



Test Report issued under the responsibility of:



TEST REPORT IEC 60335-2-2 Household and similar electrical appliances – Safety – Part 2-2: Particular requirements for vacuum cleaners and water- suction cleaning appliances	
Report Number	NBES190701235301
Date of issue	2019-09-02
Total number of pages	107
Applicant's name	
Address	
Test specification:	
Standard	IEC 60335-2-2: 2009 (Sixth Edition) + A1 : 2012 in conjunction with IEC 60335-1:2010 (Fifth Edition) (incl. Corrigendum 1:2010)
Test procedure	CB Scheme
Non-standard test method	N/A
Test Report Form No	IEC60335_2_2F
Test Report Form(s) Originator	LCIE
Master TRF	Dated 2013-04
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Test item description	Vacuum Cleaner
Trade Mark	None
Manufacturer	Same as applicant
Model/Type reference	SLX203*, SLX227* (*=B, C, D, E) SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I) SLX260*, SLX261* (*=B, C, D, E, EL, F, G, H)
Ratings	IPX4, Class II Other ratings please refer to general product information

Testing procedure and testing location:		
<input checked="" type="checkbox"/>	CB Testing Laboratory:	SGS-CSTC Standards Technical Services Co., Ltd. Ningbo Branch
Testing location/ address.....:		No.1177, Lingyun Road, Hi-Tech Zone, Ningbo, Zhejiang, China
<input type="checkbox"/>	Associated CB Testing Laboratory:	N/A
Testing location/ address.....:		
Tested by (name + signature).....:		David Zhao <i>David Zhao</i>
Approved by (name + signature).....:		Gloria Feng <i>Gloria Feng</i>
<input type="checkbox"/>	Testing procedure: TMP	N/A
Testing location/ address.....:		
Tested by (name + signature).....:		
Approved by (name + signature).....:		
<input type="checkbox"/>	Testing procedure: WMT	N/A
Testing location/ address.....:		
Tested by (name + signature).....:		
Witnessed by (name + signature)		
Approved by (name + signature).....:		
<input type="checkbox"/>	Testing procedure: SMT	N/A
Testing location/ address.....:		
Tested by (name + signature).....:		
Approved by (name + signature).....:		
Supervised by (name + signature) ...:		

<p>List of Attachments (including a total number of pages in each attachment):</p> <p>1. Annex I – European group differences and national differences – attachment 10 pages 2. Annex II – Photo documentation – attachment 45 pages 3. Annex III –Circuit diagram – attachment 2 pages</p>																											
<p>Summary of testing:</p>																											
<p>Tests performed (name of test and test clause):</p> <p>The tested samples comply with the requirements of the test specification.</p> <p>After review, test refer to below table:</p> <table border="1"> <thead> <tr> <th>Model</th> <th>Tests performed</th> </tr> </thead> <tbody> <tr> <td>SLX203C, SLX217E, SLX217G, SLX225G</td> <td>Full tests</td> </tr> <tr> <td>SLX225E, SLX227E</td> <td>Clause 8, 10, 11, 13, 15,</td> </tr> <tr> <td>SLX225I</td> <td>Clause 8, 10, 11, 13, 15, 16, 19, 21, 22, 24, 29, 30, Annex B and Annex H</td> </tr> <tr> <td>SLX225H</td> <td>Clause 8, 22, 29</td> </tr> <tr> <td>SLX207I</td> <td>Clause 8, 10, 11, 13, 15, 16, 19, 21, 22, 29, 30, Annex B and Annex H</td> </tr> <tr> <td>SLX203C, SLX225G, SLX227E, SLX217C</td> <td>Clause 8, 10, 11, 13, 15, 16, 19</td> </tr> <tr> <td>SLX260EL</td> <td>Clause: 8, 10, 11, 13, 15, 16, 19, 21, 22, 23, 28, 30, Annex B, Annex E, Annex N and EMF test</td> </tr> <tr> <td>SLX261E</td> <td>Clause: 8, 10, 15, 16, 20, 21, 22, and EMF test</td> </tr> <tr> <td>SLX225I</td> <td>Clause: 11, 13, 19.101 of Annex B, 30</td> </tr> <tr> <td>SLX260EL</td> <td>Clause: 10, 11, 13, 15, 16 and Annex B</td> </tr> <tr> <td>SLX225G with ZD006C140025EUE</td> <td>Clause: 11, 13 and Annex B</td> </tr> <tr> <td>SLX207EL with battery (Kan Li-ion 18650 2200mAh)</td> <td>Clause: 10, 11, 13, 19 and Annex B</td> </tr> </tbody> </table> <p>The test data was based on the reports No. NBES130800065201, NBES130800065202-M1, NBES130800065203-M2, NBES130800065203-M3, NBES130800065204-M2, NBES130800065205-M2, NBES130800065206-M2, NBES130800065207-M2, NBES130800065208-M2</p>	Model	Tests performed	SLX203C, SLX217E, SLX217G, SLX225G	Full tests	SLX225E, SLX227E	Clause 8, 10, 11, 13, 15,	SLX225I	Clause 8, 10, 11, 13, 15, 16, 19, 21, 22, 24, 29, 30, Annex B and Annex H	SLX225H	Clause 8, 22, 29	SLX207I	Clause 8, 10, 11, 13, 15, 16, 19, 21, 22, 29, 30, Annex B and Annex H	SLX203C, SLX225G, SLX227E, SLX217C	Clause 8, 10, 11, 13, 15, 16, 19	SLX260EL	Clause: 8, 10, 11, 13, 15, 16, 19, 21, 22, 23, 28, 30, Annex B, Annex E, Annex N and EMF test	SLX261E	Clause: 8, 10, 15, 16, 20, 21, 22, and EMF test	SLX225I	Clause: 11, 13, 19.101 of Annex B, 30	SLX260EL	Clause: 10, 11, 13, 15, 16 and Annex B	SLX225G with ZD006C140025EUE	Clause: 11, 13 and Annex B	SLX207EL with battery (Kan Li-ion 18650 2200mAh)	Clause: 10, 11, 13, 19 and Annex B	<p>Testing location:</p> <p>SGS-CSTC Standards Technical Services Co., Ltd. Ningbo Branch</p> <p>No.1177, Lingyun Road, Hi-Tech Zone, Ningbo, Zhejiang, China</p>
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<p>Evaluation to reissue GS certification due to 5 years validity. All models have been verified without technical differences in construction, particular in circuit, PCB and critical components. No further test is considered necessary. Regulatory documentation has been checked which includes EK-1 decisions, German user manual, compliance to PAH, EMC, EMF, Noise, RoHS and WEEE directives.</p>	
<p>Summary of compliance with National Differences</p> <p>List of countries addressed:</p> <ul style="list-style-type: none"> - EU Group Differences - EK decisions according to German ProdSG have been taken into account. PAH risk evaluation according to AfPS GS 2014:01 PAK: see PAH risk assessment report no: NBES190701235301/PAH. The following EK decisions were considered applicable: EK1 601-15e Rev.2, 588-14. <p>The product fulfils the requirements of:</p> <p>EN 60335-2-2:2010 + A11:2012 + A1:2013 EN 60335-1:2012 + A11:2014 + A13:2017 EN 62233:2008</p>	

Copy of marking plate

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.



Marking plates for other models were the same as the above one except for the model name and ratings.

Test item particulars : Vacuum cleaner
Classification of installation and use : Portable appliance
Supply Connection : Direct plug-in power adaptor :
Possible test case verdicts: - test case does not apply to the test object.....: N/A - test object does meet the requirement: P (Pass) - test object does not meet the requirement.....: F (Fail)
Testing : Date of receipt of test item: 2013-08-14; 2015-01-07; 2015-05-07; 2015-11-04; 2019-07-01 Date (s) of performance of tests: 2013-08-14 to 2013-10-25; 2015-01-07 to 2015-02-06; 2015-05-07 to 2015-05-12; 2015-11-04 to 2015-12-03; 2019-07-01 to 2019-09-02
General remarks: The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory. "(See Annex #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report. Throughout this report a comma point is used as the decimal separator. This document is issued by the Company subject to its General Conditions of Service, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx . Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 1 month only.
Manufacturer's Declaration per sub-clause 4.2.5 of IEC60335-2-29: The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided : <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="width: 80%;"></div> <div style="width: 15%;"> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not applicable </div> </div>
When differences exist; they shall be identified in the General product information section.

Name and address of factory (ies).....:		Same as applicant			
General product information:					
Vacuum cleaner for household and indoor use only.					
They were operated only by the rechargeable battery series and they were charged by the approved adaptors. These appliances were considered to be of class III construction in a class II appliance.					
There were 6 series of vacuum cleaners: SLX203 series, SLX227 series, SLX207 series, SLX217 series, SLX225 series, SLX260 series and SLX261 series. All series were same except that:					
1. Different appearance					
2. Circuits of SLX203C, SLX207C, SLX217C, SLX225C, SLX227C are the same. Circuit of SLX207EL, SLX217EL, SLX225EL, SLX260EL, SLX261EL are the same. Circuit for other models are the same.					
Difference refer to below table:					
Model	Rated input (W)	Circuit	Battery (V)	Motor	Adaptor
SLX203B SLX207B SLX217B SLX225B SLX227B SLX260B SLX261B	25	Circuit 2	3x1,2	RS380 BRS380SA	TDUB-63I WJG-Y350600200D WJB-Y350600200D SW-060020EU ZD5C065020BSE ZD5C065020EUE ZD006C065020EUE ZD006C065020BSE
SLX203C SLX207C SLX217C SLX225C SLX227C SLX260C SLX261C	30	Circuit 1	4x1,2	RS380 BRS380SA	TDUB-63I WJG-Y350600200D WJB-Y350600200D SW-090025EU ZD5C080020BSE ZD5C080020EUE ZD006C080020EUE ZD006C080020BSE
SLX203D SLX227D	30	Circuit 2	5x1,2	RS380 BRS380SA	TDUB-63V09 WJG-Y350900250D WJB-Y350900250D SW-100025EU ZD5C095025BSE ZD5C096025EUE ZD006C096025EUE ZD006C096025BSE
SLX207D SLX217D SLX225D SLX260D SLX261D	40	Circuit 2		RS390 BRS390SA	
SLX203E SLX227E	30	Circuit 2	6x1,2	RS380 BRS380SA	TDUB-63V09 WJG-Y350900250D WJB-Y350900250D SW-120025EU ZD5C110025BSE ZD5C110025EUE ZD006C110025EUE ZD006C110025BSE
SLX207E SLX217E SLX225E SLX260E SLX261E	45	Circuit 2		RS390 BRS390SA BRS540SH	
SLX207EL SLX217EL SLX225EL SLX260EL SLX261EL	45	Circuit 3	2x3,7	RS390 BRS390SA BRS540SH	SW-120025EU SW-120025BS ZD5C110025BSE ZD5C110025EUE ZD5C096025BSE ZD5C096025EUE

					ZD006C096025EUE ZD006C096025BSE
SLX207F SLX217F SLX225F SLX260F SLX261F	45	Circuit 2	7x1,2	RS390 BRS390SA	TDUB-61 TDUB-63V12 WJG-Y351200250D WJB-Y351200250D SW-150025EU ZD5C140025EUE ZD5C140025BSE ZD006C140025EUE ZD006C140025BSE
SLX207G SLX217G SLX225G SLX260G SLX261G	45	Circuit 2	8x1,2	RS390 BRS390SA	
SLX207H SLX217H SLX225H SLX260H SLX261H	75	Circuit 2	10x1,2	RS540 BRS540SH	WJG-Y411500250D WJB-Y411500250D SW-180025EU ZD5C170025EUE ZD5C170025BSE
SLX207I SLX217I SLX225I	75	Circuit 2	12x1,2	RS540 BRS540SH	WJG-Y411800250D WJB-Y411800250D SW-200025EU ZD5C200025EUE ZD5C200025BSE

Adaptor	Ratings
TDUB-63I	Input: 230 V; 50 Hz; Output: 5,5 V d.c.; 200 mA
TDUB-63V09	Input: 230 V; 50 Hz; Output: 9 V d.c.; 250 mA
TDUB-61	Input: 230 V; 50 Hz; Output: 12 V d.c.; 400 mA
TDUB-63V12	Input: 230 V; 50 Hz; Output: 12 V d.c.; 250 mA
WJG-Y350600200D	Input: 230 V – 240 V; 50 Hz; Output: 6 V d.c.; 200 mA
WJG-Y350900250D	Input: 230 V – 240 V; 50 Hz; Output: 9 V d.c.; 250 mA
WJG-Y351200250D	Input: 230 V – 240 V; 50 Hz; Output: 12 V d.c.; 250 mA
WJG-Y411500250D	Input: 230 V – 240 V; 50 Hz; Output: 15 V d.c.; 250 mA
WJG-Y411800250D	Input: 230 V – 240 V; 50 Hz; Output: 18 V d.c.; 250 mA
SW-060020EU	Input: 100 V – 240 V; 50 Hz / 60 Hz; Output: 6 V d.c.; 200 mA
SW-090025EU	Input: 100 V – 240 V; 50 Hz / 60 Hz; Output: 9 V d.c.; 250 mA
SW-100025EU	Input: 100 V – 240 V; 50 Hz / 60 Hz; Output: 10 V d.c.; 250 mA
SW-120025EU	Input: 100 V – 240 V; 50 Hz / 60 Hz; Output: 12 V d.c.; 250 mA
SW-150025EU	Input: 100 V – 240 V; 50 Hz / 60 Hz; Output: 15 V d.c.; 250 mA
SW-180025EU	Input: 100 V – 240 V; 50 Hz / 60 Hz; Output: 18 V d.c.; 250 mA
SW-200025EU	Input: 100 V – 240 V; 50 Hz / 60 Hz; Output: 20 V d.c.; 250 mA

WJB-Y350600200D	Input: 230 V – 240 V; 50 Hz; Output: 6 V d.c.; 200 mA
WJB-Y350900250D	Input: 230 V – 240 V; 50 Hz; Output: 9 V d.c.; 250 mA
WJB-Y351200250D	Input: 230 V – 240 V; 50 Hz; Output: 12 V d.c.; 250 mA
WJB-Y411500250D	Input: 230 V – 240 V; 50 Hz; Output: 15 V d.c.; 250 mA
WJB-Y411800250D	Input: 230 V – 240 V; 50 Hz; Output: 18 V d.c.; 250 mA
ZD5C065020EUE	Input: 100 V – 240 V; 50 Hz / 60 Hz; Output: 6,5 V d.c.; 200 mA
ZD5C080020EUE	Input: 100 V – 240 V; 50 Hz / 60 Hz; Output: 8 V d.c.; 200 mA
ZD5C096025EUE	Input: 100 V – 240 V; 50 Hz / 60 Hz; Output: 9,6 V d.c.; 250 mA
ZD5C110025EUE	Input: 100 V – 240 V; 50 Hz / 60 Hz; Output: 11 V d.c.; 250 mA
ZD5C140025EUE	Input: 100 V – 240 V; 50 Hz / 60 Hz; Output: 14 V d.c.; 250 mA
ZD5C170025EUE	Input: 100 V – 240 V; 50 Hz / 60 Hz; Output: 17 V d.c.; 250 mA
ZD5C200025EUE	Input: 100 V – 240 V; 50 Hz / 60 Hz; Output: 20 V d.c.; 250 mA
ZD5C065020BSE	Input: 100 V – 240 V; 50 Hz / 60 Hz; Output: 6,5 V d.c.; 200 mA
ZD5C080020BSE	Input: 100 V – 240 V; 50 Hz / 60 Hz; Output: 8 V d.c.; 200 mA
ZD5C096025BSE	Input: 100 V – 240 V; 50 Hz / 60 Hz; Output: 9,6 V d.c.; 250 mA
ZD5C110025BSE	Input: 100 V – 240 V; 50 Hz / 60 Hz; Output: 11 V d.c.; 250 mA
ZD5C140025BSE	Input: 100 V – 240 V; 50 Hz / 60 Hz; Output: 14 V d.c.; 250 mA
ZD5C170025BSE	Input: 100 V – 240 V; 50 Hz / 60 Hz; Output: 17 V d.c.; 250 mA
ZD5C200025BSE	Input: 100 V – 240 V; 50 Hz / 60 Hz; Output: 20 V d.c.; 250 mA
ZD006C065020EUE	Input: 100 V – 240 V; 50 / 60 Hz; 0,3 A; Output: 6,5 V d.c. 200 mA
ZD006C065020BSE	Input: 100 V – 240 V; 50 / 60 Hz; 0,3 A; Output: 6,5 V d.c. 200 mA
ZD006C080020EUE	Input: 100 V – 240 V; 50 / 60 Hz; 0,3 A; Output: 8 V d.c. 200 mA
ZD006C080020BSE	Input: 100 V – 240 V; 50 / 60 Hz; 0,3 A; Output: 8 V d.c. 200 mA
ZD006C096025EUE	Input: 100 V – 240 V; 50 / 60 Hz; 0,3 A; Output: 9,6 V d.c. 250 mA
ZD006C096025BSE	Input: 100 V – 240 V; 50 / 60 Hz; 0,3 A; Output: 9,6 V d.c. 250 mA
ZD006C110025EUE	Input: 100 V – 240 V; 50 / 60 Hz; 0,3 A; Output: 11 V d.c. 250 mA
ZD006C110025BSE	Input: 100 V – 240 V; 50 / 60 Hz; 0,3 A; Output: 11 V d.c. 250 mA
ZD006C140025EUE	Input: 100 V – 240 V; 50 / 60 Hz; Output: 14 V d.c. 250 mA
ZD006C140025BSE	Input: 100 V – 240 V; 50 / 60 Hz; Output: 14 V d.c. 250 mA

IEC 60335-2-2			
Clause	Requirement - Test	Result - Remark	Verdict
5	GENERAL CONDITIONS FOR THE TESTS		—
	Tests performed according to clause 5, e.g. nature of supply, sequence of testing, etc.		P
5.2	A new hose is used for each of the tests of 21.101 to 21.105 (IEC 60335-2-2)		N/A
5.101	Current-carrying hoses operating at safety extra-low voltage subjected not to the tests of 21.101 to 21.105 (IEC 60335-2-2)		N/A
6	CLASSIFICATION		—
6.1	Protection against electric shock: Class 0, 0I, I, II, III.....:	Class II	P
	-Vacuum cleaners and water-suction cleaning appliances: class I, II or III (IEC 60335-2-2)	Class II	P
	-Vacuum cleaners for animal grooming: class II or III (IEC 60335-2-2)		N/A
	-Vacuum cleaners may be class 0 provided that their rated voltage does not exceed 150 V(IEC 60335-2-2)		N/A
	Stationary parts of automatic battery-powered cleaners may be class 0 if the rated voltage does not exceed 150 V (IEC 60335-2-2)		N/A
6.2	Protection against harmful ingress of water	IPX4	P
	Vacuum cleaners for animal grooming and water-suction cleaning appliances at least IPX4 (IEC 60335-2-2)		N/A
7	MARKING AND INSTRUCTIONS		—
7.1	Rated voltage or voltage range (V).....:	See general product information	P
	Symbol for nature of supply, or.....:		N/A
	Rated frequency (Hz)	See general product information	P
	Rated power input (W), or	See general product information	P
	Rated current (A)	See general product information	P
	The sum of the rated power input and the maximum load of the appliance outlet (W) ...(IEC 60335-2-2):	See copies of marking plates	P
	Manufacturer's or responsible vendor's name, trademark or identification mark	See general product information	P
	Model or type reference.....:	See general product information	P
	Symbol IEC 60417-5172, for class II appliances		P
	IP number, other than IPX0.....:	IPX4	P

IEC 60335-2-2			
Clause	Requirement - Test	Result - Remark	Verdict
	Symbol IEC 60417-5180, for class III appliances, unless		N/A
	the appliance is operated by batteries only		N/A
	Symbol IEC 60417-5036, for the enclosure of electrically-operated water valves in external hose-sets for connection of an appliance to the water mains, if the working voltage exceeds extra-low voltage		N/A
7.2	Warning for stationary appliances for multiple supply		N/A
	Warning placed in vicinity of terminal cover		N/A
7.3	Range of rated values marked with the lower and upper limits separated by a hyphen		P
	Different rated values marked with the values separated by an oblique stroke		P
7.4	Appliances adjustable for different rated voltages, the voltage setting is clearly discernible		N/A
	Requirement met if frequent changes are not required and the rated voltage to which the appliance is to be adjusted is determined from a wiring diagram		N/A
7.5	Appliances with more than one rated voltage or one or more rated voltage ranges, marked with rated input or rated current for each rated voltage or range, unless		N/A
	the power input is related to the arithmetic mean value of the rated voltage range		N/A
	Relation between marking for upper and lower limits of rated power input or rated current and voltage is clear		N/A
7.6	Correct symbols used		P
	Symbol for nature of supply placed next to rated voltage		N/A
	Symbol for class II appliances placed unlikely to be confused with other marking		P
	Units of physical quantities and their symbols according to international standardized system		P
	Motorized cleaning head for water-suction cleaning (symbol IEC 60417-5935) (IEC 60335-2-2)		N/A
7.7	Connection diagram fixed to appliances to be connected to more than two supply conductors and appliances for multiple supply, unless		N/A
	correct mode of connection is obvious		N/A

IEC 60335-2-2			
Clause	Requirement - Test	Result - Remark	Verdict
7.8	Except for type Z attachment, terminals for connection to the supply mains indicated as follows:		—
	- marking of terminals exclusively for the neutral conductor (letter N)		N/A
	- marking of protective earthing terminals (symbol IEC 60417-5019)		N/A
	- marking not placed on removable parts		N/A
7.9	Marking or placing of switches which may cause a hazard		P
7.10	Indications of switches on stationary appliances and controls on all appliances by use of figures, letters or other visual means	See Annex II – Photo documentation	P
	This applies also to switches which are part of a control		N/A
	If figures are used, the off position indicated by the figure 0		P
	The figure 0 indicates only OFF position, unless no confusion with the OFF position		P
7.11	Indication for direction of adjustment of controls		N/A
7.12	Instructions for safe use provided		P
	Details concerning precautions during user maintenance		P
	The instructions state that:		—
	- the appliance is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction		P
	- children being supervised not to play with the appliance		P
	For a part of class III construction supplied from a detachable power supply unit, the instructions state that the appliance is only to be used with the unit provided		P
	Instructions for class III appliances state that it must only be supplied at SELV, unless		N/A
	it is a battery-operated appliance, the battery being charged outside the appliance		N/A

IEC 60335-2-2			
Clause	Requirement - Test	Result - Remark	Verdict
	Instructions for current-carrying hose operating at other than safety extra-low voltage (IEC 60335-2-2): CAUTION: This hose contains electrical connections: <ul style="list-style-type: none"> do not use to suck up water (for vacuum cleaners only) do not immerse in water for cleaning the hose should be checked regularly and must not be used if damaged 		N/A
	The instructions for vacuum cleaners incorporating rotating brushes or similar devices, and water-suction cleaning appliances, shall state that the plug must be removed from the socket-outlet before cleaning or maintaining the appliance (IEC 60335-2-2)		N/A
	If symbol IEC 60417-5935 is used, its meaning shall be explained (IEC 60335-2-2)		N/A
7.12.1	Sufficient details for installation supplied		P
	For an appliance intended to be permanently connected to the water mains and not connected by a hose-set, this is stated		N/A
7.12.2	Stationary appliances not fitted with means for disconnection from the supply mains having a contact separation in all poles that provide full disconnection under overvoltage category III, the instructions state that means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules		N/A
7.12.3	Insulation of the fixed wiring in contact with parts exceeding 50 K during clause 11; instructions state that the fixed wiring must be protected		N/A
7.12.4	Instructions for built-in appliances:		—
	- dimensions of space		N/A
	- dimensions and position of supporting and fixing		N/A
	- minimum distances between parts and surrounding structure		N/A
	- minimum dimensions of ventilating openings and arrangement		N/A
	- connection to supply mains and interconnection of separate components		N/A
	- allow disconnection of the appliance after installation, by accessible plug or a switch in the fixed wiring, unless		N/A
	a switch complying with 24.3		N/A
7.12.5	Replacement cord instructions, type X attachment with a specially prepared cord		N/A
	Replacement cord instructions, type Y attachment		N/A

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Clause	Requirement - Test	Result - Remark	Verdict
	Replacement cord instructions, type Z attachment		N/A
7.12.6	Caution in the instructions for appliances incorporating a non-self-resetting thermal cut-out that is reset by disconnection of the supply mains, if this cut-out is required to comply with the standard		N/A
7.12.7	Instructions for fixed appliances stating how the appliance is to be fixed		N/A
7.12.8	Instructions for appliances connected to the water mains:		—
	- max. inlet water pressure (Pa):		N/A
	- min. inlet water pressure, if necessary (Pa).....:		N/A
	Instructions concerning new and old hose-sets for appliances connected to the water mains by detachable hose-sets		N/A
7.13	Instructions and other texts in an official language	English and German	P
7.14	Marking clearly legible and durable, rubbing test as specified		P
	Height of symbol 5935 IEC 60417-1 at least 15 mm (mm) (IEC 60335-2-2)		N/A
7.15	Markings on a main part		P
	Marking clearly discernible from the outside, if necessary after removal of a cover		P
	For portable appliances, cover can be removed or opened without a tool		N/A
	For stationary appliances, name, trademark or identification mark and model or type reference visible after installation		N/A
	For fixed appliances, name, trademark or identification mark and model or type reference visible after installation according to the instructions		N/A
	Indications for switches and controls placed on or near the components. Marking not on parts which can be positioned or repositioned in such a way that the marking is misleading		P
7.16	Marking of a possible replaceable thermal link or fuse link clearly visible with regard to replacing the link		N/A

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Clause	Requirement - Test	Result - Remark	Verdict
7.101	Motorized cleaning heads shall be marked with (IEC 60335-2-2)		—
	- rated voltage or rated voltage range (V)		N/A
	- rated power input (W)		N/A
	- name, trade mark or identification mark of manufacturer/responsible vendor		N/A
	- model/type reference		N/A
	Motorized cleaning heads for water-suction cleaning appliances shall be marked with symbol 5935 of IEC 60417-1..... (IEC 60335-2-2)		N/A
7.102	Appliance outlets for accessories marked with maximum load (W)..... (IEC 60335-2-2):		N/A
8	PROTECTION AGAINST ACCESS TO LIVE PARTS		—
8.1	Adequate protection against accidental contact with live parts		P
8.1.1	Requirement applies for all positions, detachable parts removed		P
	Lamps behind a detachable cover not removed, if conditions met		N/A
	Insertion or removal of lamps, protection against contact with live parts of the lamp cap		N/A
	Use of test probe B of IEC 61032, with a force not exceeding 1 N: no contact with live parts	Approved adaptor	P
	Instructions for disconnection before opening (IEC 60335-2-2)		N/A
	Access to live parts prevented by at least basic insulation (IEC 60335-2-2)		N/A
8.1.2	Use of test probe 13 of IEC 61032, with a force not exceeding 1 N, through openings in class 0 appliances and class II appliances/constructions: no contact with live parts		P
	Test probe 13 also applied through openings in earthed metal enclosures having a non-conductive coating: no contact with live parts		N/A
8.1.3	For appliances other than class II, use of test probe 41 of IEC 61032, with a force not exceeding 1 N: no contact with live parts of visible glowing heating elements		N/A
8.1.4	Accessible part not considered live if:		—
	- safety extra-low a.c. voltage: peak value not exceeding 42.4 V		N/A
	- safety extra-low d.c. voltage: not exceeding 42.4 V	Output of power adaptor	P

IEC 60335-2-2			
Clause	Requirement - Test	Result - Remark	Verdict
	- or separated from live parts by protective impedance		N/A
	If protective impedance: d.c. current not exceeding 2 mA, and		P
	a.c. peak value not exceeding 0.7 mA		N/A
	- for peak values over 42.4 V up to and including 450 V, capacitance not exceeding 0,1 μF		N/A
	- for peak values over 450 V up to and including 15 kV, discharge not exceeding 45 μC		N/A
	- for peak values over 15kV, the energy in the discharge not exceeding 350 mJ		N/A
8.1.5	Live parts protected at least by basic insulation before installation or assembly:		—
	- built-in appliances		N/A
	- fixed appliances		N/A
	- appliances delivered in separate units		N/A
8.2	Class II appliances and constructions constructed so that there is adequate protection against accidental contact with basic insulation and metal parts separated from live parts by basic insulation only		P
	Only possible to touch parts separated from live parts by double or reinforced insulation		P
9	STARTING OF MOTOR-OPERATED APPLIANCES		—
	Requirements and tests are specified in part 2 when necessary		N/A
10	POWER INPUT AND CURRENT		—
10.1	Power input at normal operating temperature, rated voltage and normal operation not deviating from rated power input by more than shown in table 1 ...:	(see appended table)	P
	Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless		N/A
	the rated power input is related to the arithmetic mean value		N/A
	Power input of motorized cleaning heads measured separately without booster settings (IEC 60335-2-2)		N/A
10.2	Current at normal operating temperature, rated voltage and normal operation not deviating from rated current by more than shown in table 2		N/A
	Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless		N/A

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Clause	Requirement - Test	Result - Remark	Verdict
	the rated current is related to the arithmetic mean value of the range		N/A
11	HEATING		—
11.1	No excessive temperatures in normal use		P
11.2	The appliance is held, placed or fixed in position as described	Held in normal position	P
11.3	Temperature rises, other than of windings, determined by thermocouples		P
	Temperature rises of windings determined by resistance method, unless		N/A
	the windings are non-uniform or it is difficult to make the necessary connections		P
11.4	Heating appliances operated under normal operation at 1.15 times rated power input (W)		N/A
11.5	Motor-operated appliances operated under normal operation at most unfavourable voltage between 0.94 and 1.06 times rated voltage (V)	(see appended table)	P
	Booster settings activated during test as often as allowed..... (IEC 60335-2-2):		N/A
	Docking stations of automatic battery-powered cleaners are operated at 0,94 or 1,06 times rated voltage, whichever is the most unfavourable		N/A
	If a suction mode is incorporated in docking stations of automatic battery-powered cleaners, the test conditions of 3.1.9 are applied		N/A
11.6	Combined appliances operated under normal operation at most unfavourable voltage between 0.94 and 1.06 times rated voltage (V)		N/A
11.7	Operation duration corresponding to the most unfavourable conditions of normal use	Considered together with the requirements of Annex B Test 1: supplied by its fully charged battery, operated until steady conditions are established; Test 2: battery was charged for 24 h, the battery being initially discharged to such an extent that the appliance cannot operate;	P
	Until steady conditions are established (IEC 60335-2-2)		P

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Clause	Requirement - Test	Result - Remark	Verdict
	Appliances incorporating an automatic cord reel are operated first during 30 min with one third of cord unreeled (IEC 60335-2-2)		N/A
11.8	Temperature rises monitored continuously and not exceeding the values in table 3	(see appended table)	P
	If the temperature rise of a motor winding exceeds the value of table 3, or		N/A
	if there is doubt with regard to classification of insulation,		N/A
	tests of Annex C are carried out		N/A
	Sealing compound does not flow out		N/A
	Protective devices do not operate, except		N/A
	components in protective electronic circuits tested for the number of cycles specified in 24.1.4		N/A
13	LEAKAGE CURRENT AND ELECTRIC STRENGTH AT OPERATING TEMPERATURE		—
13.1	Leakage current not excessive and electric strength adequate		P
	Heating appliances operated at 1.15 times the rated power input (W)		N/A
	Motor-operated appliances and combined appliances supplied at 1.06 times the rated voltage (V)	1,06x240=254,4 V, 1,06x230=243,8 V	P
	Protective impedance and radio interference filters disconnected before carrying out the tests		P
	Booster settings not used (IEC 60335-2-2)		N/A
13.2	For class 0, class II and class III appliances, leakage current measured by means of the circuit described in figure 4 of IEC 60990	(see appended table)	P
	For other appliances, a low impedance ammeter may be used		N/A
	Leakage current measurements	(see appended table)	P
13.3	The appliance is disconnected from the supply		P
	Electric strength tests according to table 4	(see appended table)	P
	No breakdown during the tests		P
14	TRANSIENT OVERVOLTAGES		—
	Appliances withstand the transient over-voltages to which they may be subjected		N/A
	Clearances having a value less than specified in table 16 subjected to an impulse voltage test, the test voltage specified in table 6		N/A

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Clause	Requirement - Test	Result - Remark	Verdict
	No flashover during the test, unless		N/A
	of functional insulation if the appliance complies with clause 19 with the clearance short-circuited		N/A
15	MOISTURE RESISTANCE		—
15.1	Enclosure provides the degree of moisture protection according to classification of the appliance	IPX4	P
	Compliance checked as specified in 15.1.1, taking into account 15.1.2, followed by the electric strength test of 16.3		P
	No trace of water on insulation which can result in a reduction of clearances or creepage distances below values specified in clause 29		P
15.1.1	Appliances, other than IPX0, subjected to tests as specified in IEC 60529.....:	IPX4	P
	Water valves containing live parts in external hoses for connection of an appliance to the water mains tested as specified for IPX7 appliances		N/A
15.1.2	Hand-held appliance turned continuously through the most unfavourable positions during the test		P
	Built-in appliances installed according to the instructions		N/A
	Appliances placed or used on the floor or table placed on a horizontal unperforated support		P
	Appliances normally fixed to a wall and appliances with pins for insertion into socket-outlets are mounted on a wooden board		N/A
	For IPX3 appliances, the base of wall mounted appliances is placed at the same level as the pivot axis of the oscillating tube		N/A
	For IPX4 appliances, the horizontal centre line of the appliance is aligned with the pivot axis of the oscillating tube, and		P
	for appliances normally used on the floor or table, the movement is limited to two times 90° for a period of 5 min, the support being placed at the level of the pivot axis of the oscillating tube		N/A
	Wall-mounted appliances, take into account the distance to the floor stated in the instructions		N/A
	Appliances normally fixed to a ceiling are mounted underneath a horizontal unperforated support, the pivot axis of the oscillating tube located at the level of the underside of the support, and		N/A

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Clause	Requirement - Test	Result - Remark	Verdict
	for IPX4 appliances, the movement of the tube is limited to two times 90° from the vertical for a period of 5 min		P
	Appliances with type X attachment fitted with a flexible cord as described		N/A
	Detachable parts subjected to the relevant treatment with the main part		P
	However, if a part has to be removed for user maintenance and a tool is needed, this part is not removed		P
15.2	Spillage of liquid due to overfilling, and due to overturning of appliances liable to be overturned in normal use does not affect the electrical insulation in normal use and, (IEC 60335-2-2)		N/A
	Appliances with type X attachment fitted with the lightest flexible cord of the smallest cross-sectional area specified in table 13 (IEC 60335-2-2)		N/A
	Appliances incorporating an appliance inlet tested with or without a connector in position, whichever is most unfavourable (IEC 60335-2-2)		N/A
	Overfilling test with additional amount of water, over a period of 1 min (l) (IEC 60335-2-2)		N/A
	Containers of hand-held appliances and other appliances liable to be overturned in normal use are completely filled, the cover being closed. The appliance is then overturned and left in that position for 5 min, unless it returns automatically to its normal position of use. (IEC 60335-2-2)		N/A
	Operation of water suction cleaning appliance until its liquid container is completely full and for a further 5 min, with nozzle placed in a container with a detergent solution (IEC 60335-2-2)		N/A
	The appliance withstands the electric strength test of 16.3 (IEC 60335-2-2)		N/A
	No trace of liquid on insulation that can result in a reduction of clearances and creepage distances below values specified in clause 29 (IEC 60335-2-2)		N/A
15.3	Appliances proof against humid conditions		P
	Checked by test Cab: Damp heat steady state in IEC 60068-2-78		P
	Detachable parts removed and subjected, if necessary, to the humidity test with the main part		P
	Humidity test for 48 h in a humidity cabinet	25 °C, 93 % R.H.	P

IEC 60335-2-2			
Clause	Requirement - Test	Result - Remark	Verdict
	Reassembly of those parts that may have been removed		P
	The appliance withstands the tests of clause 16		P
15.101	Motorized cleaning heads of water-suction cleaning appliances resist contacting liquids (IEC 60335-2-2)		N/A
	Impact test according to IEC 60068-2-75, impact being 2 J (IEC 60335-2-2)		N/A
	Free-fall test according IEC 60068-2-32, dropped 4000 times (IEC 60335-2-2)		N/A
	Motorized cleaning head subjected to test 14.2.7 as specified in IEC 60529 (IEC 60335-2-2)		N/A
	The appliance withstands the electric strength test of 16.3 (IEC 60335-2-2)		N/A
	No trace of liquid on insulation that can result in a reduction of clearances and creepage distances below values specified in clause 29 (IEC 60335-2-2)		N/A
16	LEAKAGE CURRENT AND ELECTRIC STRENGTH		—
16.1	Leakage current not excessive and electric strength adequate		P
	Protective impedance disconnected from live parts before carrying out the tests		P
	Tests carried out at room temperature and not connected to the supply		P
16.2	Single-phase appliances: test voltage 1.06 times rated voltage (V)	1,06x240=254,4 V, 1,06x230=243,8 V	P
	Three-phase appliances: test voltage 1.06 times rated voltage divided by $\sqrt{3}$ (V)		N/A
	Leakage current measurements	(see appended table)	P
	Limit values doubled if:		—
	- all controls have an off position in all poles, or		N/A
	- the appliance has no control other than a thermal cut-out, or		N/A
	- all thermostats, temperature limiters and energy regulators do not have an off position, or		N/A
	- the appliance has radio interference filters		N/A
	With the radio interference filters disconnected, the leakage current do not exceed limits specified.....:		N/A
16.3	Electric strength tests according to table 7.....:	(see appended table)	P
	Test voltage applied between the supply cord and inlet bushing and cord guard and cord anchorage as specified.....:		N/A

IEC 60335-2-2			
Clause	Requirement - Test	Result - Remark	Verdict
	Tests for current-carrying hoses immersed for 1 h (IEC 60335-2-2)		N/A
	- electric strength test 2000 V		N/A
	- electric strength test 3000 V		N/A
	No breakdown during the tests		N/A
17	OVERLOAD PROTECTION OF TRANSFORMERS AND ASSOCIATED CIRCUITS		—
	No excessive temperatures in transformer or associated circuits in event of short-circuits likely to occur in normal use	Approved adaptor	P
	Appliance supplied with 1.06 or 0.94 times rated voltage under the most unfavourable short-circuit or overload likely to occur in normal use (V).....		N/A
	Basic insulation is not short-circuited		N/A
	Temperature rise of insulation of the conductors of safety extra-low voltage circuits not exceeding the relevant value specified in table 3 by more than 15 K		N/A
	Temperature of the winding not exceeding the value specified in table 8		N/A
	However, limits do not apply to fail-safe transformers complying with sub-clause 15.5 of IEC 61558-1		N/A
18	ENDURANCE		—
	Requirements and tests are specified in part 2 when necessary		N/A
19	ABNORMAL OPERATION		—
19.1	The risk of fire, mechanical damage or electric shock under abnormal or careless operation obviated		P
	Electronic circuits so designed and applied that a fault will not render the appliance unsafe	(see appended table)	P
	Appliances incorporating heating elements subjected to the tests of 19.2 and 19.3, and		N/A
	if the appliance also has a control that limit the temperature during clause 11 it is subjected to the test of 19.4, and		N/A
	if applicable, to the test of 19.5		N/A
	Appliances incorporating PTC heating elements are also subjected to the test of 19.6		N/A
	Appliances incorporating motors subjected to the tests of 19.7 to 19.10, as applicable		N/A

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Clause	Requirement - Test	Result - Remark	Verdict
	Appliances incorporating electronic circuits subjected to the tests of 19.11 and 19.12, as applicable		N/A
	Appliances incorporating contactors or relays subjected to the test of 19.14, being carried out before the tests of 19.11		N/A
	Appliances incorporating voltage selector switches subjected to the test of 19.15		N/A
	Unless otherwise specified, the tests are continued until a non-self-resetting thermal cut-out operates, or		N/A
	until steady conditions are established		N/A
	If a heating element or intentionally weak part becomes open-circuited, the relevant test is repeated on a second sample		N/A
	The test of 19.7 is only carried out on motorized cleaning heads and separate fan motors of centrally-sited vacuum cleaners (IEC 60335-2-2)		N/A
	Water-suction cleaning appliances having a valve are also subjected to the test of 19.101 (IEC 60335-2-2)		N/A
	Appliances incorporating a booster setting that is not deactivated electronically, are also subjected to the test of 19.102 (IEC 60335-2-2)		N/A
	Centrally-sited vacuum cleaners are also subjected to the tests of 19.103, and 19.104 if applicable (IEC 60335-2-2)		N/A
19.2	Test of appliances with heating elements with restricted heat dissipation; test voltage (V), power input of 0.85 times rated power input (W)		N/A
19.3	Test of 19.2 repeated; test voltage (V), power input of 1.24 times rated power input (W)		N/A
19.4	Test conditions as in clause 11, any control limiting the temperature during tests of clause 11 short-circuited		N/A
19.5	Test of 19.4 repeated on Class 0I and I appliances with tubular sheathed or embedded heating elements. No short-circuiting, but one end of the element connected to the sheath		N/A
	The test repeated with reversed polarity and the other end of the heating element connected to the sheath		N/A

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Clause	Requirement - Test	Result - Remark	Verdict
	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		N/A
19.6	Appliances with PTC heating elements tested at rated voltage, establishing steady conditions		N/A
	The working voltage of the PTC heating element is increased by 5% and the appliance is operated until steady conditions are re-established. The voltage is then increased in similar steps until 1.5 times working voltage or until the PTC heating element ruptures (V).....:		N/A
19.7	Stalling test by locking the rotor if the locked rotor torque is smaller than the full load torque, or		N/A
	locking moving parts of other appliances		N/A
	Locked rotor, capacitors open-circuited one at a time		N/A
	Test repeated with capacitors short-circuited one at a time, unless		N/A
	capacitor is of class P2 of IEC 60252-1		N/A
	Appliances with timer or programmer supplied with rated voltage for each of the tests, for a period equal to the maximum period allowed.....:		N/A
	Other appliances supplied with rated voltage for a period as specified.....:		N/A
	Winding temperatures not exceeding values specified in table 8.....:		N/A
	Motorized cleaning heads with rotating brush or similar device locked for 30 s (IEC 60335-2-2)		N/A
	Separate fan motors of centrally-sited vacuum cleaners are operated until steady conditions are reached (IEC 60335-2-2)		N/A
19.8	Multi-phase motors operated at rated voltage with one phase disconnected		N/A
19.9	Docking stations of automatic battery-powered cleaners incorporating a suction mode are tested at rated voltage with the air inlet fully blocked until steady conditions are established (IEC 60335-2-2)		N/A
	The temperatures of the windings shall not exceed the values specified in Table 8 (IEC 60335-2-2)		N/A
19.10	Series motors operated at 1,3 times rated voltage for 30 s with the air inlet blocked, rotating brushes and similar devices being removed..... (IEC 60335-2-2)		N/A

IEC 60335-2-2			
Clause	Requirement - Test	Result - Remark	Verdict
	Safety not impaired, windings and connections have not worked loose (IEC 60335-2-2)		N/A
19.11	Electronic circuits, compliance checked by evaluation of the fault conditions specified in 19.11.2 for all circuits or parts of circuits, unless		P
	they comply with the conditions specified in 19.11.1		P
	Appliances incorporating an electronic circuit that relies upon a programmable component to function correctly, subjected to the test of 19.11.4.8, unless		N/A
	restarting does not result in a hazard		N/A
	Appliances having a device with an off position obtained by electronic disconnection, or a device placing the appliance in a stand-by mode, subjected to the tests of 19.11.4		N/A
	If the safety of the appliance under any of the fault conditions depends on the operation of a miniature fuse-link complying with IEC 60127, the test of 19.12 is carried out		N/A
	During and after each test the following is checked:		—
	- the temperature of the windings do not exceed the values specified in table 8		N/A
	- the appliance complies with the conditions specified in 19.13		P
	- any current flowing through protective impedance not exceeding the limits specified in 8.1.4		N/A
	If a conductor of a printed board becomes open-circuited, the appliance is considered to have withstood the particular test, provided both of the following conditions are met:		—
	- the base material of the printed circuit board withstands the test of Annex E		N/A
	- any loosened conductor does not reduce clearance or creepage distances between live parts and accessible metal parts below the values specified in clause 29		N/A
19.11.1	Fault conditions a) to g) in 19.11.2 are not applied to circuits or parts of circuits meeting both of the following conditions:		—
	- the electronic circuit is a low-power circuit, that is, the maximum power at low-power points does not exceed 15 W according to the tests specified		P
	- the protection against electric shock, fire hazard, mechanical hazard or dangerous malfunction of other parts of the appliance does not rely on the correct functioning of the electronic circuit		P

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Clause	Requirement - Test	Result - Remark	Verdict
19.11.2	Fault conditions applied one at a time, the appliance operating under conditions specified in clause 11, but supplied at rated voltage, duration of the tests as specified:		—
	a) short circuit of functional insulation if clearances or creepage distances are less than the values specified in clause 29		N/A
	b) open circuit at the terminals of any component		P
	c) short circuit of capacitors, unless		N/A
	they comply with IEC 60384-14		N/A
	d) short circuit of any two terminals of an electronic component, other than integrated circuits		P
	This fault condition is not applied between the two circuits of an optocoupler		N/A
	e) failure of triacs in the diode mode		N/A
	f) failure of microprocessors and integrated circuits		P
	g) failure of an electronic power switching device		N/A
	Each low power circuit is short-circuited by connecting the low-power point to the pole of the supply source from which the measurements were made		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 g) of 19.11.2		N/A
19.11.4	Appliances having a device with an off position obtained by electronic disconnection, or		N/A
	a device that can be placed in the stand-by mode,		N/A
	subjected to the tests of 19.11.4.1 to 19.11.4.7, the device being set in the off position or in the stand-by mode		N/A
	Appliances incorporating a protective electronic circuit subjected to the tests of 19.11.4.1 to 19.11.4.7, the tests being carried out after the protective electronic circuit has operated, except that		N/A
	appliances operated for 30 s or 5 min during the test of 19.7 are not subjected to the tests for electromagnetic phenomena.		N/A
	Surge protective devices disconnected, unless		N/A
	They incorporate spark gaps		N/A
19.11.4.1	The appliance is subjected to electrostatic discharges in accordance with IEC 61000-4-2, test level 4		N/A

IEC 60335-2-2			
Clause	Requirement - Test	Result - Remark	Verdict
19.11.4.2	The appliance is subjected to radiated fields in accordance with IEC 61000-4-3, test level 3		N/A
19.11.4.3	The appliance is subjected to fast transient bursts in accordance with IEC 61000-4-4, test level 3 or 4 as specified		N/A
19.11.4.4	The power supply terminals of the appliance subjected to voltage surges in accordance with IEC 61000-4-5, test level 3 or 4 as specified		N/A
	Earthed heating elements in class I appliances disconnected		N/A
19.11.4.5	The appliance is subjected to injected currents in accordance with IEC 61000-4-6, test level 3		N/A
19.11.4.6	Appliances having a rated current not exceeding 16 A are subjected to the Class 3 voltage dips and interruptions in accordance with IEC 61000-4-11		N/A
	Appliances having a rated current exceeding 16 A are subjected to the Class 3 voltage dips and interruptions in accordance with IEC 61000-4-34		N/A
19.11.4.7	The appliance is subjected to mains signals in accordance with IEC 61000-4-13, test level class 2		N/A
19.11.4.8	The appliance is supplied at rated voltage and operated under normal operation. After 60s the power supply is reduced to a level such that the appliance ceases to respond or parts controlled by the programmable component cease to operate		N/A
	The appliance continues to operate normally, or		N/A
	requires a manual operation to restart		N/A
19.12	If the safety of the appliance for any of the fault conditions specified in 19.11.2 depends on the operation of a miniature fuse-link complying with IEC 60127, the test is repeated, measuring the current flowing through the fuse-link; measured current (A); rated current of the fuse-link (A).....:		N/A
19.13	During the tests the appliance does not emit flames, molten metal, poisonous or ignitable gas in hazardous amounts		P
	Temperature rises not exceeding the values shown in table 9	(see appended table)	N/A
	Compliance with clause 8 not impaired		P
	If the appliance can still be operated it complies with 20.2		P
	Insulation, other than of class III appliances or class III constructions that do not contain live parts, withstands the electric strength test of 16.3, the test voltage as specified in table 4:		—

IEC 60335-2-2			
Clause	Requirement - Test	Result - Remark	Verdict
	- basic insulation (V)		N/A
	- supplementary insulation (V)		N/A
	- reinforced insulation (V)	3000 V	P
	After operation or interruption of a control, clearances and creepage distances across the functional insulation withstand the electric strength test of 16.3, the test voltage being twice the working voltage		P
	The appliance does not undergo a dangerous malfunction, and		P
	no failure of protective electronic circuits, if the appliance is still operable		N/A
	Appliances tested with an electronic switch in the off position, or in the stand-by mode:		—
	- do not become operational, or		N/A
	- if they become operational, do not result in a dangerous malfunction during or after the tests of 19.11.4		N/A
	If the appliance contains lids or doors that are controlled by one or more interlocks, one of the interlocks may be released provided that:		—
	- the lid or door does not move automatically to an open position when the interlock is released, and		N/A
	- the appliance does not start after the cycle in which the interlock was released		N/A
19.14	Appliances operated under the conditions of clause 11, any contactor or relay contact operating under the conditions of clause 11 being short-circuited		N/A
	For a relay or contactor with more than one contact, all contacts are short-circuited at the same time		N/A
	A relay or contactor operating only to ensure the appliance is energized for normal use is not short-circuited		N/A
	If more than one relay or contactor operates in clause 11, they are short-circuited in turn		N/A
19.15	For appliances with a mains voltage selector switch, the switch is set to the lowest rated voltage position and the highest value of rated voltage is applied		N/A

IEC 60335-2-2			
Clause	Requirement - Test	Result - Remark	Verdict
19.101	Operation of water-suction cleaning appliances as specified..... (IEC 60335-2-2)		N/A
19.102	Operation of booster setting as specified (IEC 60335-2-2)		N/A
19.103	Centrally-sited vacuum cleaners are operated with the inlet for suction hose open and closed (IEC 60335-2-2)		N/A
	Temperatures of windings not exceeding values specified in 19.9 (IEC 60335-2-2)		N/A
19.104	Central-sited vacuum cleaners with separate ventilation for the motor are operated with the airflow through the motor blocked (IEC 60335-2-2)		N/A
20	STABILITY AND MECHANICAL HAZARDS		—
20.1	Appliances having adequate stability	Vacuum cleaner with charging stand	P
	Tilting test through an angle of 10°, appliance placed on an inclined plane/horizontal support, not connected to the supply mains; appliance does not overturn		P
	Tilting test repeated on appliances with heating elements, angle of inclination increased to 15°		N/A
	Possible heating test in overturned position; temperature rise does not exceed values shown in table 9		N/A
20.2	Moving parts adequately arranged or enclosed as to provide protection against personal injury		P
	Protective enclosures, guards and similar parts are non-detachable, and		P
	have adequate mechanical strength		P
	Enclosures that can be opened by overriding an interlock are considered to be detachable parts		N/A
	Self-resetting thermal cut-outs and overcurrent protective devices not causing a hazard by unexpected closure		N/A
	Not possible to touch dangerous moving parts with the test probe described		P
21	MECHANICAL STRENGTH		—
21.1	Appliance has adequate mechanical strength and is constructed as to withstand rough handling		P
	Checked by applying 3 blows to every point of the enclosure like to be weak, in accordance with test Ehb of IEC 60068-2-75, spring hammer test, with an impact energy of 0,5 J		P

IEC 60335-2-2			
Clause	Requirement - Test	Result - Remark	Verdict
	The appliance shows no damage impairing compliance with this standard, and		P
	compliance with 8.1, 15.1 and clause 29 not impaired		P
	If doubt, supplementary or reinforced insulation subjected to the electric strength test of 16.3		N/A
	If necessary, repetition of groups of three blows on a new sample		N/A
21.2	Accessible parts of solid insulation having strength to prevent penetration by sharp implements		P
	Test not applicable if the thickness of supplementary insulation is at least 1 mm and reinforced insulation at least 2 mm	Approved adaptor	P
	The insulation is tested as specified, and does withstand the electric strength test of 16.3		N/A
21.101	Current-carrying hoses resistant to crushing test (1,5 kN) (IEC 60335-2-2)		N/A
	Electric strength test of 16.3 carried out between conductors connected together and the saline solution		N/A
21.102	Current-carrying hoses resistant to abrasion (IEC 60335-2-2)		—
	100 revolutions of crank		N/A
	Basic insulation is not exposed		N/A
	Electric strength test of 16.3 is carried out between conductors connected together and the saline solution		N/A
21.103	Current-carrying hoses resistant to flexing test (IEC 60335-2-2)		—
	Hose withstands electric strength test of 16.3		N/A
21.104	Current-carrying hoses resistant to torsion test (IEC 60335-2-2)		—
	Test carried out for 2000 cycles		N/A
	No damage to such extent that compliance with standard is impaired		N/A
21.105	Current-carrying hoses resistant to cold conditions test (IEC 60335-2-2)		—
	Test carried out 3 times		N/A
	No cracks or breaks in hose and it withstands electric strength test of 16.3		N/A
22	CONSTRUCTION		—
22.1	Appliance marked with the first numeral of the IP system, relevant requirements of IEC 60529 are fulfilled		N/A

IEC 60335-2-2			
Clause	Requirement - Test	Result - Remark	Verdict
22.2	Stationary appliance: means to ensure all-pole disconnection from the supply being provided:		—
	- a supply cord fitted with a plug, or		N/A
	- a switch complying with 24.3, or		N/A
	- a statement in the instruction sheet that a disconnection incorporated in the fixed wiring is to be provided, or		N/A
	- an appliance inlet		N/A
	Singe-pole switches and single-pole protective devices for the disconnection of heating elements in single-phase, permanently connected class 01 and class I appliances, connected to the phase conductor		N/A
22.3	Appliance provided with pins: no undue strain on socket-outlets	Approved adaptor	P
	Applied torque not exceeding 0.25 Nm		P
	Pull force of 50N to each pin after the appliance has being placed in the heating cabinet; when cooled to room temperature the pins are not displaced by more than 1mm		P
	Each pin subjected to a torque of 0.4Nm; the pins are not rotating, unless		P
	rotating does not impair compliance with this standard		N/A
22.4	Appliance for heating liquids and appliance causing undue vibration not provided with pins for insertion into socket-outlets		N/A
22.5	No risk of electric shock when touching the pins of the plug, for appliances having a capacitor with rated capacitance exceeding 0,1µF, the appliance being disconnected from the supply at the instant of voltage peak		P
	Voltage not exceeding 34 V (V).....:	Max. not exceeding 34 V	P
22.6	Electrical insulation not affected by condensing water or leaking liquid		N/A
	Electrical insulation of Class II appliances not affected if a hose ruptures or seal leaks		N/A
	In case of doubt, test as described		N/A
22.7	Adequate safeguards against the risk of excessive pressure in appliances containing liquid or gases or having steam-producing devices		N/A

IEC 60335-2-2			
Clause	Requirement - Test	Result - Remark	Verdict
22.8	Electrical connections not subject to pulling during cleaning of compartments to which access can be gained without the aid of a tool, and that are likely to be cleaned in normal use		N/A
22.9	Insulation, internal wiring, windings, commutators and slip rings not exposed to oil, grease or similar substances, unless		P
	the substance has adequate insulating properties		N/A
22.10	Not possible to reset voltage-maintained non-self-resetting thermal cut-outs by the operation of an automatic switching device incorporated within the appliance, if:		N/A
	- a non-self-resetting thermal cut-out is required by the standard, and		N/A
	- a voltage maintained non-self-resetting thermal cut-out is used to meet it		N/A
	Non-self-resetting thermal motor protectors have a trip-free action, unless		N/A
	they are voltage maintained		N/A
	Reset buttons of non-self-resetting controls so located or protected that accidental resetting is unlikely		N/A
22.11	Reliable fixing of non-detachable parts that provide the necessary degree of protection against electric shock, moisture or contact with moving parts		P
	Obvious locked position of snap-in devices used for fixing such parts		N/A
	No deterioration of the fixing properties of snap-in devices used in parts that are likely to be removed during installation or servicing		N/A
	Tests as described	Pull=30 N and push=50 N to switch button, pull and push=50 N to other parts	P
22.12	Handles, knobs etc. fixed in a reliable manner		P
	Fixing in wrong position of handles, knobs etc. indicating position of switches or similar components not possible		P
	Axial force 15 N applied to parts, the shape being so that an axial pull is unlikely to be applied		N/A
	Axial force 30 N applied to parts, the shape being so that an axial pull is likely to be applied	Handle	P

IEC 60335-2-2			
Clause	Requirement - Test	Result - Remark	Verdict
22.13	Unlikely that handles, when gripped as in normal use, make the operator's hand touch parts having a temperature rise exceeding the value specified for handles which are held for short periods only		P
22.14	No ragged or sharp edges creating a hazard for the user in normal use, or during user maintenance		P
	No exposed pointed ends of self-tapping screws or other fasteners, likely to be touched by the user in normal use or during user maintenance		P
22.15	Storage hooks and the like for flexible cords smooth and well rounded		N/A
22.16	Automatic cord reels cause no undue abrasion or damage to the sheath of the flexible cord, no breakage of conductors strands and no undue wear of contacts		N/A
	Cord reel tested with 6000 operations, as specified		N/A
	Electric strength test of 16.3, voltage of 1000 V applied		N/A
22.17	Spacers not removable from the outside by hand or by means of a screwdriver or a spanner		N/A
22.18	Current-carrying parts and other metal parts resistant to corrosion		P
22.19	Driving belts not relied upon to provide the required level of insulation, unless		N/A
	constructed to prevent inappropriate replacement		N/A
22.20	Direct contact between live parts and thermal insulation effectively prevented, unless		N/A
	material used is non-corrosive, non-hygroscopic and non-combustible		N/A
22.21	Wood, cotton, silk, ordinary paper and fibrous or hygroscopic material not used as insulation, unless		P
	impregnated		N/A
	This requirement does not apply to magnesium oxide and mineral ceramic fibres used for the electrical insulation of heating elements		N/A
22.22	Appliances not containing asbestos		P
22.23	Oils containing polychlorinated biphenyl (PCB) not used		P
22.24	Bare heating elements, except in class III appliances or class III constructions that do not contain live parts, adequately supported		N/A
	In case of rupture, the heating conductor is unlikely to come in contact with accessible metal parts		N/A

IEC 60335-2-2			
Clause	Requirement - Test	Result - Remark	Verdict
22.25	Sagging heating conductors, except in class III appliances or class III constructions that do not contain live parts, cannot come into contact with accessible metal parts		N/A
22.26	For class III constructions the insulation between parts operating at safety extra-low voltage and other live parts complies with the requirements for double or reinforced insulation	Approved adaptor	P
22.27	Parts connected by protective impedance separated by double or reinforced insulation		P
22.28	Metal parts of Class II appliances conductively connected to gas pipes or in contact with water, separated from live parts by double or reinforced insulation		N/A
22.29	Class II appliances permanently connected to fixed wiring so constructed that the required degree of access to live parts is maintained after installation		N/A
22.30	Parts serving as supplementary or reinforced insulation fixed so that they cannot be removed without being seriously damaged, or	Approved adaptor	P
	so constructed that they cannot be replaced in an incorrect position, and so that if they are omitted, the appliance is rendered inoperable or manifestly incomplete		N/A
22.31	Neither clearances nor creepage distances over supplementary and reinforced insulation reduced below values specified in clause 29 as a result of wear	Approved adaptor	P
	Neither clearances nor creepage distances between live parts and accessible parts reduced below values for supplementary insulation if wires, screws etc. become loose		P
22.32	Supplementary and reinforced insulation constructed or protected against pollution so that clearances or creepage distances are not reduced below the values in clause 29		P
	Supplementary insulation of natural or synthetic rubber resistant to ageing, or arranged and dimensioned so that creepage distances are not reduced below values specified in 29.2		N/A
	Ceramic material not tightly sintered, similar materials or beads alone not used as supplementary or reinforced insulation		N/A
	Insulating material in which heating conductors are embedded is considered to be basic insulation, not reinforced insulation		N/A

IEC 60335-2-2			
Clause	Requirement - Test	Result - Remark	Verdict
	Oxygen bomb test at 70 °C for 96 h and 16 h at room temperature		N/A
	Vacuum cleaners constructed so that internal parts of motors and electrical connections protected against deposition of dust due to passage of air (IEC 60335-2-2)		P
22.33	Conductive liquids that are or may become accessible in normal use and conductive liquids that are in contact with unearthed accessible metal parts are not in direct contact with live parts		N/A
	Electrodes not used for heating liquids		N/A
	For class II constructions, conductive liquids that are or may become accessible in normal use and conductive liquids that are in contact with unearthed accessible metal parts, not in direct contact with basic or reinforced insulation, unless		N/A
	the reinforced insulation consists of at least 3 layers		N/A
	For class II constructions, conductive liquids which are in contact with live parts, not in direct contact with reinforced insulation, unless		N/A
	the reinforced insulation consists of at least 3 layers		N/A
	An air layer not used as basic or supplementary insulation in a double insulation system if likely to be bridged by leaking liquid		N/A
22.34	Shafts of operating knobs, handles, levers etc. not live, unless		N/A
	the shaft is not accessible when the part is removed		N/A
22.35	For other than class III constructions, handles, levers and knobs, held or actuated in normal use, not becoming live in the event of a failure of basic insulation		N/A
	Such parts being of metal, and their shafts or fixings are likely to become live in the event of a failure of basic insulation, are either adequately covered by insulation material or their accessible parts are separated from their shafts or fixings by supplementary insulation		N/A
	This requirement does not apply to handles, levers and knobs on stationary appliances, other than those of electrical components, provided they are reliably connected to an earthing terminal or earthing contact, or separated from live parts by earthed metal		N/A
	Insulating material covering metal handles, levers and knobs withstand the electric strength test of 16.3 for supplementary insulation		P

IEC 60335-2-2			
Clause	Requirement - Test	Result - Remark	Verdict
22.36	For appliances other than class III, handles continuously held in the hand in normal use so constructed that when gripped as in normal use, the operators hand is not likely to touch metal parts, unless		N/A
	they are separated from live parts by double or reinforced insulation		N/A
22.37	Capacitors in Class II appliances not connected to accessible metal parts and their casings, if of metal, separated from accessible metal parts by supplementary insulation, unless		N/A
	the capacitors comply with 22.42		N/A
22.38	Capacitors not connected between the contacts of a thermal cut-out		N/A
22.39	Lamp holders used only for the connection of lamps		N/A
22.40	Motor-operated appliances and combined appliances intended to be moved while in operation, or having accessible moving parts, fitted with a switch to control the motor. The actuating member of the switch being easily visible and accessible		P
	If the appliance cannot operate continuously, automatically or remotely without giving rise to a hazard, appliances for remote operation being fitted with a switch for stopping the operation. The actuating member of the switch being easily visible and accessible		N/A
22.41	No components, other than lamps, containing mercury		P
22.42	Protective impedance consisting of at least two separate components	Two Y2 capacitor in adaptor	P
	Values specified in 8.1.4 not exceeded if any one of the components are short-circuited or open-circuited		P
	Resistors checked by the test of 14.1 a) in IEC 60065		N/A
	Capacitors checked by the tests for class Y capacitors in IEC 60384-14		P
22.43	Appliances adjustable for different voltages, accidental changing of the setting of the voltage unlikely to occur		N/A
22.44	Appliances not having an enclosure that is shaped or decorated like a toy		P

IEC 60335-2-2			
Clause	Requirement - Test	Result - Remark	Verdict
22.45	When air is used as reinforced insulation, clearances not reduced below the values specified in 29.1.3 due to deformation as a result of an external force applied to the enclosure		P
22.46	For programmable protective electronic circuits used to ensure compliance with the standard, the software contains measures to control the fault/error conditions in table R.1		N/A
	Software that contains measures to control the fault/error conditions specified in table R.2 is to be specified in parts 2 for particular constructions or to address specific hazards		N/A
	These requirements are not applicable to software used for functional purpose or compliance with clause 11		N/A
22.47	Appliances connected to the water mains withstand the water pressure expected in normal use		N/A
	No leakage from any part, including any inlet water hose		N/A
22.48	Appliances connected to the water mains constructed to prevent backsiphonage of non-potable water		N/A
22.49	For remote operation, the duration of operation is to be set before the appliance can be started, unless		N/A
	the appliance switches off automatically or can operate continuously without hazard		N/A
22.50	Controls incorporated in the appliance take priority over controls actuated by remote operation		N/A
22.51	There is a control on the appliance manually adjusted to the setting for remote operation before the appliance can be operated in this mode		N/A
	There is a visual indication showing that the appliance is adjusted for remote operation		N/A
	These requirements not necessary on appliances that can operate as follows, without giving rise to a hazard:		—
	- continuously, or		N/A
	- automatically, or		N/A
	- remotely		N/A
22.52	Socket-outlets on appliances accessible to the user in accordance with the socket-outlet system used in the country in which the appliance is sold		N/A

IEC 60335-2-2			
Clause	Requirement - Test	Result - Remark	Verdict
22.101	Motorized cleaning heads for use with appliances that have a water-suction cleaning mode, except those of class III construction having a working voltage up to 24 V, shall be motorized cleaning heads for water-suction cleaning appliances (IEC 60335-2-2)		N/A
23	INTERNAL WIRING		—
23.1	Wireways smooth and free from sharp edges		P
	Wires protected against contact with burrs, cooling fins etc.		P
	Wire holes in metal well-rounded or provided with bushings		N/A
	Wiring effectively prevented from coming into contact with moving parts		P
23.2	Beads etc. on live wires cannot change their position, and are not resting on sharp edges		N/A
	Beads inside flexible metal conduits contained within an insulating sleeve		N/A
23.3	Electrical connections and internal conductors movable relatively to each other not exposed to undue stress		N/A
	Flexible metallic tubes not causing damage to insulation of conductors		N/A
	Open-coil springs not used		N/A
	Adequate insulating lining provided inside a coiled spring, the turns of which touch one another		N/A
	No damage after 10 000 flexings for conductors flexed during normal use, or		N/A
	100 flexings for conductors flexed during user maintenance		N/A
	Electric strength test of 16.3, 1000 V between live parts and accessible metal parts		N/A
	Not more than 10% of the strands of any conductor broken, and		N/A
	not more than 30% for wiring supplying circuits that consume no more than 15W		N/A
23.4	Bare internal wiring sufficiently rigid and fixed		N/A
23.5	The insulation of internal wiring subjected to the supply mains voltage withstanding the electrical stress likely to occur in normal use		P

IEC 60335-2-2			
Clause	Requirement - Test	Result - Remark	Verdict
	Basic insulation electrically equivalent to the basic insulation of cords complying with IEC 60227 or IEC 60245, or		N/A
	no breakdown when a voltage of 2000 V is applied for 15 min between the conductor and metal foil wrapped around the insulation		P
23.6	Sleeving used as supplementary insulation on internal wiring retained in position by clamping at both ends, or		N/A
	be such that it can only be removed by breaking or cutting		N/A
23.7	The colour combination green/yellow only used for earthing conductors		N/A
23.8	Aluminium wires not used for internal wiring		N/A
23.9	Stranded conductors not consolidated by soldering where they are subjected to contact pressure, unless		P
	the contact pressure is provided by spring terminals		N/A
23.10	The insulation and sheath of internal wiring, incorporated in external hoses for the connection of an appliance to the water mains, at least equivalent to that of light polyvinyl chloride sheathed flexible cord (60227 IEC 52)		N/A
24	COMPONENTS		—
24.1	Components comply with safety requirements in relevant IEC standards		P
	List of components	(see appended table)	P
	If components have not been tested and found to comply with relevant IEC standard for the number of cycles specified, they are tested in accordance with 24.1.1 to 24.1.9		P
	For components mentioned in 24.1.1 to 24.1.9 no additional tests specified in the relevant component standard are necessary other than those specified in 24.1.1 to 24.1.9		P
	Components not tested and found to comply with relevant IEC standard and components not marked or not used in accordance with its marking, tested under the conditions occurring in the appliance		P
	Lampholders and starterholders that have not being tested and found to comply with the relevant IEC standard, tested as a part of the appliance and additionally according to the gauging and interchangeability requirements of the relevant IEC standard		N/A

IEC 60335-2-2			
Clause	Requirement - Test	Result - Remark	Verdict
	No additional tests specified for nationally standardized plugs such as those detailed in IEC/TR 60083 or connectors complying with the standard sheets of IEC 60320-1 and IEC 60309		N/A
24.1.1	Capacitors likely to be permanently subjected to the supply voltage and used for radio interference suppression or for voltage dividing, complying with IEC 60384-14		N/A
	If the capacitors have to be tested, they are tested according to Annex F		N/A
24.1.2	Safety isolating transformers complying with IEC 61558-2-6	Approved adaptor	P
	If they have to be tested, they are tested according to Annex G		N/A
24.1.3	Switches complying with IEC 61058-1, the number of cycles of operation being at least 10 000		N/A
	If they have to be tested, they are tested according to Annex H		P
	If the switch operates a relay or contactor, the complete switching system is subjected to the test		N/A
	If the switch only operates a motor starting relay complying with IEC 60730-2-10 with the number of cycles of a least 10 000 as specified, the complete switching system need not be tested		N/A
	Switches incorporated in vacuum cleaners, other than for household use only, tested for 50 000 cycles of operation (IEC 60335-2-2)		N/A
24.1.4	Automatic controls complying with IEC 60730-1 with the relevant part 2. The number of cycles of operation being at least:		—
	- 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: 1 000		N/A
	- other non-self-resetting thermal cut-outs: 30		N/A
	- timers: 3 000		N/A
	- energy regulators: 10 000		N/A
	The number of cycles for controls operating during clause 11 need not be declared, if the appliance meets the requirements of this standard when they are short-circuited		N/A

IEC 60335-2-2			
Clause	Requirement - Test	Result - Remark	Verdict
	Thermal motor protectors are tested in combination with their motor under the conditions specified in Annex D		N/A
	For water valves containing live parts and that are incorporated in external hoses for connection of an appliance to the water mains, the degree of protection declared for subclause 6.5.2 of IEC 60730-2-8 is IPX7		N/A
24.1.5	Appliance couplers complying with IEC 60320-1		N/A
	However, for appliances classified higher than IPX0, the appliance couplers complying with IEC 60320-2-3		N/A
	Interconnection couplers complying with IEC 60320-2-2		N/A
24.1.6	Small lamp holders similar to E10 lampholders complying with IEC 60238, the requirements for E10 lampholders being applicable		N/A
24.1.7	For remote operation of the appliance via a telecommunication network, the relevant standard for the telecommunication interface circuitry in the appliance is IEC 62151		N/A
24.1.8	The relevant standard for thermal links is IEC 60691		N/A
	Thermal links not complying with IEC 60691 are considered to be an intentionally weak part for the purposes of Clause 19		N/A
24.1.9	Contactors and relays, other than motor starting relays, tested as part of the appliance		N/A
	They are also tested in accordance with Clause 17 of IEC 60730-1, the number of cycles of operations in 24.1.4 selected according to the contactor or relay function in the appliance		N/A
24.2	Appliances not fitted with:		—
	- switches or automatic controls in flexible cords		N/A
	- devices causing the protective device in the fixed wiring to operate in the event of a fault in the appliance		N/A
	- thermal cut-outs that can be reset by soldering, unless		N/A
	the solder has a melting point of at least 230 °C		N/A

IEC 60335-2-2			
Clause	Requirement - Test	Result - Remark	Verdict
24.3	Switches intended for all-pole disconnection of stationary appliances are directly connected to the supply terminals and have a contact separation in all poles, providing full disconnection under overvoltage category III conditions		N/A
24.4	Plugs and socket-outlets for extra-low voltage circuits and heating elements, not interchangeable with plugs and socket-outlets listed in IEC/TR 60083 or IEC 60906-1 or with connectors and appliance inlets complying with the standard sheets of IEC 60320-1		N/A
24.5	Capacitors in auxiliary windings of motors marked with their rated voltage and capacitance, and used accordingly		N/A
	Voltage across capacitors in series with a motor winding does not exceed 1,1 times rated voltage, when the appliance is supplied at 1,1 times rated voltage under minimum load		N/A
24.6	Working voltage of motors connected to the supply mains and having basic insulation that is inadequate for the rated voltage of the appliance, not exceeding 42 V		N/A
	In addition, the motors comply with the requirements of Annex I		N/A
24.7	Detachable hose-sets for connection of appliances to the water mains comply with IEC 61770		N/A
	They are supplied with the appliance		N/A
	Appliances intended to be permanently connected to the water mains not connected by a detachable hose-set		N/A
24.8	Motor running capacitors in appliances for which 30.2.3 is applicable and that are permanently connected in series with a motor winding, not causing a hazard in event of a failure		N/A
	One or more of the following conditions are to be met:		—
	- the capacitors are of class P2 according to IEC 60252-1		N/A
	- the capacitors are housed within a metallic or ceramic enclosure		N/A
	- the distance of separation of the outer surface to adjacent non-metallic parts exceeds 50 mm		N/A
	- adjacent non-metallic parts within 50 mm withstand the needle-flame test of Annex E		N/A

IEC 60335-2-2			
Clause	Requirement - Test	Result - Remark	Verdict
	- adjacent non-metallic parts within 50 mm classified as at least V-1 according to IEC 60695-11-10		N/A
25	SUPPLY CONNECTION AND EXTERNAL FLEXIBLE CORDS		—
25.1	Appliance not intended for permanent connection to fixed wiring, means for connection to the supply:		—
	- supply cord fitted with a plug,		N/A
	- an appliance inlet having at least the same degree of protection against moisture as required for the appliance, or		N/A
	- pins for insertion into socket-outlets	Direct plug-in power adaptor	P
	No appliance inlet for vacuum cleaners for animal grooming and water-suction cleaning appliances (IEC 60335-2-2)		N/A
25.2	Appliance not provided with more than one means of connection to the supply mains		P
	Stationary appliance for multiple supply may be provided with more than one means of connection, provided electric strength test of 1250 V for 1 min between each means of connection causes no breakdown		N/A
25.3	Appliance intended to be permanently connected to fixed wiring provided with one of the following means for connection to the supply mains:		—
	- a set of terminals allowing the connection of a flexible cord		N/A
	- a fitted supply cord		N/A
	- a set of supply leads accommodated in a suitable compartment		N/A
	- a set of terminals for the connection of cables of fixed wiring, cross-sectional areas specified in 26.6, and the appliance allows the connection of the supply conductors after the appliance has been fixed to its support		N/A
	- a set of terminals and cable entries, conduit entries, knock-outs or glands, allowing connection of appropriate types of cable or conduit, and the appliance allows the connection of the supply conductors after the appliance has been fixed to its support		N/A
	For a fixed appliance constructed so that parts can be removed to facilitate easy installation, this requirement is met if it is possible to connect the fixed wiring without difficulty after a part of the appliance has been fixed to its support		N/A

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Clause	Requirement - Test	Result - Remark	Verdict
25.4	Cable and conduit entries, rated current of appliance not exceeding 16 A, dimension according to table 10 (mm)		N/A
	Introduction of conduit or cable does not reduce clearances or creepage distances below values specified in clause 29		N/A
25.5	Method for assembling the supply cord to the appliance:		—
	- type X attachment		N/A
	- type Y attachment		N/A
	- type Z attachment, if allowed in relevant part 2		N/A
	Type X attachment, other than those with a specially prepared cord, not used for flat twin tinsel cords		N/A
	For multi-phase appliances supplied with a supply cord and that are intended to be permanently connected to fixed wiring, the supply cord is assembled to the appliance by type Y attachment		N/A
25.6	Plugs fitted with only one flexible cord		N/A
25.7	Supply cords, other than for class III appliances, being one of the following types:		—
	- rubber sheathed (at least 60245 IEC 53)		N/A
	- polychloroprene sheathed (at least 60245 IEC 57)		N/A
	- cross-linked polyvinyl chloride sheathed (at least 60245 IEC 88)		N/A
	- polyvinyl chloride sheathed. Not used if they are likely to touch metal parts having a temperature rise exceeding 75 K during the test of clause 11		—
	<ul style="list-style-type: none"> light polyvinyl chloride sheathed cord (60227 IEC 52), for appliances not exceeding 3 kg 		N/A
	<ul style="list-style-type: none"> ordinary polyvinyl chloride sheathed cord (60227 IEC 53), for other appliances 		N/A
	- heat resistant polyvinyl chloride sheathed. Not used for type X attachment other than specially prepared cords		—
	<ul style="list-style-type: none"> heat-resistant light polyvinyl chloride sheathed cord (60227 IEC 56), for appliances not exceeding 3 kg 		N/A
	<ul style="list-style-type: none"> heat-resistant polyvinyl chloride sheathed cord (60227 IEC 57), for other appliances 		N/A
	Supply cords for class III appliances adequately insulated		N/A
	Test with 500 V for 2 min for supply cords of class III appliances that contain live parts		N/A

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Clause	Requirement - Test	Result - Remark	Verdict
	Supply cords are not lighter than the following	(IEC 60335-2-2):	—
	For hand-held appliances (mass ≤ 1,5 kg):		N/A
	- ordinary tough rubber sheathed flexible cord (60245 IEC 53)		N/A
	- light polyvinyl chloride sheathed flexible cord (60227 IEC 52)		N/A
	For appliances for animal grooming:		N/A
	- ordinary polychloroprene sheathed flexible cord (60245 IEC 57)		N/A
	- flat twin flexible cord (60227 IEC 42)		N/A
	For other appliances:		N/A
	- ordinary tough rubber sheathed flexible cord (60245 IEC 53)		N/A
	- ordinary polyvinyl chloride sheathed flexible cord (60227 IEC 53)		N/A
25.8	Nominal cross-sectional area of supply cords not less than table 11; rated current (A); cross-sectional area (mm ²).....:		N/A
25.9	Supply cords not in contact with sharp points or edges		N/A
25.10	Supply cord of class I appliances have a green/yellow core for earthing		N/A
25.11	Conductors of supply cords not consolidated by soldering where they are subject to contact pressure, unless		N/A
	the contact pressure is provided by spring terminals		N/A
25.12	Insulation of the supply cord not damaged when moulding the cord to part of the enclosure		N/A
25.13	Inlet openings so constructed as to prevent damage to the supply cord		N/A
	If the enclosure at the inlet opening is not of insulating material, a non-detachable lining or bushing complying with 29.3 for supplementary insulation provided		N/A
	If unsheathed supply cord, a similar additional bushing or lining is required, unless the appliance is		N/A
	class 0, or		N/A
	a class III appliance not containing live parts		N/A
25.14	Supply cords moved while in operation adequately protected against excessive flexing		N/A

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Clause	Requirement - Test	Result - Remark	Verdict
	Flexing test, as described:		—
	- applied force (N).....:		N/A
	- number of flexings.....:		N/A
	The test does not result in:		—
	- short-circuit between the conductors, such that the current exceeds a value of twice the rated current		N/A
	- breakage of more than 10% of the strands of any conductor		N/A
	- separation of the conductor from its terminal		N/A
	- loosening of any cord guard		N/A
	- damage to the cord or the cord guard		N/A
	- broken strands piercing the insulation and becoming accessible		N/A
25.15	For appliances with supply cord and appliances to be permanently connected to fixed wiring by a flexible cord, conductors of the supply cord relieved from strain, twisting and abrasion by use of cord anchorage		N/A
	The cord cannot be pushed into the appliance to such an extent that the cord or internal parts of the appliance can be damaged		N/A
	Pull and torque test of supply cord, values shown in table 12: mass (kg); pull (N); torque (not on automatic cord reel) (Nm).....:		N/A
	Cord not damaged and max. 2 mm displacement of the cord		N/A
25.16	Cord anchorages for type X attachments constructed and located so that:		—
	- 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 different types of supply cord		N/A
	- cord cannot touch the clamping screws of cord anchorage if these screws are accessible, unless		N/A
	they are separated from accessible metal parts by supplementary insulation		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 securely fixed to the appliance, unless		N/A
	it is part of a specially prepared cord		N/A

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Clause	Requirement - Test	Result - Remark	Verdict
	- screws which have to be operated when replacing the cord do not fix any other component, unless		N/A
	the appliance becomes inoperative or incomplete or the parts cannot be removed without a tool		N/A
	- if labyrinths can be bypassed the test of 25.15 is nevertheless withstood		N/A
	- for class 0, 0I and I appliances they are of insulating material or are provided with an insulating lining, unless		N/A
	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		N/A
	if of metal, they are insulated from accessible metal parts by supplementary insulation		N/A
	After the test of 25.15, under the conditions specified, the conductors have not moved by more than 1 mm in the terminals		N/A
25.17	Adequate cord anchorages for type Y and Z attachment, test with the cord supplied with the appliance		N/A
25.18	Cord anchorages only accessible with the aid of a tool, or		N/A
	Constructed so that the cord can only be fitted with the aid of a tool		N/A
25.19	Type X attachment, glands not used as cord anchorage in portable appliances		N/A
	Tying the cord into a knot or tying the cord with string not used		N/A
25.20	The insulated conductors of the supply cord for type Y and Z attachment additionally insulated from accessible metal parts		N/A
25.21	Space for supply cord for type X attachment or for connection of fixed wiring constructed:		—
	- to permit checking of conductors with respect to correct positioning and connection before fitting any cover		N/A
	- so there is no risk of damage to the conductors or their insulation when fitting the cover		N/A
	- for portable appliances, so that the uninsulated end of a conductor, if it becomes free from the terminal, prevented from contact with accessible metal parts		N/A

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Clause	Requirement - Test	Result - Remark	Verdict
	2 N test to the conductor for portable appliances; no contact with accessible metal parts		N/A
25.22	Appliance inlets:		—
	- live parts not accessible during insertion or removal		N/A
	Requirement not applicable to appliance inlets complying with IEC 60320-1		N/A
	- connector can be inserted without difficulty		N/A
	- the appliance is not supported by the connector		N/A
	- not for cold conditions if temp. rise of external metal parts exceeds 75 K during clause 11, unless		N/A
	the supply cord is unlikely to touch such metal parts		N/A
25.23	Interconnection cords comply with the requirements for the supply cord, except that:		N/A
	- the cross-sectional area of the conductors is determined on the basis of the maximum current during clause 11		N/A
	- the thickness of the insulation may be reduced		N/A
	If necessary, electric strength test of 16.3		N/A
	Live conductors in a flexible hose shall have an insulation and sheath thickness at least equivalent to that specified for a 60227 IEC 52 cord of 2×0,75mm ² (IEC 60335-2-2)		N/A
25.24	Interconnection cords not detachable without the aid of a tool if compliance with this standard is impaired when they are disconnected		N/A
25.25	Dimensions of pins that are inserted into socket-outlets compatible with the dimensions of the relevant socket-outlet.	Approved adaptor	P
	Dimensions of pins and engagement face in accordance with the dimensions of the relevant plug in IEC/TR 60083		P
26	TERMINALS FOR EXTERNAL CONDUCTORS		—
26.1	Appliances provided with terminals or equally effective devices for connection of external conductors		N/A
	Terminals only accessible after removal of a non-detachable cover, except		N/A
	for class III appliances that do not contain live parts		N/A

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Clause	Requirement - Test	Result - Remark	Verdict
	Earthing terminals may be accessible if a tool is required to make the connections and means are provided to clamp the wire independently from its connection		N/A
26.2	Appliances with type X attachment and appliances for the connection of cables to fixed wiring provided with terminals in which connections are made by means of screws, nuts or similar devices, unless		N/A
	the connections are soldered		N/A
	Screws and nuts not used to fix any other component, except		N/A
	internal conductors, if so arranged that they are unlikely to be displaced when fitting the supply conductors		N/A
	If soldered connections used, the conductor so positioned or fixed that reliance is not placed on soldering alone, unless		N/A
	barriers provided so that neither clearances nor creepage distances between live parts and other metal parts reduced below the values for supplementary insulation if the conductor becomes free at the soldered joint		N/A
26.3	Terminals for type X attachment and for connection of cables of fixed wiring so constructed that the conductor is clamped between metal surfaces with sufficient contact pressure but without damaging the conductor		N/A
	Terminals fixed so that when the clamping means is tightened or loosened:		—
	- the terminal does not become loose		N/A
	- internal wiring is not subjected to stress		N/A
	- neither clearances nor creepage distances are reduced below the values in clause 29		N/A
	Compliance checked by inspection and by the test of subclause 9.6 of IEC 60999-1, the torque applied being equal to two-thirds of the torque specified (Nm)		N/A
	No deep or sharp indentations of the conductors		N/A
26.4	Terminals for type X attachment, except those having a specially prepared cord and those for the connection of cables of fixed wiring, no special preparation of conductors such as by soldering, use of cable lugs, eyelets or similar, and		N/A
	so constructed or placed that conductors prevented from slipping out when clamping screws or nuts are tightened		N/A

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Clause	Requirement - Test	Result - Remark	Verdict
26.5	Terminals for type X attachment so located or shielded that if a wire of a stranded conductor escapes, no risk of accidental connection to other parts that result in a hazard		N/A
	Stranded conductor test, 8 mm insulation removed		N/A
	No contact between live parts and accessible metal parts and,		N/A
	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 of cables of fixed wiring suitable for connection of conductors with cross-sectional area according to table 13; rated current (A); nominal cross-sectional area (mm ²).....:		N/A
	If a specially prepared cord is used, terminals need only be suitable for that cord		N/A
26.7	Terminals for type X attachment, except in class III appliances not containing live parts, accessible after removal of a cover or part of the enclosure		N/A
26.8	Terminals for the connection of fixed wiring, including the earthing terminal, located close to each other		N/A
26.9	Terminals of the pillar type constructed and located as specified		N/A
26.10	Terminals with screw clamping and screwless terminals not used for flat twin tinsel cords, unless		N/A
	conductors ends fitted with means suitable for screw terminals		N/A
	Pull test of 5 N to the connection		N/A
26.11	For type Y and Z attachment, soldered, welded, crimped or similar connections may be used		N/A
	For Class II appliances, the conductor so positioned or fixed that reliance is not placed on soldering, welding or crimping alone		N/A
	If soldering, welding or crimping alone used, barriers provided so that clearances and creepage distances between live parts and other metal parts are not reduced below the values for supplementary insulation if the conductor becomes free		N/A
27	PROVISION FOR EARTHING		—
27.1	Accessible metal parts of Class 0I and I appliances permanently and reliably connected to an earthing terminal or earthing contact of the appliance inlet		N/A

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Clause	Requirement - Test	Result - Remark	Verdict
	Earthing terminals and earthing contacts not connected to the neutral terminal		N/A
	Class 0, II and III appliances have no provision for earthing	Class II appliance	P
	Safety extra-low voltage circuits not earthed, unless		P
	protective extra-low voltage circuits		N/A
27.2	Clamping means of earthing terminals adequately secured against accidental loosening		N/A
	Terminals for the connection of external equipotential bonding conductors allow connection of conductors of 2.5 to 6 mm ² , and		N/A
	do not provide earthing continuity between different parts of the appliance, and		N/A
	conductors cannot be loosened without the aid of a tool		N/A
27.3	For a detachable part having an earth connection and being plugged into another part of the appliance, the earth connection is made before and separated after current-carrying connections when removing the part		N/A
	For appliances with supply cords, current-carrying conductors become taut before earthing conductor, if the cord slips out of the cord anchorage		N/A
27.4	No risk of corrosion resulting from contact between parts of the earthing terminal and the copper of the earthing conductor or other metal		N/A
	Parts providing earthing continuity, other than parts of a metal frame or enclosure, have adequate resistance to corrosion		N/A
	If of steel, these parts provided with an electroplated coating with a thickness at least 5 µm		N/A
	Adequate protection against rusting of parts of coated or uncoated steel, only intended to provide or transmit contact pressure		N/A
	In the body of the earthing terminal is a part of a frame or enclosure of aluminium or aluminium alloys, precautions taken to avoid risk of corrosion		N/A
27.5	Low resistance of connection between earthing terminal and earthed metal parts		N/A
	This requirement does not apply to connections providing earthing continuity in the protective extra-low voltage circuit, provided the clearances of basic insulation are based on the rated voltage of the appliance		N/A

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Clause	Requirement - Test	Result - Remark	Verdict
	Resistance not exceeding 0,1 Ω at the specified low-resistance test (Ω).....:		N/A
27.6	The printed conductors of printed circuit boards not used to provide earthing continuity in hand-held appliances.		N/A
	They may be used to provide earthing continuity in other appliances if at least two tracks are used with independent soldering points and the appliance complies with 27.5 for each circuit		N/A
28	SCREWS AND CONNECTIONS		—
28.1	Fixings, electrical connections and connections providing earthing continuity withstand mechanical stresses		P
	Screws not of soft metal liable to creep, such as zinc or aluminium		P
	Diameter of screws of insulating material min. 3 mm		N/A
	Screws of insulating material not used for any electrical connections or connections providing earthing continuity		N/A
	Screws used for electrical connections or connections providing earthing continuity screwed into metal		N/A
	Screws not of insulating material if their replacement by a metal screw can impair supplementary or reinforced insulation		N/A
	For type X attachment, screws to be removed for replacement of supply cord or for user maintenance, not of insulating material if their replacement by a metal screw impairs basic insulation		N/A
	For screws and nuts; torque-test as specified in table 14.....:		N/A
28.2	Electrical connections and connections providing earthing continuity constructed so that contact pressure is not transmitted through non-ceramic insulating material liable to shrink or distort, unless		N/A
	there is resiliency in the metallic parts to compensate for shrinkage or distortion of the insulating material		N/A
	This requirement does not apply to electrical connections in circuits of appliances for which:		—
	<ul style="list-style-type: none"> 30.2.2 is applicable and that carry a current not exceeding 0,5 A 		N/A

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Clause	Requirement - Test	Result - Remark	Verdict
	<ul style="list-style-type: none"> 30.2.3 is applicable and that carry a current not exceeding 0,2 A 		N/A
28.3	Space-threaded (sheet metal) screws only used for electrical connections if they clamp the parts together		N/A
	Thread-cutting (self-tapping) screws and thread rolling screws only used for electrical connections if they generate a full form standard machine screw thread		N/A
	Thread-cutting (self-tapping) screws not used if they are likely to be operated by the user or installer		N/A
	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:		—
	- in normal use,		N/A
	- during user maintenance,		N/A
	- when replacing a supply cord having a type X attachment, or		N/A
	- during installation		N/A
	At least two screws being used for each connection providing earthing continuity, unless		N/A
	the screw forms a thread having a length of at least half the diameter of the screw		N/A
28.4	Screws and nuts that make mechanical connection secured against loosening if they also make electrical connections or connections providing earthing continuity		N/A
	This requirement does not apply to screws in the earthing circuit if at least two screws are used, or		N/A
	if an alternative earthing circuit is provided		N/A
	Rivets for electrical connections or connections providing earthing continuity secured against loosening if the connections are subjected to torsion		N/A
29	CLEARANCES, CREEPAGE DISTANCES AND SOLID INSULATION		—
	Clearances, creepage distances and solid insulation withstand electrical stress		P
	For coatings used on printed circuits boards to protect the microenvironment (Type 1) or to provide basic insulation (Type 2), Annex J applies		N/A
	The microenvironment is pollution degree 1 under type 1 protection		N/A

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Clause	Requirement - Test	Result - Remark	Verdict
	For type 2 protection, the spacing between the conductors before the protection is applied is not less than the values specified in Table 1 of IEC 60664-3		N/A
	These values apply to functional, basic, supplementary and reinforced insulation.....:		N/A
29.1	Clearances not less than the values specified in table 16, taking into account the rated impulse voltage for the overvoltage categories of table 15, unless	(see appended table)	P
	for basic insulation and functional insulation they comply with the impulse voltage test of clause 14		N/A
	However, if the distances are affected by wear, distortion, movement of the parts or during assembly, the clearances for rated impulse voltages of 1500V and above are increased by 0,5 mm and the impulse voltage test is not applicable		N/A
	Impulse voltage test is not applicable:		—
	- when the microenvironment is pollution degree 3, or		P
	- for basic insulation of class 0 and class 01 appliances		N/A
	Appliances are in overvoltage category II		P
	A force of 2 N is applied to bare conductors, other than heating elements		N/A
	A force of 30 N is applied to accessible surfaces	Adaptor: pollution degree 2 Vacuum cleaner: pollution degree 3	P
29.1.1	Clearances of basic insulation withstand the overvoltages, taking into account the rated impulse voltage		P
	The values of table 16 or the impulse voltage test of clause 14 are applicable.....:	(see appended table)	P
	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 considered to be bare conductors		P
29.1.2	Clearances of supplementary insulation not less than those specified for basic insulation in table 16:	Approved adaptor	P
29.1.3	Clearances of reinforced insulation not less than those specified for basic insulation in table 16, using the next higher step for rated impulse voltage	Approved adaptor	P

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Clause	Requirement - Test	Result - Remark	Verdict
	For double insulation, with no intermediate conductive part between basic and supplementary insulation, clearances are measured between live parts and the accessible surface, and the insulation system is treated as reinforced insulation		N/A
29.1.4	Clearances for functional insulation are the largest values determined from:		—
	- table 16 based on the rated impulse voltage.....:	(see appended table)	P
	- table F.7a in IEC 60664-1, frequency not exceeding 30 kHz		N/A
	- clause 4 of IEC 60664-4, frequency exceeding 30 kHz		N/A
	If values of table 16 are largest, the impulse voltage test of clause 14 may be applied instead, unless		N/A
	the microenvironment is pollution degree 3, or		P
	the distances can be affected by wear, distortion, movement of the parts or during assembly		N/A
	However, clearances are not specified if the appliance complies with clause 19 with the functional insulation short-circuited		P
	Lacquered conductors of windings considered to be bare conductors		P
	However, clearances at crossover points are not measured		P
	Clearance between surfaces of PTC heating elements may be reduced to 1mm		N/A
29.1.5	Appliances having higher working voltages than rated voltage, clearances for basic insulation are the largest values determined from:		—
	- table 16 based on the rated impulse voltage.....:		N/A
	- table F.7a in IEC 60664-1, frequency not exceeding 30 kHz		N/A
	- clause 4 of IEC 60664-4, frequency exceeding 30 kHz		N/A
	If clearances for basic insulation are selected from Table F.7a of IEC 60664-1 or Clause 4 of IEC 60664-4, the clearances of supplementary insulation are not less than those specified for basic insulation		N/A
	If clearances for basic insulation are selected from Table F.7a of IEC 60664-1, the clearances of reinforced insulation dimensioned as specified in Table F.7a are to withstand 160% of the withstand voltage required for basic insulation		N/A

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Clause	Requirement - Test	Result - Remark	Verdict
	If clearances for basic insulation are selected from Clause 4 of IEC 60664-4, the clearances of reinforced insulation are twice the value required for basic insulation		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 not less than those specified in table 16, but using the next lower step for rated impulse voltage		N/A
	Circuits supplied with a voltage lower than rated voltage, clearances of functional insulation are based on the working voltage used as the rated voltage in table 15		N/A
29.2	Creepage distances not less than those appropriate for the working voltage, taking into account the material group and the pollution degree	(see appended table)	P
	Pollution degree 2 applies, unless	For adaptor	P
	- precautions taken to protect the insulation; pollution degree 1		N/A
	- insulation subjected to conductive pollution; pollution degree 3	For vacuum cleaner	P
	A force of 2 N is applied to bare conductors, other than heating elements		N/A
	A force of 30 N is applied to accessible surfaces		P
	In a double insulation system, the working voltage for both the basic and supplementary insulation is taken as the working voltage across the complete double insulation system		N/A
29.2.1	Creepage distances of basic insulation not less than specified in table 17	(see appended table)	P
	However, if the working voltage is periodic and has a frequency exceeding 30 kHz, the creepage distances are also determined from table 2 of IEC 60664-4, these values being used if exceeding the values in table 17		N/A
	Except for pollution degree 1, corresponding creepage distance not less than the minimum specified for the clearance in table 16, if the clearance has been checked according to the test of clause 14		N/A
29.2.2	Creepage distances of supplementary insulation at least those specified for basic insulation in table 17, or	Approved adaptor	P
	Table 2 of IEC 60664-4, as applicable		N/A

IEC 60335-2-2			
Clause	Requirement - Test	Result - Remark	Verdict
29.2.3	Creepage distances of reinforced insulation at least double those specified for basic insulation in table 17, or	Approved adaptor	P
	Table 2 of IEC 60664-4, as applicable		N/A
29.2.4	Creepage distances of functional insulation not less than specified in table 18.....	(see appended table)	P
	However, if the working voltage is periodic and has a frequency exceeding 30 kHz, the creepage distances are also determined from table 2 of IEC 60664-4, these values being used if exceeding the values in table 18.....		N/A
	Creepage distances may be reduced if the appliance complies with clause 19 with the functional insulation short-circuited		N/A
29.3	Supplementary and reinforced insulation have adequate thickness, or a sufficient number of layers, to withstand the electrical stresses	Approved adaptor	P
	Compliance checked:		—
	- by measurement, in accordance with 29.3.1, or		N/A
	- by an electric strength test in accordance with 29.3.2, or		N/A
	- by an assessment of the thermal quality of the material combined with an electric strength test, in accordance with 29.3.3, and		N/A
	for accessible parts of reinforced insulation consisting of a single layer, by measurement in accordance with 29.3.4, or		N/A
	- as specified in subclause 6.3 of IEC 60664-4 for insulation that is subjected to any periodic voltage having a frequency exceeding 30 kHz		N/A
29.3.1	Supplementary insulation have a thickness of at least 1 mm	Approved adaptor	P
	Reinforced insulation have a thickness of at least 2 mm	Approved adaptor	P
29.3.2	Each layer of material withstand the electric strength test of 16.3 for supplementary insulation	Approved adaptor	P
	Supplementary insulation consist of at least 2 layers		N/A
	Reinforced insulation consist of at least 3 layers		N/A
29.3.3	The insulation is subjected to the dry heat test Bb of IEC 60068-2-2, followed by		N/A
	the electric strength test of 16.3		N/A

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Clause	Requirement - Test	Result - Remark	Verdict
	If the temperature rise during the tests of clause 19 does not exceed the value specified in table 3, the test of IEC 60068-2-2 is not carried out		N/A
29.3.4	Thickness of accessible parts of reinforced insulation consisting of a single layer not less than specified in table 19.....:		N/A
30	RESISTANCE TO HEAT AND FIRE		—
30.1	External parts of non-metallic material,		P
	parts supporting live parts, and		P
	parts of thermoplastic material providing supplementary or reinforced insulation		P
	sufficiently resistant to heat		P
	Ball-pressure test according to IEC 60695-10-2		P
	External parts tested at 40 °C plus the maximum temperature rise determined during the test of clause 11, or at 75 °C, whichever is the higher; temperature (°C).....:	(see appended table)	P
	Parts supporting live parts tested at 40°C plus the maximum temperature rise determined during the test of clause 11, or at 125 °C, whichever is the higher; temperature (°C).....:	Approved adaptor	P
	Parts of thermoplastic material providing supplementary or reinforced insulation tested at 25 °C plus the maximum temperature rise determined during clause 19, if higher; temperature (°C)		N/A
30.2	Parts of non-metallic material resistant to ignition and spread of fire		P
	This requirement does not apply to:		—
	parts having a mass not exceeding 0,5 g, provided the cumulative effect is unlikely to propagate flames that originate inside the appliance by propagating flames from one part to another, or		N/A
	decorative trims, knobs and other parts unlikely to be ignited or to propagate flames that originate inside the appliance		P
	Compliance checked by the test of 30.2.1, and in addition:		P
	- for attended appliances, 30.2.2 applies		P
	- for unattended appliances, 30.2.3 applies	When charging	P
	For appliances for remote operation, 30.2.3 applies		N/A
	For base material of printed circuit boards, 30.2.4 applies		P

IEC 60335-2-2			
Clause	Requirement - Test	Result - Remark	Verdict
	Centrally-sited vacuum cleaners, 30.2.3 applicable (IEC 60335-2-2)		N/A
	Other appliances, 30.2.2 applicable (IEC 60335-2-2)		P
30.2.1	Parts of non-metallic material subjected to the glow-wire test of IEC 60695-2-11 at 550 °C		P
	However, test not carried out if the material is classified as having a glow-wire flammability index according to IEC 60695-2-12 of at least 550 °C, or		N/A
	the material is classified at least HB40 according to IEC 60695-11-10		N/A
	Parts for which the glow-wire test cannot be carried out need to meet the requirements in ISO 9772 for material classified HBF		N/A
30.2.2	Appliances operated while attended, parts of non-metallic material supporting current-carrying connections, and		N/A
	parts of non-metallic material within a distance of 3mm of such connections,		N/A
	subjected to the glow-wire test of IEC 60695-2-11		N/A
	The test severity is:		—
	- 750 °C, for connections carrying a current exceeding 0,5 A during normal operation		N/A
	- 650 °C, for other connections		N/A
	Glow-wire applied to an interposed shielding material, if relevant		N/A
	The glow-wire test is not carried out on parts of material classified as having a glow-wire flammability index according to IEC 60695-2-12 of at least:		—
	- 750 °C, for connections carrying a current exceeding 0,5 A during normal operation		N/A
	- 650 °C, for other connections		N/A
	The glow-wire test is also not carried out on small parts. These parts are to:		—
	- comprise material having a glow-wire flammability index of at least 750 °C, or 650 °C as appropriate, or		N/A
	- comply with the needle-flame test of Annex E, or		N/A
	- comprise material classified as V-0 or V-1 according to IEC 60695-11-10.....:		N/A
	Glow-wire test not applicable to conditions as specified	Hand-held vacuum cleaner	P
30.2.3	Appliances operated while unattended, tested as specified in 30.2.3.1 and 30.2.3.2		P

IEC 60335-2-2			
Clause	Requirement - Test	Result - Remark	Verdict
	The tests are not applicable to conditions as specified	Lower-power circuit for vacuum cleaner during charging	N/A
30.2.3.1	Parts of non-metallic material supporting connections carrying a current exceeding 0,2 A during normal operation, and		P
	parts of non-metallic material, other than small parts, within a distance of 3 mm,		P
	subjected to the glow-wire test of IEC 60695-2-11 with a test severity of 850 °C		P
	Glow-wire applied to an interposed shielding material, if relevant		N/A
	The glow-wire test is not carried out on parts of material classified as having a glow-wire flammability index according to IEC 60695-2-12 of at least 850 °C		N/A
30.2.3.2	Parts of non-metallic material supporting connections, and		P
	parts of non-metallic material within a distance of 3mm,		P
	subjected to glow-wire test of IEC 60695-2-11		P
	The test severity is:		—
	- 750 °C, for connections carrying a current exceeding 0,2 A during normal operation		P
	- 650 °C, for other connections		P
	Glow-wire applied to an interposed shielding material, if relevant		N/A
	However, the glow-wire test of 750 °C or 650 °C as appropriate, is not carried out on parts of material fulfilling both or either of the following classifications:		—
	- a glow-wire ignition temperature according to IEC 60695-2-13 of at least:		N/A
	<ul style="list-style-type: none"> 775 °C, for connections carrying a current exceeding 0,2 A during normal operation 		N/A
	<ul style="list-style-type: none"> 675 °C, for other connections 		N/A
	- a glow-wire flammability index according to IEC 60695-2-12 of at least:		N/A
	- 750 °C, for connections carrying a current exceeding 0,2 A during normal operation		N/A
	- 650 °C, for other connections		N/A
	The glow-wire test is also not carried out on small parts. These parts are to:		—

IEC 60335-2-2			
Clause	Requirement - Test	Result - Remark	Verdict
	- comprise material having a glow-wire ignition temperature of at least 775 °C or 675 °C as appropriate, or		N/A
	- comprise material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or		N/A
	- comply with the needle-flame test of Annex E, or		N/A
	- comprise material classified as V-0 or V-1 according to IEC 60695-11-10		N/A
	The consequential needle-flame test of Annex E applied to non-metallic parts that encroach within the vertical cylinder placed above the centre of the connection zone and on top of the non-metallic parts supporting current-carrying connections, and parts of non-metallic material within a distance of 3 mm of such connections if these parts are those:		—
	- parts that withstood the glow-wire test of IEC 60695-2-11 of 750 °C or 650 °C as appropriate, but produce a flame that persist longer than 2 s, or		N/A
	- parts that comprised material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or		N/A
	- small parts, that comprised material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or		N/A
	- small parts for which the needle-flame test of Annex E was applied, or		N/A
	- small parts for which a material classification of V-0 or V-1 was applied		N/A
	However, the consequential needle-flame test is not carried out on non-metallic parts, including small parts, within the cylinder that are:		—
	- parts having a glow-wire ignition temperature of at least 775 °C or 675 °C as appropriate, or		N/A
	- parts comprising material classified as V-0 or V-1 according to IEC 60695-11-10, or		N/A
	- parts shielded by a flame barrier that meets the needle-flame test of Annex E or that comprises material classified as V-0 or V-1 according to IEC 60695-11-10		N/A
30.2.4	Base material of printed circuit boards subjected to the needle-flame test of Annex E		N/A
	Test not applicable to conditions as specified	During charging: low-power circuit, during using: hand-held appliance	P
31	RESISTANCE TO RUSTING		—

IEC 60335-2-2			
Clause	Requirement - Test	Result - Remark	Verdict
	Relevant ferrous parts adequately protected against rusting		P
	Tests specified in part 2 when necessary		N/A
32	RADIATION, TOXICITY AND SIMILAR HAZARDS		—
	Appliance does not emit harmful radiation or present a toxic or similar hazard due to their operation in normal use		P
	Compliance is checked by the limits or tests specified in part 2, if relevant		N/A
A	ANNEX A (INFORMATIVE) ROUTINE TESTS		—
	Description of routine tests to be carried out by the manufacturer		P
B	ANNEX B (NORMATIVE) APPLIANCES POWERED BY RECHARGEABLE BATTERIES		—
	The following modifications to this standard are applicable for appliances powered by batteries that are recharged in the appliance		P
	This annex does not apply to battery chargers		P
3.1.9	Appliance operated under the following conditions:		—
	- the appliance, supplied by its fully charged battery, operated as specified in relevant part 2		P
	- the battery is charged, the battery being initially discharged to such an extent that the appliance cannot operate		P
	-if possible, the appliance is supplied from the supply mains through its battery charger, the battery being initially discharged to such an extent that the appliance cannot operate. The appliance is operated as specified in relevant part 2		N/A
	- if the appliance incorporates inductive coupling between two parts that are detachable from each other, the appliance is supplied from the supply mains with the detachable part removed		N/A
3.6.2	Part to be removed in order to discard the battery is not considered to be detachable		P
5.B.101	Appliances supplied from the supply mains tested as specified for motor-operated appliances		P
6.1	Mobile parts of automatic battery-powered cleaners shall be class II or class III (IEC 60335-2-2)		N/A
7.1	Battery compartment for batteries intended to be replaced by the user, marked with battery voltage and polarity of the terminals		N/A

IEC 60335-2-2			
Clause	Requirement - Test	Result - Remark	Verdict
	The positive terminal indicated by symbol IEC 60417-5005 and the negative terminal by symbol IEC 60417-5006		N/A
	The mobile part of an automatic battery-powered cleaner shall be marked with the (IEC 60335-2-2)		—
	-name, trademark or identification mark of the manufacturer or responsible vendor		N/A
	-the model or type reference of the docking station with which the mobile part is intended to be used		N/A
7.6	Symbols 60417-5005 and IEC 60417-5006		N/A
7.12	The instructions give information regarding charging		N/A
	The instructions for appliances incorporating batteries intended to be replaced by the user includes required information		N/A
	Details about how to remove batteries containing materials hazardous to the environment given		N/A
7.15	Markings placed on the part of the appliance connected to the supply mains		P
8.2	Appliances having batteries that according to the instruction may be replaced by the user need only have basic insulation between live parts and the inner surface of the battery compartment		N/A
	If the appliance can be operated without batteries, double or reinforced insulation required		N/A
11.7	The battery is charged for the period stated in the instructions or 24 h		P
	For mobile parts of automatic battery-powered cleaners, the test ends when the cleaning operation is stopped due to the discharging of the battery (IEC 60335-2-2)		N/A
19.1	Appliances subjected to tests of 19.B.101, 19.B.102 and 19.B.103		P
	Mobile parts of automatic battery-powered cleaners are subjected to the test of 19.7 while they are being supplied by their battery (IEC 60335-2-2)		N/A
19.7	On mobile parts of automatic battery-powered cleaners, the rotor is locked (IEC 60335-2-2)		N/A
19.10	Not applicable		N/A
19.B.101	Appliances supplied at rated voltage for 168 h, the battery being continually charged	No leakage, no hazard	P
19.B.102	For appliances having batteries that can be removed without the aid of a tool, short-circuit of the terminals of the battery, the battery being fully charged,		N/A

IEC 60335-2-2			
Clause	Requirement - Test	Result - Remark	Verdict
19.B.103	Appliances having batteries replaceable by the user supplied at rated voltage under normal operation with the battery removed or in any position allowed by the construction		N/A
21.B.101	Appliances having pins for insertion into socket-outlets have adequate mechanical strength	Approved adaptor	P
	Part of the appliance incorporating the pins subjected to the free fall test, procedure 2, of IEC 60068-2-31, the number of falls being:		—
	- 100, if the mass of the part does not exceed 250 g (g)	For adaptor exceed 250 g	P
	- 50, if the mass of the part exceeds 250 g	For adaptor not exceed 250 g	P
	After the test, the requirements of 8.1, 15.1.1, 16.3 and clause 29 are met		P
21.201	Mobile parts of automatic battery-powered cleaners shall have sufficient mechanical strength (IEC 60335-2-2)		N/A
	An evenly distributed load of 60 kg is placed on top of the mobile part for 60 s		N/A
	- During this test, no short circuit shall occur		N/A
	-After the test, there shall be no visible damage that could impair compliance with this standard		N/A
22.3	Appliances having pins for insertion into socket-outlets tested as fully assembled as possible		P
22.40	Mobile parts of automatic battery-powered cleaners shall be fitted with a switch to turn the appliance off (IEC 60335-2-2)		N/A
	If compliance relies on the operation of an electronic circuit, the electromagnetic phenomena tests of Subclause 19.11.4.1 and 19.11.4.2 have to be applied. During the tests, the motor which moves the mobile part shall not start. (IEC 60335-2-2)		N/A
22.201	Mobile parts of automatic battery-powered cleaners shall be equipped with (IEC 60335-2-2)		—
	- a device to stop movement within 1 s of accessible hazardous moving parts when they lose contact with the surface being cleaned		N/A
	- a device to protect the appliance from dropping off the cleaning surface (e.g. stairways,etc.). When the mobile part senses that it has reached a critical edge, it shall stop or reverse and move away from the edge of the cleaning surface and then continue to operate normally		N/A

IEC 60335-2-2			
Clause	Requirement - Test	Result - Remark	Verdict
	If compliance relies on the operation of an electronic circuit, the test is repeated under the following conditions applied separately: – the fault conditions in a) to g) of 19.11.2 applied one at a time to the electronic circuit; – the electromagnetic phenomena test of 19.11.4.1 and 19.11.4.2 applied to the appliance. If the electronic circuit is programmable, the software shall contain measures to control the fault/error conditions specified in Table R.1 and is evaluated in accordance with the relevant requirements of Annex R. (IEC 60335-2-2)		N/A
22.202	When operating on a sloping surface, the speed of the mobile part shall not be excessive (IEC 60335-2-2)		N/A
	The speed of the mobile part is measured during the test of Clause 11		N/A
	The mobile part is then directed to move down a glass surface inclined at 10° to the horizontal and its speed is again measured. The measured speed shall not exceed the speed initially measured by more than 10 %		N/A
24.201	Thermal cut-outs and protective electronic circuits incorporated in automatic battery-powered cleaners for compliance with 19.7 shall be non-self-resetting (IEC 60335-2-2)		N/A
25.13	An additional lining or bushing not required for interconnection cords in class III appliances or class III constructions operating at safety extra-low voltage not containing live parts		P
30.2	For parts of the appliance connected to the supply mains during the charging period, 30.2.3 applies		P
	For other parts, 30.2.2 applies		P
	For automatic battery-powered cleaners, 30.2.3 is applicable (IEC 60335-2-2)		N/A
C	ANNEX C (NORMATIVE) AGEING TEST ON MOTORS		—
	Tests, as described, carried out when doubt with regard to the temperature classification of the insulation of a motor winding		N/A
	Test conditions as specified		N/A
	Modification in Table C.1:p=2 000(IEC 60335-2-2)		N/A
D	ANNEX D (NORMATIVE) THERMAL MOTOR PROTECTORS		—

IEC 60335-2-2			
Clause	Requirement - Test	Result - Remark	Verdict
	Applicable to appliances having motors that incorporate thermal motor protectors necessary for compliance with the standard		N/A
	Test conditions as specified		N/A
E	ANNEX E (NORMATIVE) NEEDLE-FLAME TEST		—
	No parts were subjected to this test		N/A
F	ANNEX F (NORMATIVE) CAPACITORS		—
	No such capacitor		N/A
G	ANNEX G (NORMATIVE) SAFETY ISOLATING TRANSFORMERS		—
	Approved adaptor		N/A
H	ANNEX H (NORMATIVE) SWITCHES		—
	Switches comply with the following clauses of IEC 61058-1, as modified below:		—
	The tests of IEC 61058-1 carried out under the conditions occurring in the appliance		P
	Before being tested, switches are operated 20 times without load		P
8	Marking and documentation		—
	Switches are not required to be marked		P
	However, a switch that can be tested separately from the appliance marked with the manufacturer's name or trade mark and the type reference		P
13	Mechanism		—
	The tests may be carried out on a separate sample		P
15	Insulation resistance and dielectric strength		—
15.1	Not applicable		P
15.2	Not applicable		P
15.3	Applicable for full disconnection and micro-disconnection		P
17	Endurance		—
	Compliance is checked on three separate appliances or switches		P
	For 17.2.4.4, the number of cycles declared according to 7.1.4 is 10 000, unless		P
	otherwise specified in 24.1.3 of the relevant part 2 of IEC 60335.....:		N/A

IEC 60335-2-2			
Clause	Requirement - Test	Result - Remark	Verdict
	Switches for operation under no load and which can be operated only by a tool, and		N/A
	switches operated by hand that are interlocked so that they cannot be operated under load,		N/A
	are not subjected to the tests		N/A
	However, switches without this interlock are subjected to the test of 17.2.4.4 for 100 cycles of operation		N/A
	Subclauses 17.2.2 and 17.2.5.2 not applicable		P
	The ambient temperature during the test is that occurring in the appliance during the test of Clause 11 in IEC 60335-1		P
	The temperature rise of the terminals not more than 30 K above the temperature rise measured in clause 11 of IEC 60335-1 (K)	Sample1: 5,8 K Sample2: 6,2 K Sample3: 4,9 K	P
20	Clearances, creepage distances, solid insulation and coatings of rigid printed board assemblies		—
	This clause is applicable to clearances and creepage distances for functional insulation, across full disconnection and micro-disconnection, as stated in table 24		P
I	ANNEX I (NORMATIVE) MOTORS HAVING BASIC INSULATION THAT IS INADEQUATE FOR THE RATED VOLTAGE OF THE APPLIANCE		—
	No such motor		N/A
J	ANNEX J (NORMATIVE) COATED PRINTED CIRCUIT BOARDS		—
	No such PCB		N/A
K	ANNEX K (NORMATIVE) OVERVOLTAGE CATEGORIES		—
	The information on overvoltage categories is extracted from IEC 60664-1		P
	Overvoltage category is a numeral defining a transient overvoltage condition		P
	Equipment of overvoltage category IV is for use at the origin of the installation		N/A
	Equipment of overvoltage category III is equipment in fixed installations and for cases where the reliability and the availability of the equipment is subject to special requirements		N/A
	Equipment of overvoltage category II is energy consuming equipment to be supplied from the fixed installation		P

IEC 60335-2-2			
Clause	Requirement - Test	Result - Remark	Verdict
	If such equipment is subjected to special requirements with regard to reliability and availability, overvoltage category III applies		N/A
	Equipment of overvoltage category I is equipment for connection to circuits in which measures are taken to limit transient overvoltages to an appropriate low level		N/A
L	ANNEX L (INFORMATIVE) GUIDANCE FOR THE MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES		—
	Information for the determination of clearances and creepage distances		P
M	ANNEX M (NORMATIVE) POLLUTION DEGREE		—
	The information on pollution degrees is extracted from IEC 60664-1		P
	Pollution		—
	The microenvironment determines the effect of pollution on the insulation, taking into account the macroenvironment		P
	Means may be provided to reduce pollution at the insulation by effective enclosures or similar		P
	Minimum clearances specified where pollution may be present in the microenvironment		P
	Degrees of pollution in the microenvironment		—
	For evaluating creepage distances, the following degrees of pollution in the microenvironment are established:		—
	- pollution degree 1: no pollution or only dry, non-conductive pollution occurs. The pollution has no influence		N/A
	- pollution degree 2: only non-conductive pollution occurs, except that occasionally a temporary conductivity caused by condensation is to be expected	Approved adaptor	P
	- pollution degree 3: conductive pollution occurs or dry non-conductive pollution occurs that becomes conductive due to condensation that is to be expected	Vacuum cleaner	P
	- pollution degree 4: the pollution generates persistent conductivity caused by conductive dust or by rain or snow		N/A
N	ANNEX N (NORMATIVE) PROOF TRACKING TEST		—
	No parts were subjected to this test		N/A

IEC 60335-2-2			
Clause	Requirement - Test	Result - Remark	Verdict
O	ANNEX O (INFORMATIVE) SELECTION AND SEQUENCE OF THE TESTS OF CLAUSE 30		—
	Description of tests for determination of resistance to heat and fire		P
P	ANNEX P (INFORMATIVE) GUIDANCE FOR THE APPLICATION OF THIS STANDARD TO APPLIANCES USED IN WARM DAMP EQUABLE CLIMATES		—
	Not intend for such use		N/A
Q	ANNEX Q (INFORMATIVE) SEQUENCE OF TESTS FOR THE EVALUATION OF ELECTRONIC CIRCUITS		—
	Description of tests for appliances incorporating electronic circuits		P
R	ANNEX R (NORMATIVE) SOFTWARE EVALUATION		—
	Programmable electronic circuits requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2 validated in accordance with the requirements of this annex		N/A

IEC 60335-2-2			
Clause	Requirement - Test	Result - Remark	Verdict

10.1	TABLE: Power input deviation					P
Input deviation of/at:	P rated (W)	P measured (W)	dP (W, %)	Required dP (W, %)	Remark	
SLX203B	25	16,5	-34,0 %	+20 %	Motor: RS380	
SLX203C	30	20,8	-30,7 %	+20 %	Motor: RS380	
SLX203C	30	15,4	-48,7 %	+20 %	Motor: BRS380SA	
SLX203D	30	31,4	+4,6 %	+20 %	Motor: RS380	
SLX203E	30	30,5	+1,7 %	+20 %	Motor: RS380	
SLX207I	75	56,4	-24,8 %	+20 %	Motor: BRS540SH	
SLX217B	25	13,4	-46,4 %	+20 %	Motor: RS380	
SLX217C	30	17,6	-41,3 %	+20 %	Motor: RS380	
SLX217C	30	17,5	-41,7 %	+20 %	Motor: BRS380SA	
SLX217D	40	28,4	-29,0 %	+20 %	Motor: RS390	
SLX217E	45	33,6	-25,3 %	+20 %	Motor: RS390	
SLX217G	45	33,7	-25,1 %	+20 %	Motor: RS390	
SLX225E	45	30,6	-32,0 %	+20 %	Motor: RS390	
SLX225G	45	41,8	-7,1 %	+20 %	Motor: RS390	
SLX225G	45	25,5	-43,3 %	+20 %	Motor: BRS390SA	
SLX225H	75	58,5	-22,0 %	+20 %	Motor: RS540	
SLX225I	75	62,4	-16,8 %	+20 %	Motor: RS540	
SLX227E	30	19,7	-34,3 %	+20 %	Motor: RS380	
SLX227E	30	20,7	-31,0 %	+20 %	Motor: BRS380SA	

IEC 60335-2-2						
Clause	Requirement - Test			Result - Remark		Verdict
SLX260EL	45	24,6	-45,3 %	+20 %	Motor: RS390	
SLX260EL	45	24,9	-44,6 %	+20 %	Motor: BRS390SA	
SLX261EL	45	24,4	-45,7 %	+20 %	Motor: RS390	
SLX261EL	45	24,9	-44,6 %	+20 %	Motor: BRS390SA	
SLX207EL	45	24,5	-45,6 %	+20 %	(with Battery: Kan, Li-ion 18650, 3,7 V×2, 2200 mAh)	

10.2	TABLE: Current deviation	N/A
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11.8 (1)	TABLE: Heating test, thermocouple measurements (SLX203C)		P
	Test voltage (V)	243,8 V	—
	Ambient (°C)	T1=22,1 °C, T2=22,9 °C	—
Thermocouple locations		Max. temperature rise measured, dT (K)	Max. temperature rise limit, dT (K)
Internal wire		6,0	50
PCB		17,0	120
Enclosure		2,0	Clause 30.1
Battery surface		12,0	For reference
Adaptor surface		11,0	60
Supplementary information: 1) Power input: 1,06x230=243,8 V. 2) Charged for 24 h. 3) The battery being initially discharged to such an extent that the appliance cannot operate. 4) Tested with Linghong adaptor (5,5 V, 200 mA)			

11.8 (2)	TABLE: Heating test, thermocouple measurements (SLX203C)		P
	Test voltage (V)	Fully charged battery	—
	Ambient (°C)	T1=24,8 °C, T2=24,9 °C	—
Thermocouple locations		Max. temperature rise measured, dT (K)	Max. temperature rise limit, dT (K)
Internal wire		6,0	50
Ambient of switch		4,0	For Annex H
Enclosure		5,0	Clause 30.1
Battery surface		24,0	For reference
Motor bobbin		10,0	For reference
Button of switch		4,0	60

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Clause	Requirement - Test	Result - Remark	Verdict
Motor housing	12,0	80	
Remark: 1) The vacuum cleaner was supplied by its fully charged battery. 2) Operated until steady conditions were established.			

11.8 (3)	TABLE: Heating test, thermocouple measurements (SLX203C)		P
	Test voltage (V)	254,4 V	—
	Ambient (°C)	T1=19,3 °C, T2=19,5 °C	—
Thermocouple locations	Max. temperature rise measured, dT (K)	Max. temperature rise limit, dT (K)	
Internal wire	1,8	50	
Ambient of switch	13,2	For Annex H	
PCB	12,0	120	
Enclosure	2,9	Clause 30.1	
Battery surface	3,2	For reference	
Handle surface	1,6	50	
Button of switch	1,4	60	
Adaptor surface	8,0	60	
Test corner	1,8	65	
Supplementary information: 1) Power input: 1,06x240=254,4 V. 2) Charged for 24 h. 3) The battery being initially discharged to such an extent that the appliance cannot operate. 4) Tested with Wanji adaptor (6 V, 200 mA)			

11.8 (4)	TABLE: Heating test, thermocouple measurements (SLX203C)		P
	Test voltage (V)	Fully charged battery	—
	Ambient (°C)	T1=24,9 °C, T2=24,8°C	—
Thermocouple locations	Max. temperature rise measured, dT (K)	Max. temperature rise limit, dT (K)	
Internal wire	5,9	50	
Ambient of switch	3,9	For Annex H	
PCB	8,8	120	
Enclosure	3,4	Clause 30.1	
Battery surface	17,1	For reference	
Handle surface	0,4	50	
Button of switch	2,8	60	
Adaptor surface	0,4	60	
Test corner	1,3	65	
Motor housing	15,9	80 (Class 120)	

IEC 60335-2-2			
Clause	Requirement - Test	Result - Remark	Verdict

Supplementary information: 1) The vacuum cleaner was supplied by its fully charged battery. 2) Operated until steady conditions were established.

11.8 (5)	TABLE: Heating test, thermocouple measurements (SLX203C)		P
	Test voltage (V)	254,4 V	—
	Ambient (°C)	T1=23,1 °C, T2=23,0 °C	—
Thermocouple locations	Max. temperature rise measured, dT (K)	Max.temperature rise limit, dT (K)	
Internal wire	4,2	50	
Ambient of switch	10,8	For Annex H	
PCB	11,5	120	
Enclosure	2,4	Clause 30.1	
Battery surface	12,0	For reference	
Adaptor surface	8,2	60	
Handle	4,1	50	
Switch button	6,1	60	
Enclosure of appliance inlet	7,7	For reference	
Test corner	1,8	65	
Supplementary information: 1) Power input: 1,06x240=254,4 V. 2) Charged for 24 h. 3) The battery being initially discharged to such an extent that the appliance cannot operate. 4) Tested with New Wise adaptor (9 V, 250 mA)			

11.8 (6)	TABLE: Heating test, thermocouple measurements (SLX203C)		P
	Test voltage (V)	Fully charged battery	—
	Ambient (°C)	T1=22,8 °C, T2=23,0 °C	—
Thermocouple locations	Max. temperature rise measured, dT (K)	Max.temperature rise limit, dT (K)	
Internal wire	6,6	50	
Ambient of switch	2,2	For Annex H	
PCB	3,4	120	
Enclosure	7,8	Clause 30.1	
Battery surface	21,3	For reference	
Adaptor surface	0,1	60	
Handle	1,2	50	
Switch button	2,3	60	
Enclosure of appliance inlet	2,3	For reference	
Motor housing	14,8	80 (Class 120)	

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Clause	Requirement - Test	Result - Remark	Verdict
Test corner		2,9	65
Supplementary information: 1) The vacuum cleaner was supplied by its fully charged battery: GREPOW: Ni-MH AA. 2) Operated until steady conditions were established.			

11.8 (7)	TABLE: Heating test, thermocouple measurements (SLX217E)		P
	Test voltage (V)	243,8 V	—
	Ambient (°C)	T1=22,0 °C, T2=23,9 °C	—
Thermocouple locations	Max. temperature rise measured, dT (K)	Max.temperature rise limit, dT (K)	
Internal wire	6,1	50	
Ambient of switch	8,7	For Annex H	
PCB	4,6	120	
Enclosure	2,5	Clause 30.1	
Battery surface	18,9	For reference	
Handle surface	2,8	50	
Button of switch	6,4	60	
Adaptor surface	20,8	60	
Test corner	1,2	65	
Supplementary information: 1) Power input: 1,06x230=243,8 V. 2) Charged for 24 h. 3) The battery being initially discharged to such an extent that the appliance cannot operate. 4) Tested with Linghong adaptor (9 V, 250 mA)			

11.8 (8)	TABLE: Heating test, thermocouple measurements (SLX217E)		P
	Test voltage (V)	Fully charged battery	—
	Ambient (°C)	T1=23,1 °C, T2=22,9 °C	—
Thermocouple locations	Max. temperature rise measured, dT (K)	Max.temperature rise limit, dT (K)	
Internal wire	7,8	50	
Ambient of switch	6,3	For Annex H	
PCB	6,2	120	
Enclosure	4,7	Clause 30.1	
Battery surface	28,6	For reference	
Motor housing	15,0	80 (Class 120)	
Motor bobbin	7,8	For reference	
Handle surface	5,2	50	
Button of switch	5,3	60	
Test corner	5,0	65	

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Clause	Requirement - Test	Result - Remark	Verdict

Supplementary information: 1) The vacuum cleaner was supplied by its fully charged battery. 2) Operated until steady conditions were established.

11.8 (9)	TABLE: Heating test, thermocouple measurements (SLX217G)		P
	Test voltage (V)	254,4 V	—
	Ambient (°C)	T1=22,8 °C, T2=24,6 °C	—
Thermocouple locations	Max. temperature rise measured, dT (K)	Max.temperature rise limit, dT (K)	
Internal wire	5,1	50	
Ambient of switch	10,0	For Annex H	
PCB	38,3	120	
Enclosure	16,5	Clause 30.1	
Battery surface	20,2	For reference	
Adaptor surface	36,1	60	
Test corner	2,0	65	
Supplementary information: 1) Power input: 1,06x240=254,4 V. 2) Charged for 24 h. 3) The battery being initially discharged to such an extent that the appliance cannot operate. 4) Tested with Wanji adaptor (12 V, 250 mA)			

11.8 (10)	TABLE: Heating test, thermocouple measurements (SLX217G)		P
	Test voltage (V)	Fully charged battery	—
	Ambient (°C)	T1=23,5 °C, T2=23,8 °C	—
Thermocouple locations	Max. temperature rise measured, dT (K)	Max.temperature rise limit, dT (K)	
Internal wire	5,6	50	
Ambient of switch	3,0	For Annex H	
Enclosure	18,4	Clause 30.1	
Battery surface	20,7	For reference	
Motor housing	8,0	80 (Class 120)	
Handle surface	1,8	50	
Button of switch	1,8	60	
Test corner	2,2	65	
Supplementary information: 1) The vacuum cleaner was supplied by its fully charged battery. 2) Operated until steady conditions were established.			

11.8 (11)	TABLE: Heating test, thermocouple measurements (SLX217G)		P
	Test voltage (V)	243,8 V	—

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Clause	Requirement - Test	Result - Remark	Verdict
	Ambient (°C).....:	T1=22,8 °C, T2=24,6 °C	—
Thermocouple locations		Max. temperature rise measured, dT (K)	Max.temperature rise limit, dT (K)
Internal wire		7,5	50
Ambient of switch		18,1	For Annex H
PCB		64,1	120
Enclosure		20,0	Clause 30.1
Battery surface		31,2	For reference
Adaptor surface		22,4	60
Test corner		6,7	65
Supplementary information: 1) Power input: 1,06x230=243,8 V. 2) Charged for 24 h. 3) The battery being initially discharged to such an extent that the appliance cannot operate. 4) Tested with Ling Hong adaptor (12 V, 400 mA)			

11.8 (12)	TABLE: Heating test, thermocouple measurements (SLX217G)		P
	Test voltage (V).....:	Fully charged battery	—
	Ambient (°C).....:	T1=23,5 °C, T2=23,8 °C	—
Thermocouple locations		Max. temperature rise measured, dT (K)	Max.temperature rise limit, dT (K)
Internal wire		11,5	50
Ambient of switch		7,8	For Annex H
Enclosure		19,1	Clause 30.1
Battery surface		37,5	For reference
Motor housing		16,5	80 (Class 120)
Handle surface		4,6	50
Button of switch		5,9	60
Test corner		7,7	65
Supplementary information: 1) The vacuum cleaner was supplied by its fully charged battery. 2) Operated until steady conditions were established.			

11.8 (13)	TABLE: Heating test, thermocouple measurements (SLX225E)		P
	Test voltage (V).....:	243,8 V	—
	Ambient (°C).....:	T1=23,7 °C, T2=22,3 °C	—
Thermocouple locations		Max. temperature rise measured, dT (K)	Max.temperature rise limit, dT (K)
Internal wire		11,8	50
Ambient of switch		9,8	For Annex H

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Clause	Requirement - Test	Result - Remark	Verdict
PCB		31,2	120
Enclosure		14,6	Clause 30.1
Battery surface		24,2	For reference
Adaptor surface		27,7	60
Test corner		5,3	65
Remark: 1) Power input: 1,06x230=243,8 V. 2) Charged for 24 h. 3) The battery being initially discharged to such an extent that the appliance cannot operate. 4) Tested with Linghong adaptor (9 V, 250 mA)			

11.8 (14)	TABLE: Heating test, thermocouple measurements (SLX225E)		P
	Test voltage (V)	Fully charged battery	—
	Ambient (°C)	T1=22,4 °C, T2=22,9 °C	—
Thermocouple locations	Max. temperature rise measured, dT (K)	Max.temperature rise limit, dT (K)	
Internal wire	13,4	50	
Ambient of switch	6,4	For Annex H	
Enclosure	25,0	Clause 30.1	
Battery surface	34,0	For reference	
Motor housing	13,5	80 (Class 120)	
Handle surface	4,2	50	
Button of switch	4,4	60	
Test corner	5,8	65	
Supplementary information: 1) The vacuum cleaner was supplied by its fully charged battery. 2) Operated until steady conditions were established.			

11.8 (15)	TABLE: Heating test, thermocouple measurements (SLX225G)		P
	Test voltage (V)	243,8 V	—
	Ambient (°C)	T1=22,8 °C, T2=24,6 °C	—
Thermocouple locations	Max. temperature rise measured, dT (K)	Max.temperature rise limit, dT (K)	
Internal wire	8,3	50	
Ambient of switch	13,9	For Annex H	
PCB	10,7	120	
Enclosure	12,9	Clause 30.1	
Battery surface	26,0	For reference	
Adaptor surface	23,7	60	
Test corner	4,2	65	
Supplementary information: 1) Power input: 1,06x230=243,8 V. 2) Charged for 24 h. 3) The battery being			

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Clause	Requirement - Test	Result - Remark	Verdict

initially discharged to such an extent that the appliance cannot operate. 4) Tested with Linghong adaptor (12 V, 400 mA)

11.8 (16)	TABLE: Heating test, thermocouple measurements (SLX225G)		P
	Test voltage (V)	Fully charged battery	—
	Ambient (°C)	T1=23,5 °C, T2=23,8 °C	—
Thermocouple locations	Max. temperature rise measured, dT (K)	Max. temperature rise limit, dT (K)	
Internal wire	11,5	50	
Ambient of switch	7,8	For Annex H	
Enclosure	19,1	Clause 30.1	
Battery surface	37,5	For reference	
Motor housing	16,5	80 (Class 120)	
Handle surface	4,6	50	
Button of switch	5,9	60	
Test corner	7,7	65	
Supplementary information: 1) The vacuum cleaner was supplied by its fully charged battery. 2) Operated until steady conditions were established.			

11.8 (17)	TABLE: Heating test, thermocouple measurements (SLX225G)		P
	Test voltage (V)	254,4 V	—
	Ambient (°C)	T1=22,7 °C, T2=22,2 °C	—
Thermocouple locations	Max. temperature rise measured, dT (K)	Max. temperature rise limit, dT (K)	
Internal wire	6,1	50	
Ambient of switch	20,2	For Annex H	
PCB	13,1	120	
Enclosure	5,2	Clause 30.1	
Battery surface	16,4	For reference	
Adaptor surface	17,9	60	
Handle	3,6	50	
Switch button	8,4	60	
Enclosure of appliance inlet	11,0	For reference	
Test corner	4,6	65	
Supplementary information: 1) Power input: 1,06x240=254,4 V. 2) Charged for 24 h. 3) The battery being initially discharged to such an extent that the appliance cannot operate. 4) Tested with New Wise adaptor (15 V, 250 mA)			

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Clause	Requirement - Test	Result - Remark	Verdict
11.8 (18)	TABLE: Heating test, thermocouple measurements (SLX225G)		P
	Test voltage (V)	Fully charged battery	—
	Ambient (°C)	T1=22,7 °C, T2=23,6 °C	—
Thermocouple locations	Max. temperature rise measured, dT (K)	Max.temperature rise limit, dT (K)	
Internal wire	8,4	50	
Ambient of switch	3,4	For Annex H	
PCB	4,3	120	
Enclosure	4,6	Clause 30.1	
Battery surface	21,0	For reference	
Adaptor surface	1,0	60	
Handle	2,1	50	
Switch button	2,6	60	
Enclosure of appliance inlet	10,5	For reference	
Motor housing	10,5	80 (Class 120)	
Test corner	3,8	65	
Supplementary information: 1) The vacuum cleaner was supplied by its fully charged battery: GREPOW: Ni-MH AA. 2) Operated until steady conditions were established.			

11.8 (19)	TABLE: Heating test, thermocouple measurements (SLX227E)		P
	Test voltage (V)	243,8 V	—
	Ambient (°C)	T1=23,7 °C, T2=22,3 °C	—
Thermocouple locations	Max. temperature rise measured, dT (K)	Max.temperature rise limit, dT (K)	
Internal wire	2,7	50	
Ambient of switch	10,4	For Annex H	
PCB	27,2	120	
Enclosure	2,3	Clause 30.1	
Battery surface	3,1	For reference	
Adaptor surface	27,9	60	
Test corner	0,9	65	
Supplementary information: 1) Power input: 1,06x230=243,8 V. 2) Charged for 24 h. 3) The battery being initially discharged to such an extent that the appliance cannot operate. 4) Tested with Linghong adaptor (12 V, 400 mA)			

11.8 (20)	TABLE: Heating test, thermocouple measurements (SLX227E)		P
	Test voltage (V)	Fully charged battery	—

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Clause	Requirement - Test	Result - Remark	Verdict
	Ambient (°C).....:	T1=23,5 °C, T2=23,8 °C	—
	Thermocouple locations	Max. temperature rise measured, dT (K)	Max.temperature rise limit, dT (K)
	Internal wire	12,3	50
	Ambient of switch	3,9	For Annex H
	Enclosure	15,6	Clause 30.1
	Battery surface	23,7	For reference
	Motor housing	17,5	80 (Class 120)
	Handle surface	3,8	50
	Button of switch	3,4	60
	Test corner	3,7	65
Supplementary information: 1) The vacuum cleaner was supplied by its fully charged battery. 2) Operated until steady conditions were established.			

11.8 (21)	TABLE: Heating test, thermocouple measurements (SLX227E)		P
	Test voltage (V).....:	254,4 V	—
	Ambient (°C).....:	T1=21,9 °C, T2=23,1 °C	—
	Thermocouple locations	Max. temperature rise measured, dT (K)	Max.temperature rise limit, dT (K)
	Internal wire	3,6	50
	Ambient of switch	14,5	For Annex H
	PCB	11,4	120
	Enclosure	14,4	Clause 30.1
	Battery surface	15,5	For reference
	Adaptor surface	17,6	60
	Handle	5,4	50
	Switch button	7,3	60
	Enclosure of appliance inlet	8,1	For reference
	Test corner	4,2	65
Supplementary information: 1) Power input: 1,06x240=254,4 V. 2) Charged for 24 h. 3) The battery being initially discharged to such an extent that the appliance cannot operate. 4) Tested with New Wise adaptor (12 V, 250 mA)			

11.8 (22)	TABLE: Heating test, thermocouple measurements (SLX227E)		P
	Test voltage (V).....:	Fully charged battery	—
	Ambient (°C).....:	T1=21,6 °C, T2=23,4 °C	—

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Clause	Requirement - Test	Result - Remark	Verdict
	Thermocouple locations	Max. temperature rise measured, dT (K)	Max. temperature rise limit, dT (K)
	Internal wire	6,5	50
	Ambient of switch	3,6	For Annex H
	PCB	4,5	120
	Enclosure	23,2	Clause 30.1
	Battery surface	25,2	For reference
	Adaptor surface	2,2	60
	Handle	2,6	50
	Switch button	2,2	60
	Enclosure of appliance inlet	13,1	For reference
	Motor housing	30,7	80 (Class 120)
	Test corner	1,8	65
Supplementary information: 1) The vacuum cleaner was supplied by its fully charged battery: GREPOW: Ni-MH AA. 2) Operated until steady conditions were established.			

11.8 (23)	TABLE: Heating test, thermocouple measurements (SLX225I)		P
	Test voltage (V)	254,4 V	—
	Ambient (°C)	T1=20,9 °C, T2=21,6 °C	—
	Thermocouple locations	Max. temperature rise measured, dT (K)	Max. temperature rise limit, dT (K)
	Internal wire	27,6	50
	Ambient of switch	20,3	For Annex H
	PCB	12,9	120
	Enclosure	28,7	Clause 30.1
	Battery surface	39,9	For reference
	Adaptor surface	38,4	60
	Handle surface	8,7	50
	Button of switch	6,2	60
	Enclosure of appliance inlet	10,2	For reference
	Test corner	5,3	65
Supplementary information: 1) Power input: 1,06x240=254,4 V. 2) Charged for 24 h. 3) The battery being initially discharged to such an extent that the appliance cannot operate. 4) Tested with Wanji adaptor (18 V, 250 mA)			

11.8 (24)	TABLE: Heating test, thermocouple measurements (SLX225I)		P
	Test voltage (V)	Fully charged battery	—

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Clause	Requirement - Test	Result - Remark	Verdict
	Ambient (°C).....:	T1=20,9 °C, T2=21,6 °C	—
	Thermocouple locations	Max. temperature rise measured, dT (K)	Max.temperature rise limit, dT (K)
	Internal wire	27,8	50
	Ambient of switch	21,7	For Annex H
	Enclosure	26,9	Clause 30.1
	Battery surface	42,7	For reference
	Motor housing	19,5	80 (Class 120)
	Handle surface	10,2	50
	Button of switch	7,2	60
	Test corner	8,9	65
Supplementary information: 1) The vacuum cleaner was supplied by its fully charged battery. 2) Operated until steady conditions were established.			

11.8 (25)	TABLE: Heating test, thermocouple measurements (SLX207I)		P
	Test voltage (V).....:	254,4 V	—
	Ambient (°C).....:	T1=24,7 °C, T2=22,6 °C	—
	Thermocouple locations	Max. temperature rise measured, dT (K)	Max.temperature rise limit, dT (K)
	Internal wire	7,1	50
	Ambient of switch	19,6	For Annex H
	PCB	17,1	120
	Enclosure	4,5	Clause 30.1
	Battery surface	19,2	For reference
	Adaptor surface	17,2	60
	Handle	4,7	50
	Switch button	9,9	60
	Enclosure of appliance inlet	11,6	For reference
	Motor housing	5,8	80 (Class 120)
	Test corner	3,1	65
Supplementary information: 1) Power input: 1,06x240=254,4 V. 2) Charged for 24 h. 3) The battery being initially discharged to such an extent that the appliance cannot operate. 4) Tested with New Wise adaptor (20 V, 250 mA)			

11.8 (26)	TABLE: Heating test, thermocouple measurements (SLX207I)		P
	Test voltage (V).....:	Fully charged battery	—
	Ambient (°C).....:	T1=22,8 °C, T2=23,0 °C	—

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Clause	Requirement - Test	Result - Remark	Verdict
	Thermocouple locations	Max. temperature rise measured, dT (K)	Max. temperature rise limit, dT (K)
	Internal wire	13,2	50
	Ambient of switch	5,1	For Annex H
	PCB	7,0	120
	Enclosure	20,9	Clause 30.1
	Battery surface	40,3	For reference
	Handle	2,7	50
	Switch button	2,9	60
	Enclosure of appliance inlet	19,1	For reference
	Motor housing	13,8	80 (Class 120)
	Test corner	4,4	65
Supplementary information: 1) The vacuum cleaner was supplied by its fully charged battery: GREPOW: Ni-MH AA. 2) Operated until steady conditions were established.			

11.8 (27)	TABLE: Heating test, thermocouple measurements (SLX217C)		P
	Test voltage (V)	254,4 V	—
	Ambient (°C)	T1=23,1 °C, T2=23,9 °C	—
	Thermocouple locations	Max. temperature rise measured, dT (K)	Max. temperature rise limit, dT (K)
	Internal wire	2,9	50
	Ambient of switch	12,5	For Annex H
	PCB	30,0	120
	Enclosure	4,8	Clause 30.1
	Battery surface	9,1	For reference
	Adaptor surface	7,8	60
	Handle	4,6	50
	Switch button	1,3	60
	Enclosure of appliance inlet	3,0	For reference
	Test corner	2,2	65
Supplementary information: 1) Power input: 1,06x240=254,4 V. 2) Charged for 24 h. 3) The battery being initially discharged to such an extent that the appliance cannot operate. 4) Tested with New Wise adaptor (20 V, 250 mA)			

11.8 (28)	TABLE: Heating test, thermocouple measurements (SLX217C)		P
	Test voltage (V)	Fully charged battery	—
	Ambient (°C)	T1=23,5 °C, T2=23,7 °C	—

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Clause	Requirement - Test	Result - Remark	Verdict
	Thermocouple locations	Max. temperature rise measured, dT (K)	Max.temperature rise limit, dT (K)
	Internal wire	8,4	50
	Ambient of switch	1,4	For Annex H
	PCB	1,9	120
	Enclosure	14,7	Clause 30.1
	Battery surface	25,0	For reference
	Adaptor surface	0,3	60
	Handle	0,7	50
	Switch button	0,7	60
	Enclosure of appliance inlet	5,0	For reference
	Motor housing	9,7	80 (Class 120)
	Test corner	2,9	65
Supplementary information: 1) The vacuum cleaner was supplied by its fully charged battery: J&Y, Ni-MH AA1400 2) Operated until steady conditions were established.			

11.8 (29)	TABLE: Heating test, thermocouple measurements (SLX260EL with motor RS390)		P
	Test voltage (V)	Fully charged battery	—
	Ambient (°C)	T1=22,1 °C, T2=19,9 °C	—
	Thermocouple locations	Max. temperature rise measured, dT (K)	Max.temperature rise limit, dT (K)
	Power switch button	3,5	50 and Clause 30.1
	Handle surface	4,4	50
	Outside enclosure (near motor)	2,2	60/75
	Outside enclosure (near battery)	4,3	60/75
	Inside enclosure (near motor)	10,9	Clause 30.1
	Inside enclosure (near battery)	11,4	Clause 30.1
	Air outlet	4,5	60/75
	Inlet pin shroud	6,2	Clause 30.1
	PCB (support switch)	4,8	120
	PCB (control)	6,9	120
	Internal wire	9,9	50
	Battery surface	18,4	For reference
	Motor housing	13,5	65(Class 105)
	Test corner	4,5	65

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Clause	Requirement - Test	Result - Remark	Verdict

Supplementary information: 1) The vacuum cleaner was supplied by its fully charged battery. 2) Operated until steady conditions were established.

11.8 (30)	TABLE: Heating test, thermocouple measurements (SLX225I)		P
	Test voltage (V)	254,4 V	—
	Ambient (°C)	T1=21,3 °C, T2=21,5 °C	—
Thermocouple locations	Max. temperature rise measured, dT (K)	Max.temperature rise limit, dT (K)	
Power switch button/Handle surface	15,4	50	
Power switch terminal	28,7	45	
Ambient of power switch	26,5	For reference	
Outside enclosure(near battery)	27,9	60/75	
Inside enclosure(near battery)	24,4	For reference	
Air outlet	3,1	60/75	
Inlet pin shroud	26,0	For reference	
PCB (support switch)	18,3	120	
Internal wire	13,7	50	
Battery surface	39,7	For reference	
Adaptor surface	23,1	60	
Test corner	9,7	65	
Supplementary information: 1) Power input: 1,06x240=254,4 V. 2) Charged for 24 h. 3) The battery being initially discharged to such an extent that the appliance cannot operate. 4) Tested with adaptor ZD5C200025EUE			

11.8 (31)	TABLE: Heating test, thermocouple measurements (SLX260EL) (with Battery: Shenzhen Bofuneng, Li-ion 18650, 3,7 V×2, 2000 mAh)		P
	Test voltage (V)	Full Charger Battery	—
	Ambient (°C)	T1=24,1 °C, T2=21,6 °C	—
Thermocouple locations	Max. temperature rise measured, dT (K)	Max.temperature rise limit, dT (K)	
Power switch button / Handle grip	5,2	50 and Clause 30.1	
Power switch terminal	8,0	45	
Ambient of power switch	7,6	For reference	
External enclosure (near battery)	5,8	65	
Internal enclosure (near battery)	11,6	For reference	
Inlet pin shroud	9,4	For reference	

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Clause	Requirement - Test	Result - Remark	Verdict
PCB	8,1	120	
Internal wire	14,9	50	
Battery surface	19,8	For reference	
Motor housing	16,2	80(Class 120)	
Test corner	6,1	65	
Supplementary information: 1) The vacuum cleaner was supplied by its fully charged battery. 2) Operated until steady conditions were established.			

11.8 (32)	TABLE: Heating test, thermocouple measurements (SLX207EL) (with Battery: Kan, Li-ion 18650, 3,7 V×2, 2200 mAh)		P
	Test voltage (V)	Full Charger Battery	—
	Ambient (°C).....	T1=22,5 °C, T2=22,8 °C	—
Thermocouple locations	Max. temperature rise measured, dT (K)	Max.temperature rise limit, dT (K)	
Internal wire	15,3	50	
PCB	10,2	120	
Enclosure	10,0	Clause 30.1	
Battery surface	18,2	For reference	
Handle	4,8	50	
Switch button	4,7	60	
Motor housing	14,7	80 (Class 120)	
Test corner	4,1	65	
Supplementary information: 1) The vacuum cleaner was supplied by its fully charged battery. 2) Operated until steady conditions were established.			

11.8 (33)	TABLE: Heating test, thermocouple measurements (SLX207EL) (with Battery: Kan, Li-ion 18650, 3,7 V×2, 2200 mAh)		P
	Test voltage (V)	254,4 V	—
	Ambient (°C).....	T1=22,4 °C, T2=19,4 °C	—
Thermocouple locations	Max. temperature rise measured, dT (K)	Max.temperature rise limit, dT (K)	
Internal wire	1,3	50	
PCB	7,6	120	
Enclosure	4,2	Clause 30.1	
Battery surface	1,8	For reference	
Adaptor surface	9,2	60	

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Clause	Requirement - Test	Result - Remark	Verdict
Handle	2,3	50	
Switch button	2,2	60	
Motor housing	5,8	80 (Class 120)	
Test corner	1,5	65	
Supplementary information: 1) Power input: 1,06x240=254,4 V. 2) Charged for 24 h. 3) The battery being initially discharged to such an extent that the appliance cannot operate.			

11.8 (33)	TABLE: Heating test, thermocouple measurements (SLX225G)		P
	Test voltage (V)	254,4 V	—
	Ambient (°C).....	T1=22,8 °C, T2=24,6 °C	—
Thermocouple locations	Max. temperature rise measured, dT (K)	Max. temperature rise limit, dT (K)	
Internal wire	9,5	50	
PCB	14,7	120	
Enclosure	13,9	Clause 30.1	
Battery surface	26,7	For reference	
Adaptor surface	15,4	60	
Handle	3,1	50	
Switch button	2,5	60	
Motor housing	8,9	80 (Class 120)	
Test corner	4,2	65	
Supplementary information: 1) Power input: 1,06x240=254,4 V. 2) Charged for 24 h. 3) The battery being initially discharged to such an extent that the appliance cannot operate. 4) Tested with E-TEK adaptor (ZD006C140025EUE)			

11.8	TABLE: Heating test, resistance method	N/A
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13.2	TABLE: Leakage current		P
	Heating appliances: 1.15 x rated input (W).....	—	—
	Motor-operated and combined appliances: 1.06 x rated voltage (V).....	243,8 V 254,4 V	—
Leakage current between	I (mA)	Max. allowed I (mA)	
Live part and accessible parts (SLX203A, SLX203C, SLX217E, SLX217G, SLX225E, SLX225G and SLX227E)	0,07	0,35 peak	
Live part and accessible parts (SLX225I, SLX203C, SLX207I, SLX217C, SLX260EL, SLX207EL)	0,01	0,35 peak	

IEC 60335-2-2			
Clause	Requirement - Test	Result - Remark	Verdict

13.3	TABLE: Electric strength		P
Test voltage applied between:		Voltage (V)	Breakdown (Yes/No)
Live part and accessible parts		3000	No

14	TABLE: Transient overvoltages		N/A
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16.2	TABLE: Leakage current		P
Single phase appliances: 1.06 x rated voltage (V)		243,8 V 254,4 V	—
Three phase appliances 1.06 x rated voltage divided by $\sqrt{3}$ (V)		—	—
Leakage current between		I (mA)	Max. allowed I (mA)
Live part and accessible parts (For SLX203A, SLX203C, SLX217E, SLX217G, SLX225E, SLX225G and SLX227E)		0,02	0,25
Live part and accessible parts (SLX203C, SLX207I, SLX217C, SLX225I, SLX260EL, SLX207EL)		0,01	0,25

16.3	TABLE: Electric strength		P
Test voltage applied between:		Voltage (V)	Breakdown (Yes/No)
Live part and accessible parts		3000	No

17	TABLE: Overload protection, thermocouple measurements		N/A
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17	TABLE: Overload protection, resistance method		N/A
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19	Abnormal operation conditions		P
Operational characteristics	YES/NO	Operational conditions	
Are there electronic circuits to control the appliance operation?	YES	--	
Are there "off" or "stand-by" position?	YES for models with "EL" NO for other models	--	
The unintended operation of the appliance results in dangerous	NO	--	

IEC 60335-2-2			
Clause	Requirement - Test	Result - Remark	Verdict

malfunction?							
Sub-clause	Operating conditions description	Test results description	PEC description	EMP 19.11.4	Software type required	19.11.3 PEC	Final result
19.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.11.2	Refer to Clause 19.11.2	No hazard	N/A	N/A	N/A	N/A	P
19.11.4.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.10X	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.B.101	Battery charged for 72h	No hazard	N/A	N/A	N/A	N/A	P

19.7	TABLE: Abnormal operation, locked rotor/moving parts	N/A
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19.9	TABLE: Abnormal operation, running overload	N/A
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19.13	TABLE: Abnormal operation, temperature rises	N/A
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24.1 TABLE: Components information						P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾	
Power adaptor (SLX203B, SLX207B, SLX217B, SLX225B, SLX227B, SLX260B, SLX261B)	Yuyao Linghong Transformer Factory	TDUB-63I	Input: 230 V; 50 Hz; Output: 5,5 V d.c. 0,2 A	IEC 61558-2-6 IEC 61558-1 EN 61558-2-6 EN 61558-1	TUV* (S 50431582)	
	Yuyao Simen Town Wanji Electric Factory	WJG-Y350600200D	Input: 230 V - 240 V; 50 Hz; Output: 6 V d.c. 200 mA	IEC 61558-2-6 IEC 61558-1 EN 61558-2-6 EN 61558-1	Intertek* (04SHS2277-06)	

IEC 60335-2-2					
Clause	Requirement - Test		Result - Remark		Verdict
		WJB-Y350600200D	Input: 230 V - 240 V; 50 Hz; Output: 6 V d.c. 200 mA	IEC 60335-2-29 IEC 60335-1 EN 60335-2-29 EN 60335-1 EN 62233	Intertek* (140401637 SHA-V2)
	New Wise International Holdings Limited	SW-060020EU	Input: 100 V - 240 V; 50 Hz / 60 Hz; Output: 6 V d.c. 200 mA	IEC 61558-2-16 IEC 61558-1 EN 61558-2-16 EN 61558-1	Intertek* (11GZS1631-03)
	E-TEK Electronics Manufactory LTD	ZD5C065020B SE ZD5C065020E UE	Input: 100 V - 240 V; 50 Hz / 60 Hz; Output: 6,5 V d.c. 200 mA	IEC 61558-2-16 IEC 61558-1 EN 61558-2-16 EN 61558-1	TUV* (Z1A 15 08 83241 045)
	E-TEK Electronics Manufactory LTD	ZD006C06502 0EUE, ZD006C06502 0BSE	Input: 100 V – 240 V; 50 / 60 Hz; 0,3 A; Output: 6,5 V d.c. 200 mA	IEC 61558-2-16 IEC 61558-1 IEC 60335-2-29 IEC 60335-1 EN 61558-2-16 EN 61558-1 EN 60335-2-29 EN 60335-1 EN 62233	TUV* (Z1A 17 09 83241 075) TUV* (Z1A 0832 41 0125)
Power adaptor (SLX203C, SLX207C, SLX217C, SLX225C, SLX227C, SLX260C, SLX261C)	Yuyao Linghong Transformer Factory	TDUB-63I	Input: 230 V; 50 Hz; Output: 5,5 V d.c. 0,2 A	IEC 61558-2-6 IEC 61558-1 EN 61558-2-6 EN 61558-1	TUV* (S 50431582)
	Yuyao Simen Town Wanji Electrics Factory	WJG-Y350600200D	Input: 230 V - 240 V; 50 Hz; Output: 6 V d.c. 200 mA	IEC 61558-2-6 IEC 61558-1 EN 61558-2-6 EN 61558-1	Intertek* (04SHS2277-06)
		WJB-Y350600200D	Input: 230 V - 240 V, 50 Hz; Output: 6 V d.c., 200 mA	IEC 60335-2-29 IEC 60335-1 EN 60335-2-29 EN 60335-1 EN 62233	Intertek* (140401637 SHA-V2)
	New Wise International Holdings Limited	SW-090025EU	Input: 100 V - 240 V, 50 Hz / 60 Hz; Output: 9 V d.c., 250 mA	IEC 61558-2-16 IEC 61558-1 EN 61558-2-16 EN 61558-1	Intertek* (11GZS1631-03)
	E-TEK Electronics Manufactory LTD	ZD5C080020B SE	Input: 100 V - 240 V; 50 Hz / 60 Hz; Output: 8 V d.c. 200 mA	IEC 61558-2-16 IEC 61558-1 EN 61558-2-16 EN 61558-1	TUV* (Z1A 15 08 83241 045)
ZD5C080020E UE					

IEC 60335-2-2					
Clause	Requirement - Test		Result - Remark		Verdict
	E-TEK Electronics Manufactory LTD	ZD006C08002 0EUE, ZD006C08002 0BSE	Input: 100 V – 240 V; 50 / 60 Hz; 0,3 A; Output: 8 V d.c. 200 mA	IEC 61558-2-16 IEC 61558-1 IEC 60335-2-29 IEC 60335-1 EN 61558-2-16 EN 61558-1 EN 60335-2-29 EN 60335-1 EN 62233	TUV* (Z1A 17 09 83241 075) TUV* (Z1A 0832 41 0125)
Power adaptor (SLX203D, SLX207D, SLX217D, SLX225D, SLX227D, SLX260D, SLX261D)	Yuyao Linghong Transformer Factory	TDUB-63V09	Input: 230 V; 50 Hz; Output: 9 V d.c. 0,25 A	IEC 61558-2-6 IEC 61558-1 EN 61558-2-6 EN 61558-1	TUV* (S 50431582)
	Yuyao Simen Town Wanji Electric Factory	WJG-Y350900250D	Input: 230 V - 240 V; 50 Hz; Output: 9 V d.c. 250mA	IEC 61558-2-6 IEC 61558-1 EN 61558-2-6 EN 61558-1	Intertek* (04SHS2277 -06)
		WJB-Y350900250D	Input: 230 V - 240 V; 50 Hz; Output: 9 V d.c. 250 mA	IEC 60335-2-29 IEC 60335-1 EN 60335-2-29 EN 60335-1 EN 62233	Intertek* (140401637 SHA-V2)
	New Wise International Holdings Limited	SW-100025EU	Input: 100 V - 240 V; 50 Hz / 60 Hz; Output: 10 V d.c. 250 mA	IEC 61558-2-16 IEC 61558-1 EN 61558-2-16 EN 61558-1	Intertek* (11GZS1631 -03)
	E-TEK Electronics Manufactory LTD	ZD5C096025B SE ZD5C096025 EUE	Input: 100 V - 240 V; 50 Hz / 60 Hz; Output: 9,6 V d.c. 250 mA	IEC 61558-2-16 IEC 61558-1 EN 61558-2-16 EN 61558-1	TUV* (Z1A 15 08 83241 045)
	E-TEK Electronics Manufactory LTD	ZD006C09602 5EUE, ZD006C09602 5BSE	Input: 100 V – 240 V; 50 / 60 Hz; 0,3 A; Output: 9,6 V d.c. 250 mA	IEC 61558-2-16 IEC 61558-1 IEC 60335-2-29 IEC 60335-1 EN 61558-2-16 EN 61558-1 EN 60335-2-29 EN 60335-1 EN 62233	TUV* (Z1A 17 09 83241 075) TUV* (Z1A 0832 41 0125)
Power adaptor (SLX203E, SLX207E, SLX217E,	Yuyao Linghong Transformer Factory	TDUB-63V09	Input: 230 V; 50 Hz; Output: 9 V d.c. 0,25 A	IEC 61558-2-6 IEC 61558-1 EN 61558-2-6 EN 61558-1	TUV* (S 50431582)

IEC 60335-2-2					
Clause	Requirement - Test		Result - Remark		Verdict
SLX225E, SLX227E, SLX260E, SLX261E)	Yuyao Simen Town Wanji Electrics Factory	WJG- Y350900250D	Input: 230 - 240 V~; 50 Hz; Output: 9 V d.c. 250 mA	IEC 61558-2-6 IEC 61558-1 EN 61558-2-6 EN 61558-1	Intertek* (04SHS2277 -06)
		WJB- Y350900250D	Input: 230 V - 240 V~; 50 Hz; Output: 9 V d.c. 250 mA	IEC 60335-2-29 IEC 60335-1 EN 60335-2-29 EN 60335-1 EN 62233	Intertek* (140401637 SHA-V2)
	New Wise International Holdings Limited	SW- 120025EU	Input: 100 V - 240 V; 50 Hz / 60 Hz; Output: 12 V d.c. 250 mA	IEC 61558-2-16 IEC 61558-1 EN 61558-2-16 EN 61558-1	Intertek* (11GZS1631 -03)
	E-TEK Electronics Manufactory LTD	ZD5C110025B SE	Input: 100 V - 240 V; 50 Hz / 60 Hz; Output: 11 V d.c. 250 mA	IEC 61558-2-16 IEC 61558-1 EN 61558-2-16 EN 61558-1	TUV* (Z1A 15 08 83241 045)
		ZD5C110025E UE			
E-TEK Electronics Manufactory LTD	ZD006C11002 5EUE, ZD006C11002 5BSE	Input: 100 V – 240 V; 50 / 60 Hz; 0,3 A; Output: 11 V d.c. 250 mA	IEC 61558-2-16 IEC 61558-1 IEC 60335-2-29 IEC 60335-1 EN 61558-2-16 EN 61558-1 EN 60335-2-29 EN 60335-1 EN 62233	TUV* (Z1A 17 09 83241 075) TUV* (Z1A 0832 41 0125)	
Power adaptor (SLX207EL, SLX217EL, SLX225EL, SLX260EL, SLX261EL)	New Wise International Holdings Limited	SW- 120025EU	Input: 100 V - 240 V; 50 Hz / 60 Hz; Output: 12 V d.c. 250 mA	IEC 61558-2-16 IEC 61558-1 EN 61558-2-16 EN 61558-1	Intertek* (11GZS1631 -03)
	E-TEK Electronics Manufactory LTD	ZD5C110025B SE	Input: 100 V - 240 V; 50 Hz / 60 Hz; Output: 11 V d.c. 250 mA	IEC 61558-2-16 IEC 61558-1 EN 61558-2-16 EN 61558-1	TUV* (Z1A 15 08 83241 045)
		ZD5C110025E UE			
E-TEK Electronics Manufactory LTD	ZD5C096025B SE ZD5C096025E UE	Input: 100 V - 240 V; 50 Hz / 60 Hz; Output: 9,6 V d.c. 250 mA	IEC 61558-2-16 IEC 61558-1 EN 61558-2-16 EN 61558-1	TUV* (Z1A 15 08 83241 045)	

IEC 60335-2-2					
Clause	Requirement - Test		Result - Remark		Verdict
	E-TEK Electronics Manufactory LTD	ZD006C09602 5EUE, ZD006C09602 5BSE	Input: 100 V – 240 V; 50 / 60 Hz; 0,3 A; Output: 9,6 V d.c. 250 mA	IEC 61558-2-16 IEC 61558-1 IEC 60335-2-29 IEC 60335-1 EN 61558-2-16 EN 61558-1 EN 60335-2-29 EN 60335-1 EN 62233	TUV* (Z1A 17 09 83241 075) TUV* (Z1A 0832 41 0125)
Power adaptor (SLX207F, SLX207G, SLX217F, SLX217G, SLX225F, SLX225G, SLX260F, SLX260G, SLX261F, SLX261G)	Yuyao Linghong Transformer Factory	TDUB-61	Input: 230 V; 50 Hz; Output: 12 V d.c. 0,4 A	IEC 61558-2-6 IEC 61558-1 EN 61558-2-6 EN 61558-1	TUV* (S 50431582)
	Yuyao Linghong Transformer Factory	TDUB-63V12	Input: 230 V; 50 Hz; Output: 12 V d.c. 250 mA	IEC 61558-2-6 IEC 61558-1 EN 61558-2-6 EN 61558-1	TUV* (S 50431582)
	Yuyao Simen Town Wanji Electrics Factory	WJG-Y351200250D	Input: 230 V - 240 V; 50 Hz; Output: 12 V d.c. 250 mA	IEC 61558-2-6 IEC 61558-1 EN 61558-2-6 EN 61558-1	Intertek* (04SHS2277 -06)
		WJB-Y351200250D	Input: 230 V- 240 V~; 50 Hz; Output: 12 V d.c. 250 mA	IEC 60335-2-29 IEC 60335-1 EN 60335-2-29 EN 60335-1 EN 62233	Intertek* (140401637 SHA-V2)
	New Wise International Holdings Limited	SW-150025EU	Input: 100 V - 240 V; 50 Hz / 60 Hz; Output: 15 V d.c. 250 mA	IEC 61558-2-16 IEC 61558-1 EN 61558-2-16 EN 61558-1	Intertek* (11GZS1631 -03)
	E-TEK Electronics Manufactory LTD	ZD5C140025E UE, ZD5C140025B SE	Input: 100 V - 240 V; 50 Hz / 60 Hz; Output: 14 V d.c. 250 mA	IEC 61558-2-16 IEC 61558-1 EN 61558-2-16 EN 61558-1	TUV* (Z1A 15 08 83241 045)
	E-TEK Electronics Manufactory LTD	ZD006C14002 5EUE, ZD006C14002 5BSE	Input: 100 V – 240 V; 50 / 60 Hz; Output: 14 V d.c. 250 mA	IEC 61558-2-16 IEC 61558-1 IEC 60335-2-29 IEC 60335-1 EN 61558-2-16 EN 61558-1 EN 60335-2-29 EN 60335-1 EN 62233	TUV* (Z1A 17 09 83241 075) TUV* (Z1A 0832 41 0125)
Power adaptor (SLX207H, SLX217H, SLX225H,	Yuyao Simen Town Wanji Electrics Factory	WJG-Y411500250D	Input: 230 V – 240 V; 50 Hz; Output: 15 V d.c. 250 mA	IEC 61558-2-6 IEC 61558-1 EN 61558-2-6 EN 61558-1	Intertek* (04SHS2277 -06)

IEC 60335-2-2					
Clause	Requirement - Test		Result - Remark		Verdict
SLX260H, SLX261H)		WJB- Y411500250D	Input: 230 V-240 V~; 50 Hz; Output: 15 V d.c. 250 mA	IEC 60335-2-29 IEC 60335-1 EN 60335-2-29 EN 60335-1 EN 62233	Intertek* (140401637 SHA-V2)
	New Wise International Holdings Limited	SW- 180025EU	Input: 100 V – 240 V; 50 Hz / 60 Hz; Output: 18 V d.c. 250 mA	IEC 61558-2-16 IEC 61558-1 EN 61558-2-16 EN 61558-1	Intertek* (11GZS1631 -03)
	E-TEK Electronics Manufactory LTD	ZD5C170025E UE, ZD5C170025B SE	Input: 100 V – 240 V; 50 Hz / 60 Hz; Output: 17 V d.c. 250 mA	IEC 61558-2-16 IEC 61558-1 EN 61558-2-16 EN 61558-1	TUV* (Z1A 15 08 83241 045)
Power adaptor (SLX207I, SLX217I, SLX225I)	Yuyao Simen Town Wanji Electrics Factory	WJG- Y411800250D	Input: 230 V – 240 V; 50 Hz; Output: 18 V d.c. 250 mA	IEC 61558-2-6 IEC 61558-1 EN 61558-2-6 EN 61558-1	Intertek* (04SHS2277 -06)
		WJB- Y411800250D	Input: 230-240 V~; 50 Hz; Output: 18 V d.c. 250 mA	IEC 60335-2-29 IEC 60335-1 EN 60335-2-29 EN 60335-1 EN 62233	Intertek* (140401637 SHA-V2)
	New Wise International Holdings Limited	SW- 200025EU	Input: 100 V – 240 V; 50 Hz / 60 Hz; Output: 20 V d.c. 250 mA	IEC 61558-2-16 IEC 61558-1 EN 61558-2-16 EN 61558-1	Intertek* (11GZS1631 -03)
	E-TEK Electronics Manufactory LTD	ZD5C200025E UE, ZD5C200025B SE	Input: 100 V – 240 V; 50 Hz / 60 Hz; Output: 20 V d.c. 250 mA	IEC 61558-2-16 IEC 61558-1 EN 61558-2-16 EN 61558-1	TUV* (Z1A 15 08 83241 045)
Motor (SLX203B, SLX207B, SLX217B, SLX225B, SLX227B, SLX260B, SLX261B)	Ningbo Huaqun Dianji Electric Appliance Co., Ltd.	RS380	3,6 V d.c.	IEC 60335-2-2 IEC 60335-1 EN 60335-2-2 EN 60335-1	Tested with appliance
(Alternative)	Yuyao Baida	BRS380SA	3,6 V d.c.	IEC 60335-2-2 IEC 60335-1 EN 60335-2-2 EN 60335-1	Tested with appliance

IEC 60335-2-2					
Clause	Requirement - Test			Result - Remark	Verdict
Motor (SLX203C, SLX207C, SLX217C, SLX225C, SLX227C, SLX260C, SLX261C)	Ningbo Huaqun Dianji Electric Appliance Co., Ltd.	RS380	4,8 V d.c.	IEC 60335-2-2 IEC 60335-1 EN 60335-2-2 EN 60335-1	Tested with appliance
(Alternative)	Yuyao Baida	BRS380SA	4,8 V d.c.	IEC 60335-2-2 IEC 60335-1 EN 60335-2-2 EN 60335-1	Tested with appliance
Motor (SLX203D, SLX227D)	Ningbo Huaqun Dianji Electric Appliance Co., Ltd.	RS380	6,0 V d.c.	IEC 60335-2-2 IEC 60335-1 EN 60335-2-2 EN 60335-1	Tested with appliance
(Alternative)	Yuyao Baida	BRS380SA	6.0 V d.c.	IEC 60335-2-2 IEC 60335-1 EN 60335-2-2 EN 60335-1	Tested with appliance
Motor (SLX207D, SLX217D, SLX225D, SLX260D, SLX261D)	Ningbo Huaqun Dianji Electric Appliance Co., Ltd.	RS390	6,0 V d.c.	IEC 60335-2-2 IEC 60335-1 EN 60335-2-2 EN 60335-1	Tested with appliance
(Alternative)	Yuyao Baida	BRS390SA	6,0 V d.c.	IEC 60335-2-2 IEC 60335-1 EN 60335-2-2 EN 60335-1	Tested with appliance
Motor (SLX203E, SLX227E)	Ningbo Huaqun Dianji Electric Appliance Co., Ltd.	RS380	7,2 V d.c.	IEC 60335-2-2 IEC 60335-1 EN 60335-2-2 EN 60335-1	Tested with appliance
(Alternative)	Yuyao Baida	BRS380SA	7,2 V d.c.	IEC 60335-2-2 IEC 60335-1 EN 60335-2-2 EN 60335-1	Tested with appliance
Motor (SLX207E, SLX217E, SLX225E, SLX260E, SLX261E, SLX207EL, SLX217EL, SLX225EL, SLX260EL, SLX261EL)	Ningbo Huaqun Dianji Electric Appliance Co., Ltd.	RS390	7,2 V d.c.	IEC 60335-2-2 IEC 60335-1 EN 60335-2-2 EN 60335-1	Tested with appliance

IEC 60335-2-2					
Clause	Requirement - Test			Result - Remark	Verdict
(Alternative)	Yuyao Baida	BRS390SA	7,2 V d.c.	IEC 60335-2-2 IEC 60335-1 EN 60335-2-2 EN 60335-1	Tested with appliance
(Alternative)	Yuyao Baida	BRS-540SH	7,2 V d.c.	IEC 60335-2-2 IEC 60335-1 EN 60335-2-2 EN 60335-1	Tested with appliance
Motor (SLX207F, SLX217F, SLX225F, SLX260F, SLX261F)	Ningbo Huaqun Dianji Electric Appliance Co., Ltd.	RS390	8,4 V d.c.	IEC 60335-2-2 IEC 60335-1 EN 60335-2-2 EN 60335-1	Tested with appliance
(Alternative)	Yuyao Baida	BRS390SA	8,4 V d.c.	IEC 60335-2-2 IEC 60335-1 EN 60335-2-2 EN 60335-1	Tested with appliance
Motor (SLX207G, SLX217G, SLX225G, SLX260G, SLX261G)	Ningbo Huaqun Dianji Electric Appliance Co., Ltd.	RS390	9,6 V d.c.	IEC 60335-2-2 IEC 60335-1 EN 60335-2-2 EN 60335-1	Tested with appliance
(Alternative)	Yuyao Baida	BRS390SA	9,6 V d.c.	IEC 60335-2-2 IEC 60335-1 EN 60335-2-2 EN 60335-1	Tested with appliance
Motor (SLX207H, SLX217H, SLX225H, SLX260H, SLX261H)	Ningbo Huaqun Dianji Electric Appliance Co., Ltd.	RS540	12 V d.c.	IEC 60335-2-2 IEC 60335-1 EN 60335-2-2 EN 60335-1	Tested with appliance
(Alternative)	Yuyao Baida	BRS-540SH	12 V d.c.	IEC 60335-2-2 IEC 60335-1 EN 60335-2-2 EN 60335-1	Tested with appliance
Motor (SLX207I, SLX217I, SLX225II)	Ningbo Huaqun Dianji Electric Appliance Co., Ltd.	RS540	14,4 V d.c.	IEC 60335-2-2 IEC 60335-1 EN 60335-2-2 EN 60335-1	Tested with appliance
(Alternative)	Yuyao Baida	BRS-540SH	14,4 V d.c.	IEC 60335-2-2 IEC 60335-1 EN 60335-2-2 EN 60335-1	Tested with appliance

IEC 60335-2-2					
Clause	Requirement - Test		Result - Remark		Verdict
Battery (SLX203B, SLX207B, SLX217B, SLX225B, SLX227B, SLX260B, SLX261B)	J&Y Technology Co., Ltd.	Ni-MH AA1400	1,2 V×3, 1400 mAh	IEC 62133	Intertek* (Report No.: HK1210016 9-1) + tested with appliance
(Alternative)	J&Y Technology Co., Ltd.	Ni-MH SC1400mAh	1,2 V×3, 1400 mAh	IEC 62133	CTI* (Report No.: EASZF0502 0008R1) + tested with appliance
(Alternative)	Shenzhen GREPOW Battery Co., Ltd.	Ni-MH AA1400mAh	1,2 V×3, 1400 mAh	IEC 62133	LCIE* (Report No.: BVCB11NO 0129YCSP) + tested with appliance
(Alternative)	Shenzhen GREPOW Battery Co., Ltd.	Ni-MH SC1400mAh	1,2 V×3, 1400 mAh	IEC 62133	CB* (DK-44150-UL) + tested with appliance
Battery (SLX203C, SLX207C, SLX217C, SLX225C, SLX227C, SLX260C, SLX261C)	J&Y Technology Co., Ltd.	Ni-MH AA1400	1,2 V×4, 1400 mAh	IEC 62133	Intertek* (Report No.: HK1210016 9-1) + tested with appliance
(Alternative)	J&Y Technology Co., Ltd.	Ni-MH SC1400mAh	1,2 V×4, 1400 mAh	IEC 62133	CTI* (Report No.: EASZF0502 0008R1) + tested with appliance
(Alternative)	Shenzhen GREPOW Battery Co., Ltd.	Ni-MH AA1400mAh	1,2 V×4, 1400 mAh	IEC 62133	LCIE* (Report No.: BVCB11NO 0129YCSP) + tested with appliance
(Alternative)	Shenzhen GREPOW Battery Co., Ltd.	Ni-MH SC1400mAh	1,2 V×4, 1400 mAh	IEC 62133	CB* (DK-44150-UL) + tested with appliance

IEC 60335-2-2					
Clause	Requirement - Test			Result - Remark	Verdict
Battery (SLX203D, SLX207D, SLX217D, SLX225D, SLX227D, SLX260D, SLX261D)	J&Y Technology Co., Ltd.	Ni-MH AA1400	1,2 V×5, 1400 mAh	IEC 62133	Intertek* (Report No.: HK1210016 9-1) + tested with appliance
(Alternative)	J&Y Technology Co., Ltd.	Ni-MH SC1400mAh	1,2 V×5, 1400 mAh	IEC 62133	CTI* (Report No.: EASZF0502 0008R1) + tested with appliance
(Alternative)	Shenzhen GREPOW Battery Co., Ltd.	Ni-MH AA1400mAh	1,2 V×5, 1400 mAh	IEC 62133	LCIE* (Report No.: BVCB11NO 0129YCSP) + tested with appliance
(Alternative)	Shenzhen GREPOW Battery Co., Ltd.	Ni-MH SC1400mAh	1,2 V×5, 1400 mAh	IEC 62133	CB* (DK-44150-UL) + tested with appliance
Battery (SLX203E, SLX207E, SLX217E, SLX225E, SLX227E, SLX260E, SLX261E)	J&Y Technology Co., Ltd.	Ni-MH AA1400	1,2 V×6, 1400 mAh	IEC 62133	Intertek* (Report No.: HK1210016 9-1) + tested with appliance
(Alternative)	J&Y Technology Co., Ltd.	Ni-MH SC1400mAh	1,2 V×6, 1400 mAh	IEC 62133	CTI* (Report No.: EASZF0502 0008R1) + tested with appliance
(Alternative)	Shenzhen GREPOW Battery Co., Ltd.	Ni-MH AA1400mAh	1,2 V×6, 1400 mAh	IEC 62133	LCIE* (Report No.: BVCB11NO 0129YCSP) + tested with appliance
(Alternative)	Shenzhen GREPOW Battery Co., Ltd.	Ni-MH SC1400mAh	1,2 V×6, 1400 mAh	IEC 62133	CB* (DK-44150-UL) + tested with appliance

IEC 60335-2-2					
Clause	Requirement - Test			Result - Remark	Verdict
Battery (SLX207EL, SLX217EL, SLX225EL, SLX260EL, SLX261EL)	Guangdong K-Tech Energy Technology Co., Ltd.	Li-ion 18650	3,7 V×2, 2000 mAh	IEC 62133	TUV* (JPTUV-059086 + tested with appliance)
(Alternative)	Wuxi City Mingyang Battery Co., Ltd.	Li-ion 18650	3,7 V×2, 1300 mAh	IEC 62133	SGS* (FI-15858 + tested with appliance)
(Alternative)	Wuxi City Mingyang Battery Co., Ltd.	Li-ion 18650	3,7 V×2, 2000 mAh	IEC 62133	SGS* (FI-15858 + tested with appliance)
(Alternative)	Shenzhen Bofuneng Battery Co., Ltd.	Li-ion 18650	3,7 V×2, 1300 mAh	IEC 62133	SGS* (FI-15065)
(Alternative)	Shenzhen Bofuneng Battery Co., Ltd.	Li-ion 18650	3,7 V×2, 1800 mAh	IEC 62133	SGS* (FI-18097)
(Alternative)	Shenzhen Bofuneng Battery Co., Ltd.	Li-ion 18650	3,7 V×2, 2000 mAh	IEC 62133	SGS* (FI-18097)
(Alternative)	Zhejiang Kan Battery Co., Ltd.	Li-ion 18650	3,7 V×2, 2000 mAh	IEC 62133	TUV* (SG PSB-BT-00916)
(Alternative)	Zhejiang Kan Battery Co., Ltd.	Li-ion 18650	3,7 V×2, 2200 mAh	IEC 62133	TUV* (SG PSB-BT-00911)
Battery (SLX207F, SLX217F, SLX225F, SLX260F, SLX261F)	J&Y Technology Co., Ltd.	Ni-MH AA1400	1,2 V×7, 1400 mAh	IEC 62133	Intertek* (Report No.: HK1210016 9-1) +tested with appliance
(Alternative)	J&Y Technology Co., Ltd.	Ni-MH SC1400mAh	1,2 V×7, 1400 mAh	IEC 62133	CTI* (Report No.: EASZF0502 0008R1) +tested with appliance
(Alternative)	Shenzhen Grepow Battery Co., Ltd.	Ni-MH AA1400mAh	1,2 V×7, 1400 mAh	IEC 62133	LCIE* (Report No.: BVCB11NO 0129YCSP) +tested with appliance

IEC 60335-2-2					
Clause	Requirement - Test			Result - Remark	Verdict
(Alternative)	Shenzhen Grepow Battery Co., Ltd.	Ni-MH SC1400mAh	1,2 V×7, 1400 mAh	IEC 62133	CB* (DK-44150-UL) +tested with appliance
Battery (SLX207G, SLX217G, SLX225G, SLX260G, SLX261G)	J&Y Technology Co., Ltd.	Ni-MH AA1400	1,2 V×8, 1400 mAh	IEC 62133	Intertek* (Report No.: HK1210016 9-1) +tested with appliance
(Alternative)	J&Y Technology Co., Ltd.	Ni-MH SC1400mAh	1,2 V×8, 1400 mAh	IEC 62133	CTI* (Report No.: EASZF0502 0008R1) +tested with appliance
(Alternative)	Shenzhen GREPOW Battery Co., Ltd.	Ni-MH AA1400mAh	1,2V×8, 1400 mAh	IEC 62133	LCIE* (Report No.: BVCB11NO 0129YCSP) +tested with appliance
(Alternative)	Shenzhen GREPOW Battery Co., Ltd.	Ni-MH SC1400mAh	1,2V×8, 1400 mAh	IEC 62133	CB* (DK-44150-UL) +tested with appliance
Battery (SLX207H, SLX217H, SLX225H, SLX260H, SLX261H)	J&Y Technology Co., Ltd.	Ni-MH AA1400	1,2 V×10, 1400 mAh	IEC 62133	Intertek* (Report No.: HK1210016 9-1) +tested with appliance
(Alternative)	J&Y Technology Co., Ltd.	Ni-MH SC1400mAh	1,2 V×10, 1400 mAh	IEC 62133	CTI* (Report No.: EASZF0502 0008R1) +tested with appliance
(Alternative)	Shenzhen GREPOW Battery Co., Ltd.	Ni-MH AA1400mAh	1,2V×10, 1400 mAh	IEC 62133	LCIE* (Report No.: BVCB11NO 0129YCSP) +tested with appliance

IEC 60335-2-2					
Clause	Requirement - Test			Result - Remark	Verdict
(Alternative)	Shenzhen GREPOW Battery Co., Ltd.	Ni-MH SC1400mAh	1,2V×10, 1400 mAh	IEC 62133	CB* (DK-44150-UL) +tested with appliance
Battery (SLX207I, SLX217I, SLX225I)	J&Y Technology Co., Ltd.	Ni-MH AA1400	1,2 V×12, 1400 mAh	IEC 62133	Intertek* (Report No.: HK1210016 9-1) +tested with appliance
(Alternative)	Shenzhen GREPOW Battery Co., Ltd.	Ni-MH AA1400mAh	1,2V×12, 1400 mAh	IEC 62133	LCIE* (Report No.: BVCB11NO 0129YCSP) +tested with appliance
Switch	Zhejiang Jialong Electron Co., Ltd.	JL	Marked: 250 V~, 1,5 A (tested at 15,6 V d.c.)	IEC 60335-2-2 IEC 60335-1 EN 60335-2-2 (2013) EN 60335-1 (2017)	Tested with appliance
(Alternative)	Zhejiang Jialong Electron Co., Ltd.	SSA-22	Marked: 250 V~, 1,5 A (tested at 15,6 V d.c.)	IEC 60335-2-2 IEC 60335-1 EN 60335-2-2 (2013) EN 60335-1 (2017)	Tested with appliance
(Alternative)	Zhejiang Jialong Electron Co., Ltd.	JL	Marked: 250 V~, 3 A (tested at 15,6 V d.c.)	IEC 60335-2-2 IEC 60335-1 EN 60335-2-2 (2013) EN 60335-1 (2017)	Tested with appliance
PCB	Yuyao Zhongtai Circuit Board Co., Ltd.	Tested with appliance	Min. thickness: 1,0 mm	IEC 60335-2-2 IEC 60335-1 EN 60335-2-2 (2013) EN 60335-1 (2017)	Tested with appliance
Enclosure/ Power switch button/ Charge base enclosure/DC connector plastic part		ABS	Min. thickness: 2,0 mm	IEC 60335-2-2 IEC 60335-1 EN 60335-2-2 (2013) EN 60335-1 (2017)	Tested with appliance

IEC 60335-2-2					
Clause	Requirement - Test		Result - Remark		Verdict
Internal wire	Yuyao Shi Jianmei Dianqi Dianlan Youxian Gongsi Guangming Dianxian Chang	60227 IEC	300/300 V, 0,3 mm ² , 300/500 V, 0,5 mm ² , 0,75 mm ²	IEC 60335-2-2 IEC 60335-1 EN 60335-2-2 (2013) EN 60335-1 (2017)	Tested with appliance
(Alternative)	Yuyao Shi Riyue Xianlan Gongmao Youxian Gongsi Xianlan Fengongsi	60227 IEC	300/300 V, 0,3 mm ² , 300/500 V, 0,5 mm ² , 0,75 mm ²	IEC 60335-2-2 IEC 60335-1 EN 60335-2-2 (2013) EN 60335-1 (2017)	Tested with appliance
(Alternative)	Yuyao Shi Lianghui Dianxian Catou Chang	60227 IEC	300/300 V, 0,3 mm ² , 300/500 V, 0,5 mm ² , 0,75 mm ²	IEC 60335-2-2 IEC 60335-1 EN 60335-2-2 (2013) EN 60335-1 (2017)	Tested with appliance
(Alternative)	Yuyao Cheng Zhu Electric Appliance Fy	1007	300 V, 80 °C, 18-26 AWG	IEC 60335-2-2 IEC 60335-1 EN 60335-2-2 (2013) EN 60335-1 (2017) UL 758	UL* (E231643) + tested with appliance
(Alternative)	Dongguan Zhongzheng Wire & Cable Tech Co., Ltd.	1007	300 V, 80 °C, 18 - 26AWG	IEC 60335-2-2 IEC 60335-1 EN 60335-2-2 (2013) EN 60335-1 (2017) UL 758	UL* (E336285) + Tested with appliance
(Alternative)	Xinya Electronic Co., Ltd.	1007	300V, 80 oC, 18-26 AWG	IEC 60335-2-2 IEC 60335-1 EN 60335-2-2 (2013) EN 60335-1 (2017) UL 758	UL* (E170689) + tested with appliance
(Alternative)	Kunshan Xinghongmeng Electronic Co Ltd	1007	300 V, 80 oC, 18-26 AWG	IEC 60335-2-2 IEC 60335-1 EN 60335-2-2 (2013) EN 60335-1 (2017) UL 758	UL* (E315421) + tested with appliance

IEC 60335-2-2			
Clause	Requirement - Test	Result - Remark	Verdict

(Alternative)	Dongguan Wenchang Electronic Co., Ltd.	1007	300 V, 80 °C, 18 - 26 AWG,	IEC 60335-2-2 IEC 60335-1 EN 60335-2-2 (2013) EN 60335-1 (2017) UL 758	UL* (E214500) + Tested with appliance
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Supplementary information:
 1) Provided evidence ensures the agreed level of compliance. See OD-CB2039.

28.1	TABLE: Threaded part torque test	N/A
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29.1	TABLE: Clearances					P
	Overvoltage category : II				—	
		Type of insulation:				
Rated impulse voltage (V):	Min. cl (mm)	Basic (mm)	Supplementary (mm)	Reinforced (mm)	Functional (mm)	Verdict / Remark
330	0,2* / 0,5 / 0,8**	--	--	--	--	N/A
500	0,2* / 0,5 / 0,8**	--	--	--	--	N/A
800	0,2* / 0,5 / 0,8**	--	--	--	--	N/A
1 500	0,5 / 0,8** / 1,0***	--	--	--	--	N/A
2 500	1,5 / 2,0***	1)	2)	--	3)	P
4 000	3,0 / 3,5***	--	--	4)	--	P
6 000	5,5 / 6,0***	--	--	--	--	N/A
8 000	8,0 / 8,5***	--	--	--	--	N/A
10 000	11,0 / 11,5***	--	--	--	--	N/A

Supplementary information:
 *) For tracks on printed circuit boards if pollution degree 1 and 2
 **) For pollution degree 3
 ***) If the construction is affected by wear, distortion, movement of the parts or during assembly

1) Basic insulation: Covered by cases in reinforced and supplementary;
 2) Supplementary insulation: Adaptor tested with appliance
 3) Functional insulation: Adaptor tested with appliance
 4) Reinforced insulation: Adaptor tested with appliance

29.2	TABLE: Creepage distances, basic, supplementary and reinforced insulation	P
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IEC 60335-2-2											
Clause	Requirement - Test							Result - Remark			Verdict
Working voltage (V)	Creepage distance (mm) Pollution degree							Type of insulation			Verdict
	1	2			3						
	Material group				Material group						
	I	II	IIIa/IIIb	I	II	IIIa/IIIb*)	B**)	S**)	R**)	Verdict	
≤50	0,18	0,6	0,85	1,2	1,5	1,7	1,9		—	—	N/A
≤50	0,18	0,6	0,85	1,2	1,5	1,7	1,9	—		—	N/A
≤50	0,36	1,2	1,7	2,4	3,0	3,4	3,8	—	—		N/A
125	0,28	0,75	1,05	1,5	1,9	2,1	2,4		—	—	N/A
125	0,28	0,75	1,05	1,5	1,9	2,1	2,4	—		—	N/A
125	0,56	1,5	2,1	3,0	3,8	4,2	4,8	—	—		N/A
250	0,56	1,25	1,8	2,5	3,2	3,6	4,0		—	—	P
250	0,56	1,25	1,8	2,5	3,2	3,6	4,0	—		—	P
250	1,12	2,5	3,6	5,0	6,4	7,2	8,0	—	—		P
400	1,0	2,0	2,8	4,0	5,0	5,6	6,3		—	—	N/A
400	1,0	2,0	2,8	4,0	5,0	5,6	6,3	—		—	N/A
400	2,0	4,0	5,6	8,0	10,0	11,2	12,6	—	—		N/A
500	1,3	2,5	3,6	5,0	6,3	7,1	8,0		—	—	N/A
500	1,3	2,5	3,6	5,0	6,3	7,1	8,0	—		—	N/A
500	2,6	5,0	7,2	10,0	12,6	14,2	16,0	—	—		N/A
>630 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0		—	—	N/A
>630 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	—		—	N/A
>630 and ≤800	3,6	6,4	9,0	12,6	16,0	18,0	20,0	—	—		N/A
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5		—	—	N/A
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5	—		—	N/A
>800 and ≤1000	4,8	8,0	11,2	16,0	20,0	22,0	25,0	—	—		N/A
>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0		—	—	N/A
>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0	—		—	N/A
>1000 and ≤1250	6,4	10,0	14,2	20,0	25,0	28,0	32,0	—	—		N/A
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0		—	—	N/A
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	—		—	N/A
>1250 and ≤1600	8,4	12,6	18,0	25,0	32,0	36,0	40,0	—	—		N/A
>1600 and ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0		—	—	N/A

IEC 60335-2-2											
Clause	Requirement - Test							Result - Remark			Verdict
>1600 and ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0	—		—	N/A
>1600 and ≤2000	11,2	16,0	22,0	32,0	40,0	44,0	50,0	—	—		N/A
>2000 and ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0		—	—	N/A
>2000 and ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0	—		—	N/A
>2000 and ≤2500	15,0	20,0	28,0	40,0	50,0	56,0	64,0	—	—		N/A
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0		—	—	N/A
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0	—		—	N/A
>2500 and ≤3200	20,0	25,0	36,0	50,0	64,0	72,0	80,0	—	—		N/A
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0		—	—	N/A
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	—		—	N/A
>3200 and ≤4000	25,0	32,0	44,0	64,0	80,0	90,0	100,0	—	—		N/A
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0		—	—	N/A
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	—		—	N/A
>4000 and ≤5000	32,0	40,0	56,0	80,0	100,0	112,0	126,0	—	—		N/A
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0		—	—	N/A
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0	—		—	N/A
>5000 and ≤6300	40,0	50,0	72,0	100,0	126,0	142,0	160,0	—	—		N/A
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0		—	—	N/A
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	—		—	N/A
>6300 and ≤8000	50,0	64,0	90,0	126,0	160,0	180,0	200,0	—	—		N/A
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0		—	—	N/A
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	—		—	N/A
>8000 and ≤10000	64,0	80,0	112,0	160,0	200,0	220,0	250,0	—	—		N/A
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0		—	—	N/A
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	—		—	N/A
>10000 and ≤12500	80,0	100,0	142,0	200,0	250,0	280,0	320,0	—	—		N/A
Supplementary information:											
*) Material group IIIb is allowed if the working voltage does not exceed 50 V											
**) B = Basic insulation, S = Supplementary insulation, R = Reinforced insulation											

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

IEC 60335-2-2								
Clause	Requirement - Test				Result - Remark			Verdict
	1	2			3			
		Material group			Material group			
		I	II	IIIa/IIIb	I	II	IIIa/IIIb*)	Verdict / Remark
≤10	0,08	0,4	0,4	0,4	1,0	1,0	1,0	N/A
50	0,16	0,56	0,8	1,0	1,4	1,6	1,8	N/A
125	0,25	0,71	1,0	1,4	1,8	2,0	2,2	N/A
250	0,42	1,0	1,4	2,0	2,5	2,8	3,2	P
400	0,75	1,6	2,2	3,2	4,0	4,5	5,0	N/A
500	1,0	2,0	2,8	4,0	5,0	5,6	6,3	N/A
>630 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	N/A
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5	N/A
>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0	N/A
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	N/A
>1600 and ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0	N/A
>2000 and ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0	N/A
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0	N/A
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	N/A
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	N/A
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0	N/A
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	N/A
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	N/A
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	N/A

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

IEC60335_2_2F – Annex I			
Clause	Requirement - Test	Result - Remark	Verdict

<p>ATTACHMENT TO TEST REPORT IEC 60335-2-2 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES Household and similar electrical appliances – Safety – Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances</p>	
Differences according to:	EN 60335-2-2:2010 + A11:2012 + A1: 2013 EN 60335-1:2012 EN 62233:2008
Attachment Form No.:	EU_GD_IEC60335_2_2F_II
Attachment Originator:	TÜV SÜD Product Service GmbH
Master Attachment:	2016-10
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<p>Appendix I: Requirements of EN 60335-1:2012/A11:2014 were evaluated in this report.</p> <p>Appendix II: Requirements of EN 60335-1:2012/A13:2017 were evaluated in this report.</p>	

IEC60335_2_2F – Annex I			
Clause	Requirement - Test	Result - Remark	Verdict

CENELEC COMMON MODIFICATIONS			
6.1	Delete “class 0” and “class 01”		P
7.1	Single-phase appliances to be connected to the supply mains: 230 V covered		P
	Multi-phase appliances to be connected to the supply mains: 400 V covered		N/A
7.10	Devices used to start/stop operational functions of the appliance distinguished from other manual devices by means of shape, size, surface texture, position, etc.		P
	An indication that the device has been operated is given by:		—
	• a tactile feedback, or		P
	• an audible and visual feedback		N/A
7.12	Replacement: Instructions for use are provided with the appliance so that the appliance can be used safely.		P
	It is necessary to take precautions during user maintenance, appropriate details are given.		P
	The instructions include the substance of the following:		—
	- this appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved		P
	- children shall not play with the appliance		P
	- cleaning and user maintenance shall not be made by children without supervision		P
	If a vacuum cleaner can be equipped with a hand-held accessory with rotating parts a warning has to be given concerning entrapment.		N/A
	The instructions for appliances having a current-carrying hose operating at other than safety extra low voltage include the substance of the following:		—
	CAUTION: This hose contains electrical connections:		N/A
	– do not use to suck up water (for vacuum cleaners only);		N/A
	– do not immerse in water for cleaning;		N/A

IEC60335_2_2F – Annex I			
Clause	Requirement - Test	Result - Remark	Verdict
	– the hose should be checked regularly and must not be used if damaged.		N/A
	The instructions for appliances having a part of class III construction supplied from a detachable power supply unit state that the appliance is only to be used with the power supply unit provided with the appliance.		N/A
	The instructions for class III appliances state that it must only be supplied at safety extra low voltage corresponding to the marking on the appliance.		N/A
	This instruction is not necessary for battery operated appliances if the battery is a primary battery or secondary battery charged outside of the appliance.		N/A
	The instructions for vacuum cleaners incorporating rotating brushes or similar devices, and water-suction cleaning appliances, state that the plug must be removed from the socket-outlet before cleaning or maintaining the appliance.		N/A
	If symbol 5935 of IEC 60417 is used, its meaning is explained.		N/A
7.12.Z1	The specific instructions related to the safe operation of this appliance is collated together in the front section of the user instructions		P
	The height of the characters, measured on the capital letters, is at least 3 mm		P
	These instructions are also available in an alternative format, e.g. on a website		P
8.1.1	Also test probe 18 of EN 61032 is applied		P
	The appliance being in every possible position during the test		P
	The force on the probe in the straight position is increased to 10 N when probe 18 is used		P
	When using test probe 18 the appliance is fully assembled as in normal use without any parts removed, and		P
	parts intended to be removed for user maintenance are also not removed		P
8.2	Compliance is checked by applying the test probes of EN 61032		P
	For built-in appliances and fixed appliances, the test probe B and probe 18 of EN 61032 are applied only after installation		N/A

IEC60335_2_2F – Annex I			
Clause	Requirement - Test	Result - Remark	Verdict
11.8	Modification: During the test, the temperature rises are monitored continuously and do not exceed the values shown in Table 3 and Table Z101".		P
	Footnotes to "External enclosure of motor-operated appliances" to be taken into account	Covered by normal heating test in main report and the test data was under the limit	P
15.1.2	Appliances with an automatic cord reel tested with the cord in the most unfavourable position so that the reeling of the wet cord may affect electrical insulation during operation, the cord not being dried before reeling		N/A
20.2	When using the test probe similar to test probe B with a circular stop face, the accessories and detachable covers are removed		P
	Test probe 18 applied with a force of 2,5N on the appliance fully assembled		P
20.Z101	Addition: Driven parts of an appliance do not become accessible if the appliance is switched on by overturning.		N/A
	Hazardous moving parts are not accessible according to 20.2.		N/A
20.Z102	Addition: Inadvertent access to hazardous rotating brushes and similar devices during normal operation is prevented, so far as is reasonably practicable.		N/A
	The probe does not touch rotating parts.		N/A
21.1	Modification: The appliance is rigidly supported and three blows, having an impact energy of 1,0 J, are applied to every point of the enclosure that is likely to be weak		P
21.Z101	Addition: Hand-held appliances meets the following requirements:		P
	The appliance is not damaged to such an extent that compliance with this European Standard is impaired.		P
	In particular, the appliance does not emit flames or molten metal and the requirements of Clauses 8 and 29 are fulfilled.		P
22.Z101	Addition: Hinged handles of vacuum cleaners intended to be free standing require a specific action to operate them, such as a lever, the handle release mechanism or similar.		N/A

IEC60335_2_2F – Annex I			
Clause	Requirement - Test	Result - Remark	Verdict
22.Z102	Addition: Supply cords of appliances not damaged by the appliance running over them.		N/A
	The functional openings of power rotating brushes, driven by the main suction motor, do not exceed 120 mm along the major dimension of the opening.		N/A
	Measurement (mm).....:		N/A
24.1	Components comply with the safety requirements specified in the relevant standards as far as they reasonably apply		P
	The requirements of Clause 29 of this standard apply between live parts of components and accessible parts of the appliance.		P
	The requirements of 30.2 of this standard apply to parts of non-metallic material in components including parts of non-metallic material supporting current-carrying connections inside components		P
	Components that have not been previously tested or do not comply with the standard for the relevant component are tested according to the requirements of 30.2		P
	Components that have been previously tested and shown to comply with the resistance to fire requirements in the standard for the relevant component need not be retested provided that:		—
	- the severity specified in the component standard is not less than the severity specified in 30.2, and		P
	- the test report for the component states whether it complied with the standard for the relevant component with or without flame, flames not exceeding 2 s during the test are ignored		N/A
	Unless components have been previously tested and found to comply with the relevant standard for the number of cycles specified, they are tested in accordance with 24.1.1 to 24.1.9		P
	For components mentioned in 24.1.1 to 24.1.9, no additional tests specified in the relevant standard for the component are necessary other than those specified in 24.1.1 to 24.1.9		N/A
	Components that have not been separately tested and found to comply with the relevant standard, and		P
	components that are not marked or not used in accordance with their marking,		P
	are tested in accordance with the conditions occurring in the appliance, the number of samples being that required by the relevant standard		P

IEC60335_2_2F – Annex I			
Clause	Requirement - Test	Result - Remark	Verdict
	Lamp holders and starter holders that have not been previously tested and found to comply with the relevant standard are tested as a part of the appliance and additionally comply with the gauging and interchangeability requirements of the relevant standard under the conditions occurring in the appliance		N/A
	Where the relevant standard specifies these gauging and interchangeability requirements at elevated temperatures, the temperatures measured during the tests of Clause 11 are used		N/A
	Plugs and socket-outlets and other connecting devices of interconnection cords are not interchangeable with plugs and socket-outlets listed in IEC/TR 60083 or IEC 60906-1, or		P
	with connectors and appliance inlets complying with the standard sheets of IEC 60320-1,		N/A
	if direct supply to these parts from the supply mains gives rise to a hazard		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 EN 41003		N/A
	Compliance with Clause 8 of this standard is not impaired by connecting the appliance to a device covered by EN 41003		N/A
24.Z1	For motor running capacitors (IEC 60252-1 type P2) with a metallic enclosure having an overpressure fuse the flame testing of internal plastic parts supporting current carrying connections as required in 30.2.2 and 30.2.3.1 is not necessary		N/A
25.6	Supply cords of single-phase portable appliances having a rated current not exceeding 16 A, fitted with a plug complying with the following standard sheets of IEC/TR 60083:		—
	- for Class I appliances: standard sheet C2b, C3b or C4.....:		N/A
	- for Class II appliances: standard sheet C5 or C6		N/A
25.7	Rubber sheathed cords (60245 IEC 53) are not suitable for appliances intended to be used outdoors or when they are liable to be exposed to significant amount of ultraviolet radiation		N/A
	Halogen-free thermoplastic compound sheathed supply cords have properties at least those of:		—

IEC60335_2_2F – Annex I			
Clause	Requirement - Test	Result - Remark	Verdict
	<ul style="list-style-type: none"> halogen-free thermoplastic compound sheathed cords (H03Z1Z1H2-F or H03Z1Z1-F), for appliances having a mass not exceeding 3 kg 		N/A
	<ul style="list-style-type: none"> halogen-free thermoplastic compound sheathed cords (H05Z1Z1H2-F or H05Z1Z1-F), for other appliances 		N/A
	Cross-linked halogen-free compound sheathed supply cords have properties at least those of cross-linked halogen-free compound sheathed cords (H07ZZ-F)		N/A
26.11	Conductors connected by soldering are not considered to be positioned or fixed so that reliance is not placed upon the soldering alone to maintain them in position unless they are held in place near the terminals independently of the solder		N/A
29.3.Z1	Appliance constructed so that if there is a possibility of damaging the insulation during installation, the insulation withstands the scratch and penetration test of 21.2		N/A
32	Compliance regarding electromagnetic fields is checked according to EN 50366 or EN 62233	EN 62233	P
Annex I, 19.1.101	The appliance is supplied at rated voltage and operated under normal operation with each of the fault conditions specified		N/A
	The duration of the test is as specified in 19.7		N/A
ZA	ANNEX ZA (NORMATIVE) SPECIAL NATIONAL CONDITIONS		—
	Norway		—
19.5	The test is also applicable to appliances intended to be permanently connected to fixed wiring		N/A
	Norway		—
22.2	The second paragraph of this subclause, dealing with single-phase, permanently connected class I appliances having heating elements, is not applicable due to the supply system		N/A
	All CENELEC countries		—
25.6 and 25.25	Information concerning National plug and socket-outlets is available from the CENELEC website. Normative national requirements concerning plug and socket-outlets are shown in the relevant National standard	Approved adaptor	P
	Ireland and United Kingdom		—
25.8	In the table, the lines for 10 A and 16 A are replaced by:		—

IEC60335_2_2F – Annex I			
Clause	Requirement - Test	Result - Remark	Verdict
	> 10 and ≤ 13 1,25		N/A
	> 13 and ≤ 16 1,5		N/A
ZB	ANNEX ZB (INFORMATIVE) A-DEVIATIONS		—
	Ireland		—
25.6	These regulations apply to all plugs for domestic use at a voltage of not less than 200 V and in general allow only plugs complying with I.S. 401:1997, or equivalent, to be fitted to domestic appliances		N/A
	United Kingdom		—
25.6	These regulations apply to all plugs for domestic use at a voltage of not less than 200 V and in general allow only plugs to BS 1363 to be fitted to domestic appliances. It also allows plugs to BS 4573 and EN 50075 to be fitted to shavers and toothbrushes		P
ZC	ANNEX ZC (NORMATIVE) NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH THEIR CORRESPONDING EUROPEAN PUBLICATIONS		—
	A list of referenced documents in this standard		P
ZD	ANNEX ZD (INFORMATIVE) IEC and CENELEC CODE DESIGNATIONS FOR FLEXIBLE CORDS		—
	A table with IEC and CENELEC code designations for flexible cords		N/A
ZE	ANNEX ZE (INFORMATIVE) SPECIFIC ADDITIONAL REQUIREMENTS FOR APPLIANCES AND MACHINES INTENDED FOR COMMERCIAL USE		—
	Not for commercial use		N/A
ZF	ANNEX ZF (INFORMATIVE) CRITERIA APPLIED FOR THE ALLOCATION OF PRODUCTS COVERED BY STANDARDS IN THE EN 60335 SERIES UNDER LVD OR MD		—
	List of standards under CENELEC/TC61 with the allocation under the LVD (Low Voltage Directive) or the MD (Machinery Directive)	LVD	P
ZG	ANNEX ZG (NORMATIVE) UV APPLIANCES		—
	The following modifications to this standard apply to appliances having UV emitters		N/A
	This annex is not applicable to appliances covered by the scopes of IEC 60335-2-27, IEC 60335-2-59 or IEC 60335-2-109		N/A

IEC60335_2_2F – Annex I			
Clause	Requirement - Test	Result - Remark	Verdict
7.12.ZG	The instructions for appliances incorporating UVC emitters include the substance of the following: WARNING — This appliance contains a UV emitter. Do not stare at the light source		N/A
32	For appliances incorporating UV emitters the manufacturer delivers a declaration providing evidence that the plastic material exposed to the radiation is UV resistant		N/A
ZZ	ANNEX ZZ (INFORMATIVE) COVERAGE OF ESSENTIAL REQUIREMENTS OF EC DIRECTIVES		—
	Description of the relation between this European standard and the LVD (Low Voltage Directive, 2006/95/EC) and the MD (Machinery Directive, 2006/42/EC)	LVD	P

Appendix I The requirement of EN 60335-1: 2012/A11: 2014			
	<i>In NOTE Z1, replace "IEC 82079-1" by "EN 82079-1".</i>		P
Annex ZF	<i>In Table ZF.1 – List of standards under CLC/TC 61, replace line of EN 60335-2-38 by the following:</i>		N/A
	EN 60335-2-38, Commercial electric griddles and griddle grills	X	X – With moving parts

Appendix II: The requirements of EN 60335-1:2012/A13:2017			
ZC	ANNEX ZC (NORMATIVE) NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH THEIR CORRESPONDING EUROPEAN PUBLICATIONS		—
	A list of documents referred to in the text of this standard in such a way that some or all of their content constitutes requirements of this document		P
ZZA	ANNEX ZZA (INFORMATIVE) RELATIONSHIP BETWEEN THIS EUROPEAN STANDARD AND THE SAFETY OBJECTIVES OF DIRECTIVE 2014/35/EU [2014 OJ L96] AIMED TO BE COVERED		—
	This standard provides one means of conforming to safety objectives of Directive 2014/35/EU		P
	When cited in the Official Journal under that Directive, compliance with the normative clauses of this standard given in Table ZZA.1 confers a presumption of conformity with the safety objectives of that Directive and associated EFTA regulations		P
	Compliance with this Part 1 when used together with the relevant Part 2 provides one means of conformity with the safety objectives		P

IEC60335_2_2F – Annex I			
Clause	Requirement - Test	Result - Remark	Verdict
ZZB	ANNEX ZZB (INFORMATIVE) RELATIONSHIP BETWEEN THIS EUROPEAN STANDARD AND THE ESSENTIAL REQUIREMENTS OF DIRECTIVE 2006/42/EC AIMED TO BE COVERED		—
	This standard provides one means of conforming to essential requirements of EU Directive 2006/42/EC		N/A
	When cited in the Official Journal under that Directive, compliance with the normative clauses of this standard given in Table ZZB.1 confers a presumption of conformity with the essential requirements of that Directive and associated EFTA regulations		N/A
	Compliance with this Part 1 when used together with the relevant Part 2 provides one means of conformity with the essential health and safety requirements		N/A

Annex EN 62233:2008			
EMF- ELECTROMAGNETICS FIELDS			
	The tested product also complies with the requirements of EN 62233:2008		—
SLX203B	Limit 100%	Measured max. 0,2 %	P
SLX203C	Limit 100%	Measured max. 0,2 %	P
SLX203D	Limit 100%	Measured max. 0,2 %	P
SLX203E	Limit 100%	Measured max. 0,2 %	P
SLX207I	Limit 100%	Measured max. 1,2 %	P
SLX217B	Limit 100%	Measured max. 0,4 %	P
SLX217C	Limit 100%	Measured max. 0,5 %	P
SLX217D	Limit 100%	Measured max. 0,5 %	P
SLX217E	Limit 100%	Measured max. 0,5 %	P
SLX225G	Limit 100%	Measured max. 0,6 %	P
SLX225I	Limit 100%	Measured max. 1,4 %	P
SLX260EL	Limit 100%	Measured max. 4,1 %	P
SLX261EL	Limit 100%	Measured max. 4,3 %	P

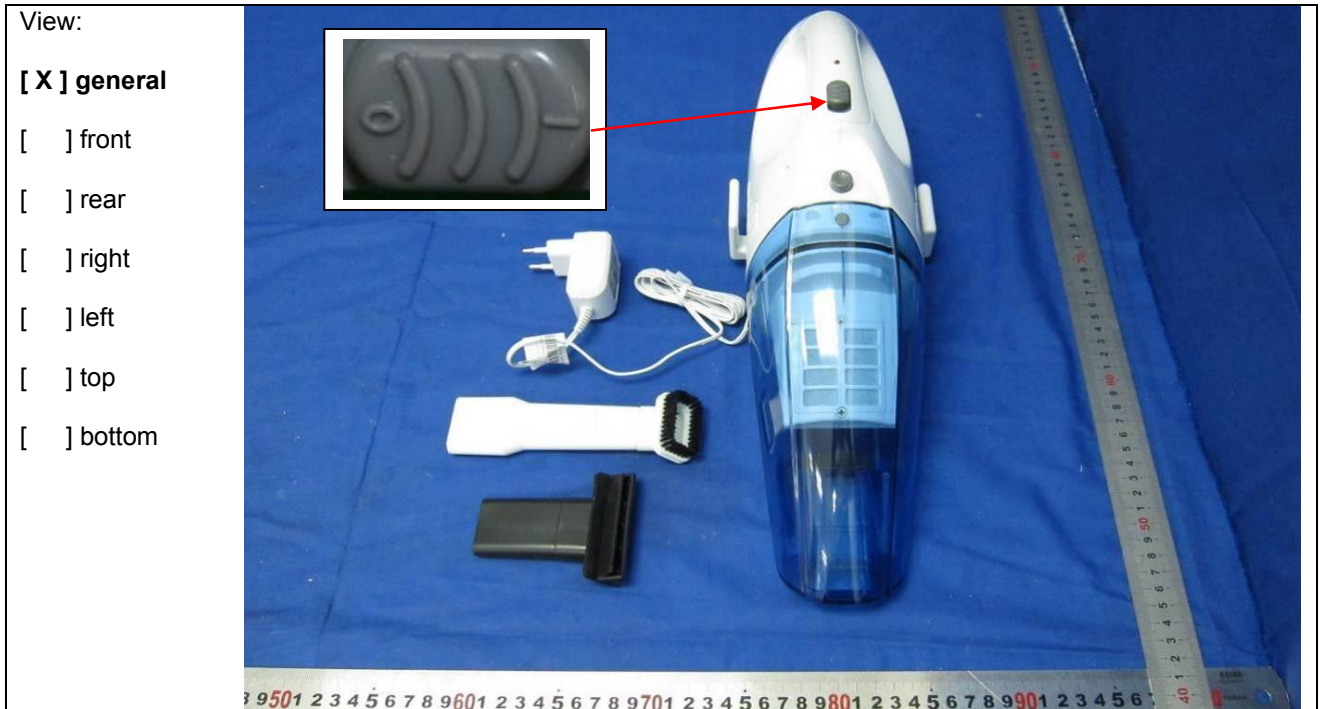
<End of Annex I>

Annex II
 Photo documentation
 Vacuum Cleaner

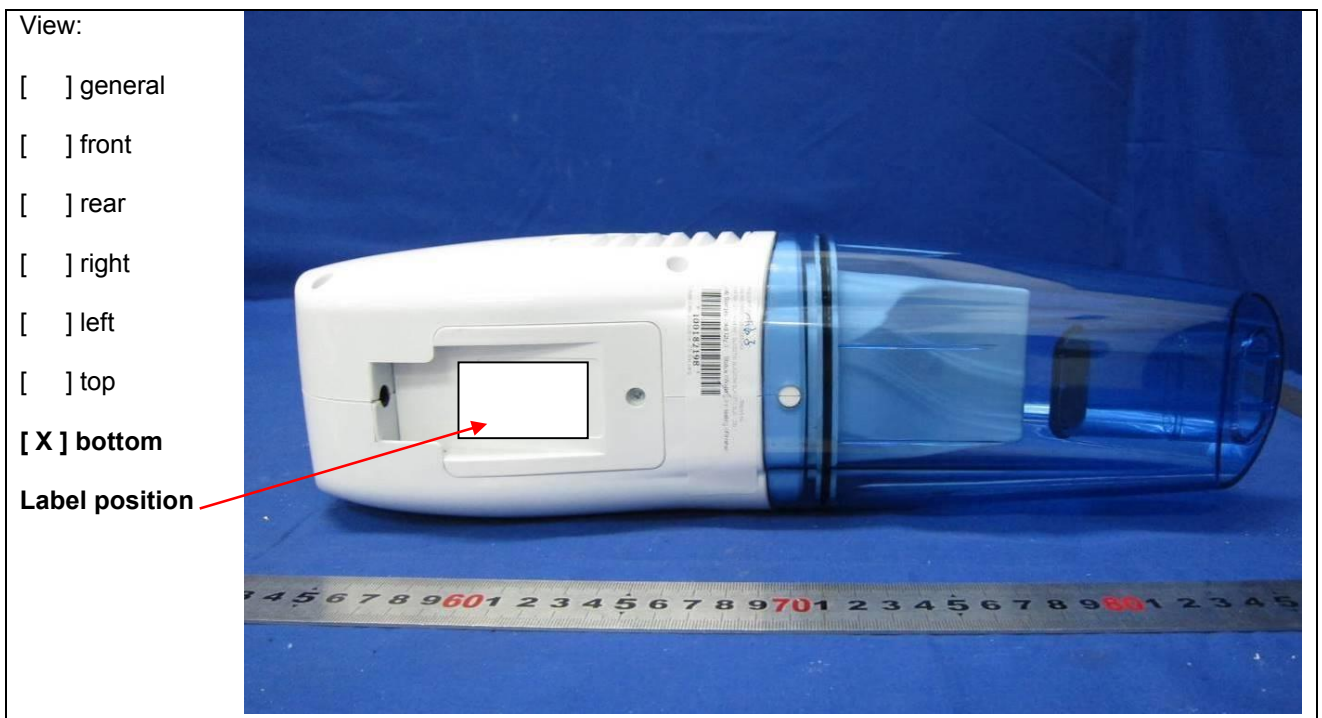
Report No.: NBES190701235301

SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
 SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: SLX207 series



Detail of: SLX207 series



Annex II
Photo documentation
Vacuum Cleaner

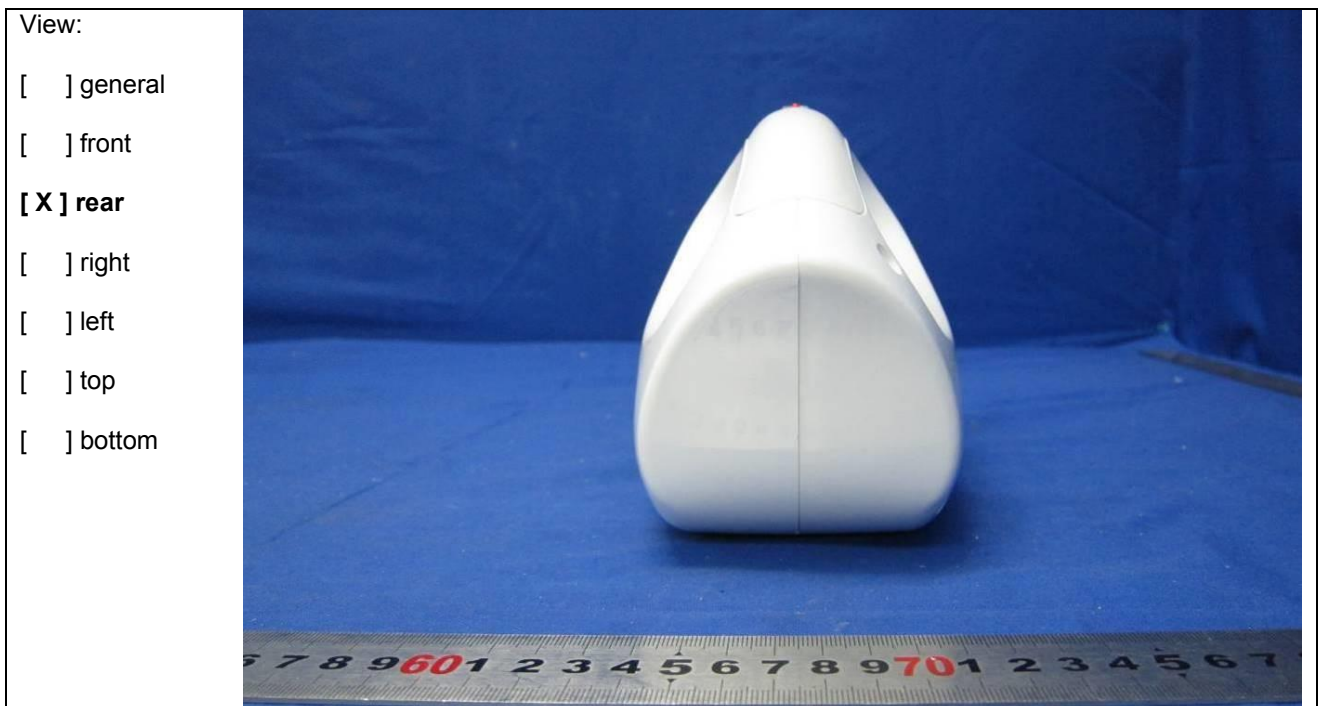
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SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: SLX207 series



Detail of: SLX207 series



Annex II
Photo documentation
Vacuum Cleaner

Report No.: NBES190701235301

SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: SLX207 series



Detail of: SLX207 series



Annex II
 Photo documentation
 Vacuum Cleaner

Report No.: NBES190701235301

SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
 SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: SLX207 series with alternative appearance



Detail of: Open view of SLX207 series



Annex II
 Photo documentation
 Vacuum Cleaner

Report No.: NBES190701235301

SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
 SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: Open view of SLX207EL



Detail of: PCB for SLX207EL

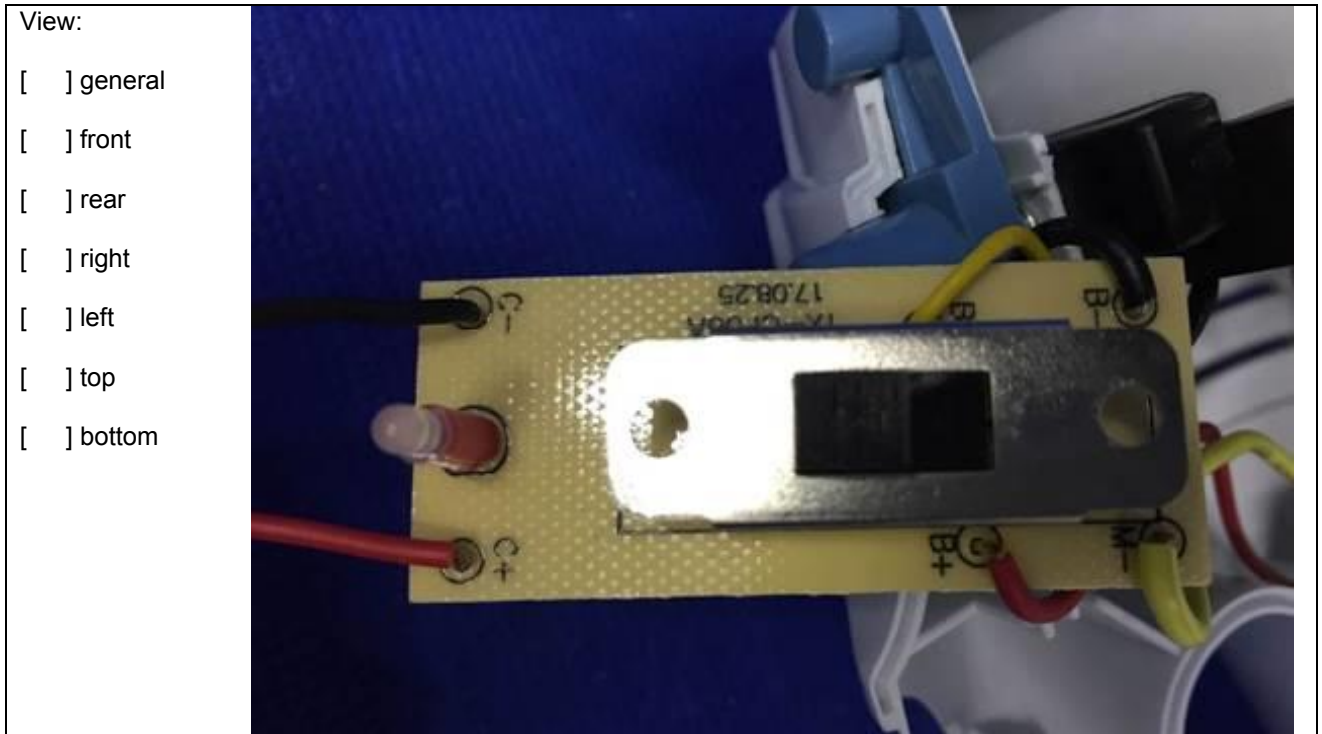


Annex II
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 Vacuum Cleaner

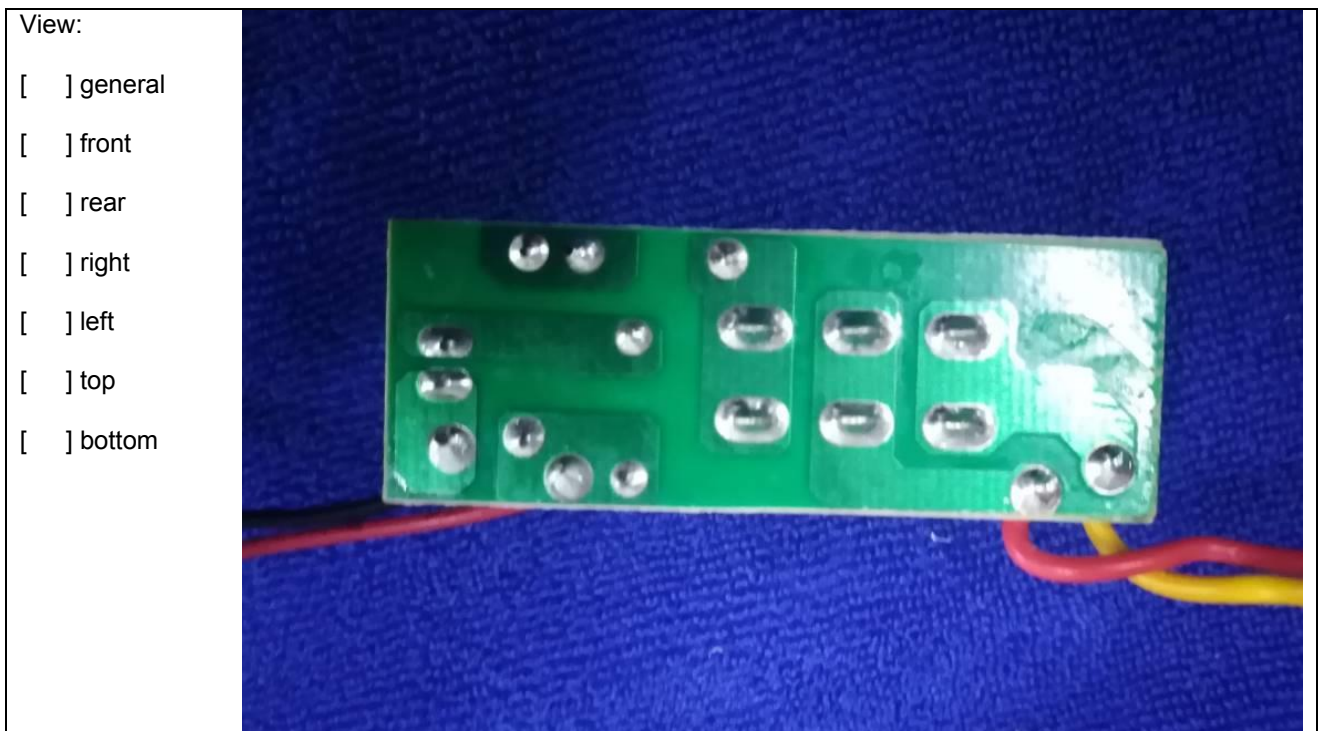
Report No.: NBES190701235301

SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
 SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: PCB for SLX207EL



Detail of: PCB for SLX207C



Annex II
 Photo documentation
 Vacuum Cleaner

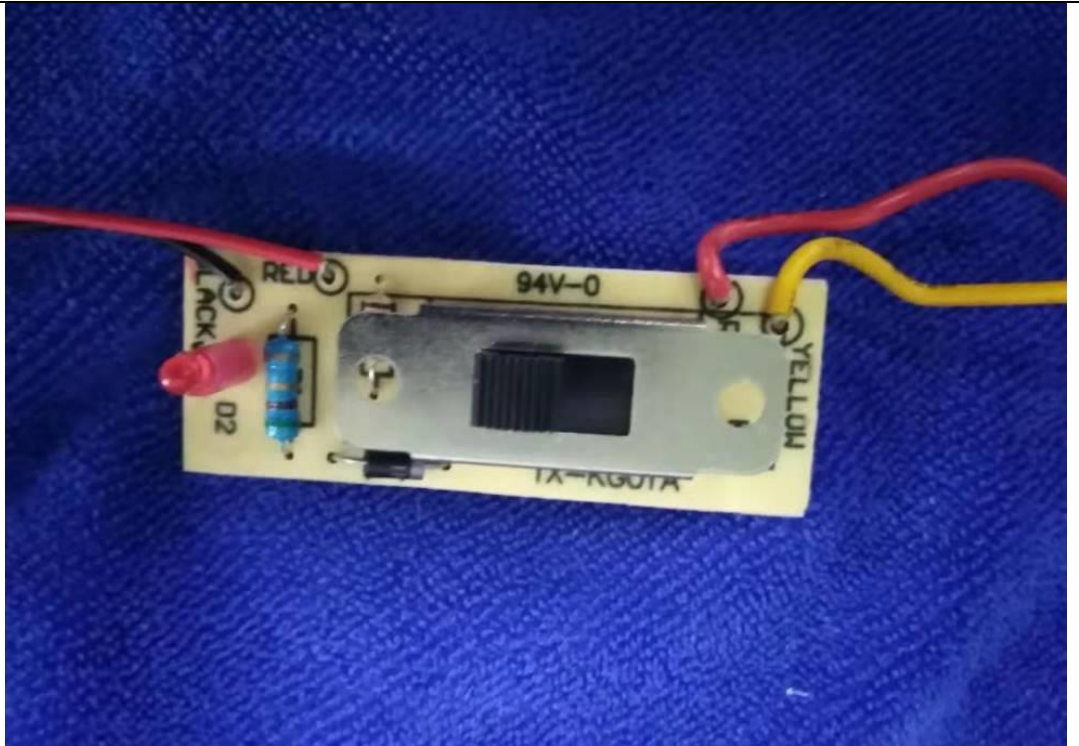
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SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
 SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: PCB for SLX207C

View:

- general
- front
- rear
- right
- left
- top
- bottom



Detail of: SLX203 series

View:

- general
- front
- rear
- right
- left
- top
- bottom



Annex II
Photo documentation
Vacuum Cleaner

Report No.: NBES190701235301

SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: SLX203 series

View:

general

front

rear

right

left

top

bottom

Label position



Detail of: SLX203 series

View:

general

front

rear

right

left

top

bottom



Annex II
Photo documentation
Vacuum Cleaner

Report No.: NBES190701235301

SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: SLX203 series



Detail of: Charging base for SLX203 series



Annex II
 Photo documentation
 Vacuum Cleaner

Report No.: NBES190701235301

SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
 SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: Open view of SLX203C



Detail of: SLX217 series



Annex II
Photo documentation
Vacuum Cleaner

Report No.: NBES190701235301

SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: SLX217 series



Detail of: SLX217 series



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Vacuum Cleaner

Report No.: NBES190701235301

SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: SLX217 series

View:

general

front

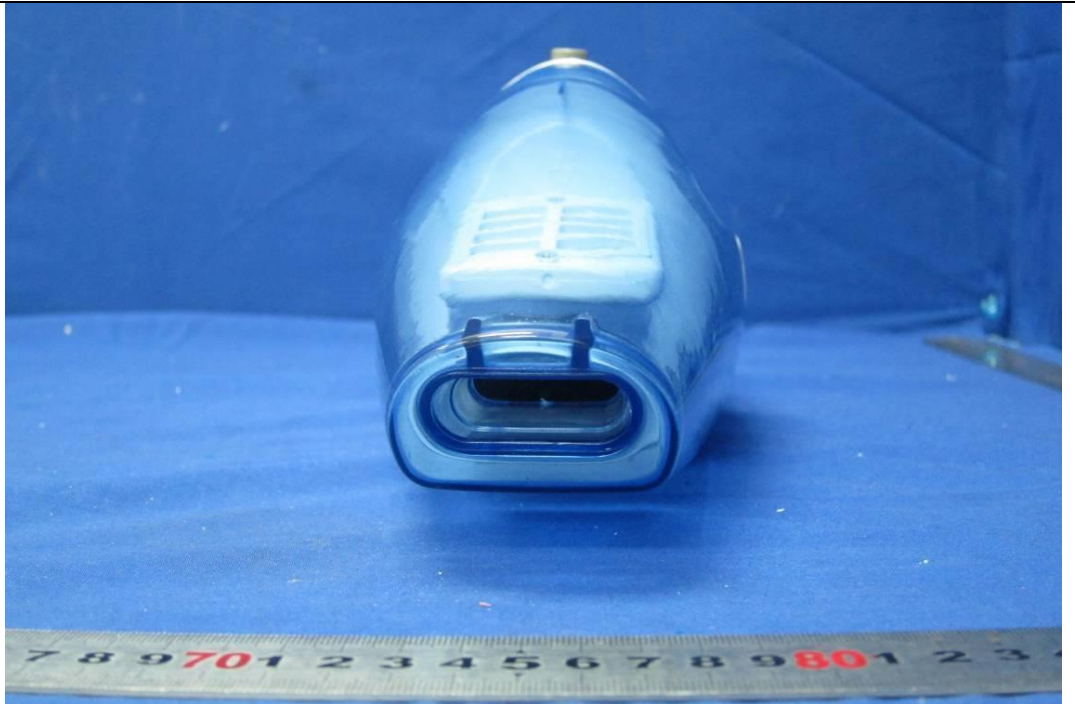
rear

right

left

top

bottom



Detail of: SLX217 series

View:

general

front

rear

right

left

top

bottom

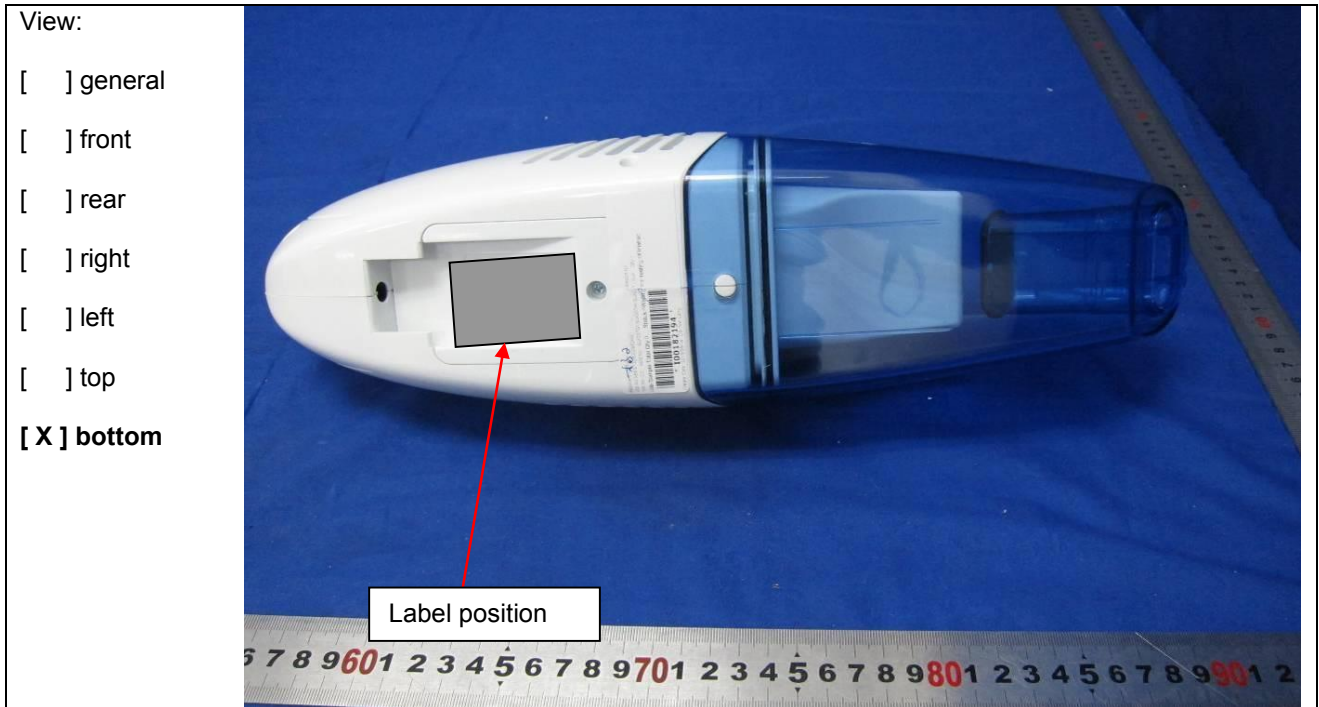


Annex II
 Photo documentation
 Vacuum Cleaner

Report No.: NBES190701235301

SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
 SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: SLX217 series



Detail of: Open view for SLX217E



Annex II
 Photo documentation
 Vacuum Cleaner

Report No.: NBES190701235301

SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
 SLX261* (*=B, C, D, E, EL, F, G, H)

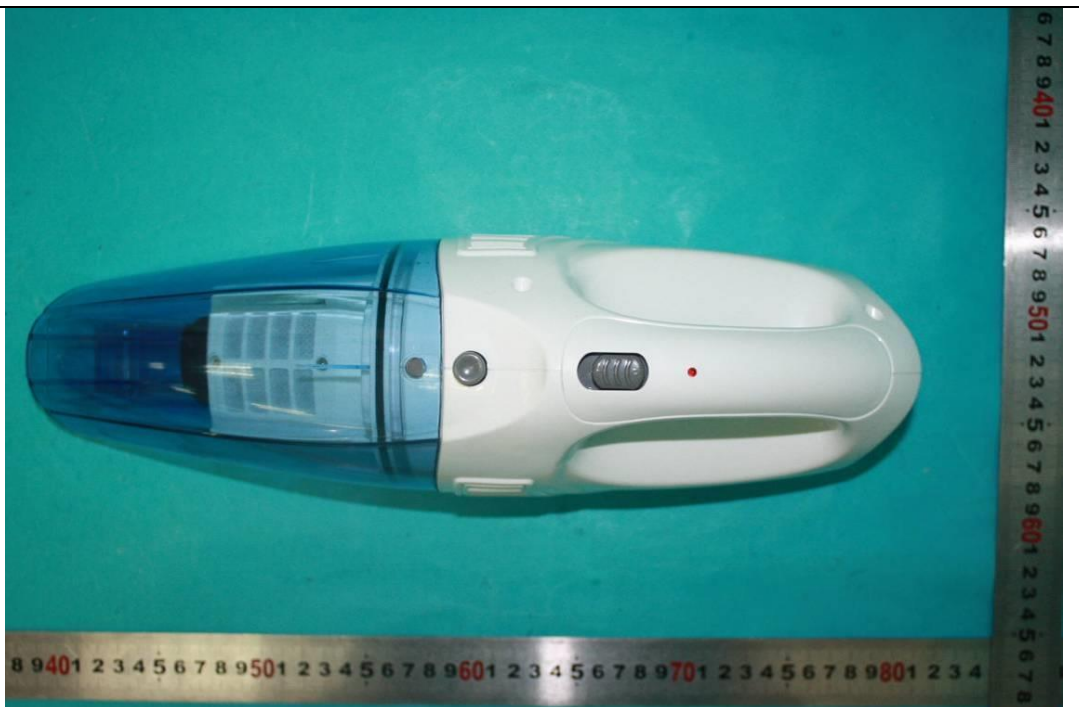
Detail of: PCB for SLX217 series except for SLX217*(*=B, D, E, F, G, H, I)

- View:
- general
 - front
 - rear
 - right
 - left
 - top
 - bottom



Detail of: SLX225 series

- View:
- general
 - front
 - rear
 - right
 - left
 - top
 - bottom



Annex II
 Photo documentation
 Vacuum Cleaner

Report No.: NBES190701235301

SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
 SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: SLX225 series



Detail of: SLX225 series

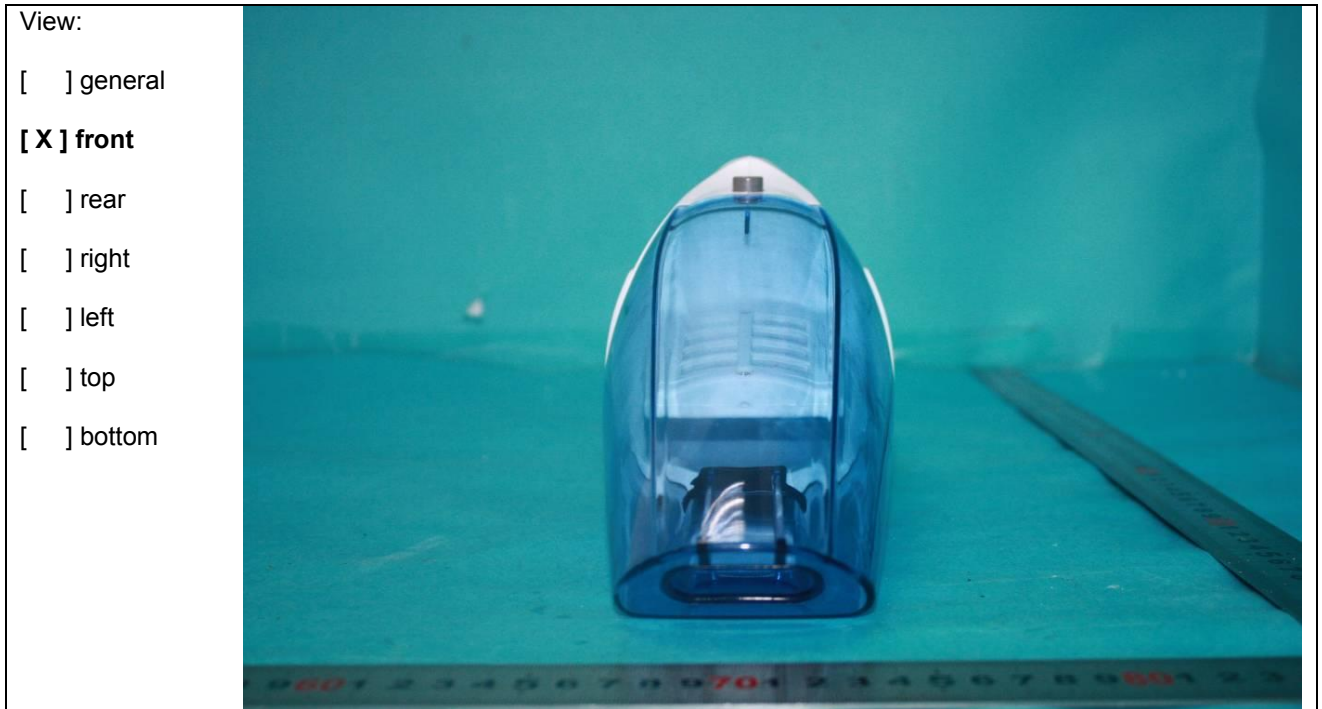


Annex II
Photo documentation
Vacuum Cleaner

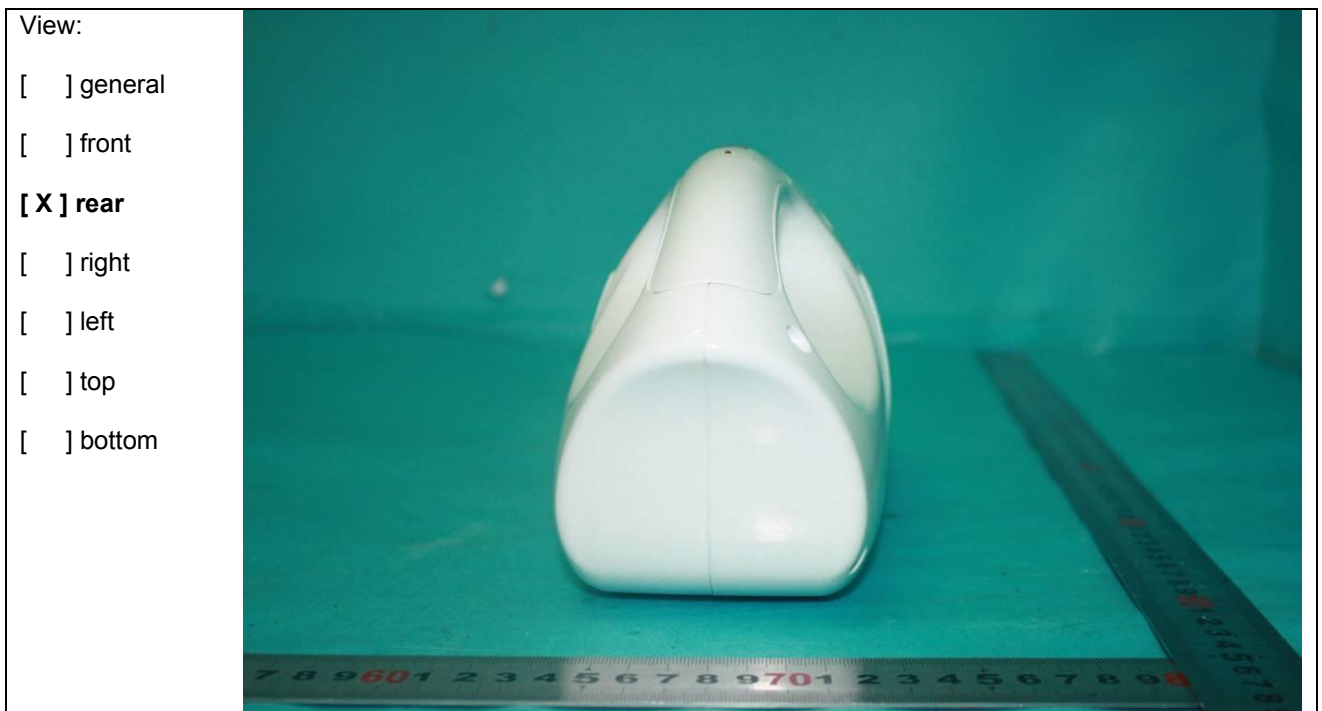
Report No.: NBES190701235301

SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: SLX225 series



Detail of: SLX225 series

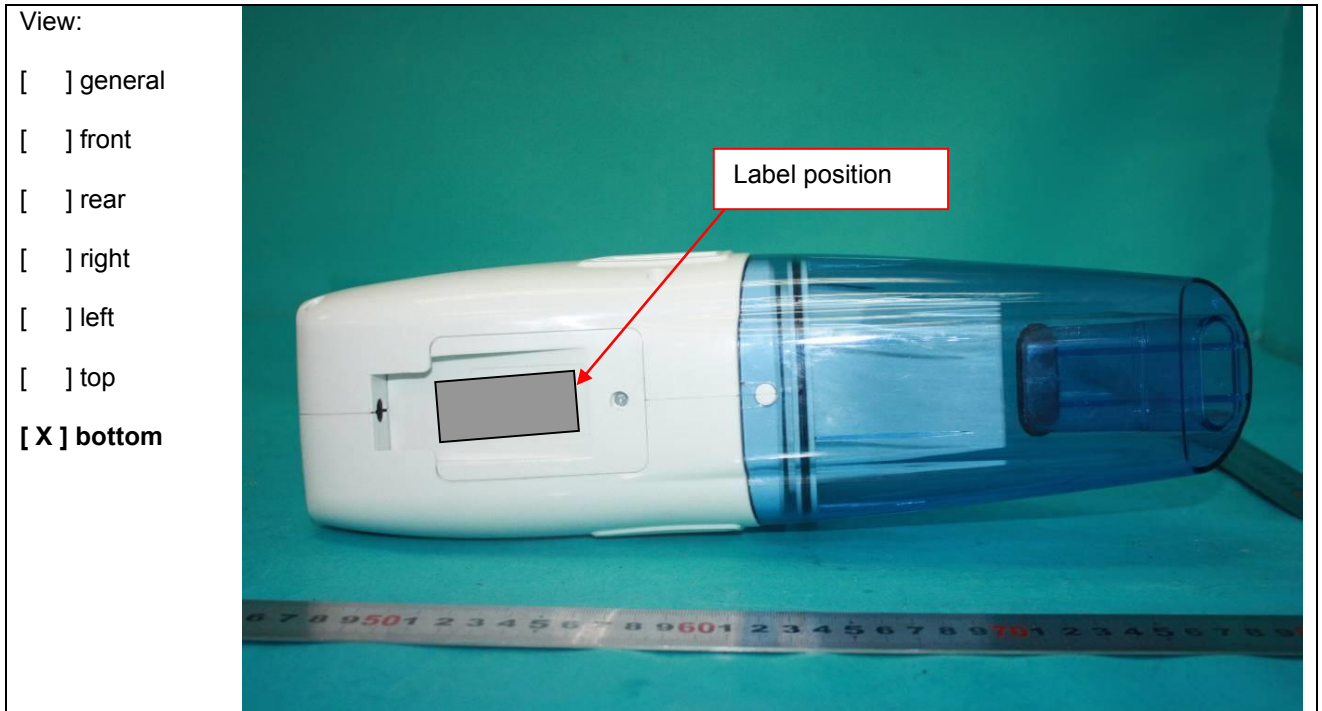


Annex II
Photo documentation
Vacuum Cleaner

Report No.: NBES190701235301

SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: SLX225 series



Detail of: Detachable part of SLX225 series



Annex II
Photo documentation
Vacuum Cleaner

Report No.: NBES190701235301

SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: Open view of SLX225H



Detail of: Open view of SLX225I



Annex II
 Photo documentation
 Vacuum Cleaner

Report No.: NBES190701235301

SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
 SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: Open view of SLX225G



Detail of: SLX227 series



Annex II
Photo documentation
Vacuum Cleaner

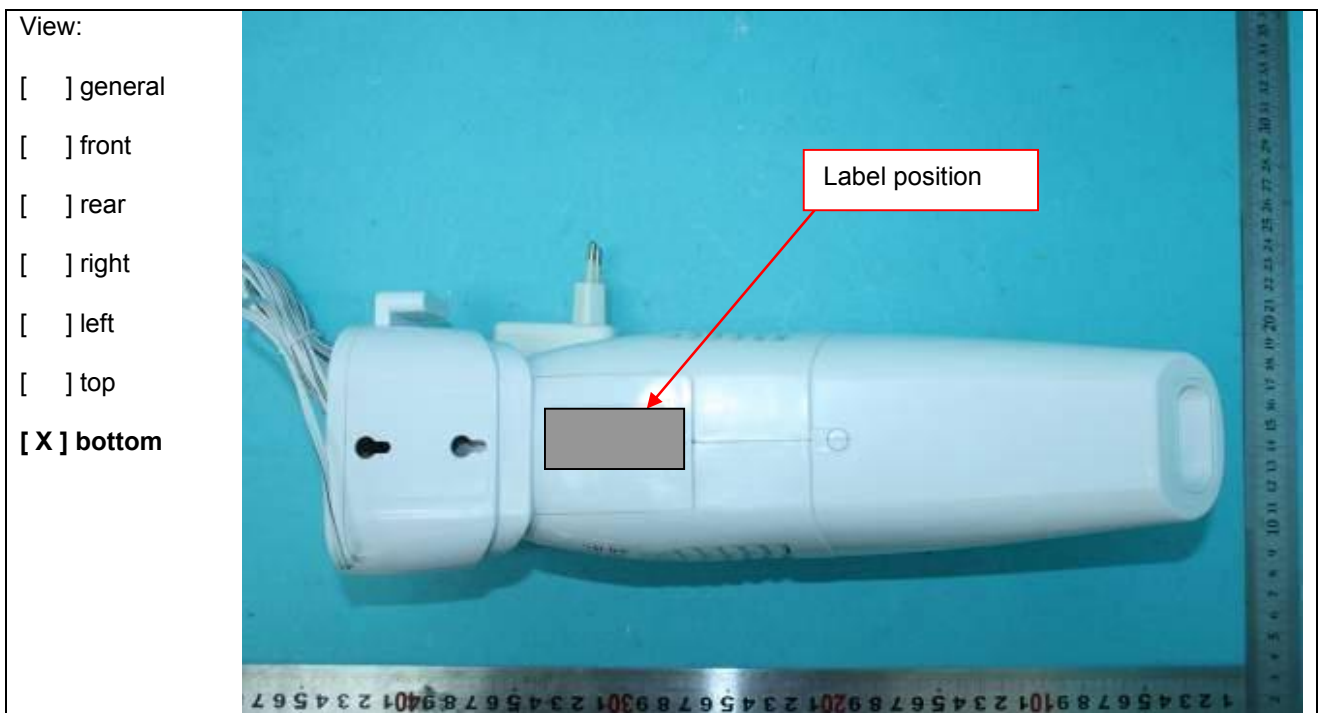
Report No.: NBES190701235301

SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: SLX227 series



Detail of: SLX227 series



Annex II
Photo documentation
Vacuum Cleaner

Report No.: NBES190701235301

SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: SLX227 series



Detail of: SLX227 series



Annex II
 Photo documentation
 Vacuum Cleaner

Report No.: NBES190701235301

SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
 SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: Power adaptor and base for SLX227 series



Detail of: Open view for SLX227 series



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Report No.: NBES190701235301

SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
 SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: Open view for SLX227E



Detail of: SLX260 series

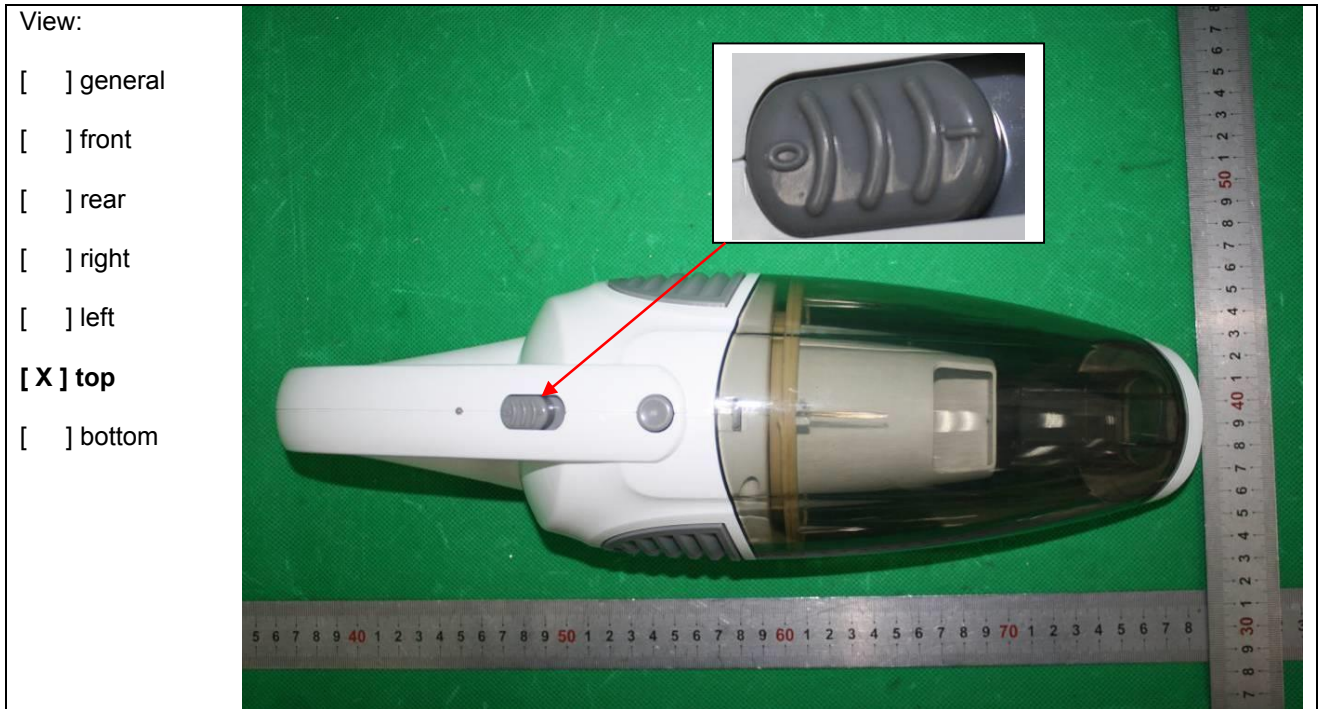


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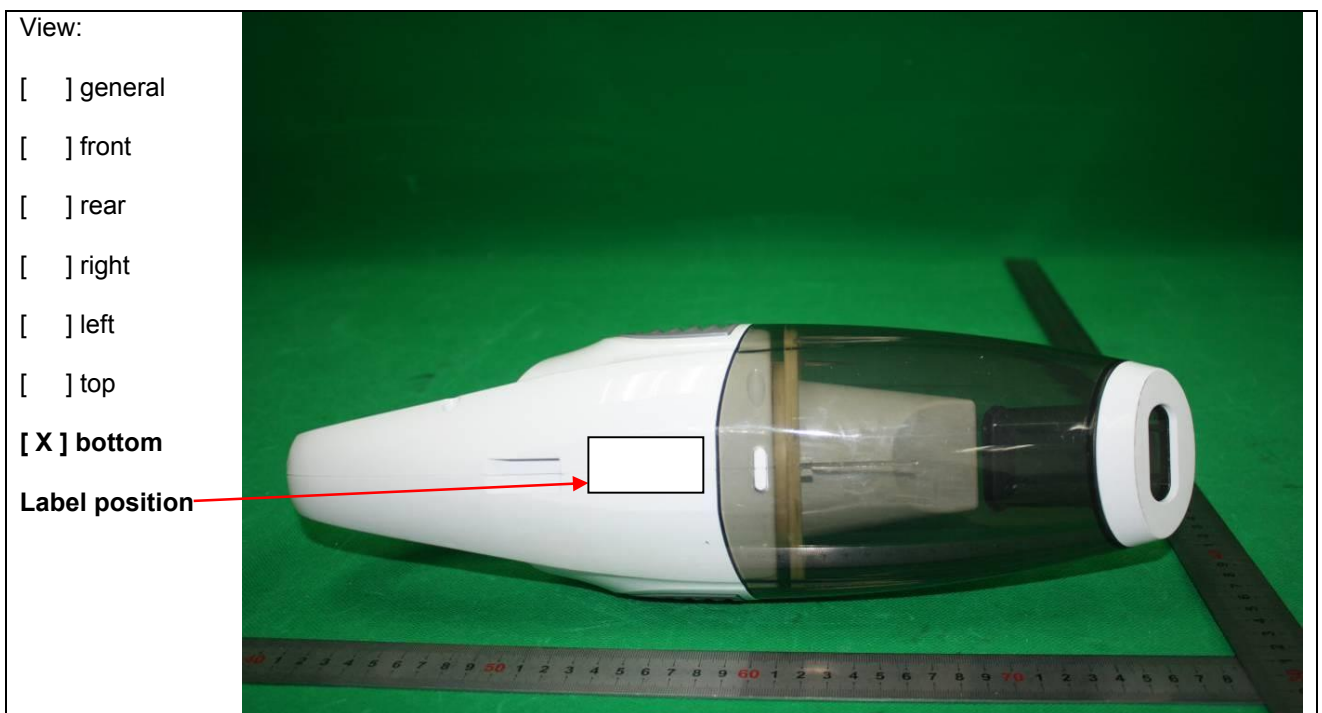
Report No.: NBES190701235301

SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: SLX260 series



Detail of: SLX260 series



Annex II
 Photo documentation
 Vacuum Cleaner

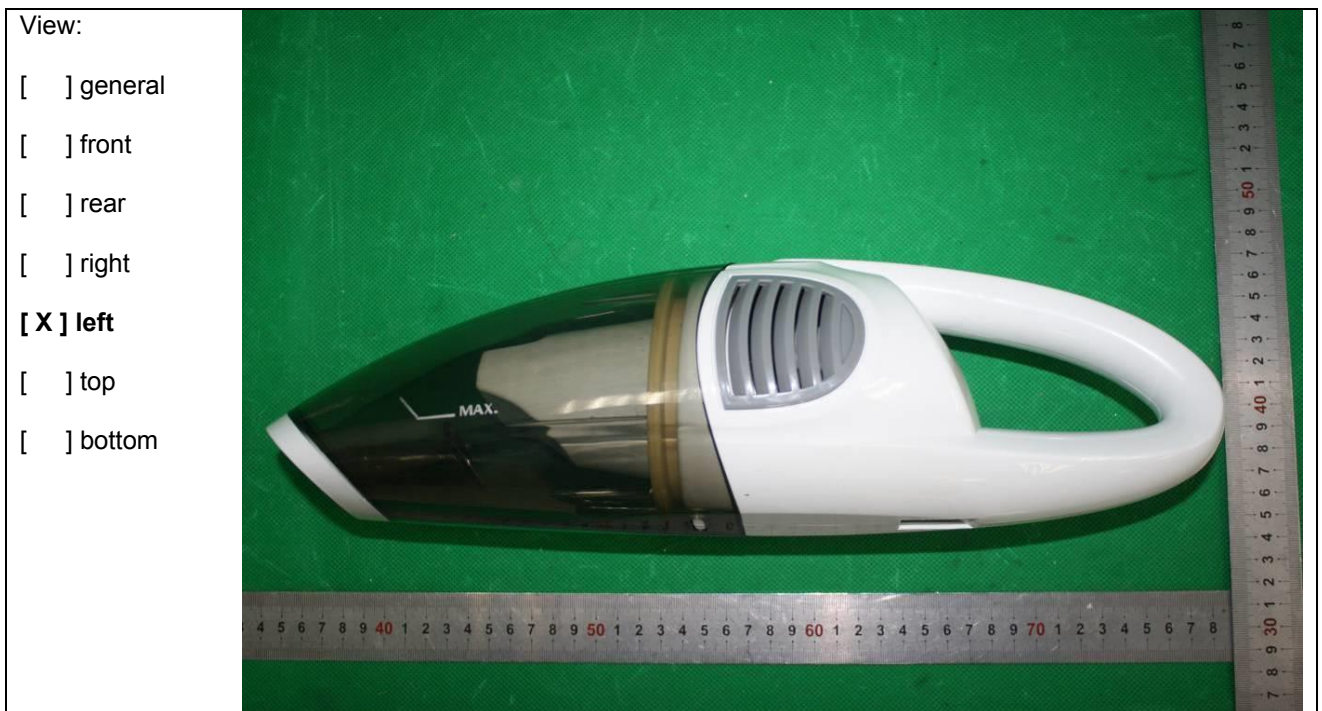
Report No.: NBES190701235301

SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
 SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: SLX260 series



Detail of: SLX260 series

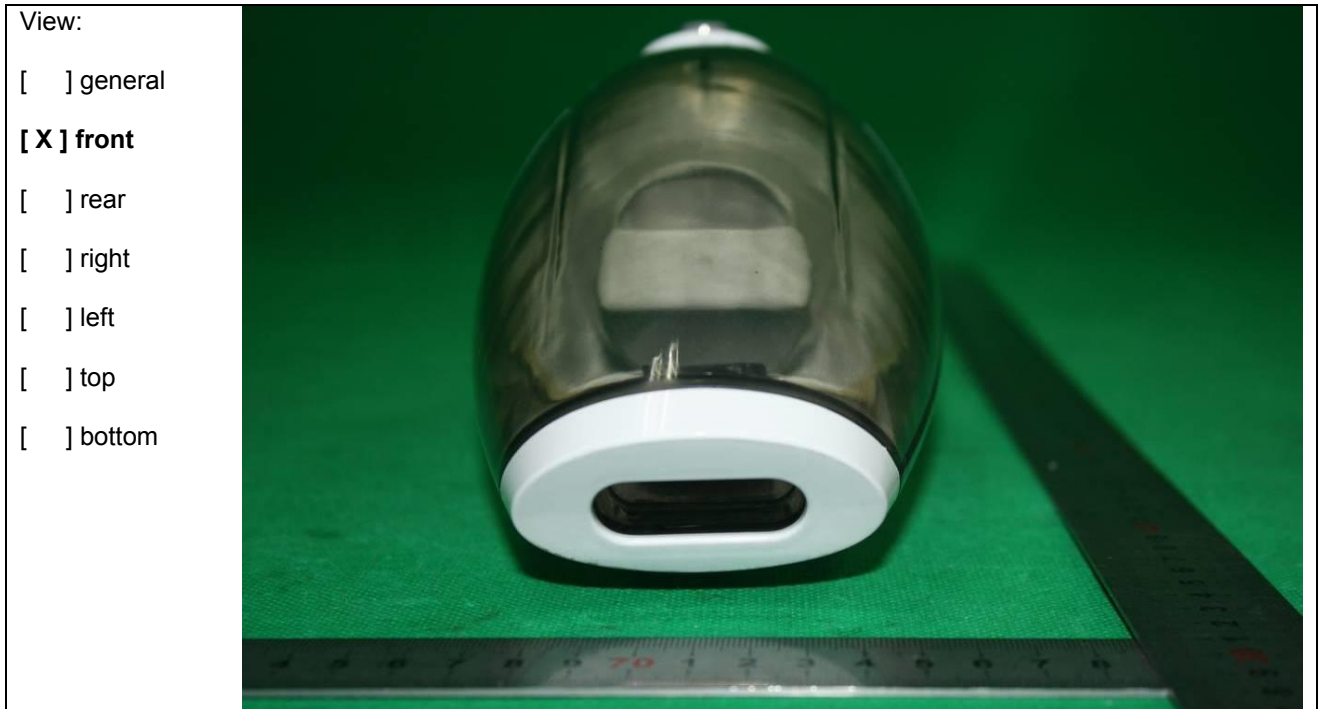


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Photo documentation
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Report No.: NBES190701235301

SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: SLX260 series



Detail of: SLX260 series



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Report No.: NBES190701235301

SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
 SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: Open view of SLX260 series



Detail of: Open view of SLX260 series



Annex II
 Photo documentation
 Vacuum Cleaner

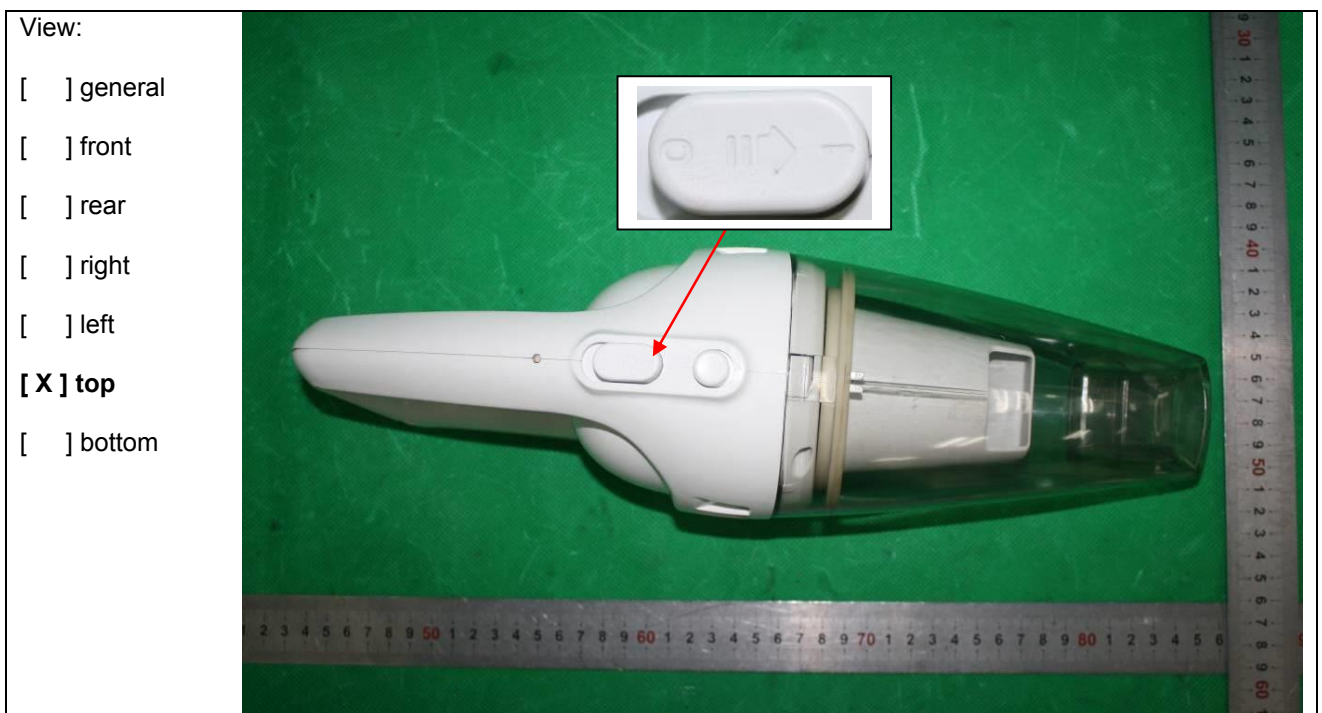
Report No.: NBES190701235301

SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
 SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: SLX261 series



Detail of: SLX261 series



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Report No.: NBES190701235301

SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: SLX261 series



Detail of: SLX261 series



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Report No.: NBES190701235301

SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: SLX261 series



Detail of: SLX261 series

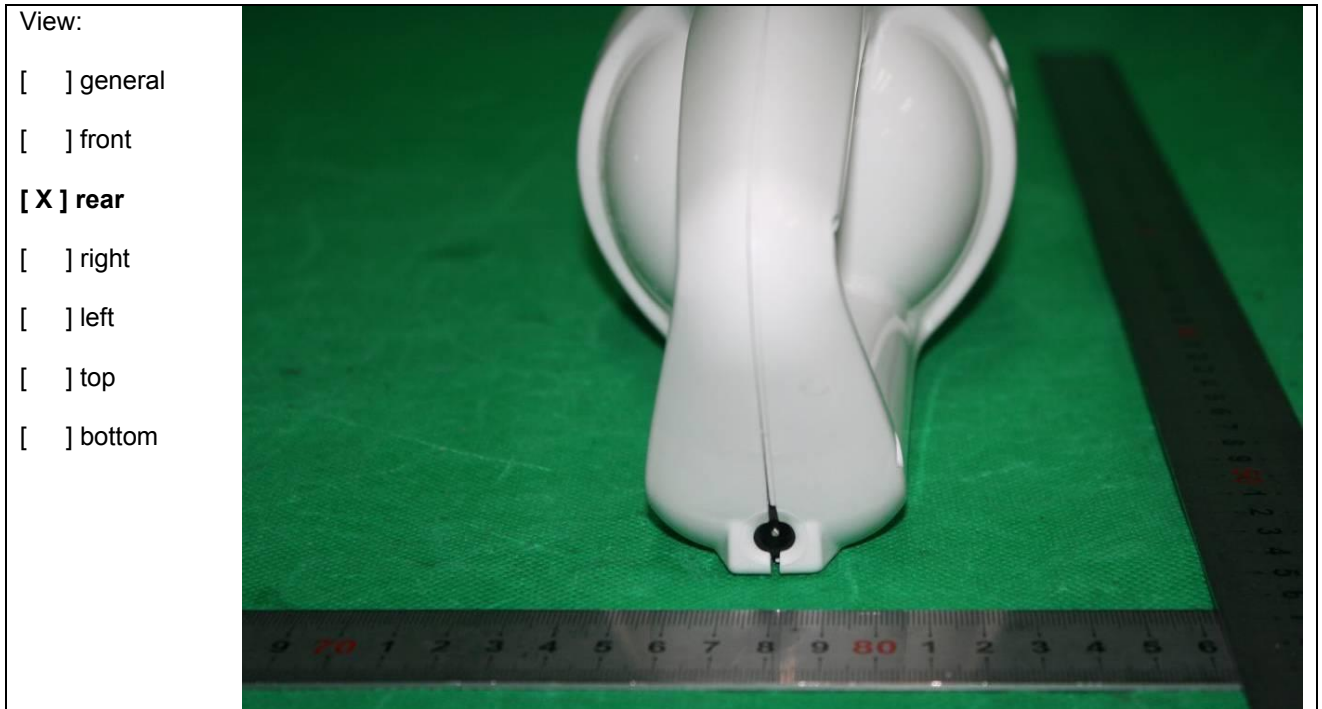


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Report No.: NBES190701235301

SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: SLX261 series



Detail of: Open view of SLX261 series

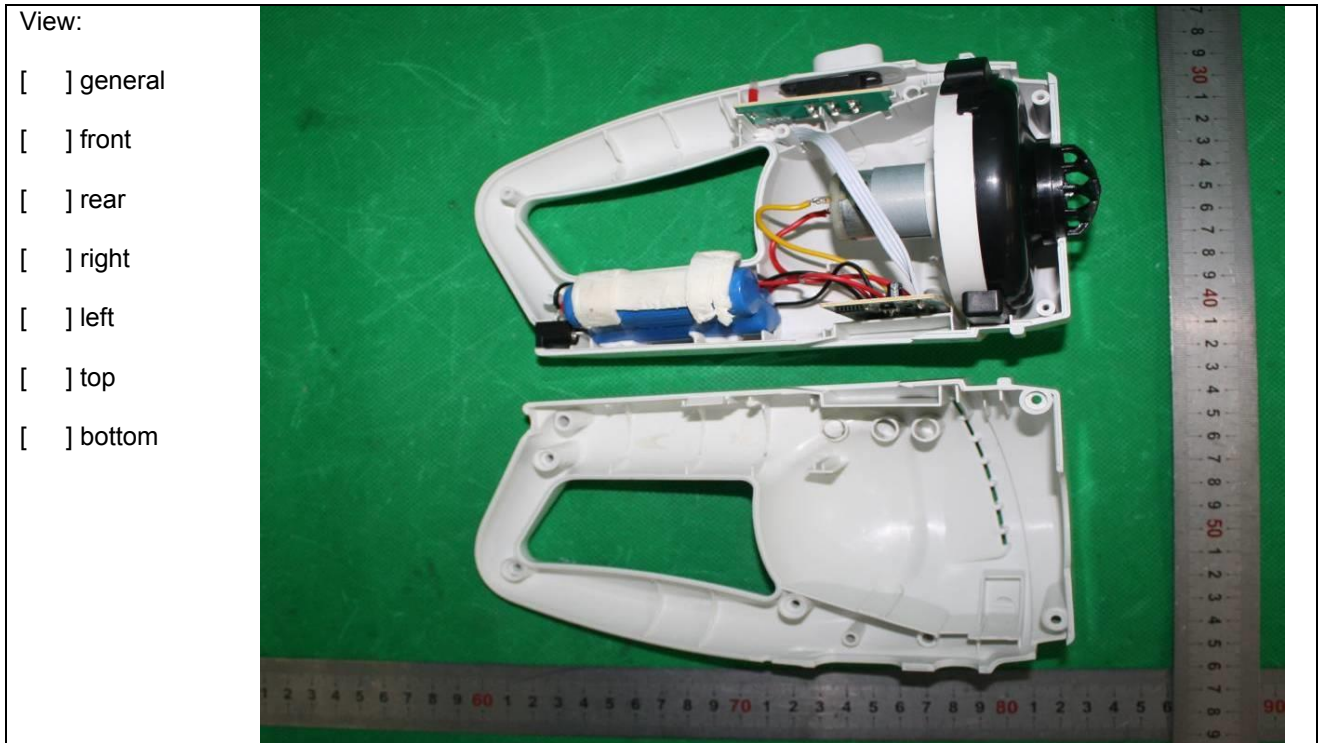


Annex II
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Report No.: NBES190701235301

SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
 SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: Open view of SLX261 series



Detail of: Power switch support PCB for SLX260 series and SLX261 series

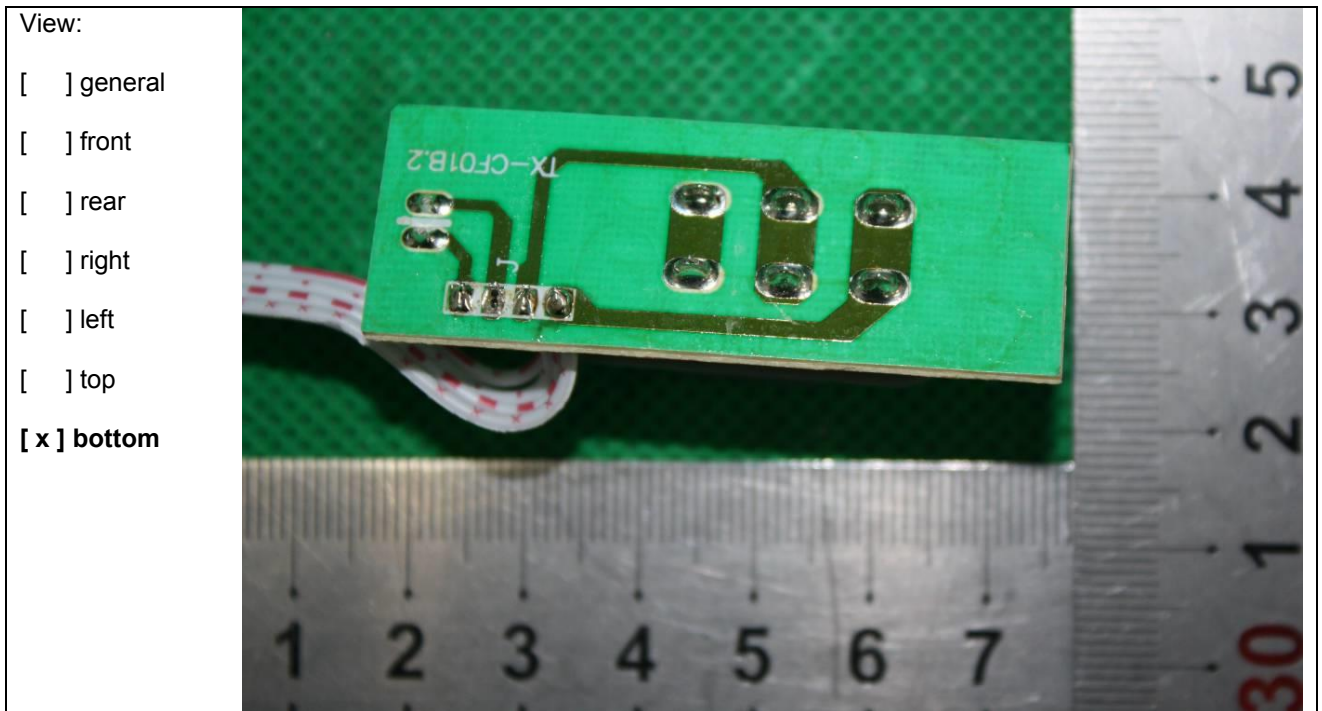


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 Photo documentation
 Vacuum Cleaner

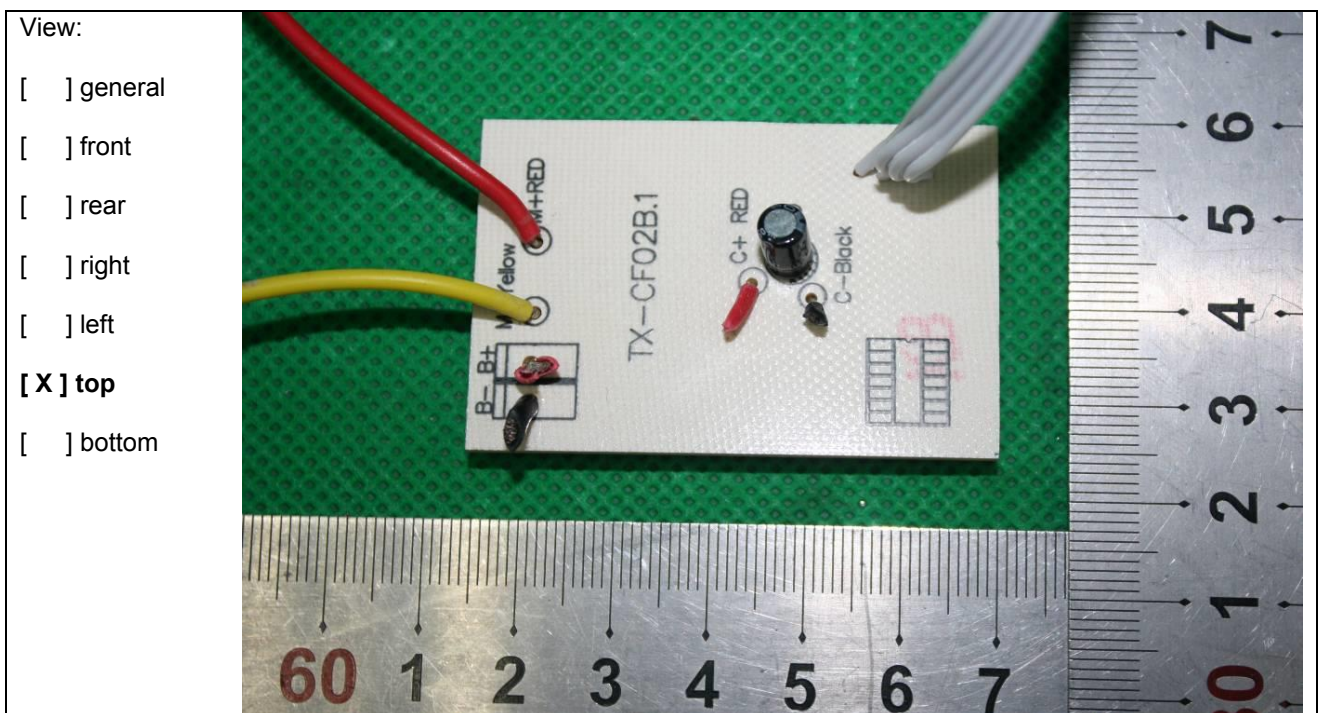
Report No.: NBES190701235301

SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
 SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: Power switch support PCB for SLX260 series and SLX261 series



Detail of: Control PCB for SLX260 series and SLX261 series

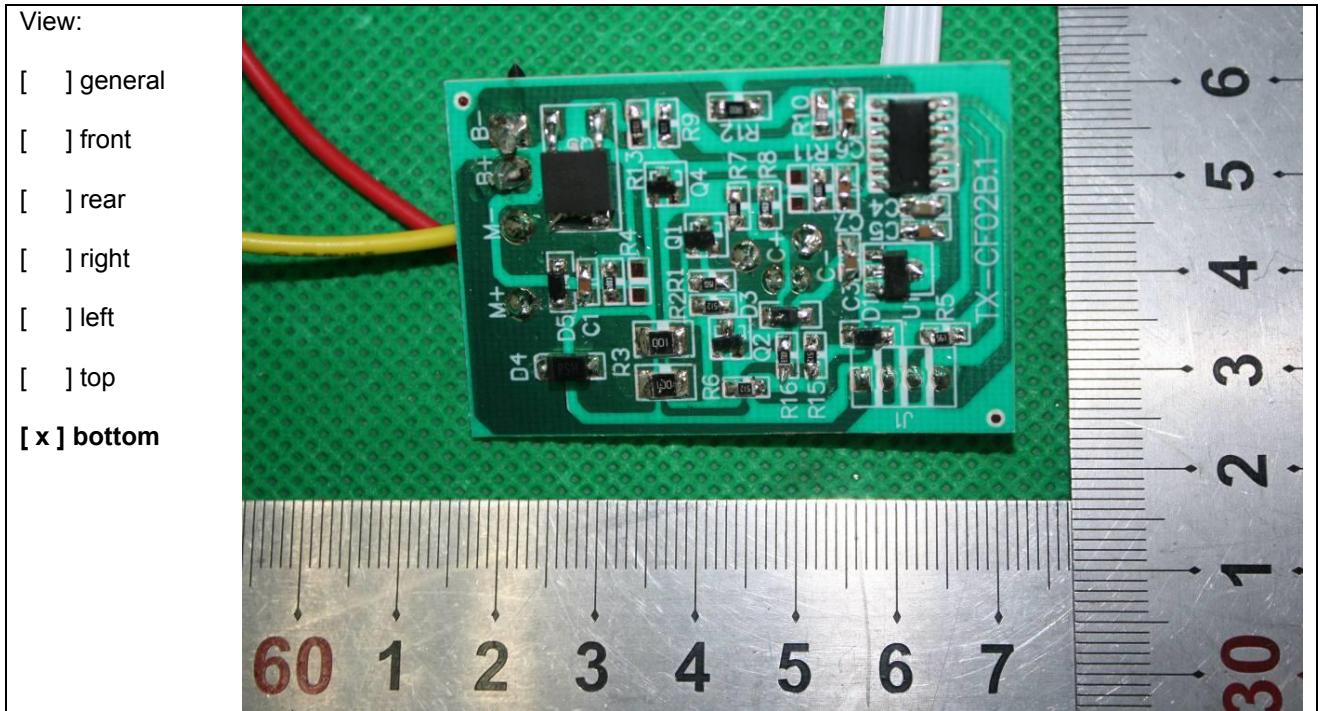


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 Photo documentation
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Report No.: NBES190701235301

SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
 SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: Control PCB for SLX260 series and SLX261 series



Detail of: J&Y Ni-MH SC1400mAh battery pack



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 Photo documentation
 Vacuum Cleaner

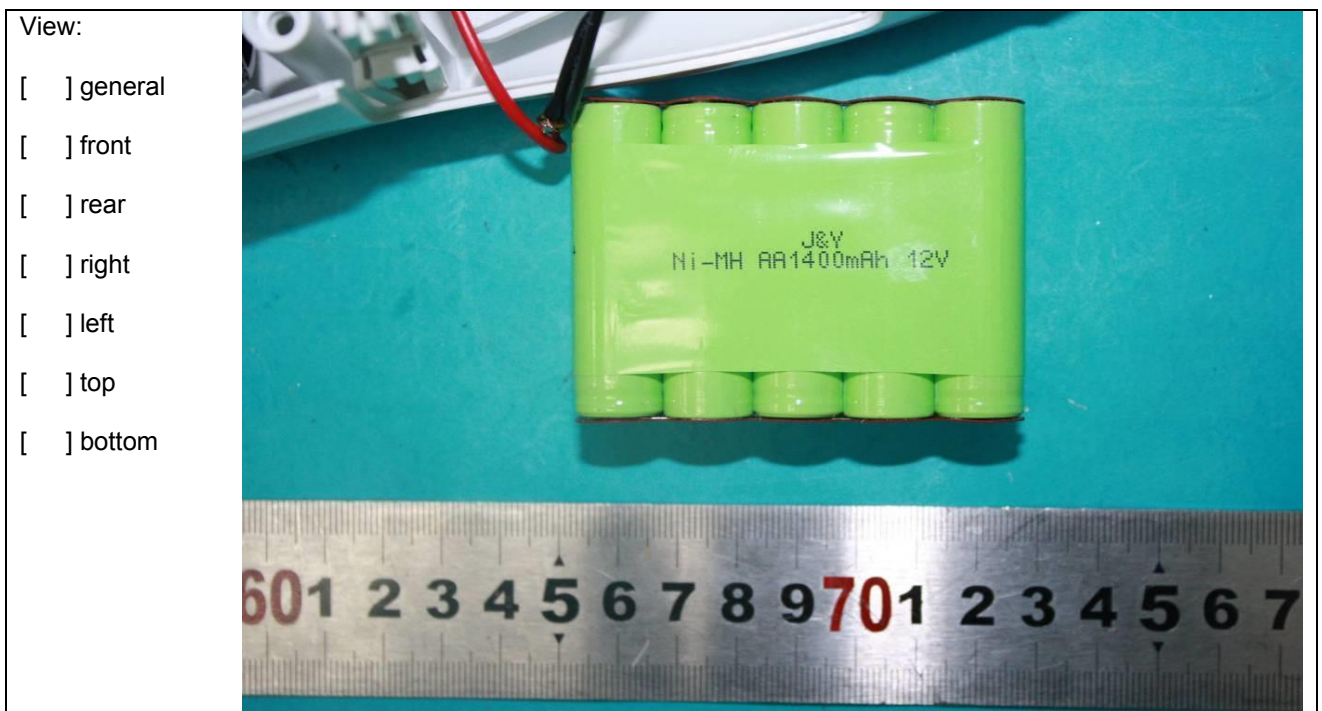
Report No.: NBES190701235301

SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
 SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: GREPOW Ni-MH SC1400mAh battery pack



Detail of: J&Y Ni-MH AA1400 battery pack

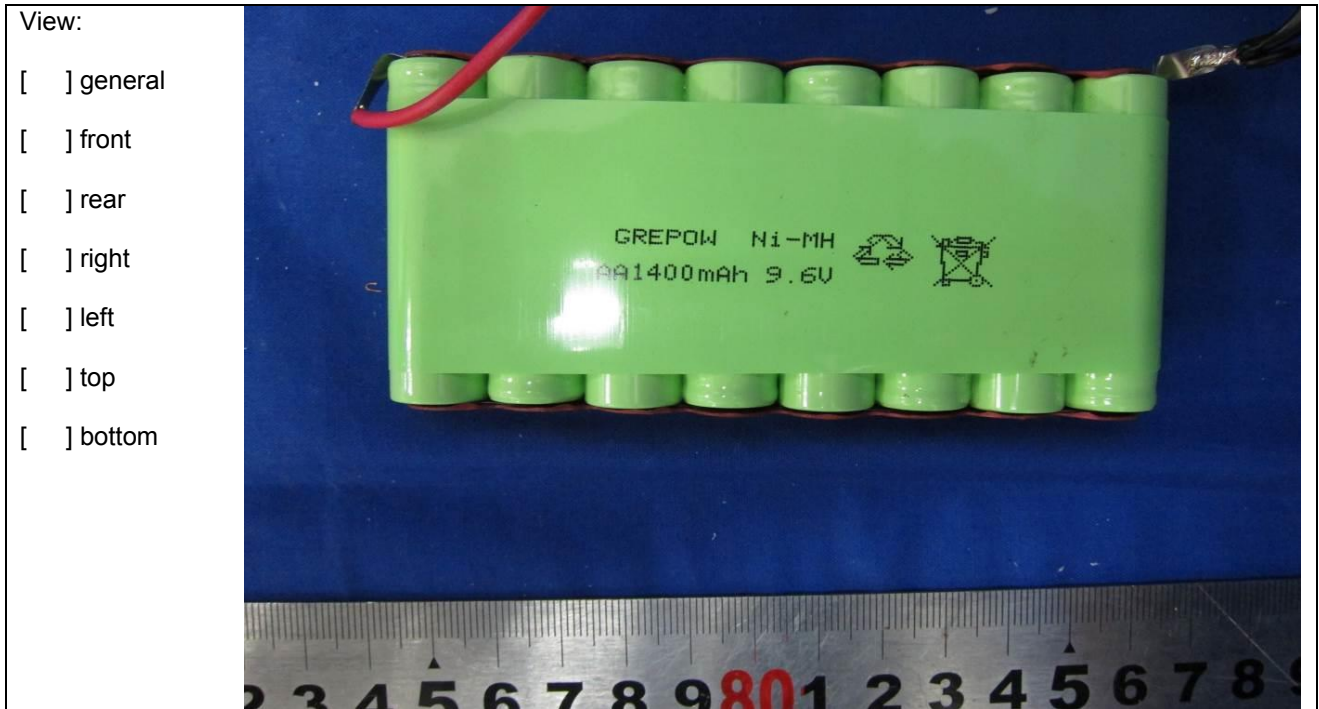


Annex II
Photo documentation
Vacuum Cleaner

Report No.: NBES190701235301

SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: GREPOW Ni-MH AA1400mAh battery pack



Detail of: K-Tech battery Li-ion 18650 battery pack



Annex II
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Report No.: NBES190701235301

SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
 SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: Bofuneng battery Li-ion 18650 battery pack



Detail of: Mingyang battery Li-ion 18650 battery



Annex II
 Photo documentation
 Vacuum Cleaner

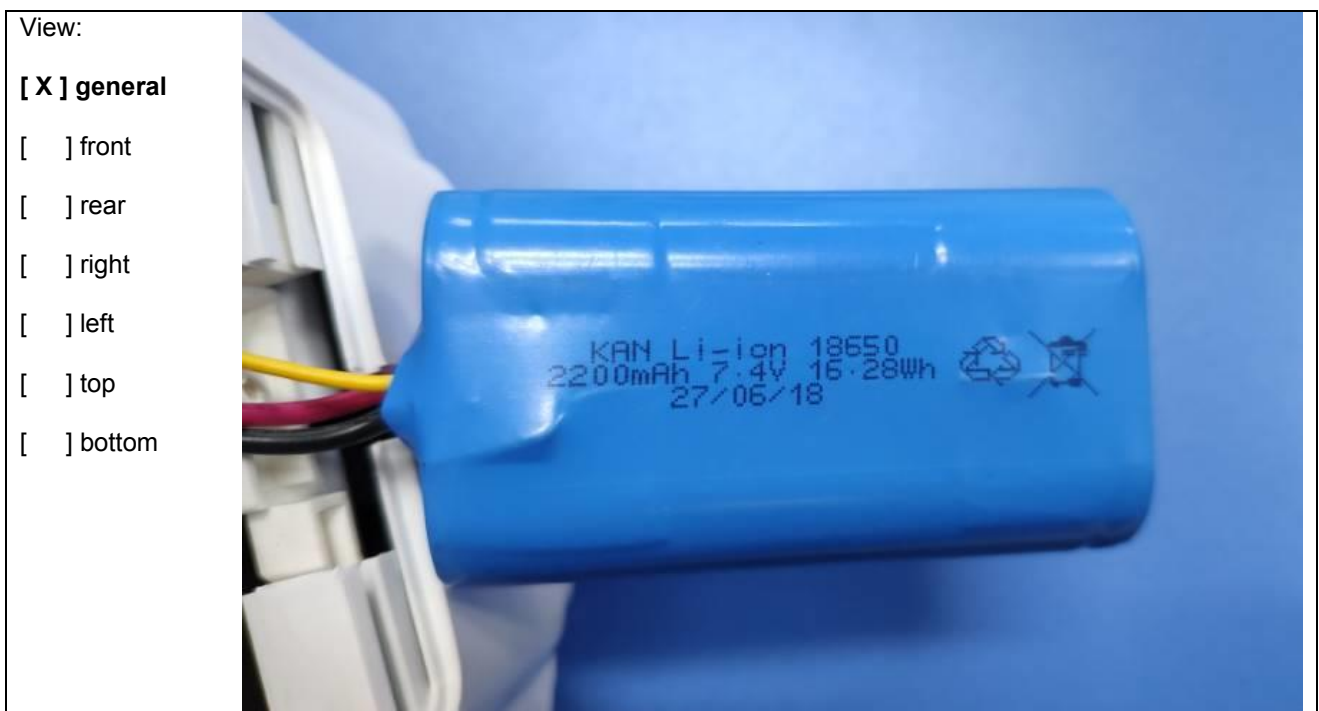
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SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
 SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: Bofuneng battery Li-ion 18650 battery pack



Detail of: KAN battery Li-ion 18650 battery pack



Annex II
Photo documentation
Vacuum Cleaner

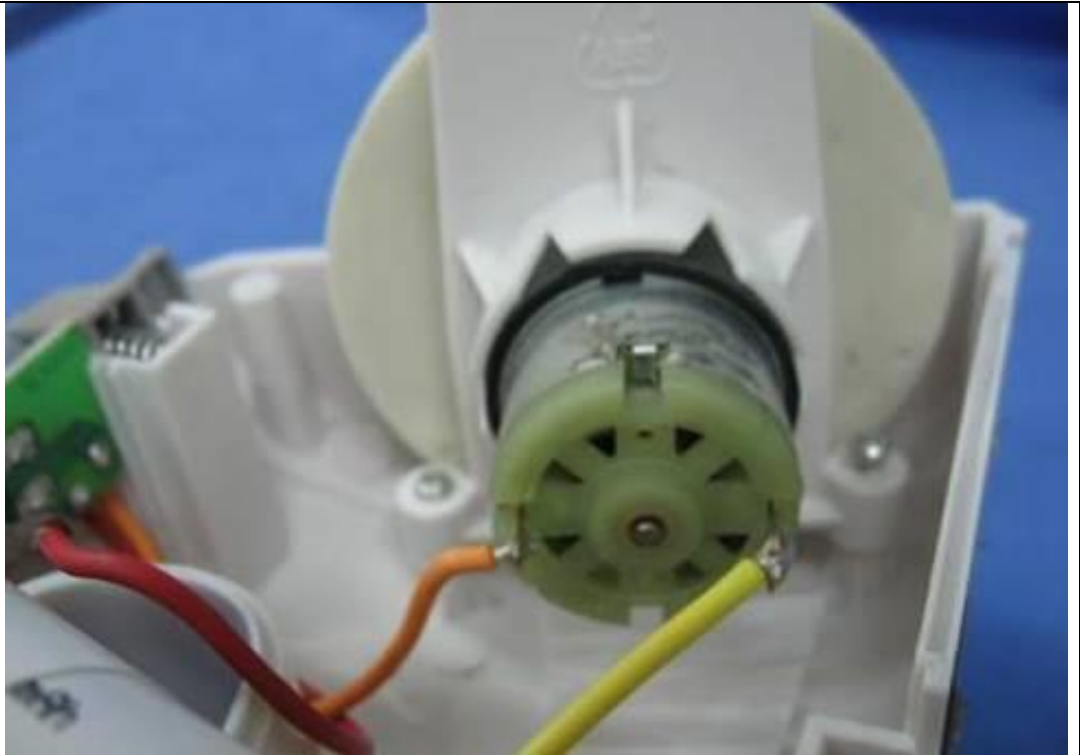
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SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: Motor (RS380)

View:

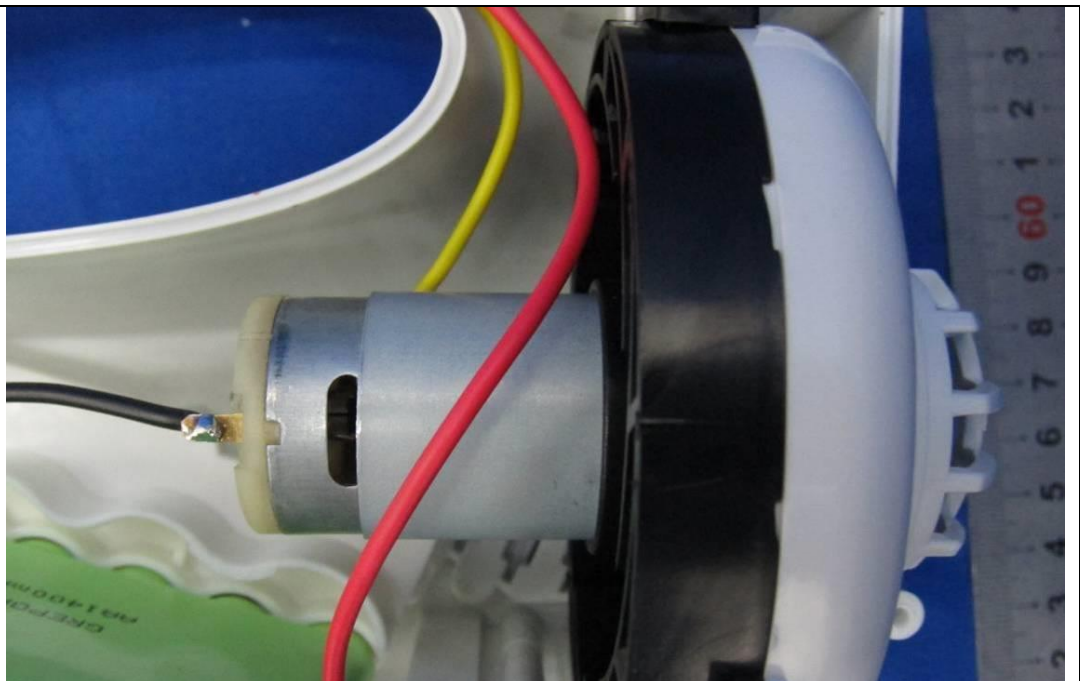
- general
- front
- rear
- right
- left
- top
- bottom



Detail of: Motor (BRS380SA)

View:

- general
- front
- rear
- right
- left
- top
- bottom



Annex II
Photo documentation
Vacuum Cleaner

Report No.: NBES190701235301

SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: Motor (RS390)

View:

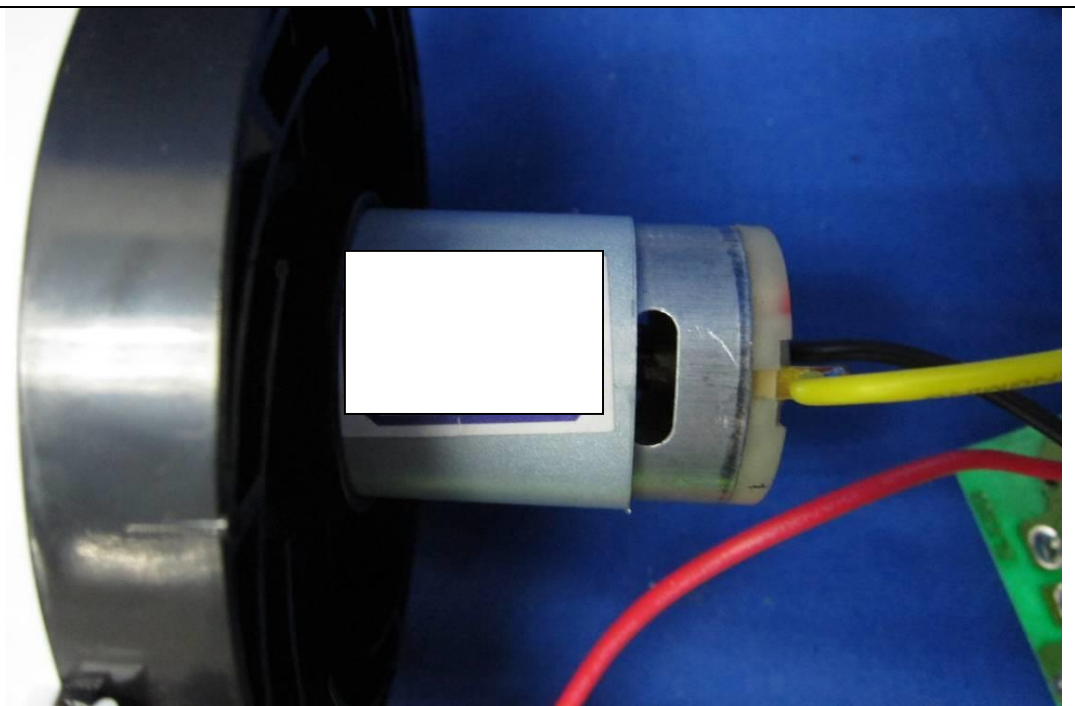
- general
- front
- rear
- right
- left
- top
- bottom



Detail of: Motor (BRS390SA)

View:

- general
- front
- rear
- right
- left
- top
- bottom

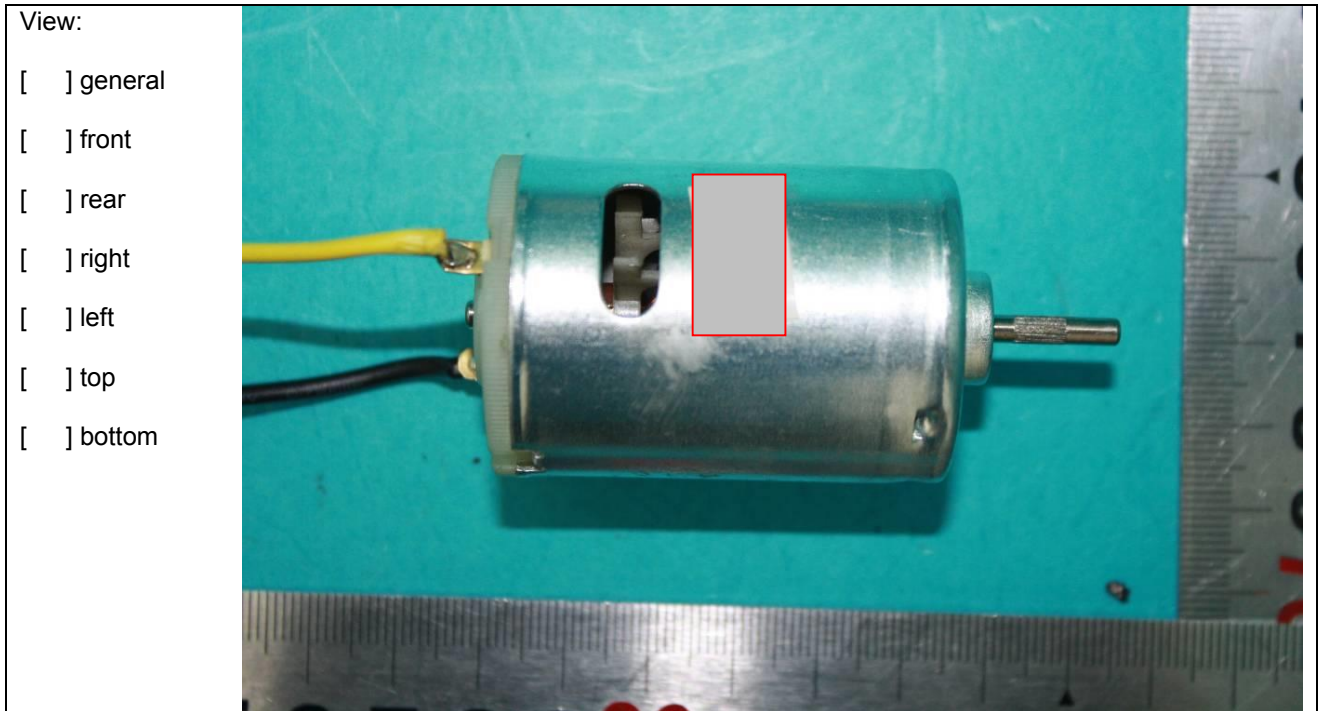


Annex II
Photo documentation
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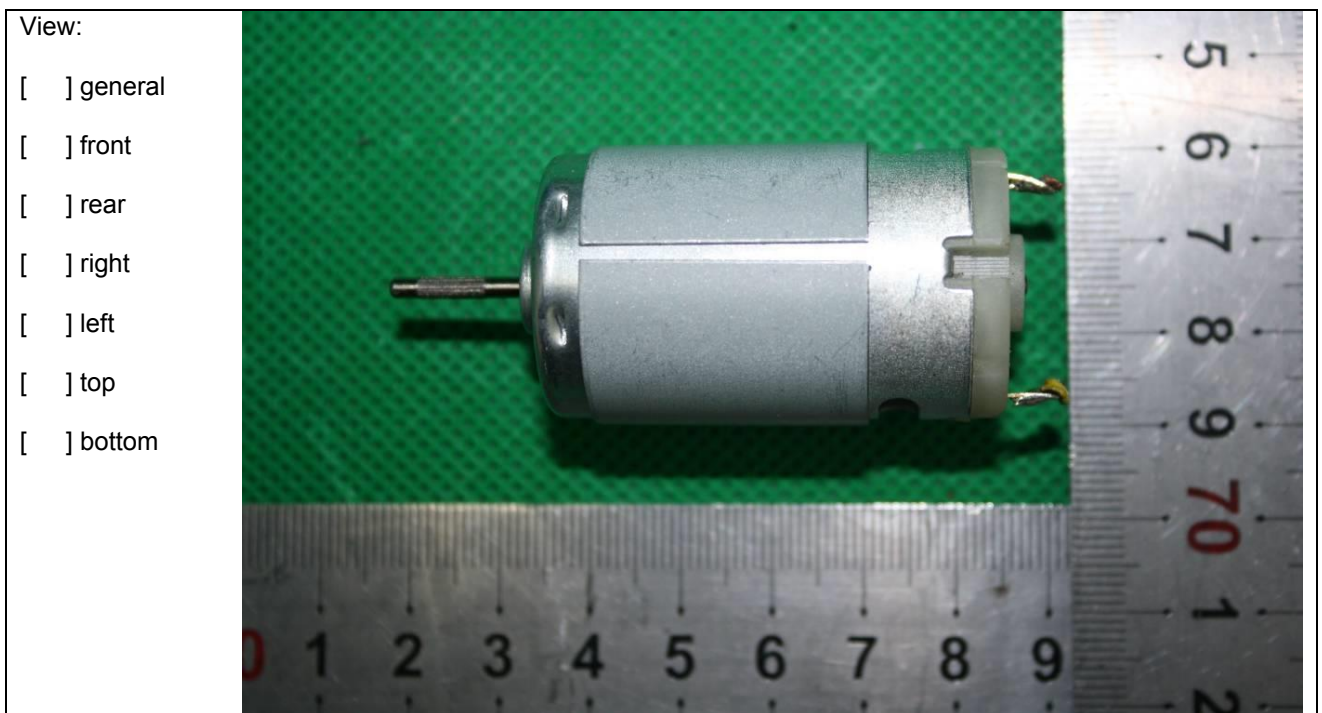
Report No.: NBES190701235301

SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: Motor (RS540)



Detail of: Motor (BRS540SH)



Annex II
 Photo documentation
 Vacuum Cleaner

Report No.: NBES190701235301

SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
 SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: Linghong TDUB series and Wanji WJG series adaptor



Detail of: Wanji WJB series adaptor

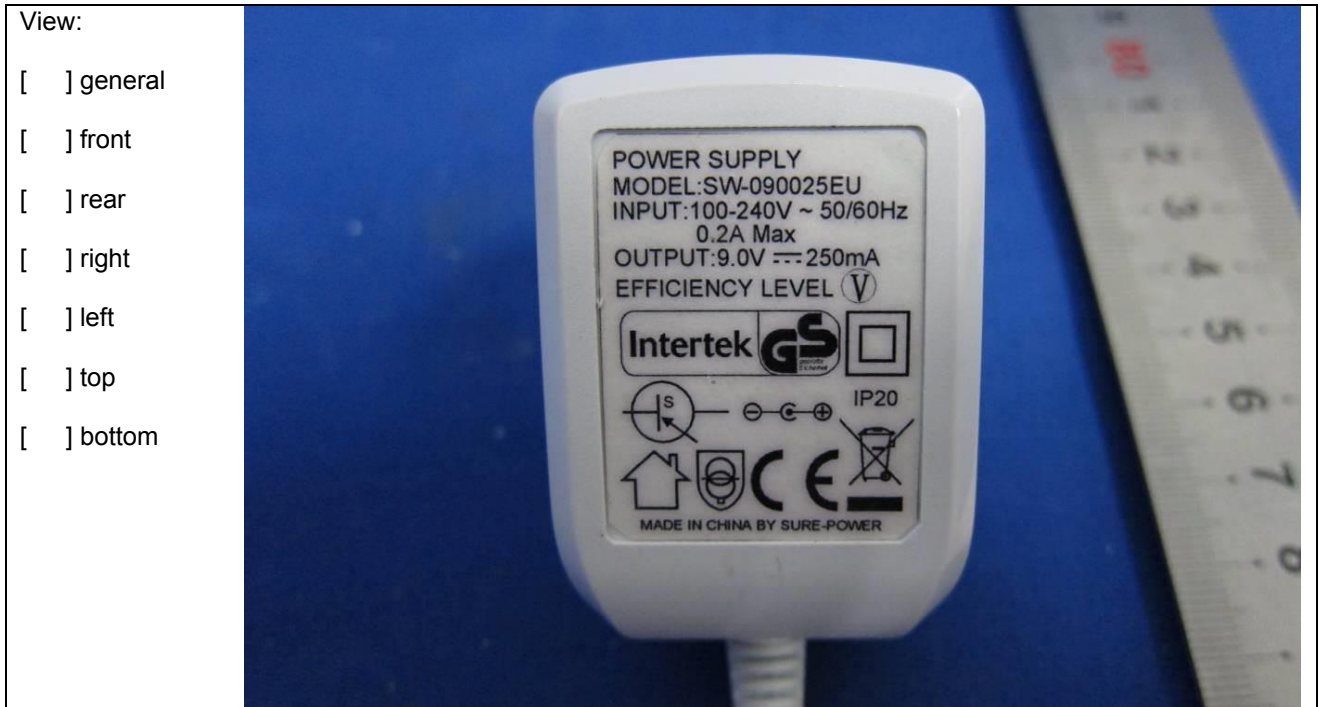


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 Photo documentation
 Vacuum Cleaner

Report No.: NBES190701235301

SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
 SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: New Wise SW series adaptor with EU plug



Detail of: New Wise SW series adaptor with BS plug



Annex II
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 Vacuum Cleaner

Report No.: NBES190701235301

SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
 SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: E-TEK ZD5 adaptor with EU plug



Detail of: E-TEK ZD5 adaptor with BS plug



Annex II
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Report No.: NBES190701235301

SLX203*, SLX227* (*=B, C, D, E), SLX207*, SLX217*, SLX225* (*=B, C, D, E, EL, F, G, H, I), SLX260*,
SLX261* (*=B, C, D, E, EL, F, G, H)

Detail of: E-TEK ZD006C adaptor

View:

- general
- front
- rear
- right
- left
- top
- bottom

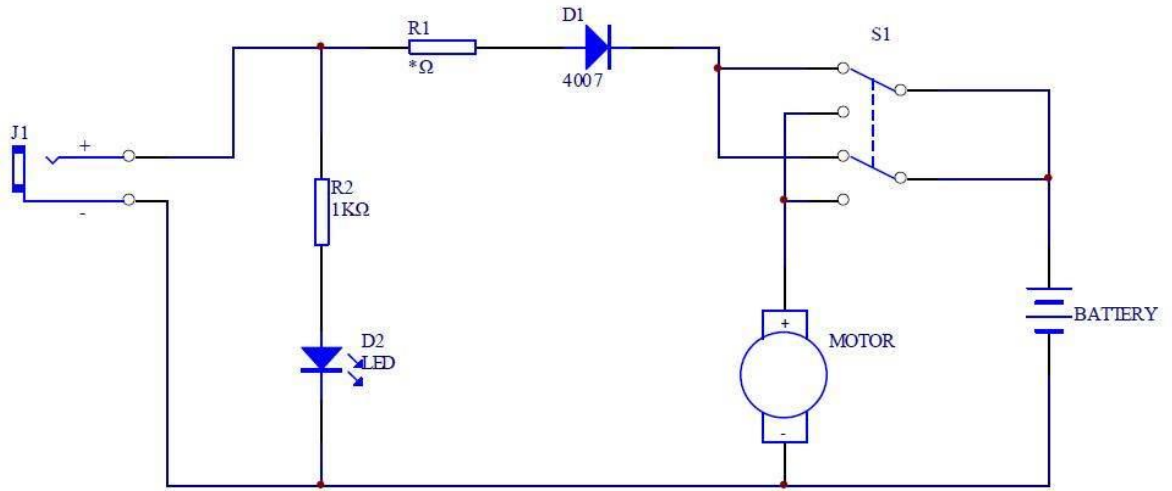


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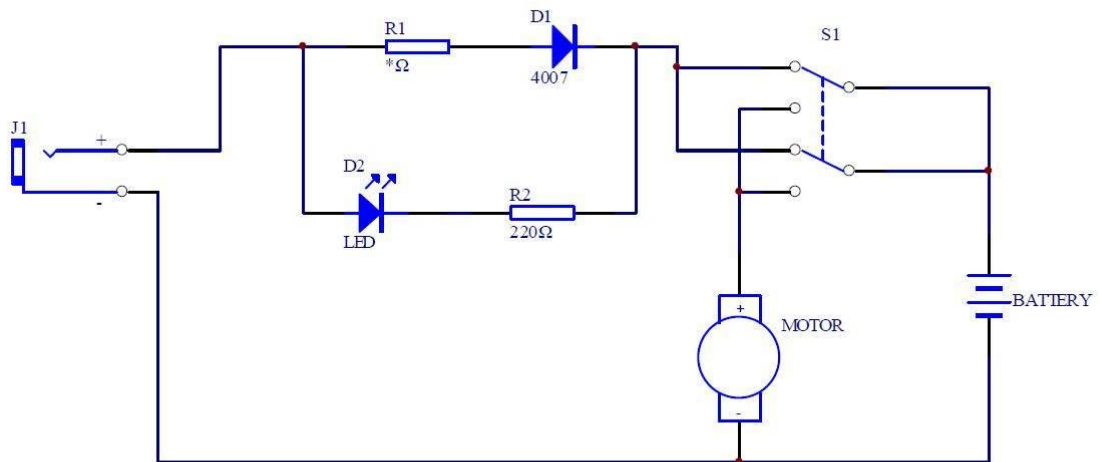
Annex III

Circuit diagram

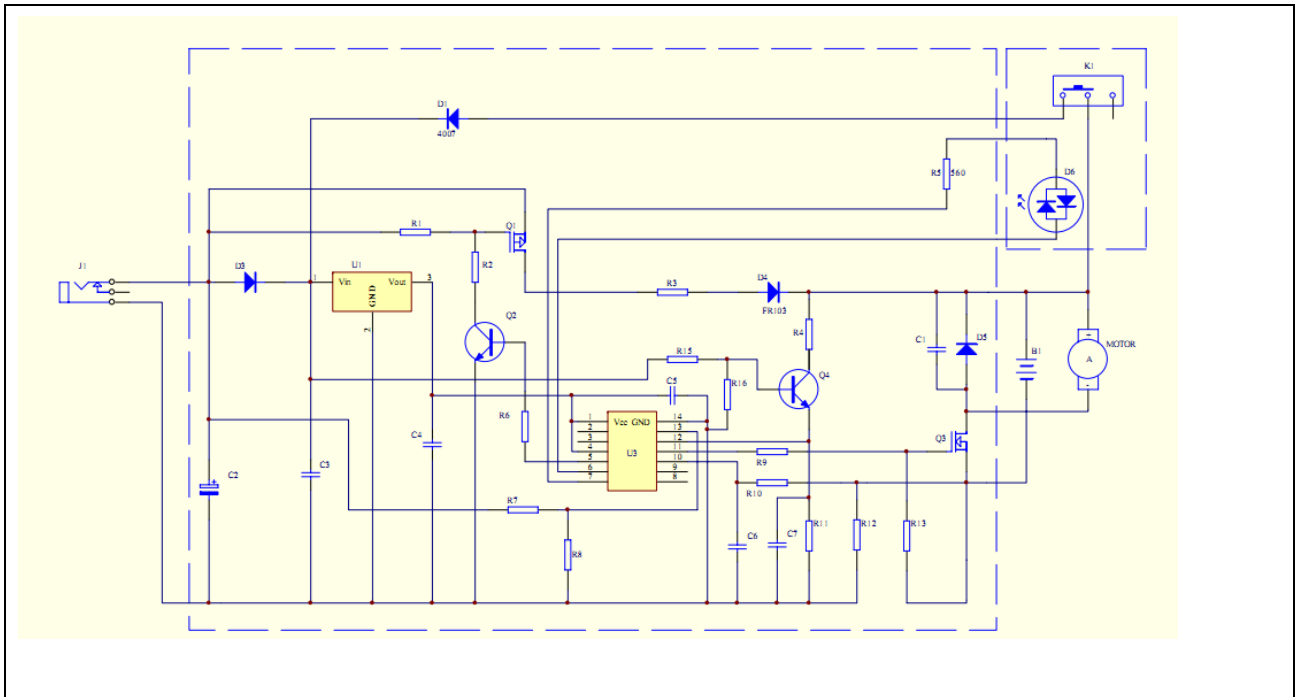
1, SLX203C, SLX207C, SLX217C, SLX225C, SLX227C, SLX260C, SLX261C



2, SLX203*(=B, D, E), SLX207*(=B, D, E, F, G, H, I), SLX217*(=B, D, E, F, G, H, I), SLX225*(=B, D, E, F, G, H, I), SLX227*(=B, D, E), SLX260*(=B, D, E, F, G, H), SLX261* (=B, D, E, F, G, H)



3, SLX207EL, SLX217EL, SLX225EL, SLX260EL, SLX261EL:



- End of Annex III -