

Test Report issued under the responsibility of:





TEST REPORT IEC 60335-2-23

Part 1: Safety of household and similar electrical appliances

Part 2: Particular requirements for appliances for skin or hair care

Report Number.....: NBES230900548002-M1

Total number of pages.....: 18

Name of Testing Laboratory SGS-CSTC Standards Technical Services Co., Ltd. Ningbo

preparing the Report.....: Branch

Address 19H Maxgrand Plaza, No.3 Tai Yau Street, San Po Kong, Kowloon,

Hong Kong

Test specification:

Standard....: IEC 60335-2-23:2016, AMD1:2019 in conjunction with

IEC 60335-1:2010, COR1:2010, AMD1:2013, COR1:2014,

AMD2:2016, COR1:2016

Test procedure.....: CB Scheme

Non-standard test method.....: N/A

Test Report Form No. IEC60335 2 23L

Test Report Form(s) Originator....: VDE Prüf- und Zertifizierungsinstitut GmbH

Master TRF.....: Dated 2019-09-10

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General disclaimer:

The test results presented in this report relate only to the object tested.

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Test	item description::	Hair D	ryer		
Trad	e Mark:	ได	nifen		
Manufacturer: Room 2		ngguan Laifen Electronic Technology Co., Ltd. om 201, Building 3, No.2 Xinghui Road, Songshanhu Tech Park, ngguan, Guangdong, China			
Біап	ding Manufacturer(s):	None	,gg,		
Mod	el/Type reference:	Swift,	SE		
Ratir	ngs:		240 V; 50/60 Hz or 50 - 6 vift: 1600 W; For SE: 150		
Resp	oonsible Testing Laboratory (as a	pplicat	ole), testing procedure	and testing location(s):	
\boxtimes	CB Testing Laboratory:		SGS-CSTC Standards Ningbo Branch	Technical Services Co., Ltd.	
Test	ing location/ address	:	No.1177, Lingyun Road China	, Hi-Tech Zone, Ningbo, Zhejiang,	
Tested by (name, function, signature):		Able Jiang, PE	/V		
Approved by (name, function, signature):		David Zhao, Reviewer	David Zhao		
	Testing procedure: CTF Stage 1		N/A		
Toot	<u> </u>		IN/A		
rest	ing location/ address	:			
Test	ed by (name, function, signature)	:			
Аррі	roved by (name, function, signatu	ıre) :			
	Testing procedure: CTF Stage 2		N/A		
Test	ing location/ address	:			
Test	ed by (name + signature)	:			
Witn	essed by (name, function, signat	ure).:			
Appı	roved by (name, function, signatu	ıre) :			
	Testing procedure: CTF Stage 3		N/A		
	Testing procedure: CTF Stage 4		N/A		
Test	ing location/ address				
Test	ed by (name, function, signature)):			
	essed by (name, function, signat				
	roved by (name, function, signatu				
	ervised by (name, function, signa				

List of Attachments (including a total number of pages in each attachment):

- 1. Annex I European group differences and national differences attachment 1 page
- 2. Annex II The requirements of Australia and New Zealand national differences- attachment 1 page

Testing location:

3. Annex III – Photo documentation – attachment 2 pages

Summary of testing:

Tests performed (name of test and test clause):

The tested samples comply with the requirements of the test specification.

IEC 60335-2-23:2016 + A1:2019

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

SGS-CSTC Standards Technical Services Co., Ltd. Ningbo Branch

After review, test of clause 10, 11, 13, 19.7, 19.8, 19.101, 19.102, 30.1 and EMF were performed on Swift with alternative motor 1.

No.1177, Lingyun Road, Hi-Tech Zone, Ningbo, Zhejiang, China

Summary of compliance with National Differences (List of countries addressed):

-List of countries addressed:

- EU Group Differences
- Republic of Korea
- National differences of Australia and New Zealand
- Malaysia Group Differences
- Singapore Differences

The product fulfils the requirements of:

AS/NZS 60335.2.23:2017 + A1:2020 + A2:2021

AS/NZS 60335.1:2020 + A1:2021

EN 60335-2-23:2003 + A1:2008 + A11:2010 + A2:2015

EN 60335-1:2012 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2:2019 + A15:2021

EN 62233:2008

Statement concerning the uncertainty of the measurement systems used for the tests: (may be required by the product standard or client)

■ Interna	I procedure u	sed for type tes	sting through v	which traceab	ility of the	measuring
uncertaint	y has been es	stablished:				

Procedure number, issue date and title:

Calculations leading to the reported values are on file with the NCB and testing laboratory that conducted the testing.

Statement not required by the standard used for type testing

Copy of marking plate:

Copy of marking plate was not changed.

Test item particulars:				
Classification of installation and use:	Hand-held appliance			
Supply Connection::	Type Y attachment (non-detachable cord with plug)			
:				
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:	2024-01-05			
Date (s) of performance of tests	2024-01-05 to 2024-01-19			
General remarks:				
"(See Annex #)" refers to additional information apper "(See appended table)" refers to a table appended to t				
Throughout this report a ⊠ comma / ☐ point is u	sed as the decimal separator.			
This document is issued by the Company subject to it or accessible at http://www.sgs.com/en/Terms-and-C subject to Terms and Conditions for Electronic Document. Conditions/Terms-e-Document.aspx. Attention is draw jurisdiction issues defined therein.	nents at http://www.sgs.com/en/Terms-and-			
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Unless otherwise stated the results shown in this test sample(s) are retained for 30 days only.	report refer only to the sample(s) tested and such			
Manufacturer's Declaration per sub-clause 4.2.5 of	IECEE 02:			
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				
When differences exist; they shall be identified in t	he General product information section.			
Name and address of factory (ies)	Dongguan Laifen Manufacturing Co., Ltd. Room 301, Building 2, No.2 Xinghui Road, Songshanhu Tech Park, Dongguan, Guangdong, China			

General product information and other remarks:

This appliance for household and indoor use only.

For detail of the differences see below table:

Model	Heating element	Motor	PCB	Material for enclosure	Rated power	Internal structure
SWIFT	Heating wires from two manufacturers:	Same	From three manufacturers:	PA+Fibergl ass	1600 W	Same
SE	heating1: Laifen heating2: Taoming		PCB1: Tulin PCB2: Youming PCB3: Laifen	PC	1500 W	

Remark: The actual heating wires of 1500W and 1600W are the same, set to different rating powers through PCB.

Modification 1 Report NBES230900548002-M1:

The original Test Report Ref. No. NBES230900548001 dated 2023-11-27 was modified on 2024-01-19 to include the following changes and additions, which are considered technical modification:

1. Alternative motors were added in this report, see below table for detail:

Original motor	Alternative motors
LF01 105 W, 107000 r/min, 310 V, Class 155	Motor 1: LF01 150 W, 107000 r/min, 310 V, Class 155 Remark: Same as original motor, except for nominal rated power and speed.
	Motor 2: LF01 105 W, 102000 r/min, 310 V, Class 155 Remark: Same as original motor and motor 1, except for nominal rated power and speed.
	Motor 3: LF01 150 W, 102000 r/min, 310 V, Class 155 Remark: Same as original motor and motor 1, except for nominal rated power and speed.

2. Changed the model name from "SWIFT" to "Swift".

		IEC 60335-2-23		
Clause	Requirement + Test		Result - Remark	Verdict

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)	Р
	If the power input varies throughout the operating cycle and the maximum value of the power input exceeds, by a factor greater than two, the arithmetic mean value of the power input occurring during a representative period, the power input is the maximum value that is exceeded for more than 10 % of the representative period		N/A
	Otherwise the power input is the arithmetic mean value		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
	the rated power input is related to the arithmetic mean value		Р
	Representative period for appliances incorporating PTC heating elements is 30 min. (IEC 60335-2-23:2016)		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
	If the current varies throughout the operating cycle and the maximum value of the current exceeds, by a factor greater than two, the arithmetic mean value of the current occurring during a representative period, the current is the maximum value that is exceeded for more than 10 % of the representative period		N/A
	Otherwise the current is the arithmetic mean value		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
	the rated current is related to the arithmetic mean value of the range		N/A
	Representative period for appliances incorporating PTC heating elements is 30 min. (IEC 60335-2-23:2016)		N/A
11	HEATING		_
11.1	No excessive temperatures in normal use		Р
	For appliances incorporating swivel connection, compliance also checked by test of clause 11.101 (IEC 60335-2-23:2016)		N/A
11.2	The appliance is held, placed or fixed in position as described	Operated with unrestricted airflow directed downwards	Р

	IEC 60335-2-23					
Clause	Requirement + Test	Result - Remark	Verdict			
	Appliances intended to be used on a stand or attached to a support placed to give most unfavourable results (IEC 60335-2-23:2016)		N/A			
	Hand-held appliances with an integral rest are also tested when placed on their rest away from the walls of the test corner. (IEC 60335-2-23:2016)		N/A			
11.3	Temperature rises, other than of windings, determined by thermocouples		Р			
	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		Р			
11.4	Heating appliances operated under normal operation at 1,15 times rated power input (W):	(see appended table)	Р			
	Temperature rise limits exceeded in appliances incorporating motors, transformers or electronic circuits, and power input is lower than rated power input, test repeated with appliance supplied at 1,06 times rated voltage (IEC 60335-2-23:2016)		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):		N/A			
11.6	Combined appliances operated as heating appliances (IEC 60335-2-23:2016)		Р			
11.7	Appliances without timer operated (IEC 60335-2-23:2	016):	_			
	- for 30 min, for hand-held appliances (IEC 60335-2-23:2016);		Р			
	- in cycles of 30 s on and 5 s off until steady conditions established, for hand dryers that automatically controlled by presence of hands (IEC 60335-2-23:2016);		N/A			
	- until steady conditions established, for other appliances (IEC 60335-2-23:2016).		N/A			
	Appliances incorporating timer operated in cycles until steady conditions established. Each cycle consists of maximum operating time of timer (min) followed by rest period of 5 s (IEC 60335-2-23:2016):		N/A			
11.8	Temperature rises monitored continuously and not exceeding the values in table 3:	(see appended table)	Р			
	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			

	IEC 60335-2-23		
Clause	Requirement + Test	Result - Remark	Verdict
	T	Γ	
	Protective devices do not operate, except		P
	components in protective electronic circuits tested for the number of cycles specified in 24.1.4		N/A
	The temperature rise of detachable curlers is not measured. (IEC 60335-2-23:2016)		N/A
	The water temperature at the geometric centre of the water volume not exceeds 50 °C. (IEC 60335-2-23:2016) (IEC 60335-2-23:2016/AMD1:2019)		N/A
11.101	Appliances incorporating a swivel connection positioned with their major axis horizontal, supply cord hanging vertically. Pull force of 1 N applied to supply cord (IEC 60335-2-23:2016)		N/A
	Appliance supplied at rated voltage, current being 1,25 times rated current (IEC 60335-2-23:2016)		N/A
	Appliance rotated about its major axis at rate of approximately 50 rev/min, direction of rotation being reversed every 20 rev. Test carried out for 1500 rev (IEC 60335-2-23:2016)		N/A
	Temperature rise of sliding contacts not exceed 65 K (IEC 60335-2-23:2016)		N/A
13	LEAKAGE CURRENT AND ELECTRIC STRENGTH TEMPERATURE	H AT OPERATING	_
13.1	Leakage current not excessive and electric strength adequate		Р
	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):	1,06 x 240 V=254,4 V	Р
	Protective impedance and radio interference filters disconnected before carrying out the tests		Р
13.2	The leakage current is measured by means of the circuit described in figure 4 of IEC 60990:1999	Class II appliance	Р
	For class 0I appliances and class I appliances, except parts of class II construction, C may be replaced by a low impedance ammeter		N/A
	Leakage current measurements:	(see appended table)	Р
13.3	The appliance is disconnected from the supply		Р
	Electric strength tests according to table 4:	(see appended table)	Р
	No breakdown during the tests		Р
19	ABNORMAL OPERATION	<u> </u>	_
19.7	Stalling test by locking the rotor if the locked rotor torque is smaller than the full load torque, or		N/A

	IEC 60335-2-23					
Clause	Requirement + Test	Result - Remark	Verdict			
	locking moving parts of other appliances	Locked moving parts	Р			
	Locked rotor, capacitors open-circuited one at a time		N/A			
	Test repeated with capacitors short-circuited one at a time, unless		N/A			
	the capacitor is of class S2 or S3 of IEC 60252-1		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			
	An electronic timer or programmer that operates to ensure compliance with the test before the maximum period under the conditions of clause 11 is reached, is a protective electronic circuit		N/A			
	Test carried out for 5 min except for (IEC 60335-2-23:	:2016):	_			
	- hand-held appliances (IEC 60335-2-23:2016);		Р			
	- appliances have to be kept switched on by hand (IEC 60335-2-23:2016);		N/A			
	- appliances incorporating a timer (IEC 60335-2-23:2016).		N/A			
	During and after the test, the appliance shall not emit flames. (IEC 60335-2-23:2016)		Р			
	Hand dryers are subjected to the test only if the locked rotor torque is less than the full load torque. (IEC 60335-2-23:2016).		N/A			
	Other appliances supplied with rated voltage for a period as specified	30s	Р			
	Winding temperatures not exceeding values specified in table 8:	(see appended table)	Р			
19.8	Multi-phase motors operated at rated voltage with one phase disconnected		Р			
19.13	During the tests the appliance does not emit flames, molten metal, poisonous or ignitable gas in hazardous amounts		Р			
	Temperature rises not exceeding the values shown in table 9:	(see appended table)	Р			
	Compliance with clause 8 not impaired		Р			
	If the appliance can still be operated it complies with 20.2		Р			
	Insulation, other than of class III appliances or class contain live parts, withstands the electric strength tesspecified in table 4:		_			
	- basic insulation (V)	1000	Р			
	- supplementary insulation (V):	1750	Р			
	- reinforced insulation (V)	3000	Р			

IEC 60335-2-23					
Clause	Requirement + Test	Result - Remark	Verdict		
	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		Р		
	The appliance does not undergo a dangerous malfunction, and		Р		
	no failure of protective electronic circuits, if the appliance is still operable		N/A		
	Appliances tested with an electronic switch in the off mode:	position, or in the stand-by	_		
	- 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 control one of the interlocks may be released provided that:	olled by one or more interlocks,	_		
	- 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		
19.101	Hairdryers operated as specified in clause 11 until steady conditions established (IEC 60335-2-23:2016)		Р		
	Voltage at terminals of motor reduced until running speed of motor is just sufficient to prevent thermal cut-out from operating, power input to heating element being maintained at 1,15 times rated power input (IEC 60335-2-23:2016)	(see appended table)	Р		
	Voltage is decreased at (IEC 60335-2-23:2016)				
	- 1 V/min, for motors with working voltage not exceeding 30 V (IEC 60335-2-23:2016);		N/A		
	- 5 V/min, for motors with working voltage exceeding 30 V (IEC 60335-2-23:2016).		Р		
	Appliance operated until steady conditions established (IEC 60335-2-23:2016)	(see appended table)	Р		
	Test is repeated with the heat setting switch placed in each position. (IEC 60335-2-23:2016/AMD1:2019)	(see appended table)	Р		
	Voltage to the heating element is maintained at the value that gives 1,15 times rated power input with the switch at the highest heat setting position. (IEC 60335-2-23:2016/AMD1:2019)		Р		
19.102	Portable hair dryers operated under normal operation at 1,15 times rated power input (IEC 60335-2-23:2016)	(see appended table)	Р		

	IEC 60335-2-23				
Clause	Requirement + Test	Result - Remark	Verdict		
	Sheet of polyethylene approximately 200 mm x 200 mm and having thickness of 50 µm placed against air-inlet and moved in any direction in order to reduce airflow so that most unfavourable conditions established (IEC 60335-2-23:2016)		Р		
	Test carried out for 30 min (IEC 60335-2-23:2016)		Р		
	Test repeated with airflow directed horizontally (IEC 60335-2-23:2016)		Р		
30	RESISTANCE TO HEAT AND FIRE	<u> </u>	_		
30.1	External parts of non-metallic material,		Р		
	parts supporting live parts, and		N/A		
	parts of thermoplastic material providing supplementary or reinforced insulation		Р		
	sufficiently resistant to heat		Р		
	Ball-pressure test according to IEC 60695-10-2		Р		
	External parts tested at 40 °C plus the maximum temperature rise determined during the test of clause 11, or at 75 °C, whichever is the higher; temperature (°C):	(see appended table 30.1)	Р		
	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):		N/A		
	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		
	Hand dryers and hairdryers, temperature rises occurring during tests of clause 19 not taken into account (IEC 60335-2-23:2016)		Р		

10.1	TABLE: Power input deviation						Р
Input deviation	on of/at:	P rated (W)	P measured (W)	ΔΡ	Required Δ P	R	emark
230 V, 50 Hz	Z	1600 W	1505	-5,9%	+5 % / -10 %	alte	vift with ernative
230 V, 60 Hz	Z	1600 W	1496	-6,5%	+5 % / -10 %	motor 1	

10.2	TABLE: Current deviation	N/A	ì
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11.8	1.8 TABLE: Heating test (Swift with alternative motor 1)				
			256,1 V 1,15 x (240/230) ² x 1600=2003,5 W		_
	Ambient (°C)	:	T1:	=20,0 °C, T2=21,8 °C	_
Thermoco	uple locations	Max. temperature rise meas Δ T (K)	sured,	Max. temperature rise li (K)	mit, Δ T
Supply co	ord insulation	14,6		50	
Ambient of	of power switch	15,9		60 (T85-25)	
Control P	CB for heating	27,8		120	
Internal w	rire (Lead to PCB)	18,5		80 (T105-25)	
Motor hou	using	36,5		115(Class 155)	
Main PCE	3	8,4		120	
VDR		34,8		60 (T85-25)	
X2 capac	itor	29,4		75 (T100-25)	
LED PCB	1	21,7		120	
Internal w element)	rire (near heating	18,8		80(T105-25)	
Ambient of	of Thermal cut-out	91,2		For reference	
Ambient of	of Thermal link	29,6		For reference	
Ambient of	of NTC	27,2		For reference	
Negative-	ion generator	21,2		65 (T90-25)	
Enclosure element)	e (internal near heating	20,1		For reference	
Bracket fo	or heating element	15,6		For reference	
Rear encl	osure	18,5		For reference	
LED light	cover (white)	14,3	For reference		
Power sw	vitch button	7,5		50	
Cool swite	ch button	7,9		50	
Plastic for	air outlet	69,6		For clause 30.1	
Handle		8,0		50	

External plastic enclosure (near motor)	4,6	74
Test corner	44,8	65

13.2	TABLE: Leakage current (Swift with alternative motor 1)			
	Heating appliances: 1,15 x rated input (W):			
	Motor-operated and combined appliances: 1,06 x rated voltage (V):	240 x 1,06 = 254,4 V		_
Leakage	current between:	I (mA)	Max. allowe	ed I (mA)
Between L/N and accessible parts		0,0001	0,35(peak)	

13.3	TABLE: Dielectric strength (Swift with alternative motor 1)				
Test voltage applied between:		Test potential applied Breakdown / f (V) (Yes/N			
Between live	e part and internal wire insulation	1000	No		
Between internal wire and accessible parts		1750 N			
Between live	e part and accessible surface	3000	No		

19.13	TABLE: Abi	normal operat	tion, temperat	ure rises(Swi	ft with alterna	ative motor	Р	
Thermoc ouple locations		Max. temperature rise measured, Δ T (K) t						
	19.7	19.8	19.101 (Position 3)	19.101 (Position 2)	19.102 (Vertical)	19.102 (Horizontal)		
Supply cord insulation	2,9	3,0	11,6	10,0	10,6	10,3	150	
Test corner	0,2	0,2	64,9	62,1	68,5	59,6	150	
Motor housing	77,5 °C	50,6 °C	58,1°C	57,4 °C	63,6 °C	60,9 °C	240 °C	

24.1	TABLE: Critical components information						Р
Object / par No.	rt	Manufacturer/ trademark	Type / model	Technical data	Standard		rk(s) of nformity
Plug		Lian Dung Electric Wire Material Co., Ltd	LT-332	250 V~, 16 A, 2P	DIN VDE 0620-2- 1	VD (40	E* 014933)
(Alternative))	Kenic Electric Mfg. Co., Ltd.	KE-25	250 V~, 16 A, 2P	DIN VDE 0620-2-1		E* 001713)

BS Plug (Fitted with an appropriate size fuse link)	Dongguan Lian Dung Electric Wire Material Co., Ltd	LT-328	250 V~	BS 1363-1	BSI* (KM 68559)
(Alternative)	Kenic Electric Mfg. Co., Ltd.	KE-328	250 V~	BS 1363-1	BSI* (KM 54019)
Plug for Korea	Hangzhou Leadership Electric Component Co., Ltd	LT-429	250 V~, 10 A, 2P	KC60884-1 KSC8305	KC* (SU04036- 16001)
(Alternative)	Kenic Electric Mfg. Co., Ltd.	KE-82	250 V~, 16 A, 2P	KC60884-1 KSC8305	KC* (SU04012- 1004D)
Plug for Australia	Lian Dung Electric Wire Material Company Ltd	LT-422	250 V~, 10 A, 2P	AS/NZS 3112	NSW* (NSW25509)
(Alternative)	Kenic Electric Mfg. Co., Ltd.	KE-12C	250 V~, 10 A, 2P	AS/NZS 3112	NSW* (NSW18070)
Supply cord	I-Sheng Electric Wire & Cable Co., Ltd.	H05VV-F	2 x 1,0 mm ²	DIN EN 50525-2- 11	VDE* (40006070)
(Alternative)	Kenic Electric Mfg. Co., Ltd.	H05VV-F	2 x 1,0 mm ²	DIN EN 50525-2- 11	VDE* (103853)
Supply cord for Korea	I-Sheng Manufacturing (Songgang) Factory	H05VV-F	2 x 1,0 mm ²	KC60227-1 KC60227-2 KC60227-5	KC* (SU01015- 4001)
(Alternative)	Kenic Electric Mfg. Co., Ltd.	H05VV-F	2 x 1,0 mm ²	KC60227-1 KC60227-2 KC60227-5	KC* (SU01008- 4002A)
Supply cord for Australia	I-Sheng Electric Wire & Cable Co., Ltd.	H05VV-F	2 x 1,0 mm ²	AS/NZS 60227.5	SAA* (SAA- 190401-EA)
(Alternative)	Kenic Electric Mfg. Co., Ltd.	H05VV-F	2 x 1,0 mm ²	AS/NZS 60227.5	NSW* (NSW15075)
Heating element	Dongguan Taoming Electronic Technology CO., LTD.	0Cr25AL5	Φ: 0,4 mm; 11,3±0,3 ohm/m	IEC/EN 60335-1 IEC/EN 60335-2- 23	Tested with appliance
(Alternative)	Dongguan Laifen Manufacturing Co., Ltd.	40LF01001A	Ф: 0,4 mm; 11,3±0,3 ohm/m	IEC/EN 60335-1 IEC/EN 60335-2- 23	Tested with appliance
Thermal link	SCHOTT Japan Corporation	SF240R0	Tf:240°C, 250 V~, 10 A/15 A	IEC/EN 60691	VDE* (40035880)
(Alternative)	Zhongshan YUANSHUN Thermal Protectors Co.,	RY240	Tf:240°C, 250 V~, 10 A	IEC/EN 60691	TUV* (R 50397951)

	LTD.				
(Alternative)	Zhongshan LongDe Electrical Co., Ltd.	RY240	Tf:240°C, 250 V~, 10 A	IEC/EN 60691	TUV* (B 067446 0027 Rev.02)
(Alternative)	A.R. Electric Co., Ltd.	F00240C	Tf:240°C, 250 V~, 10 A	IEC/EN 60691	TUV* (R 50415424)
Thermal cut out	Zhongshan Chuancheng Precision Electronics Co., Ltd	CCS9	Tf: 75°C, 250 V~,12 A	IEC/EN 60730-1 IEC/EN 60730-2- 9	TUV* (R 50279441)
(Alternative)	Foshan Eagle Technology Co., Ltd.	AMT-C1B	Tf: 75°C, 250 V~,12 A	IEC/EN 60730-1 IEC/EN 60730-2- 9	TUV* (R 50451298)
X2 capacitor	Tenta Electric Industrial Co., Ltd.	MEX/MKP	275 V~ / 310 V~, X2, 0,22 μF, 0,33μF, 40/100/21	IEC/EN 60384-14	VDE* (119119)
(Alternative)	Guangdong JURCC electronics Co., LTD.	MPX/MKP	275 V~ / 305 V~ / 310 V~, X2, 0,22 uf, 0,33 µF, 40/110/56	IEC/EN 60384-14	VDE* (40034920)
(Alternative)	Dain Electronics Co., Ltd	MPX/MEX/NP X	275 V~, X2, 0,22 μF, 0,33μF, 40/110/21, 40/100/21	IEC/EN 60384-14	VDE* (40018798)
(Alternative)	KNSCHA ELECTRONICS CO., LIMITED	MPX/MKP	275 V~/305 V~/310 V~, X2, 0,22 μF, 0,33 μF, 40/110/56	IEC/EN 60384-14	VDE* (40045532)
Varistor	Dongguan City Dafu Electronics Co. Ltd.	10D471K NDF10D471K	300 V, 210 PF, T85	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE* (40050909)
(Alternative)	Hongzhi Enterprises Ltd.	HEL10D471K	272 V, 460 PF, T85	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE* (40037512)
Fuse	Shenzhen Lanson Electronics Co. Ltd	24E	250 V~, T3,15 A	IEC/EN 60127-1 IEC/EN 60127-7	CB* (CN52403)
(Alternative)	Dongguan Chevron Electronic Technology Co., Ltd.	SET	250 V~, T3,15 A	IEC/EN 60127-1 IEC/EN 60127-7	VDE* (40049351)
(Alternative)	Dongguan Better Electronics Technology Co., Ltd.	244	250 V~, T3,15 A	IEC/EN 60127-1 IEC/EN 60127-7	TUV* (R 50335764)
(Alternative)	XC Electronics (Shenzhen) Corp. Ltd.	24T	250 V~, T3,15 A	IEC/EN 60127-1 IEC/EN 60127-7	TUV* (R 50423660)

(Alternative)	Suzhou Walter Electronic Co., Ltd.	2410LT	250 V~, T3,15 A	IEC/EN 60127-1 IEC/EN 60127-7	TUV* (R 50485936)
Optocoupler	Everlight Electronics Co., Ltd	ELM3052 V	T110	IEC/EN 60747-5- 5	VDE* (40028116)
(Alternative)	Everlight Electronics Co., Ltd	EL3H4 V	T110	IEC/EN 60747-5-5	VDE* (132249)
(Alternative)	FUJIAN LIGHTNING OPTOELECTRON IC CO., LTD	TD 3052 TD 3063 TD 354A	T110	IEC/EN 60747-5- 5	VDE* (40048885)
NTC	Guangdong hongzhi Electronic Technology Co., Ltd	8D-11	Operating temperature: - 40~+175 °C	IEC/EN 60335-1 IEC/EN 60335-2- 23	Tested with appliance
Switch	Siber(China) Electric Mfg. Limited	XN-14B	250 V~; 10(2) A; T85, 1E4	IEC/EN 61058-1	TUV* (B 093102 0006 Rev.01)
(Alternative)	Shunde District of Foshan City Yimingda Electrical Company Limited	KND-1 series	125/250 V~; 16(4) A; 250 V~; 10(2) A; T105; 1E4	IEC/EN 61058-1	ENEC* (NO4729)
(Alternative)	Zhuhai Toply Electronics Science & Technology Co., Ltd.	TS-13	250 V~; 10(2) A; T85, 1E4	IEC/EN 61058-1	TUV* (B 069119 0048 Rev.05)
Internal wire (Lead to motor)	Foshan Zhengguan Fluorplastics Wire Factory	10362	26 AWG, 200 °C; 600 V	IEC/EN 60335-1 IEC/EN 60335-2- 23	UL* (E345435) + Tested with appliance
Internal wire	Foshan City Zheng Guan Fluorplastics Wire Factory	1332	10-30 AWG, 200 °C; 600 V	IEC/EN 60335-1 IEC/EN 60335-2- 23	UL* (E307535) + Tested with appliance
(Alternative)	Shenzhen Xinlian Wire & Cable Co., Ltd	1569	300 V, 18 AWG, 105 °C	IEC/EN 60335-1 IEC/EN 60335-2- 23	UL* (E502584) + Tested with appliance
Quick connector on PCB	Dongguan Shi Shang Tong Metal Electronics Co., Ltd.	5TS870115	GWT550	IEC/EN 60335-1 IEC/EN 60335-2- 23	Tested with appliance
Motor	Dongguan Laifen Electronic Technology Co., Ltd	LF01	105 W, 107000 r/min, 310 V, Class 155	IEC/EN 60335-1 IEC/EN 60335-2- 23	Tested with appliance
(Alternative)	Dongguan Laifen Electronic	LF01	150 W, 107000 r/min, 310 V,	IEC/EN 60335-1 IEC/EN 60335-2-	Tested with appliance

	Technology Co., Ltd		Class 155	23	
(Alternative)	Dongguan Laifen Electronic Technology Co., Ltd	LF01	105 W, 102000 r/min, 310 V, Class 155	IEC/EN 60335-1 IEC/EN 60335-2- 23	Tested with appliance
(Alternative)	Dongguan Laifen Electronic Technology Co., Ltd	LF01	150 W, 102000 r/min, 310 V, Class 155	IEC/EN 60335-1 IEC/EN 60335-2- 23	Tested with appliance
Motor winding	PACIFIC Electric Wire & Cable (shenzhen) Co., Ltd	UEWH/U@	MW 82-C Class 180	IEC/EN 60335-1 IEC/EN 60335-2- 23	UL* (E201757) + Tested with appliance
Negative Ion Generator	Dongguan Nanbai Electronic Technology Co., Ltd	NB-LM	I/P:100-250 V~, 50/60 Hz, 1 W, T90 O/P: -3,0 KV DC±1,0 KV DC or I/P: 220-240 V~, 50 Hz, ≤1 W, O/P: -0,5~-6 kV DC	IEC/EN 60335-1 IEC/EN 60335-2- 65	TUV* (B 0832100010 Rev.02)
Plastic enclosure / Internal plastic parts of handle (model of Swift)	Cndong Epone New Materials (Guangdong) Co., Ltd.	PA6B30	Min.thickness:2,0 mm	IEC/EN 60335-1 IEC/EN 60335-2- 23	Tested with appliance
Plastic enclosure / Internal plastic parts of handle (model of SE)	DongGuan Changcheng Industrial Co., Ltd	CLC- PCWH409B	Min.thickness:2,0 mm	IEC/EN 60335-1 IEC/EN 60335-2- 23	Tested with appliance
Switch button (model of Swift)	CNDONG EPONE NEW MATERIALS (GUANGDONG) CO., LTD	PA6B30	Min.thickness:1,0 mm	IEC/EN 60335-1 IEC/EN 60335-2- 23	Tested with appliance
Switch button (model of SE)	DongGuan Changcheng Industrial Co., Ltd	CLC- PCWH409B	Min.thickness:1,0 mm	IEC/EN 60335-1 IEC/EN 60335-2- 23	Tested with appliance
Plastic for air outlet	CNDONG EPONE NEW MATERIALS (GUANGDONG) CO., LTD	ZGDB SLVPA66B30 WZ	Min.thickness:1,5 mm	IEC/EN 60335-1 IEC/EN 60335-2- 23	Tested with appliance
Main PCB material	KINGBOARD LAMINATES HOLDINGS LTD	KB-6160C	V-0	IEC/EN 60335-1 IEC/EN 60335-2- 23	UL* (E123995) + Tested with appliance
(Alternative)	Shenzhen Honlynn Circuit Co Ltd	HL-D	V-0	IEC/EN 60335-1 IEC/EN 60335-2- 23	UL* (E475833) + Tested with appliance
(Alternative)	Jiangxi Fan Li Sheng Electronics Co Ltd	YFL-D	V-0	IEC/EN 60335-1 IEC/EN 60335-2- 23	UL* (E471141) + Tested with

					appliance
LED PCB material	KINGBOARD LAMINATES HOLDINGS LTD	KB-6160C	V-0	IEC/EN 60335-1 IEC/EN 60335-2- 23	UL* (E123995) + Tested with appliance
(Alternative)	Shenzhen Honlynn Circuit Co Ltd	HL-D	V-0	IEC/EN 60335-1 IEC/EN 60335-2- 23	UL* (E475833) + Tested with appliance
(Alternative)	Jiangxi Fan Li Sheng Electronics Co Ltd	YFL-D	V-0	IEC/EN 60335-1 IEC/EN 60335-2- 23	UL* (E471141) + Tested with appliance
(Alternative)	FENGSHUN JUNDA ELECTRONIC CO LTD	JD-F	V-0	IEC/EN 60335-1 IEC/EN 60335-2- 23	UL* (E252800) + Tested with appliance
Heat shrink tube	Dongguan Huangfeng Insulation Material Co., Ltd	HFT-02	GWT550	IEC/EN 60335-1 IEC/EN 60335-2- 23	UL* (E236485) + Tested with appliance
Silicone tube	DACHUN ELECTRON FACTORY	SES@	600 V, 200 °C, VW- 1, used to wrap	IEC/EN 60335-1 IEC/EN 60335-2- 23	UL* (E324726) + Tested with appliance
Mica support	PAMICA GROUP LTD	PB5662A	Min.thickness:0,81 mm	IEC/EN 60335-1 IEC/EN 60335-2- 23	Tested with appliance

Supplementary information:

- 1) Provided evidence ensures the agreed level of compliance. See OD-CB2039.
- 2) License available upon request.
- 3) The rating of BS fuse-link should be used according to the table 2 for BS 1363-1:2016+A1:2018.

30.1	TABLE: Ball Pressure Test of Thermoplastics				Р
Allowed im	red impression diameter (mm) 2,0				
Object/ Par	t No./ Material	Manufacturer/ trademark	Test temperature (°C)	Impression diame	ter (mm)
Plastic for ai	r outlet	See 24.1	110	1,20	

<End of report>

motor 1

IEC IECEE

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	II	EC60335_2_23M ATTACHM	1ENT	
Clause	Requirement + Test		Result - Remark	Verdict
	A.	TTACHMENT TO TEST REI	PORT	
		IEC 60335-2-23		
	Household	P DIFFERENCES AND NAT and similar electrical appliar ar requirements for appliance	nces – Safety –	
Differences	according to:	used in conjunction with	2008 + A11:2010 + AC:2012 + A 014 + A13:2017 + A1:2019 + A14	
Attachment	Form No	EU_GD_IEC60335_23M_I	l	
Attachment Originator:		Nemko Group AS		
Master Attachment:		2022-06-17		
	2022 IEC System for Co eneva, Switzerland. All rig		ification of Electrical Equipmer	nt
	CENELEC COMMON	MODIFICATIONS (EN)		_
11.8		est, the temperature rises usly and shall not exceed ble 3 and Table Z101.	Covered by 11.8 of main report	Р
				Р
	a coating having a mini made by enamel or nor	l is considered coated when mum thickness of 80 µm		N/A
		ANNEX EN 62233:2008 + A	AC:2008	
	E	MF- ELECTROMAGNETIC	S FIELDS	
Clause	Requirement + Test	Requirement + Test		Verdict
	The tested product also complies with the requirements of EN 62233:2008			
Swift with alternative	Limit100%		Measured max. : 8,519 %	Р

< End of Annex I >

AS/NZS 60335.1 & AS/NZS 60335.2.23 - Annex II

The requ	uirements of AS/NZS 60335.1:2020 (deviations from IEC 60335-1:2010 + A1:2013 +	A2:2016)	
10.1	After the last paragraph of the test specification insert the following variation:	_	
	Appliance outlets and socket outlets accessible to the user	N/A	
	-that are incorporated in appliances connected to the supply mains; and	N/A	
	-that operate at rated voltage;	N/A	
	Are not loaded during the test, however their contribution to the power input is considered to be the marked outlet load per appliance outlet or socket-outlet.	N/A	
11.7	After the first paragraph of the test specification insert the following variation:		
	Appliance outlets and socket outlets accessible to the user are loaded with a resistive load that gives the marked outlet load in watts.	N/A	
11.8	After the first paragraph of the test specification insert the following variation:		
	The pins of plug connectors inserted into appliance outlets accessible to the user and plugs inserted into socket outlets accessible to the user shall have a temperature rise not exceeding 45 K.	N/A	
19.13	After the seventh paragraph of the test specification insert the following variation:		
	During and after the tests the no-load output voltage of an accessible safety extra-low voltage outlet or connector or Universal Serial Bus (USB) outlet shall not have increased by more than 3 V or 10% of its no-load output voltage in normal use, whichever is higher.	N/A	

<End of Annex II>

Annex III Photo documentation Hair Dryer **Swift**, SE

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Detail of: Alternative motor 1



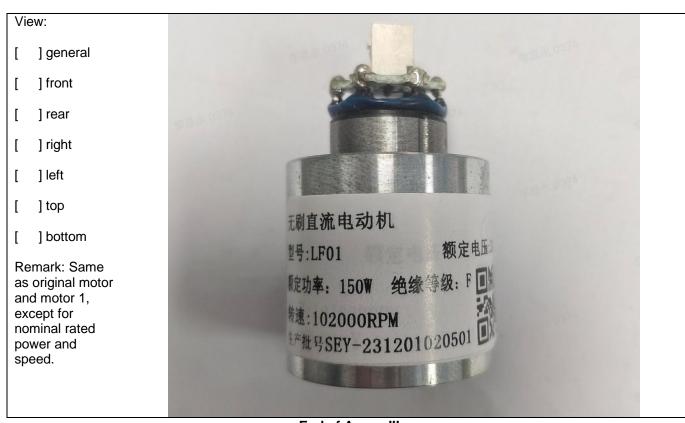
Detail of: Alternative motor 2



Annex III Photo documentation Hair Dryer **Swift**, SE

Report No.: NBES230900548002-M1

Detail of: Alternative motor 3



< End of Annex III >