would be a possibility of such water affecting the electrical insulation.		P
22.7	Appliances containing liquid or gases in normal use or having steam-producing devices shall incorporate		



	adequate safeguards against the risk of excessive pressure.	No containing liquid	N/A
	If a gasket is necessary to comply with the requirements of this subclause, then the gasket shall comply with the requirements of Annex AA.	Comply With Annex AA	P
22.8	For appliances having compartments to which access can be gained without the aid of a tool and that are likely to be cleaned in normal use, the electrical connections shall be arranged so that they are not subject to pulling during cleaning.		P
22.9	Appliances shall be constructed so that parts such as insulation, internal wiring, windings, commutators and slip rings are not exposed to oil, grease or similar substances, unless the substance has adequate insulating properties so that compliance with the standard is not impaired.	Pass Muster	P
22.10	It shall not be possible to reset voltage-maintained non-self-resetting thermal cutouts by the operation of an automatic switching device incorporated within the appliance.		P
	Non-self-resetting thermal motor protectors shall have a trip-free action unless they are voltage maintained.		P
	Reset buttons of non-self-resetting controls shall be located or protected so that their accidental resetting is unlikely to occur if this could result in a hazard.	Not Applicable	N/A
22.11	Non-detachable parts that protect against access to live parts, moisture or contact with moving parts shall be fixed in a reliable manner and withstand the mechanical stress occurring during normal use.		P
	Parts that are likely to be removed during installation or servicing are disassembled and assembled 10 times before the test is carried out.		N/A
	The test is carried out at room temperature. However, if compliance may be affected by the temperature of the appliance, the test is also carried out immediately after it has been operated under the conditions specified in clause 11.	Room Temperature 30°C-70°C	P
	The test is applied to all parts that are likely to be detachable whether or not they are fixed by screws, rivets or similar parts.		N/A
	A force is applied without jerks for 10 s in the most unfavourable direction to parts likely to be weak. The force is as follows:		P
	– push force, 50 N;		P
	– pull force:		P
	if the shape of the part is such that the fingertips cannot easily slip off, 50 N;	50 N	P
	if the projection of the part that is gripped is less than 10 mm in the direction of removal, 30 N.	30 N	P
	The push force is applied by test probe 11 of IEC 61032.		P
	If the part is likely to be twisted, the following torque is applied at the same time as the pull or push force:		P
	– 2 Nm, for major dimensions up to 50 mm;	2 Nm	P
	– 4 Nm, for major dimensions over 50 mm.	4 Nm	P
	This torque is also applied when the test fingernail is pulled by means of the loop.		P
	If the projection of the part which is gripped is less than 10 mm, the torque is reduced by 50 %		P
	Parts shall remain in the locked position and not become		

	detached.		P
22.12	Handles, knobs, grips, levers and similar parts shall be fixed in a reliable manner so that they will not work loose in normal use if loosening could result in a hazard.	Not Applicable	N/A
22.13	Appliances shall be constructed so that when handles are gripped in normal use, contact is unlikely between the operator's hand and parts having a temperature rise exceeding the value specified in table 3 for handles which are held for short periods only in normal use		P
22.14	Appliances shall have no ragged or sharp edges, other than those necessary for the functioning of the appliance, that could create a hazard for the user in normal use or during user maintenance.	No Ragged Or Sharp Edges	P
	Pointed ends of self-tapping screws or other fasteners shall be located so that they are unlikely to be touched by the user in normal use or during user maintenance.		P
22.15	Storage hooks and similar devices for flexible cords shall be smooth and well rounded.		N/A
22.16	Automatic cord reels shall be constructed so that they do not cause		-
	– undue abrasion or damage to the sheath of the flexible cord;		N/A
	– breakage of conductor strands;		N/A
	– undue wear of contacts.		N/A
22.17	Spacers intended to prevent the appliance from overheating walls shall be fixed so that it is not possible to remove them from the outside of the appliance by hand or by means of a screwdriver or a spanner.		N/A
22.18	Current-carrying parts and other metal parts, the corrosion of which could result in a hazard, shall be resistant to corrosion under normal conditions of use.		P
22.19	Driving belts shall not be relied upon to provide the required level of insulation unless they are constructed to prevent inappropriate replacement.	No Driving Belts	N/A
22.20	Direct contact between live parts and thermal insulation shall be effectively prevented unless such material is non-corrosive, non-hygroscopic and non-combustible.		P
22.21	Wood, cotton, silk, ordinary paper and similar fibrous or hygroscopic material shall not be used as insulation, unless impregnated.		P
22.22	Appliances shall not contain asbestos.	No Asbestos	P
22.23	Oils containing polychlorinated biphenyl (PCB) shall not be used in appliances.	No PCB	P
22.24	Bare heating elements shall be supported so that the heating conductor is unlikely to come into contact with accessible metal parts if they rupture.		N/A
22.25	Appliances, other than those of class III, shall be constructed so that sagging heating conductors cannot come into contact with accessible metal parts.		P
22.26	Appliances having parts of class III construction shall be constructed so that the insulation between parts operating at safety extra-low voltage and other live parts complies with the requirements for double insulation or reinforced insulation.		N/A
22.27	Parts connected by protective impedance shall be separated by double insulation or reinforced insulation.		N/A
22.28	For class II appliances connected in normal use to the gas mains or to the water mains, metal parts conductively		

	connected to the gas pipes or in contact with the water shall be separated from live parts by double insulation or reinforced insulation.	Not Connected to Water	N/A
22.29	Class II appliances intended to be permanently connected to fixed wiring shall be constructed so that the required degree of access to live parts is maintained after installation.	Not Applicable	N/A
22.30	Parts of class II construction which serve as supplementary insulation or reinforced insulation, and which could be omitted during reassembly after servicing, shall be		P
	– fixed so that they cannot be removed without being seriously damaged,		P
	– constructed so that they cannot be replaced in an incorrect position and if they are omitted, the appliance is rendered inoperable or manifestly incomplete.		N/A
22.31	Clearances and creepage distances over supplementary insulation and reinforced insulation shall not be reduced below the values specified in clause 29 as a result of wear.		P
22.32	Supplementary insulation and reinforced insulation shall be constructed or protected so that the deposition of pollution resulting from wear of parts within the appliance does not reduce clearances or creepage distances below the values specified in clause 29.	Not Below Clause 29	P
	Parts of natural or synthetic rubber used as supplementary insulation shall be resistant to ageing or be located and dimensioned so that creepage distances are not reduced below the values specified in 29.2, even if cracks occur.	Not Applicable	N/A
	Ceramic material which is not tightly sintered, similar materials or beads alone shall not be used as supplementary insulation or reinforced insulation.		P
	Insulating material in which heating conductors are embedded is considered to be basic insulation and not reinforced insulation.		P
22.33	Conductive liquids that are or may become accessible in normal use shall not be in direct contact with live parts. Electrodes shall not be used for heating liquids.	No Conductive Liquids	N/A
	For class II construction, conductive liquids that are or may become accessible in normal use shall not be in direct contact with basic insulation or reinforced insulation.		N/A
	For class II construction, conductive liquids which are in contact with live parts shall not be in direct contact with reinforced insulation. Electrodes are allowed to be used for heating liquids.	Not Applicable	N/A
22.34	Shafts of operating knobs, handles, levers and similar parts shall not be live unless the shaft is inaccessible when the part is removed.		N/A
22.35	For constructions other than those of class III, handles, levers and knobs that are held or actuated in normal use shall not become live in the event of a failure of basic insulation.	Pass Muster	P
	For stationary appliances this requirement does not apply to handles, levers and knobs, other than those of electrical components, provided that they are reliably connected to an earthing terminal or earthing contact or separated from live parts by earthed metal.		N/A

22.36	For appliances other than those of class III, handles which are continuously held in the hand in normal use shall be constructed so that when gripped in normal use, the operator's hand is not likely to touch metal parts unless they are separated from live parts by double insulation or reinforced insulation.	Pass Muster	P
22.37	For class II appliances, capacitors shall not be connected to accessible metal parts and their casings, if of metal, shall be separated from accessible metal parts by supplementary insulation.		P
	This requirement does not apply to capacitors complying with the requirements for protective impedance specified in 22.42.		N/A
22.38	Capacitors shall not be connected between the contacts of a thermal cut-out.	Not Applicable	N/A
22.39	Lampholders shall be used only for the connection of lamps.		N/A
22.40	Motor-operated appliances and combined appliances which are intended to be moved while in operation, or which have accessible moving parts, shall be fitted with a switch to control the motor.		N/A
	Unless the appliance can operate continuously, automatically or remotely without giving rise to a hazard, appliances for remote operation shall be fitted with a switch for stopping the operation of the appliance.		N/A
22.41	Appliances shall not incorporate components, other than lamps, containing mercury.		P
22.42	Protective impedance shall consist of at least two separate components whose impedance is unlikely to change significantly during the lifetime of the appliance.		N/A
22.43	Appliances which can be adjusted for different voltages shall be constructed so that accidental changing of the setting is unlikely to occur.		N/A
22.44	Appliances shall not have an enclosure that is shaped or decorated like a toy.		P
22.45	When air is used as reinforced insulation, the appliance shall be constructed so that clearances cannot be reduced below the values specified in 29.1.3 due to deformation as a result of an external force applied to the closure.		N/A
22.46	Software used in protective electronic circuits shall be software class B or software class C.		N/A
22.47	Appliances intended to be connected to the water mains shall withstand the water pressure expected in normal use.	Not Connected To Water Mains	N/A
22.48	Appliances intended to be connected to the water mains shall be constructed to prevent back siphonage of non-potable water into the water mains.	Not Connected To Water Mains	N/A
22.49	For remote operation, the duration of operation shall be set before the appliance can be started unless the appliance switches off automatically at the end of a cycle or it can operate continuously without giving rise to a hazard.	Remote Operation Provided	P
22.50	Controls incorporated in the appliance, if any, shall take priority over controls actuated by remote operation.		N/A
22.51	A control on the appliance shall be manually adjusted to the setting for remote operation before the appliance can be operated in this mode. There shall be a visual indication on the appliance showing that the appliance is	Control Provided	P

	adjusted for remote operation.		
	- operate continuously,		N/A
	- operate automatically,		N/A
	- be operated remotely,		N/A
	without giving rise to a hazard.		N/A
22.52	Socket-outlets on appliances accessible to the user shall be in accordance with the socket-outlet system used in the country in which the appliance is sold.	Not Applicable	N/A
23	Internal wiring		-
23.1	Wireways shall be smooth and free from sharp edges.	Smooth	P
	Wires shall be protected so that they do not come into contact with burrs, cooling fins or similar edges which may cause damage to their insulation.		P
	Holes in metal through which insulated wires pass shall have smooth well-rounded surfaces or be provided with bushings.	Smooth Well-Rounded Surface	P
	Wiring shall be effectively prevented from coming into contact with moving parts.		P
23.2	Beads and similar ceramic insulators on live wires shall be fixed or located so that they cannot change their position or rest on sharp edges.		P
23.3	Different parts of an appliance that can move relative to each other in normal use or during user maintenance shall not cause undue stress to electrical connections and internal conductors, including those providing earthing continuity.	Pass Muster	P
23.4	Bare internal wiring shall be rigid and fixed so that, in normal use, clearances or creepage distances cannot be reduced below the values specified in clause 29.	Accord With Clause 29	P
23.5	The insulation of internal wiring shall withstand the electrical stress likely to occur in normal use.		P
23.6	When sleeving is used as supplementary insulation on internal wiring, it shall be retained in position by positive means.		P
23.7	Conductors identified by the colour combination green/yellow shall only be used for earthing conductors.		P
23.8	Aluminium wires shall not be used for internal wiring.		P
23.9	Stranded conductors shall not be consolidated by lead-tin soldering where they are subjected to contact pressure, unless the clamping means is constructed so that there is no risk of bad contact due to cold flow of the solder.		P
23.10	The insulation and sheath of internal wiring, incorporated in external hoses for the connection of an appliance to the water mains, shall be at least equivalent to that of light polyvinyl chloride sheathed flexible cord (code designation 60227 IEC 52).	Not Applicable	N/A
24	Components		-
24.1	Components shall comply with the safety requirements specified in the relevant IEC standards as far as they reasonably apply.	Comply with Relevant IEC Standards	P
	Components that have been previously tested and shown to comply with the resistance to fire requirements in the IEC standard for the relevant component need not be retested provided that		N/A
	– the severity specified in the component standard is not less than the severity specified in 30.2 of this standard		N/A
	– unless the preselection alternative is used, the test		

	report for the component states whether it complied with the IEC standard for the relevant component with or without flame.	Not Applicable	N/A
	If the above two conditions are not satisfied, the component is tested as part of the appliance.		N/A
	There are two levels of severity specified for appliances for which 30.2.3 is applicable.		N/A
	Components that have not been previously tested and shown to comply with the IEC standard for the relevant component are tested according to the requirements of 30.2 of this standard.		N/A
	Lampholders and starterholders that have not been previously tested and found to comply with the relevant IEC standard are tested as a part of the appliance and shall additionally comply with the gauging and interchangeability requirements of the relevant IEC standard under the conditions occurring in the appliance.	Not Applicable	N/A
	When an IEC standard does not exist for a component, there are no additional tests specified.		N/A
24.1.1	The relevant standard for capacitors likely to be permanently subjected to the supply voltage and used for radio interference suppression or for voltage dividing is IEC 60384-14. If they have to be tested, they are tested in accordance with annex F.	Not Applicable	N/A
	This switch has to be double-pole if the capacitor is connected to earth.		N/A
24.1.2	The relevant standard for safety isolating transformers is IEC 61558-2-6. If they have to be tested, they are tested in accordance with annex G.		N/A
24.1.3	The relevant standard for switches is IEC 61058-1. The number of cycles of operation declared for 7.1.4 of IEC 61058-1 shall be at least 10 000. If they have to be tested, they are tested in accordance with annex H.	Not Applicable	N/A
24.1.4	The relevant standard for automatic controls is IEC 60730-1 together with its relevant part 2.		N/A
	The number of cycles of operation declared for 6.10 and 6.11 of IEC 60730-1 shall not be less than the following:		N/A
	– thermostats 10 000		N/A
	– temperature limiters 1 000		N/A
	– self-resetting thermal cut-outs 300		N/A
	– voltage-maintained non-self-resetting thermal cut-outs 1000		N/A
	– other non-self-resetting thermal cut-outs 30		N/A
	– timers 3 000		N/A
	– energy regulators 10 000		N/A
24.1.5	The relevant standard for appliance couplers is IEC 60320-1. However, for appliances classified higher than IPX0, the relevant standard is IEC 60320-2-3.	Not Applicable	N/A
	The relevant standard for interconnection couplers is IEC 60320-2-2.		N/A
24.1.6	The relevant standard for small lampholders similar to E10 lampholders is IEC 60238, the requirements for E10 lampholders being applicable. However, they need not accept a lamp with an E10 cap complying with the current edition of Standard Sheet 7004-22 of IEC 60061-1.	Not Applicable	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		N/A

	IEC 62151.		
24.1.8	The relevant standard for thermal links is IEC 60691. Thermal links that do not comply with IEC 60691 are considered to be an intentionally weak part for the purposes of Clause 19.		N/A
24.1.9	Relays, other than motor starting relays, are tested as part of the appliance.		N/A
24.2	Appliances shall not be fitted with	Not Fit With	P
	– switches or automatic controls in flexible cords;		P
	– devices that cause the protective device in the fixed wiring to operate in the event of a fault in the appliance;		P
	– thermal cut-outs that can be reset by a soldering operation.		P
24.3	Switches intended to ensure all-pole disconnection of stationary appliances, as required in 22.2, shall be directly connected to the supply terminals and shall have a contact separation in all poles, providing full disconnection under overvoltage category III conditions.	Not Applicable	N/A
24.4	Plugs and socket-outlets for extra-low voltage circuits, and those used as terminal devices for heating elements, shall not be interchangeable with plugs and socket-outlets listed in IEC 60083 or IEC 60906-1 or with connectors and appliance inlets complying with the standard sheets of IEC 60320-1.		N/A
24.5	Capacitors in auxiliary windings of motors shall be marked with their rated voltage and their rated capacitance and shall be used in accordance with these markings.		N/A
24.6	The working voltage of motors directly connected to the supply mains and having basic insulation that is inadequate for the rated voltage of the appliance, shall not exceed 42 V. In addition, they shall comply with the requirements of annex I.	Not Applicable	N/A
24.7	Hose-sets for the connection of appliances to the water mains shall comply with IEC 61770. They shall be supplied with the appliance.	Comply with IEC 61770	P
25	Supply connection and external flexible cords		-
25.1	The appliances referenced in this subclause may be cord-connected	Pass Muster	P
	– if they are for indoor use only;		P
	– if they have a marked rating of 25 A or less;		P
	– if they comply with the applicable code requirements for cord-connected appliances appropriate to the specific country in which they are to be used.	Pass Muster	P
	Appliances shall not be provided with an appliance inlet.		P
25.2	Appliances, other than stationary appliances for multiple supply, shall not be provided with more than one means of connection to the supply mains.		P
25.3	Appliances intended to be permanently connected to fixed wiring shall allow the connection of the supply conductors after the appliance has been fixed to its support and shall be provided with one of the following means for connection to the supply mains:	Not Applicable	N/A
	– a set of terminals allowing the connection of cables of fixed wiring having the nominal cross-sectional areas specified in 26.6;		N/A
	– a set of terminals allowing the connection of a flexible cord;	Not Applicable	N/A

	– a set of supply leads accommodated in a suitable compartment;		N/A
	– a set of terminals and cable entries, conduit entries, knock-outs or glands, which allow the connection of the appropriate types of cable or conduit.		N/A
25.4	For appliances intended to be permanently connected to the fixed wiring and having a rated current not exceeding 16 A, cable and conduit entries shall be suitable for cables or conduits having a maximum overall dimension shown in table 10.	Not Applicable	N/A
	Conduit entries, cable entries and knock-outs shall be constructed or located so that the introduction of the conduit or cable does not reduce clearances or creepage distances below the values specified in clause 29.		N/A
25.5	Supply cords shall be assembled to the appliance by one of the following methods:		P
	– type X attachment;		N/A
	– type Y attachment;		N/A
	– type Z attachment, if allowed in the relevant part 2.		P
	Type X attachments, other than those having a specially prepared cord, shall not be used for flat twin tinsel cords.	Not Applicable	N/A
25.6	Plugs shall not be fitted with more than one flexible cord.		N/A
25.7	Supply cords shall be one of the following types:		P
	– Rubber sheathed.		P
	Their properties shall be at least those of ordinary tough rubber sheathed cords (code designation 60245 IEC 53);	Accord with IEC 60245	P
	– Polychloroprene sheathed.		N/A
	Their properties shall be at least those of ordinary polychloroprene sheathed cords (code designation 60245 IEC 57);		N/A
	– Cross-linked polyvinyl chloride sheathed.		N/A
	Their properties shall be at least those of cross-linked polyvinyl chloride sheathed cords (code designation 60245 IEC 87);		N/A
	– Polyvinyl chloride sheathed.		N/A
	These cords shall not be used if they are likely to touch metal parts having a temperature rise exceeding 75 K during the test of Clause 11. Their properties shall be at least those of light polyvinyl chloride sheathed cord (code designation 60227 IEC 52), for appliances having a mass not exceeding 3 kg;		N/A
	ordinary polyvinyl chloride sheathed cord (code designation 60227 IEC 53), for other appliances;		N/A
	– Heat resistant polyvinyl chloride sheathed.		N/A
	These cords shall not be used for type X attachment other than specially prepared cords.		N/A
	Their properties shall be at least those of		N/A
	heat-resistant light polyvinyl chloride sheathed cord (code designation 60227 IEC 56), for appliances having a mass not exceeding 3 kg;		N/A
	heat-resistant polyvinyl chloride sheathed cord (code designation 60227 IEC 57), for other appliances.		N/A
25.8	Conductors of supply cords shall have a nominal cross-sectional area not less than that shown in table 11.	Not Less Than Table 11	P
25.9	Supply cords shall not be in contact with sharp points or edges of the appliance.		P
25.10	The supply cord of class I appliances shall have a		



	green/yellow core that is connected to the earthing terminal of the appliance and to the earthing contact of the plug.	Pass Muster	P
25.11	Conductors of supply cords shall not be consolidated by lead-tin soldering where they are subjected to contact pressure, unless the clamping means is constructed so that there is no risk of a bad contact due to cold flow of the solder.	Pass Muster	P
25.12	The insulation of the supply cords shall not be damaged when moulding the cord to part of the enclosure.		P
25.13	Inlet openings for supply cords shall be constructed so that the sheath of the supply cord can be introduced without risk of damage.		N/A
25.14	Appliances provided with a supply cord that are moved while in operation shall be constructed so that the supply cord is adequately protected against excessive flexing where it enters the appliance.	Not Applicable	N/A
25.15	Appliances provided with a supply cord, and appliances intended to be permanently connected to fixed wiring by a flexible cord, shall have a cord anchorage. The cord anchorage shall relieve conductors from strain, including twisting, at the terminals and protect the insulation of the conductors from abrasion.		N/A
	It shall not be possible to push the cord into the appliance to such an extent that the cord or internal parts of the appliance could be damaged.		N/A
25.16	Cord anchorages for type X attachments shall be constructed and located so that	Not Applicable	N/A
	– replacement of the cord is easily possible;		N/A
	– it is clear how the relief from strain and the prevention of twisting are obtained;		N/A
	– they are suitable for the different types of supply cord that may be connected, unless the cord is specially prepared;		N/A
	– the cord cannot touch the clamping screws of the cord anchorage if these screws are accessible, unless they are separated from accessible metal parts by supplementary insulation;	Not Applicable	N/A
	– the cord is not clamped by a metal screw which bears directly on the cord;		N/A
	– at least one part of the cord anchorage is securely fixed to the appliance, unless it is part of a specially prepared cord;		N/A
	– screws which have to be operated when replacing the cord do not fix any other component. However, this does not apply if		N/A
	after removal of the screws, or if the component is incorrectly repositioned, the appliance becomes inoperative or is obviously incomplete;		N/A
	the parts intended to be fastened by them cannot be removed without the aid of a tool during the replacement of the cord;		N/A
	– if labyrinths can be bypassed the test of 25.15 is nevertheless withstood;		N/A
	– for class 0 appliances, class 0I appliances and class I appliances, they are of insulating material or are provided with an insulating lining, unless failure of the insulation of the cord does not make accessible metal parts live;		N/A

	– for class II appliances, they are of insulating material or, if of metal, they are insulated from accessible metal parts by supplementary insulation.		N/A
25.17	For type Y attachment and type Z attachment, cord anchorages shall be adequate.		N/A
25.18	Cord anchorages shall be arranged so that they are only accessible with the aid of a tool or shall be constructed so that the cord can only be fitted with the aid of a tool.	Not Applicable	N/A
25.19	For type X attachment, glands shall not be used as cord anchorages in portable appliances. Tying the cord into a knot or tying the cord with string is not allowed.	Not Applicable	N/A
25.20	The insulated conductors of the supply cord for type Y attachment and type Z attachment shall be additionally insulated from accessible metal parts by basic insulation for class 0 appliances, class 0I appliances and class I appliances, and by supplementary insulation for class II appliances.		N/A
25.21	The space for the connection of supply cords having type X attachment, or for the connection of fixed wiring, shall be constructed	Not Applicable	N/A
	– so that it is possible to check that the supply conductors are correctly positioned and connected before fitting any cover;		N/A
	– so that any cover can be fitted without risk of damage to the conductors or their insulation;		N/A
	– for portable appliances, so that the uninsulated end of a conductor, should it become free from the terminal, cannot come into contact with accessible metal parts.		N/A
25.22	Appliance inlets shall		-
	– be located or enclosed so that live parts are not accessible during insertion or removal of the connector;		N/A
	– be located so that the connector can be inserted without difficulty;		N/A
	– be located so that, after insertion of the connector, the appliance is not supported by the connector when it is placed in any position of normal use on a flat surface;		N/A
	– not be an appliance inlet for cold conditions if the temperature rise of external metal parts of the appliance exceeds 75 K during the test of clause 11, unless the supply cord is unlikely to touch such metal parts in normal use.		N/A
25.23	Interconnection cords shall comply with the requirements for the supply cord, except that	Not Applicable	N/A
	– the cross-sectional area of the conductors of the interconnection cord is determined on the basis of the maximum current carried by the conductor during the test of clause 11 and not by the rated current of the appliance;		N/A
	– the thickness of the insulation of the conductor may be reduced if the voltage of the conductor is less than the rated voltage.		N/A
25.24	Interconnection cords shall not be detachable without the aid of a tool if compliance with this standard is impaired when they are disconnected.	Not Applicable	N/A
25.25	The dimensions of pins of appliances that are inserted into socket-outlets shall be compatible with the dimensions of the relevant socket-outlet.		N/A
26	Terminals for external conductors		-
26.1	Appliances shall be provided with terminals or equally		P

	effective devices for the connection of external conductors. The terminals shall only be accessible after the removal of a non-detachable cover.	Provided With Terminals	P
26.2	Appliances having type X attachment, except those having a specially prepared cord, and appliances for connection to fixed wiring shall be provided with terminals in which the connections are made by means of screws, nuts or similar devices, unless the connections are soldered.	Not Applicable	N/A
	The screws and nuts shall not be used to fix any other component except that they may also clamp internal conductors if these are arranged so that they are unlikely to be displaced when fitting the supply conductors.		P
	If soldered connections are used, the conductor shall be positioned or fixed so that reliance is not placed upon the soldering alone to maintain it in position.		P
26.3	Terminals for type X attachment and those for connection to fixed wiring shall be constructed so that they clamp the conductor between metal surfaces with sufficient contact pressure but without causing damage to the conductor.	Not Applicable	N/A
	The terminals shall be fixed so that when the clamping means is tightened or loosened		P
	– the terminal does not become loose;	Not Become Loose	P
	– internal wiring is not subjected to stress;		P
	– clearances and creepage distances are not reduced below the values specified in clause 29.	Not Reduced	P
26.4	Terminals for type X attachment, except type X attachments having a specially prepared cord, and terminals for connection to fixed wiring, shall not require special preparation of the conductor.		N/A
26.5	Terminals for type X attachment shall be located or shielded so that if a wire of a stranded conductor escapes when the conductors are fitted, there is no risk of accidental connection to other parts that could result in a hazard.	Not Applicable	N/A
	There shall be no contact between live parts and accessible metal parts and, for class II constructions, between live parts and metal parts separated from accessible metal parts by supplementary insulation only.		N/A
26.6	Terminals for type X attachment and for connection to fixed wiring shall allow the connection of conductors having the nominal cross-sectional areas shown in table 13.	Type X Attachment Not Applicable	N/A
26.7	Terminals for type X attachment shall be accessible after removal of a cover or part of the enclosure.		N/A
26.8	Terminals for the connection of fixed wiring, including the earthing terminal, shall be located close to each other.	Located Close	P
26.9	Terminals of the pillar type shall be constructed and located so that the end of a conductor introduced into the hole is visible, or can pass beyond the threaded hole for a distance equal to half the nominal diameter of the screw but at least 2,5 mm.	3 mm	P
26.10	Terminals with screw clamping and screwless terminals shall not be used for the connection of the conductors of flat twin tinsel cords unless the ends of the conductors are fitted with means suitable for use with screw terminals.		P
27	Provision for earthing		-
27.1	Accessible metal parts of class 0I appliances and class I		

	appliances that may become live in the event of an insulation fault, shall be permanently and reliably connected to an earthing terminal within the appliance or to the earthing contact of the appliance inlet.		N/A
	Earthing terminals and earthing contacts shall not be connected to the neutral terminal.		N/A
	Class 0 appliances, class II appliances and class III appliances shall have no provision for earthing.		N/A
	Safety extra-low voltage circuits shall not be earthed unless they are protective extra-low voltage circuits.		N/A
27.2	The clamping means of earthing terminals shall be adequately secured against accidental loosening.		N/A
	Terminals for the connection of external equipotential bonding conductors shall allow the connection of conductors having nominal cross-sectional areas of 2,5 mm <sup>2</sup> to 6 mm <sup>2</sup> and shall not be used to provide earthing continuity between different parts of the appliance. It shall not be possible to loosen the conductors without the aid of a tool.		N/A
27.3	If a detachable part having an earth connection is plugged into another part of the appliance, the earth connection shall be made before the current-carrying connections are established.		N/A
	For appliances with supply cords, the arrangement of the terminals, or the length of the conductors between the cord anchorage and the terminals, shall be such that the current carrying conductors become taut before the earthing conductor if the cord slips out of the cord anchorage.		N/A
27.4	All parts of the earthing terminal intended for the connection of external conductors shall be such that there is no risk of corrosion resulting from contact between these parts and the copper of the earthing conductor or any other metal in contact with these parts.		N/A
	Parts providing earthing continuity, other than parts of a metal frame or enclosure, shall be of metal having adequate resistance to corrosion.		N/A
	Parts of coated or uncoated steel that are only intended to provide or to transmit contact pressure shall be adequately protected against rusting.		N/A
	If the body of the earthing terminal is a part of a frame or enclosure of aluminium or aluminium alloy, precautions shall be taken to avoid the risk of corrosion resulting from contact between copper and aluminium or its alloys.		N/A
27.5	The connection between the earthing terminal or earthing contact and earthed metal parts shall have low resistance.		N/A
	If the clearances of basic insulation in a protective extra-low voltage circuit are based on the rated voltage of the appliance, this requirement does not apply to connections providing earthing continuity in the protective extra-low voltage circuit.	Not Applicable	N/A
27.6	The printed conductors of printed circuit boards shall not be used to provide earthing continuity in hand-held appliances.		N/A
28	Screws and connections		-
28.1	Fixings, the failure of which may impair compliance with this standard, electrical connections and connections providing earthing continuity shall withstand the		N/A

	mechanical stresses occurring in normal use.		
	Screws used for these purposes shall not be of metal which is soft or liable to creep, such as zinc or aluminium.		P
	Screws used for electrical connections or for connections providing earthing continuity shall screw into metal.	Screw Into Metal	P
	Screws shall not be of insulating material if their replacement by a metal screw could impair supplementary insulation or reinforced insulation.	Not Insulating Material	P
28.2	Electrical connections and connections providing earthing continuity shall be constructed so that contact pressure is not transmitted through insulating material that is liable to shrink or to distort unless there is sufficient resiliency in the metallic parts to compensate for any possible shrinkage or distortion of the insulating material.	Pass Muster	P
	This requirement does not apply to electrical connections in circuits carrying a current not exceeding 0,5 A.		P
28.3	Space-threaded (sheet metal) screws shall only be used for electrical connections if they clamp the parts together.	Only Used	P
	Thread-cutting (self-tapping) screws and thread rolling screws shall only be used for electrical connections if they generate a full form standard machine screw thread.	Only Used	P
	Thread-cutting, thread rolling and space-threaded screws may be used in connections providing earthing continuity provided it is not necessary to disturb the connection		P
	– in normal use,		P
	– during user maintenance,		P
	– when replacing a supply cord having a type X attachment,		P
	– during installation.		P
	At least two screws must be used for each connection providing earthing continuity unless the screw forms a thread having a length of at least half the diameter of the screw.	Two Screws	P
28.4	Screws and nuts that make a mechanical connection between different parts of the appliance shall be secured against loosening if they also make electrical connections or connections providing earthing continuity.		P
	Rivets used for electrical connections or for connections providing earthing continuity shall be secured against loosening if these connections are subject to torsion in normal use.	Pass Muster	P
29	Clearances, creepage distances and solid insulation		-
	Appliances shall be constructed so that the clearances, creepage distances and solid insulation are adequate to withstand the electrical stresses to which the appliance is liable to be subjected.		P
29.1	Clearances shall not be less than the values specified in Table 16, taking into account the rated impulse voltage for the overvoltage categories of Table 15, unless, for basic insulation and functional insulation, they comply with the impulse voltage test of Clause 14.	Not Be Less Than Table 16	P
	The impulse voltage test is not applicable when the microenvironment is pollution degree 3 or for basic insulation of class 0 appliances and class 0I appliances.		N/A
29.1.1	The clearances of basic insulation shall be sufficient to withstand the overvoltages likely to occur during use, taking into account the rated impulse voltage. The values		

	of Table 16, or the impulse voltage test of Clause 14, are applicable.	Accord With Table 16	P
	The clearance at the terminals of tubular sheathed heating elements may be reduced to 1,0 mm if the microenvironment is pollution degree 1		N/A
	Lacquered conductors of windings are considered to be bare conductors.		P
29.1.2	Clearances of supplementary insulation shall be not less than those specified for basic insulation in table 16.	No Supplementary Insulation	N/A
29.1.3	Clearances of reinforced insulation shall be not less than those specified for basic insulation in table 16, but using the next higher step for rated impulse voltage as a reference.	No Reinforced Insulation	N/A
29.1.4	For functional insulation, the values of table 16 are applicable.		P
	The clearance between surfaces of PTC heating elements may be reduced to 1 mm.		N/A
29.1.5	For appliances having higher working voltages than rated voltage, for example on the secondary side of a step-up transformer, or if there is a resonant voltage, the voltage used for determining clearances from table 16 shall be the sum of the rated impulse voltage and the difference between the peak value of the working voltage and the peak value of the rated voltage.	Not Applicable	N/A
	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 shall be not less than those specified in table 16, but using the next lower step for rated impulse voltage as a reference.	No Transformer	N/A
	For circuits supplied with a voltage lower than rated voltage, for example on the secondary side of a transformer, clearances of functional insulation are based on the working voltage, which is used as the rated voltage in table 15.	No Transformer	N/A
29.2	Appliances shall be constructed so that creepage distances are not less than those appropriate for the working voltage, taking into account the material group and the pollution degree.		P
	Pollution degree 2 applies unless		P
	– precautions have been taken to protect the insulation, in which case pollution degree 1 applies;		N/A
	– the insulation is subjected to conductive pollution, in which case pollution degree 3 applies.		N/A
	For insulation located in any airflow, the microenvironment is pollution degree 3 unless the insulation is enclosed or located so that it is unlikely to be exposed to pollution due to normal use of the appliance.	Pass Muster	P
29.2.1	Creepage distances of basic insulation shall not be less than those specified in table 17.	Not Less Than Table 17	P
	Except for pollution degree 1, if the test of clause 14 has been used to check a particular clearance, the corresponding creepage distance shall not be less than the minimum dimension specified for the clearance of table 16.		N/A
29.2.2	Creepage distances of supplementary insulation shall be at least those specified for basic insulation in table 17.	No Supplementary Insulation	N/A
29.2.3	Creepage distances of reinforced insulation shall be at		

	least double those specified for basic insulation in table 17.	No Reinforced Insulation	N/A
29.2.4	Creepage distances of functional insulation shall be not less than those specified in table 18. However, creepage distances may be reduced if the appliance complies with clause 19 with the functional insulation short-circuited.		P
29.3	Supplementary insulation and reinforced insulation shall have adequate thickness, or have a sufficient number of layers, to withstand the electrical stresses that can be expected during the use of the appliance.	No Supplementary Insulation	N/A
29.3.1	The thickness of the insulation shall be at least		N/A
	– 1 mm for supplementary insulation;		N/A
	– 2 mm for reinforced insulation.		N/A
29.3.2	Each layer of material shall withstand the electric strength test of 16.3 for supplementary insulation. Supplementary insulation shall consist of at least 2 layers of material and reinforced insulation of at least 3 layers.		N/A
29.3.3	The insulation is subjected to the dry heat test Bb of IEC60068-2-2 for 48 h at a temperature of 50 K in excess of the maximum temperature rise measured during the test of Clause 19.	50 K	P
	If the temperature rise of the insulation measured during the tests of Clause 19 does not exceed the value specified in Table 3, the test of IEC 60068-2-2 is not carried out.		P
30	Resistance to heat and fire		-
30.1	External parts of non-metallic material, parts of insulating material supporting live parts including connections, and parts of thermoplastic material providing supplementary insulation or reinforced insulation, shall be sufficiently resistant to heat if their deterioration could cause the appliance to fail to comply with this standard.	Pass Muster	P
	This requirement does not apply to the insulation or sheath of flexible cords or internal wiring.		P
30.2	Parts of non-metallic material shall be resistant to ignition and spread of fire.	Resistant To Ignition	P
	This requirement does not apply to decorative trims, knobs and other parts unlikely to be ignited or to propagate flames that originate inside the appliance.		P
30.2.1	Parts of non-metallic material are subjected to the glow-wire test of IEC 60695-2-11, which is carried out at 550 °C.	Accord with IEC 60695-2-11	P
	The glow-wire test is not carried out on parts of material classified at least HB40 according to IEC 60695-11-10 provided that the test sample use for the classification was no thicker than the relevant part of the appliance.		P
	Parts for which the glow-wire test cannot be carried out, such as those made of soft or foamy material, shall meet the requirements specified in ISO 9772 for material classified HBF, the test sample used for the classification being no thicker than the relevant part of the appliance.	Pass Muster	P
30.2.2	For appliances that are operated while attended, parts of non-metallic material supporting current-carrying connections, and parts of non-metallic material within a distance of 3 mm of such connections, are subjected to the glow-wire test of IEC 60695-2-11.	Pass Muster	P
	However, the glow-wire test is not carried out on parts of material classified as having a glowwire flammability index according to IEC 60695-2-12 of at least		P

	– 750 °C, for connections which carry a current exceeding 0,5 A during normal operation,		P
	– 650 °C, for other connections.		N/A
	If the glow-wire flammability index is not available for a sample with a thickness within $\pm 0,1$ mm of the relevant part, then the test sample shall have a thickness equal to the nearest preferred value specified in IEC 60695-2-12 that is no thicker than the relevant part.	Within $\pm 0,1$ mm	P
	Where a non-metallic material is within 3 mm of a current carrying connection, but is shielded from the connection by a different material, the glow-wire test of IEC60695-2-11 is carried out at the relevant temperature with the tip of the glow-wire applied to the interposed shielding material with the shielded material in place and not directly to the shielded material.	Comply with IEC60695-2-11	P
	When the glow-wire test of IEC 60695-2-11 is carried out, the temperatures are		P
	– 750 °C, for connections that carry a current exceeding 0,5 A during normal operation,		P
	– 650 °C, for other connections.		N/A
30.2.3	Appliances that are operated while unattended are tested as specified in 30.2.3.1 and 30.2.3.2. However, the tests are not applicable to:		N/A
	– parts supporting welded connections;		N/A
	– parts supporting connections in low-power circuits described in 19.11.1;		N/A
	– soldered connections on printed circuit boards;		N/A
	– connections on small components that are mounted on printed circuit boards; and parts within 3 mm of any of these connections.		N/A
30.2.3.1	Parts of non-metallic material supporting connections that carry a current exceeding 0,2 A during normal operation, and parts of non-metallic material within a distance of 3 mm of such connections, are subjected to the glow-wire test of IEC 60695-2-11 with a test severity of 850 °C.		N/A
	Where a non-metallic material is within 3 mm of a current carrying connection, but is shielded from the connection by a different material, the glow-wire test of IEC60695-2-11 is carried out at the relevant temperature with the tip of the glow-wire applied to the interposed shielding material with the shielded material in place and not directly to the shielded material.	Not Applicable	N/A
30.2.3.2	Parts of non-metallic material supporting current-carrying connections, and parts of non-metallic material within a distance of 3 mm of such connections, are subjected to the glow-wire test of IEC 60695-2-11.	Not Applicable	N/A
	– 775 °C, for connections that carry a current exceeding 0,2 A during normal operation,		N/A
	– 675 °C, for other connections.		N/A
	If the glow-wire ignition temperature is not available for a sample with a thickness within $\pm 0,1$ mm of the relevant part, then the test sample shall have a thickness equal to the nearest preferred value specified in IEC 60695-2-13 that is no thicker than the relevant part.		N/A
	Where an non-metallic material is within 3 mm of a current carrying connection, but is shielded from the connection by a different material, the glow-wire test of IEC 60695-2-11 is carried out at the relevant temperature with the tip of the glow-wire applied to the interposed	Not Applicable	



	shielding material with the shielded material in place and not directly to the shielded material.		N/A
	When the glow-wire test of IEC 60695-2-11 is carried out, the temperatures are		N/A
	– 750 °C, for connections that carry a current exceeding 0,2 A during normal operation,		N/A
	– 650 °C, for other connections.		N/A
	If parts that withstand the glow-wire test of IEC 60695-2-11, but during the test produce a flame that persists for longer than 2 s, then these parts and adjacent parts are further tested as follows.		N/A
	The needle-flame test is not carried out on parts of material classified as V-0 or V-1 according to IEC60695-11-10 provided that the test sample used for the classification was no thicker than the relevant part of the appliance.		N/A
30.2.4	The base material of printed circuit boards is subjected to the needle-flame test of Annex E. The flame is applied to the edge of the board where the heat sink effect is lowest when the board is positioned as in normal use.	Accord with Annex E	P
	The test is not carried out:	Not Carried Out	P
	– on printed circuit boards of low-power circuits described in 19.11.1;		P
	– on the printed circuit boards in		P
	a metal enclosure that confines flames or burning droplets, hand-held appliances,		P
	appliances that have to be kept switched on by hand or foot, appliances that are continuously loaded by hand,		P
	– on a base material classified as V-0 according to IEC 60695-11-10 provided that the test sample used for the classification was no thicker than the printed circuit board.		P
31	Resistance to rusting		-
	Ferrous parts, the rusting of which might cause the appliance to fail to comply with this standard, shall be adequately protected against rusting.	Protected Against Rusting	P
32	Radiation, toxicity and similar hazards		-
	Appliances shall not emit harmful radiation or present a toxic or similar hazard due to their operation in normal use.	Not Emit Harmful Radiation	P

**EN 60335-2-14:2006+A12:2016**  
**Household and similar electrical appliances. Safety - Particular requirements for kitchen machines**

5	General conditions for the tests		-
	This clause of Part 1 is applicable except as follows.		P
5.2	Addition:		-
	At least one additional specially prepared sample is required for the tests of 22.107.		P
6	Classification		-
	This clause of Part 1 is applicable except as follows.		-
	– appliances of extended temperate class (SN); – appliances of temperate class (N); – appliances of subtropical class (ST); – appliances of tropical class (T). Compliance is checked by inspection.		P
7	Marking and instructions		-
	Appliances shall also be marked with – the power input, in watts, of heating systems, if greater than 100 W; – the defrosting input, in watts, if greater than the input corresponding to the rated power input; – rated power input in watts or rated current in amperes, except that compression-type appliances, other than ice-cream appliances, shall be marked only with the rated current in amperes; – the letters SN, N, ST or T indicating the climatic class of the appliance; – the maximum rated wattage of lamps, in watts; – the total mass of the refrigerant;		P
8	Protection against access to live parts		-
	This clause of Part 1 is applicable except as follows.		-
	Lamps are not removed, provided that the appliance can be isolated from the supply by means of a plug or an all-pole switch. However, during the insertion or removal of lamps, protection against contact with live parts of the lamp cap shall be ensured.		P
9	Starting of motor-operated appliances		-
	This clause of Part 1 is not applicable.		-
10	Power input and current		-
	This clause of Part 1 is applicable except as follows.		P
11	Heating		-
	This clause of Part 1 is applicable except as follows.		-
	Compliance is checked by determining the temperature rise of the various parts under the conditions specified in 11.2 to 11.7.		P
12	Void		-
13	Leakage current and electric strength at operating temperature		P
	This clause of Part 1 is applicable except as follows.		-
13.1	Addition:		-

	The test of 13.2 does not apply to battery circuits.		P
13.2	Modification:		-
	Instead of the values specified for class 0I appliances and the various types of class I appliances, the following values apply: – for class 0I appliances 0,75 mA; – for class I refrigerating appliances the values specified for the various types of stationary class I appliances;		P
13.3	Addition:		-
	The test voltage specified in Table 4 for reinforced insulation is applied between separate circuits for battery operation and mains supply operation.		P
14	Transient overvoltages		-
	This clause of Part 1 is applicable.		-
15	Moisture resistance		-
	This clause of Part 1 is applicable except as follows.		P
16	Leakage current and electric strength		-
	This clause of Part 1 is applicable except as follows.		P
17	Overload protection of transformers and associated circuits		-
	This clause of Part 1 is applicable.		P
18	Endurance		-
	This clause of Part 1 is applicable.		P
19	Abnormal operation		-
	This clause of Part 1 is applicable except as follows. 19.1 Addition: Subclauses 19.2 and 19.3 do not apply to heating systems.		P
20	Stability and mechanical hazards		-
	This clause of Part 1 is applicable except as follows.		P
	ice-cream appliances shall have adequate stability.		-
21	Mechanical strength		-
	NOTE 101 Covers of lamps within the appliance are considered likely to be damaged in normal use. Lamps are not tested.		P
22	Construction		-
	This clause of Part 1 is applicable except as follows.		-
	Thermostats, with the exception of their thermosensitive parts, shall not be in contact with the evaporator unless they are adequately protected against condensation on cold surfaces and against the effect of water formed during the defrosting process.		P
23	Internal wiring		-
	This clause of Part 1 is applicable except as follows.		-
	Instead of the test being carried out while the appliance is in operation, it is carried out with the appliance disconnected from the supply.		P
24	Components		-
	This clause of Part 1 is applicable except as follows.		P
25	Supply connection and external flexible cords		-

	This clause of Part 1 is applicable except as follows.		-
	This clause of Part 1 is not applicable to those parts related to motor-compressors with facilities for connecting a supply cord, complying with the appropriate requirements of IEC 60335-2-34.		P
26	Terminals for external conductors		-
	This clause of Part 1 is applicable except as follows.		P
27	Provision for earthing		-
	This clause of Part 1 is applicable except as follows.		P
28	Screws and connections		-
	This clause of Part 1 is applicable except as follows.		P
29	Clearances, creepage distances and solid insulation		-
	This clause of Part 1 is applicable except as follows.		P
30	Resistance to heat and fire		-
	This clause of Part 1 is applicable except as follows.		P
31	Resistance to rusting		-
	This clause of Part 1 is applicable.		P
32	Radiation, toxicity and similar hazards		-
	This clause of Part 1 is not applicable.		N

## APPENDIX A— TEST PHOTOGRAPH



SK-630



SK-630



Model: SK-CZ-627



Model: SK-CZ-626



Model: JF-601D



Model: 603B



Model: WK-725



Model: JE-623D



Model: SK-726

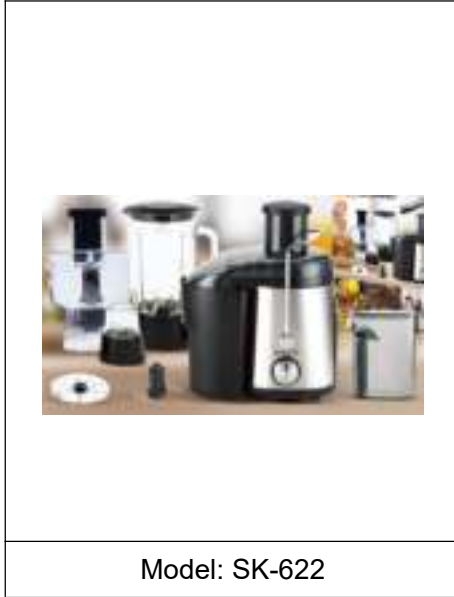


Model: JF-651E



Model: SK-CZ-631

		
<p>Model: JE-32</p>	<p>Model: JE-25</p>	<p>Model: JE-26</p>
		
<p>Model: SK-160</p>	<p>Model: SK-4004</p>	<p>Model: SK-4003</p>
		
<p>Model: SK-4000</p>	<p>Model: IGJ01</p>	<p>Model: SK-630</p>





**EC Declaration of conformity**  
**Council Directive 2014/35/EU on Low Voltage Detector**

Linhai Zhongqi Opto-Electrical Technology Co., Ltd.  
West Road Village, Dongcheng Town, Taizhou, Zhejiang, CN

Certify that the product described is in conformity with the  
Low Voltage Directive 2014/35/EU as amended

**Product Name:**

**Juicer**

**Item No:**

**SK-CZ-627,SK-CZ-626,JF-601D,603B,WK-725,JE-623D,  
SK-726,JF-651E,SK-CZ-631,JE-32,JE-25,JE-26,SK-160,  
SK-4004,SK-4003,SK-4000,IGJ01,SK-630,SK-622**

The product has been assessed by the application of the following standards:

**EN 60335-1:2012+A15:2021, EN 60335-2-14:2006+A12:2016**

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Issue place and date

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Company stamp and Signature of authorized personnel

**Linhai Zhongqi Opto-Electrical Technology Co., Ltd.**

# **CE Technical Documents**

**Product Name: Juicer**

**Applied Directive : Electromagnetic Compatibility Directive 2014/30/EU**

**Document No.: XMT0202200107S/EMC**

**Date: 2022.03.18**

**Revision: V0**

<b>Applicant</b>	Linhai Zhongqi Opto-Electrical Technology Co., Ltd.	
<b>Address</b>	West Road Village, Dongcheng Town, Taizhou, Zhejiang, CN	
<b>Manufacturer</b>	Linhai Zhongqi Opto-Electrical Technology Co., Ltd.	
<b>Address</b>	West Road Village, Dongcheng Town, Taizhou, Zhejiang, CN	
<b>Test Item Description</b>		
Product Name :	Juicer	
Model/Type Reference :	SK-CZ-627,SK-CZ-626,JF-601D,603B,WK-725,JE-623D,SK-726,JF-651E,SK-CZ-631,JE-32,JE-25,JE-26,SK-160,SK-4004,SK-4003,SK-4000,IGJ01,SK-630,SK-622	
Standard :	EN 55014-1:2021, EN 55014-2:2021, EN 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A1:2019	
Ratings :	See LVD Report	
<b>Test Case Verdicts</b>		
Test case does not apply to the test object :	N(.A .)	
Test item does meet the requirement :	P(ass)	
Test item does not meet the requirement :	F(ail)	
<b>General Remarks</b>		
<ul style="list-style-type: none"> <li>◆ This report shall not be reproduced except in full without the written approval of the testing laboratory.</li> <li>◆ The test results presented in this report relate only to the item tested.</li> <li>◆ Clause numbers between brackets refer to clauses in EN 55014-1:2021, EN 55014-2:2021, EN 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A1:2019;</li> <li>◆ “(see remark #)”refers to a remark appended to the report.</li> <li>◆ “(see Annex #)”refers to an annex appended to the report.</li> <li>◆ Throughout this report a point is used as the decimal separator.</li> </ul>		

## EN 55014-1

### 1.1 Continuous Disturbance Voltage at Mains Terminal

#### 1.1.1 Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Last Cal. Date	Cal. Due Date
No.2 Radio factory of Changzhou	Screened Room	P-22	/	10/06/21	10/05/23
AFJ	EMI Receiver	ER55 CR/2.8	55790015165	10/06/21	10/05/23
AFJ	16A LINE Impedance Stabilization Network	LS16C	16010020077	10/06/21	10/05/23

**Statement of Traceability:** XMTEST certifies that all calibrations have been performed using suitable standards traceable to the CHINA SCIENTIFIC MEASUREMENT INSTITUTE.

#### 1.1.2 Description of Measurement Conditions

Temperature: 45°C

Humidity: 60%

Pressure: 1033mbar

Electromagnetic environment: normal

#### 1.1.3 Limits of Continuous Disturbance Voltage at Mains Terminal

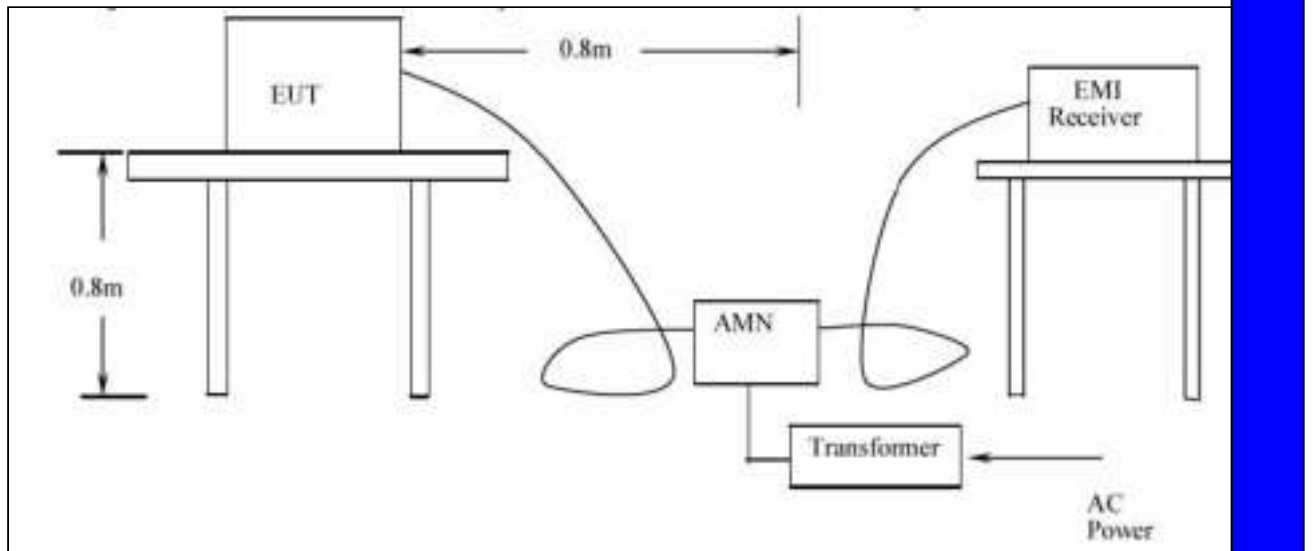
Equipment type	Frequency range MHz	Limit values dB $\mu$ V	
		Quasi-peak	Average
Household appliance	0.15 to 0.5	66 to 56 <sup>a</sup>	59 to 46 <sup>a</sup>
	0.5 to 5	56	46
	5 to 30	60	50

\*Decreasing linearly with logarithm of the frequency.

**Note:** If the limit for the measurement with the average detector is met when using a receiver with a quasi-peak detector, the equipment under test shall be deemed to meet both limits and the measurement using the receiver with an average detector need not be carried out.

### 1.1.4 Configuration

The configuration is in accordance with the requirement in EN 55014-1, the sketch map as follow:



### 1.1.5 Test Data and Records

Conducted disturbance at the Main Terminals			EN61326
Frequency	Amplitude	Detector	Limit
MHz	$\text{dB}\mu\text{V}$	QP/Ave/Peak	$\text{dB}\mu\text{V}$
0.15 to 0.5	*	QP	66 to 56
0.5 to 5	*	QP	56
5 to 30	*	QP	60

### 1.1.6 Verdict

The EUT met the requirement.

## 1.2 Disturbance Power

### 1.2.1 Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Last Cal. Date	Cal. Due Date
No.2 Radio factory of Changzhou	Screened Room	P-22	/	10/06/21	10/05/23
AFJ	EMI Receiver	ER55 CR/2.8	55790015165	10/06/21	10/05/23
AFJ	Absorbing Clamp	YM9129	/	10/06/21	10/05/23

**Statement of Traceability:** XMTEST certifies that all calibrations have been performed using suitable standards traceable to the CHINA SCIENTIFIC MEASUREMENT INSTITUTE.

### 1.2.2 Description of Measurement Conditions

Temperature: 45°C

Humidity: 60%

Pressure: 1033mbar

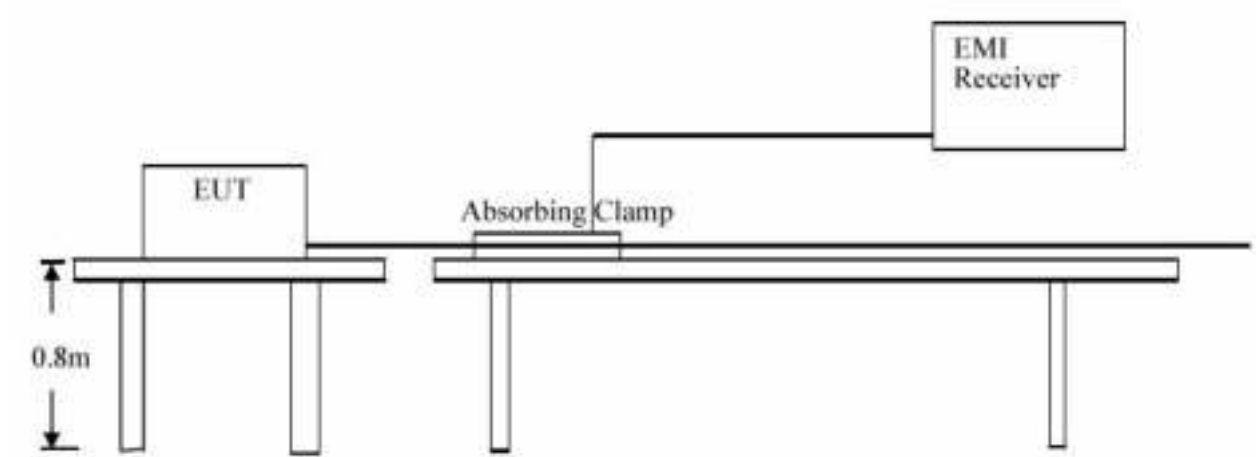
Electromagnetic environment: normal

### 1.2.3 Limits of Disturbance Power

Equipment type	Frequency range MHz	Limit values (dBpW)	
		Quasi-peak	Average
Household appliance	30 to 300	45 to 55 <sup>a</sup>	35 to 45 <sup>a</sup>
*Increasing linearly with frequency			

### 1.2.4 Configuration

The configuration is in accordance with the requirement in EN 55014-1, the sketch map as follow:



### 1.2.5 Test Data and Records

Data Cable Disturbance Power			EN 55014-1
Frequency	Amplitude	Detector	Limit
MHz	dBpW	QP/Ave/Peak	dBpW
30 to 300	*	QP	45 to 55 Increasing linearly with frequency
*Means the disturbance power level 10dB lower than limits.			

### 1.2.6 Verdict

The EUT met the requirement.

### 1.3 Discontinuous Disturbance Voltage at Mains Terminal (Click)

#### 1.3.1 Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Last Cal. Date	Cal. Due Date
No.2 Radio factory of Changzhou	Screened Room	P-22	/	10/06/21	10/05/23
AFJ	EMI Receiver	ER55 CR/2.8	55790015165	10/06/21	10/05/23
AFJ	16A LINE Impedance Stabilization Network	LS16C	16010020077	10/06/21	10/05/23

**Statement of Traceability:** XMTEST certifies that all calibrations have been performed using suitable standards traceable to the CHINA SCIENTIFIC MEASUREMENT INSTITUTE.

#### 1.3.2 Description of Measurement Conditions

Temperature: 45°C

Humidity: 58%

Pressure: 1033mbar

Electromagnetic environment: normal

#### 1.3.3 Limits of Click

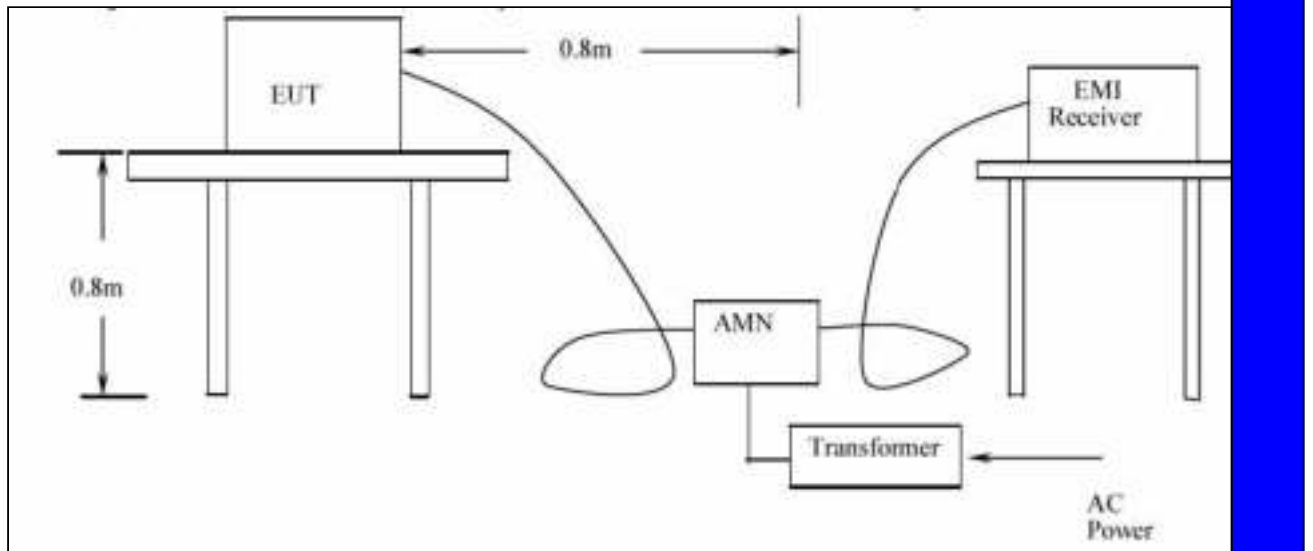
For discontinuous disturbance, the click limit is attained by increasing the relevant limit of Continuous Disturbance Voltage with:

**44dB**                      for                      **N<0.2 or**  
**20lg(30/N)dB**            for                      **0.2≤N<30**



### 1.3.4 Configuration

The configuration is in accordance with the requirement in EN 55014-1, the sketch map as follow:



### 1.3.5 Test Data and Records

The test result is Pass.

### 1.3.6 Verdict

The EUT met the requirement.

## **EN 55014-2**

### **Description of Performance Criterion ( According with EN 55014-2 Section 6 )**

#### **Performance Criterion A**

The apparatus shall continue to operate as intended during the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. If the minimum performance level or the permissible performance loss is not specified by the manufacture, then either of these may be derived from the product description and documentation, and from what the user may reasonably expect from the apparatus if used as intended.

#### **Performance Criterion B**

The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. During the test, degradation of performance is allowed, however, no change of actual operating state or stored data is allowed. If the minimum performance level or the permissible performance loss is not specified by the manufacture, then either of these may be derived from the product description and documentation, and from what the user may reasonably expect from the apparatus if used as intended.

#### **Performance Criterion C**

Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls, or by any operation specified in the instructions for use.

## 2.1 SURGES

### 2.1.1 Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Last Cal. Date	Cal. Due Date
Japan	Surge Lite	LSS-6030	9099E00350	10/15/21	10/20/23

**Statement of Traceability:** XMTEST certifies that all calibrations have been performed using suitable standards traceable to the CHINA SCIENTIFIC MEASUREMENT INSTITUTE.

### 2.1.2 Description of Measurement Conditions

Temperature: 45°C

Humidity: 59%

Pressure: 1033mbar

Electromagnetic environment: normal

### 2.1.3 Configuration

The configuration is in accordance with the requirement in EN 61000-4-5, see the photo in appendix.

### 2.1.4 Test Data and Records

Level	Voltage	Poll	Path	Pass	Fail
1	1kV	+/-	L-N	B	
2	2kV	+/-	L-PE, N-PE	B	
3					
4					

### 2.1.5 Verdict

The EUT was working as normal, so they met the requirement of performance criteria B.

## 2.2 ESD

### 2.2.1 Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Last Cal. Date	Cal. Due Date
Shanghai Sanki	Electrostatic Discharge tester	ESD-320	0329501C	09/25/21	09/24/23

**Statement of Traceability:** XMTEST certifies that all calibrations have been performed using suitable standards traceable to the CHINA SCIENTIFIC MEASUREMENT INSTITUTE.

### 2.2.2 Description of Measurement Conditions

Temperature: 45°C

Humidity: 59%

Pressure: 1033mbar

Electromagnetic environment: normal

### 2.2.3 Configuration

The configuration is in accordance with the requirement in EN 61000-4-2, see the photo in appendix.

### 2.2.4 Test Data and Records

#### Air Discharge

EN61000-4-2 Test Points	Test Levels															
	-2 kV	+2 kV	-4 kV	+4 kV	-6 kV	+6 kV	-8 kV	+8 kV	-10 kV	+10 kV	-12.5 kV	+12.5 kV	-15 kV	+15 kV	-20 kV	+20 kV
EUT Front Side	A	A	A	A	A	A	A	A								
EUT Top Side	A	A	A	A	A	A	A	A								
EUT Back Side	A	A	A	A	A	A	A	A								
EUT Left Side	A	A	A	A	A	A	A	A								
EUT Right Side	A	A	A	A	A	A	A	A								

Test Levels																
EN61000-4-2 Test Points	-2 kV	+2 kV	-4 kV	+4 kV	-6 kV	+6 kV	-8 kV	+8 kV	-10 kV	+10 kV	-12.5 kV	+12.5 kV	-15 kV	+15 kV	-20 kV	+20 kV
EUT Front Side	A	A	A	A												
EUT Top Side	A	A	A	A												
EUT Back Side	A	A	A	A												
EUT Left Side	A	A	A	A												
EUT Right Side	A	A	A	A												

### 2.2.5 Verdict

The EUT was working as normal, so they met the requirement of performance criteria A.

## 2.3 EFT/B

### 2.3.1 Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Last Cal. Date	Cal. Due Date
Shanghai Sanki	E.F.TB Generator	8014	069504E	10/22/21	10/21/23

**Statement of Traceability:** XMTEST certifies that all calibrations have been performed using suitable standards traceable to the CHINA SCIENTIFIC MEASUREMENT INSTITUTE.

### 2.3.2 Description of Measurement Conditions

Temperature: 45°C

Humidity: 58%

Pressure: 1033mbar

Electromagnetic environment: normal

### 2.3.3 Configuration

The configuration is in accordance with the requirement in EN 61000-4-4, see the photo in appendix.

### 2.3.4 Test Data and Records

		Test Levels (kV)							
EN61000-4-4 Test Points		+0.25	-0.25	+0.5	-0.5	+1.0	-1.0	+2.0	-2.0
Power	L1	B	B	B	B	B	B		
Line of	L2	B	B	B	B	B	B		
EUT	L1+L2	B	B	B	B	B	B		

### 2.3.5 Verdict

The EUT was working as normal, so they met the requirement of performance criteria B.

## 2.4 INJECTED CURRENTS

### 2.4.1 Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Last Cal. Date	Cal. Due Date
FLUKE	Synthesized RF Signal Generator	6061A	5080312	09/27/21	09/26/23
QF	Broadband Power Amplifier	QF3860	/	09/27/21	09/26/23
QF	Millivoltmeter	QF2281	92028	09/27/21	09/26/23

**Statement of Traceability:** XMTEST certifies that all calibrations have been performed using suitable standards traceable to the CHINA SCIENTIFIC MEASUREMENT INSTITUTE.

### 2.4.2 Description of Measurement Conditions

Temperature: 45°C

Humidity: 60%

Pressure: 1033mbar

Electromagnetic environment: normal

### 2.4.3 Configuration

The configuration is in accordance with the requirement in EN 61000-4-6, see the photo in appendix.

### 2.4.4 Test Data and Records

EN61000-4-6 Test Points	Frequency range MHz	Levels	Voltage Level (e.m.f.)V	Pass	Fail
Power Line	0.15-230MHz	1	1		
		2	3	A	
		3	10		
		X	Special		

### 2.4.5 Verdict

The EUT was working as normal, so they met the requirement of performance criteria A.

## 2.5 VOLTAGE DIPS AND INTERRUPTIONS

### 2.5.1 Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Last Cal. Date	Cal. Due Date
Japan	Voltage Dip Simulator	VDS-220B	2199D00098	10/27/21	10/26/23

**Statement of Traceability:** XMTEST certifies that all calibrations have been performed using suitable standards traceable to the CHINA SCIENTIFIC MEASUREMENT INSTITUTE.

### 2.5.2 Description of Measurement Conditions

Temperature: 45°C

Humidity: 60%

Pressure: 1033mbar

Electromagnetic environment: normal

### 2.5.3 Configuration

The configuration in accordance with the requirement in EN 61000-4-11, see the photo in appendix.

### 2.5.4 Test Data and Records

Environmental Phenomena	Test level in % UT	Duration (in periods of the rated frequency)	Phase Angle	Pass	Fail
Interruptions	0	0.5T	0/180	B	
Voltage dips in % UT	60	10T	0/180	B	
	30	50T	0/180	B	

### 2.5.5 Verdict

The EUT was working as normal, so they met the requirement of performance criteria B



**EN 61000-3-2****1.1 Test Equipment List and Details**

<b>Manufacturer</b>	<b>Description</b>	<b>Model</b>	<b>Serial Number</b>	<b>Last Cal. Date</b>	<b>Cal. Due Date</b>
EMC-PARTNER	Harmonics and Flicker Analyzer	HARMONIC S-1000	HAR1000-40	10/09/21	10/08/23

**Statement of Traceability:** XMTEST certifies that all calibrations have been performed using suitable standards traceable to the CHINA SCIENTIFIC MEASUREMENT INSTITUTE.

**1.2 Description of Measurement Conditions**

Temperature: 21°C

Humidity: 60%

Pressure: 1033mbar

Electromagnetic environment: normal

**1.3 Configuration**

The configuration is in accordance with the requirement in EN 61000-3-2.

**1.4 Test Data and Records**

Order	Freq[Hz]	Iavg[A]	Iavg%L[%]	I <sub>max</sub> [A]	I <sub>max</sub> %L[%]	Limit[A]	Status
1	50	0.3129		0.4966			
2	100	0.0133	0.1241	0.0171	1.4563	1.0800	
3	150	0.0245	2.2358	0.0826	3.6303	2.3000	
4	200	0.0000	0.0051	0.0059	1.3626	0.4300	
5	250	0.0021	0.2193	0.0233	2.0399	1.1400	
6	300	0.0000	0.0000	0.0031	1.0376	0.3000	
7	350	0.0004	0.0549	0.0154	1.9975	0.7700	
8	400	0.0000	0.0000	0.0013	0.5838	0.2300	
9	450	0.0002	0.0499	0.0102	2.5482	0.4000	
10	500	0.0000	0.0000	0.0004	0.1990	0.1840	
11	550	0.0000	0.0091	0.0054	1.6276	0.3300	
12	600	0.0000	0.0000	0.0003	0.1990	0.1533	
13	650	0.0000	0.0000	0.0026	1.2498	0.2100	
14	700	0.0000	0.0000	0.0002	0.1858	0.1314	
15	750	0.0000	0.0000	0.0030	1.9938	0.1500	
16	800	0.0000	0.0000	0.0002	0.1592	0.1150	
17	850	0.0000	0.0000	0.0022	1.6602	0.1324	
18	900	0.0000	0.0000	0.0003	0.2985	0.1022	
19	950	0.0000	0.0000	0.0017	1.4431	0.1184	
20	1000	0.0000	0.0000	0.0002	0.2654	0.0920	
21	1050	0.0000	0.0000	0.0014	1.3102	0.1071	
22	1100	0.0000	0.0000	0.0001	0.1460	0.0836	
23	1150	0.0000	0.0000	0.0012	1.2478	0.0978	
24	1200	0.0000	0.0000	0.0001	0.0796	0.0767	
25	1250	0.0000	0.0000	0.0011	1.2207	0.0900	
26	1300	0.0000	0.0000	0.0001	0.0862	0.0708	
27	1350	0.0000	0.0000	0.0008	0.9521	0.0833	
28	1400	0.0000	0.0000	0.0001	0.1858	0.0657	
29	1450	0.0000	0.0000	0.0007	0.8653	0.0776	
30	1500	0.0000	0.0000	0.0001	0.0995	0.0613	
31	1550	0.0000	0.0000	0.0007	1.0091	0.0726	
32	1600	0.0000	0.0000	0.0001	0.2123	0.0575	
33	1650	0.0000	0.0000	0.0005	0.8057	0.0682	
34	1700	0.0000	0.0000	0.0001	0.2256	0.0541	
35	1750	0.0000	0.0000	0.0004	0.6646	0.0643	
36	1800	0.0000	0.0000	0.0001	0.1194	0.0511	
37	1850	0.0000	0.0000	0.0005	0.9033	0.0608	
38	1900	0.0000	0.0000	0.0001	0.1261	0.0484	
39	1950	0.0000	0.0000	0.0004	0.7406	0.0577	
40	2000	0.0000	0.0000	0.0001	0.1327	0.0460	
<b>Result: Pass</b>							

**1.5 Verdict**

The EUT met the requirement.

**EN 61000-3-3****2.1 Test Equipment List and Details**

<b>Manufacturer</b>	<b>Description</b>	<b>Model</b>	<b>Serial Number</b>	<b>Last Cal. Date</b>	<b>Cal. Due Date</b>
EMC-PARTNER	Harmonics and Flicker Analyzer	HARMONIC S-1000	HAR1000-40	10/09/21	10/08/23

**Statement of Traceability:** XMTEST certifies that all calibrations have been performed using suitable standards traceable to the CHINA SCIENTIFIC MEASUREMENT INSTITUTE.

**2.2 Description of Measurement Conditions**

Temperature: 21°C

Humidity: 60%

Pressure: 1033mbar

Electromagnetic environment: normal

**2.3 Configuration**

The configuration is in accordance with the requirement in EN 61000-3-3.

## 2.4 Test Data and Records

Plt = 0.140				
	Pst	dmax	dc	dt>Lim
1	0.084	0.350	0.310	0.000
2	0.075	0.000	0.100	0.000
3	0.079	0.000	0.100	0.000
4	0.223	1.090	1.110	0.000
5	0.092	0.400	0.320	0.000
6	0.074	0.000	0.110	0.000
7	0.077	0.000	0.080	0.000
8	0.156	1.090	1.140	0.000
9	0.083	0.340	0.310	0.000
10	0.072	0.000	0.110	0.000
11	0.072	0.000	0.090	0.000
12	0.237	1.090	1.080	0.000
<b>Result: Pass</b>				

## 2.5 Verdict

The EUT met the requirement.

PHOTOS



SK-630



SK-630

 A manual juicer with a clear plastic body and a green base. It has a green handle and a clear lid with a green squeezer. The juicer is filled with orange juice.	 A manual juicer with a clear plastic body and a black base. It has a black handle and a clear lid with a black squeezer. The juicer is filled with orange juice.	 A manual juicer with a clear plastic body and a white base. It has a white handle and a clear lid with a green squeezer. The juicer is filled with orange juice.
<p>Model: SK-CZ-627</p>	<p>Model: SK-CZ-626</p>	<p>Model: JF-601D</p>

 A manual juicer with a clear plastic body and a white base. It has a white handle and a clear lid with a green squeezer. The juicer is filled with orange juice.	 A manual juicer with a clear plastic body and a white base. It has a white handle and a clear lid with a green squeezer. The juicer is filled with orange juice.	 A manual juicer with a clear plastic body and a silver base. It has a silver handle and a clear lid with a black squeezer. The juicer is filled with orange juice.
<p>Model: 603B</p>	<p>Model: WK-725</p>	<p>Model: JE-623D</p>

 A manual juicer with a white body and a white base. It has a white handle and a clear lid with a red squeezer. The juicer is filled with red juice.	 A manual juicer with a silver body and a black base. It has a black handle and a clear lid with a black squeezer. The juicer is filled with black juice.	 A manual juicer with a silver body and a black base. It has a black handle and a clear lid with a black squeezer. The juicer is filled with black juice.
<p>Model: SK-726</p>	<p>Model: JF-651E</p>	<p>Model: SK-CZ-631</p>

		
Model: JE-32	Model: JE-25	Model: JE-26
		
Model: SK-160	Model: SK-4004	Model: SK-4003
		
Model: SK-4000	Model: IGJ01	Model: SK-630



Model: SK-622



**EC Declaration of conformity**

**Council Directive 2014/30/EU on Electromagnetic Compatibility Directive**

Linhai Zhongqi Opto-Electrical Technology Co., Ltd.  
West Road Village, Dongcheng Town, Taizhou, Zhejiang, CN

Certify that the product described is in conformity with the Directive 2014/30/EU

as amended

**Product Name:**

**Juicer**

**Item No:**

**SK-CZ-627,SK-CZ-626,JF-601D,603B,WK-725,JE-623D,  
SK-726,JF-651E,SK-CZ-631,JE-32,JE-25,JE-26,SK-160,  
SK-4004,SK-4003,SK-4000,IGJ01,SK-630,SK-622**

The product has been assessed by the application of the following standards:

**EN 55014-1:2021, EN 55014-2:2021,  
EN 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A1:2019**

\_\_\_\_\_  
Issue place and date

\_\_\_\_\_  
Company stamp and Signature of authorized personnel