т

	TEST REPORT IEC 60335-1
Safety of h	nousehold and similar electrical appliances
Report Number:	T-TST-2311337A Rev.01
Tested by (printed name and signature):	Victor Wu Vso
Approved by (printed name and signature):	Freda Shao
Date of issue:	2023-12-20
Testing Laboratory Name	STAFIT Electronic Technology Co., 1 td.
Address:	RM.7, 9/F.,Block A, International Business Incubator, Lanyue Road, Guangzhou Science Park, Guangdong, China.
Testing location/address	Same as above
Applicant's name:	Dongguan Saiji Electric Technology Co., Ltd.
Address:	The third floor of Building A4, Zhigu Science and Technology Park, Gekeng Village, hengli Town, 522460 Depaguen City, Quanadena Browinso, B. B. China
	523469 Dongguan City, Guangdong Province, P. R. China
	: : : : : : : : : : : : : : : : :
Test specification:	
Standard:	IEC 60335-1:2010 (Fifth Edition)
Test procedure::	CE-LVD
Non-standard test method:	N/A
Test Report Form No:	IEC60335_1T
Test Report Form(s) Originator :	Nemko AS
Master TRF	Dated 2013-02
	for Conformity Testing and Certification of Electrotechnical), Geneva, Switzerland. All rights reserved.
is acknowledged as copyright owner an	whole or in part for non-commercial purposes as long as the IECEE ad source of the material. IECEE takes no responsibility for and will ng from the reader's interpretation of the reproduced material due to
Test item description	DC Fan (Cooling fan)
Trade Mark :	Dongguan Saiji Electric Technology Co., Ltd.
Manufacturer:	Same as applicant
Model/Type reference:	See page 4-15
Ratings:	See page 4-15

STAFIT Electronic Technology Co., Ltd. RM.7, 9/F.,Block A, International Business Incubator, Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750 www.stafit.com.cn Technical Report No. T-TST-2311337A Rev.01 Project Engineer: Victor Wu EN 60335-1 2023-12-20 page 1 of 124



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

Attachment No. 1: page 97-110 for EN Group deviation and National deviation of EN 60335-1:2012 +A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2:2019 + A15:2021 and EN 62233:2008.

Attachment No. 2: page 111-112 for Amendment A15:2021 to EN60335-1:2012

Attachment No. 3: page 113-117 for photo documentation.

Attachment No. 4:page 118 for QUALIFIEDCERTIFICATE for STAFIT LAB

Summary of testing:

Tests performed:

EN 60335-1:2012+A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2:2019 + A15:2021 EN 62233:2008

The submitted samples were found to comply with the above specification.

Summary of compliance with National Differences

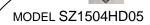
List of countries addressed: EN Group deviation.

The product fulfils the requirements of EN 60335-1:2012+A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2:2019 + A15:2021 and EN 62233:2008.

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.

For example:



Dongguan Saiji Electric Technology Co., Ltd. The third floor of Building A4, Zhigu Science and Technology Park, Gekeng Village, hengli Town, 523469 Dongguan City, Guangdong Province, P. R. China

MADE IN CHINA

Remark:

1) Above rating artwork also represent models in page 4-15, except with different model no.

and rating

2) The height of CE shall not less than 5 mm and WEEE symbol not less than 7 mm.

3) According to the EU directives which have been aligned with EU NLF (new legislative framework), both of manufacturer and importer's name and address shall be affixed on the product or, where that is not possible, on its packaging or in a document accompanying the product before the product is placed on the EU market.

STAFIT Electronic Technology Co., Ltd. RM.7, 9/F.,Block A, International Business Incubator, Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750 www.stafit.com.cn



Test item particulars:	-
Classification of installation and use:	Built-in component
Supply Connection:	Lead wires
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:	2023-11-22
Date (s) of performance of tests	2023-11-22 to 2023-12-20
General remarks:	
The test results presented in this report relate only to the This report shall not be reproduced, except in full, without laboratory. "(See Enclosure #)" refers to additional information ap "(See appended table)" refers to a table appended to the Throughout this report a comma / point is us	put the written approval of the Issuing testing pended to the report. he report.
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	 ☐ Yes ☑Not applicable
When differences exist; they shall be identified in the	ne General product information section.
Name and address of factory (ies):	Same as applicant



General product information:

1. The DC fans are component, when used in the end product, all requirements of the end product standard must be fulfilled.

2. Model differences see below tab	le:
------------------------------------	-----

No.	Model No.	Rated Voltage (V ===)	Rated Current (A)	Size (mm)
1	SZ1504HD05	5	0.04	15*15*4mm
2	SZ1804HD05	5	0.04	18*18*4mm
3	SZ2006MD05	5	0.12	20*20*6mm
4	SZ2006HD05	5	0.16	20*20*6mm
5	SZ2006MD1	12	0.06	20*20*6mm
6	SZ2006HD1	12	0.1	20*20*6mm
7	SZ2010MD05	5	0.08	20*20*10mm
8	SZ2010HD05	5	0.13	20*20*10mm
9	SZ2010MD1	12	0.05	20*20*10mm
10	SZ2010HD1	12	0.08	20*20*10mm
11	SZ2507MD05	5	0.17	25*25*07mm
12	SZ2507HD05	5	0.19	25*25*07mm
13	SZ2507XD05	5	0.22	25*25*07mm
14	SZ2507MD1	12	0.07	25*25*07mm
15	SZ2507HD1	12	0.08	25*25*07mm
16	SZ2507XD1	12	0.09	25*25*07mm
17	SZ2510MD05	5	0.17	25*25*10mm
18	SZ2510HD05	5	0.19	25*25*10mm
19	SZ2510XD05	5	0.24	25*25*10mm
20	SZ2510MD1	12	0.07	25*25*10mm
21	SZ2510HD1	12	0.08	25*25*10mm
22	SZ2510XD1	12	0.10	25*25*10mm
23	SZ3007MD05	5	0.17	30*30*7mm
24	SZ3007HD05	5	0.19	30*30*7mm
25	SZ3007XD05	5	0.24	30*30*7mm
26	SZ3007MD1	12	0.07	30*30*7mm
27	SZ3007HD1	12	0.08	30*30*7mm
28	SZ3007XD1	12	0.10	30*30*7mm
29	SZ3010MD05	5	0.10	30*30*10mm
30	SZ3010HD05	5	0.15	30*30*10mm

Technical Report No. T-TST-2311337A Rev.01 Project Engineer: Victor Wu EN 60335-1 2023-12-20 page 4 of 118



No.	Model No.	Rated Voltage (V ====)	Rated Current (A)	Size (mm)
31	SZ3010XD05	5	0.20	30*30*10mm
32	SZ3010MD1	12	0.05	30*30*10mm
33	SZ3010HD1	12	0.06	30*30*10mm
34	SZ3010XD1	12	0.08	30*30*10mm
35	SZ3010MD2	24	0.03	30*30*10mm
36	SZ3010HD2	24	0.04	30*30*10mm
37	SZ3010XD2	24	0.05	30*30*10mm
38	SZ3510MD05	5	0.13	35*35*10mm
39	SZ3510HD05	5	0.21	35*35*10mm
40	SZ3510XD05	5	0.31	35*35*10mm
41	SZ3510MD1	12	0.06	35*35*10mm
42	SZ3510HD1	12	0.09	35*35*10mm
43	SZ3510XD1	12	0.12	35*35*10mm
44	SZ3510MD2	24	0.04	35*35*10mm
45	SZ3510HD2	24	0.05	35*35*10mm
46	SZ3510XD2	24	0.06	35*35*10mn
47	SZ4010MD05	5	0.11	40*40*10mn
48	SZ4010HD05	5	0.21	40*40*10mm
49	SZ4010XD05	5	0.38	40*40*10mm
50	SZ4010MD1	12	0.06	40*40*10mn
51	SZ4010HD1	12	0.09	40*40*10mm
52	SZ4010XD1	12	0.15	40*40*10mn
53	SZ4010MD2	24	0.05	40*40*10mn
54	SZ4010HD2	24	0.06	40*40*10mn
55	SZ4010XD2	24	0.08	40*40*10mn
56	SZ4015MD1	12	0.09	40*40*15mm
57	SZ4015HD1	12	0.16	40*40*15mm
58	SZ4015XD1	12	0.25	40*40*15mn
59	SZ4015MD2	24	0.05	40*40*15mm
60	SZ4015HD2	24	0.08	40*40*15mm
61	SZ4015XD2	24	0.13	40*40*15mm
62	SZ4020MD1	12	0.09	40*40*20mn
63	SZ4020HD1	12	0.17	40*40*20mm
64	SZ4020XD1	12	0.32	40*40*20mn
65	SZ4020MD2	24	0.05	40*40*20mn
66	SZ4020HD2	24	0.08	40*40*20mm



No.	Model No.	Rated Voltage (V ====)	Rated Current (A)	Size (mm)
67	SZ4020XD2	24	0.16	40*40*20mm
68	SZ4028MD1	12	0.26	40*40*28mm
69	SZ4028HD1	12	0.50	40*40*28mm
70	SZ4028XD1	12	0.80	40*40*28mm
71	SZ4028MD2	24	0.13	40*40*28mm
72	SZ4028HD2	24	0.25	40*40*28mm
73	SZ4028XD2	24	0.40	40*40*28mm
74	SZ4056LD1	12	1.24	40*40*56mm
75	SZ4056MD1	12	1.52	40*40*56mm
76	SZ4056HD1	12	2.01	40*40*56mm
77	SZ5010MD1	12	0.04	50*50*10mm
78	SZ5010HD1	12	0.07	50*50*10mm
79	SZ5010XD1	12	0.11	50*50*10mm
80	SZ5010LD2	24	0.03	50*50*10mm
81	SZ5010MD2	24	0.04	50*50*10mm
82	SZ5010HD2	24	0.08	50*50*10mm
83	SZ5015MD1	12	0.08	50*50*15mm
84	SZ5015HD1	12	0.13	50*50*15mm
85	SZ5015XD1	12	0.21	50*50*15mm
86	SZ5015LD2	24	0.04	50*50*15mm
87	SZ5015MD2	24	0.07	50*50*15mm
88	SZ5015HD2	24	0.11	50*50*15mm
89	SZ5020MD05	5	0.18	50*50*20mm
90	SZ5020HD05	5	0.30	50*50*20mm
91	SZ5020XD05	5	0.40	50*50*20mm
92	SZ5020MD1	12	0.08	50*50*20mm
93	SZ5020HD1	12	0.12	50*50*20mm
94	SZ5020XD1	12	0.20	50*50*20mm
95	SZ5020MD2	24	0.04	50*50*20mm
96	SZ5020HD2	24	0.06	50*50*20mm
97	SZ5020XD2	24	0.10	50*50*20mm
98	SZ6010MD05	5	0.12	60*60*10mm
99	SZ6010HD05	24	0.26	60*60*10mm
100	SZ6010MD1	12	0.10	60*60*10mm
101	SZ6010HD1	12	0.17	60*60*10mm
102	SZ6010MD2	24	0.06	60*60*10mm

Technical Report No. T-TST-2311337A Rev.01 Project Engineer: Victor Wu EN 60335-1 2023-12-20 page 6 of 118



No.	Model No.	Rated Voltage (V)	Rated Current (A)	Size (mm)
103	SZ6010HD2	24	0.07	60*60*10mm
104	SZ6015MD1	12	0.06	60*60*15mm
105	SZ6015HD1	12	0.10	60*60*15mm
106	SZ6015XD1	12	0.16	60*60*15mm
107	SZ6015MD2	24	0.03	60*60*15mm
108	SZ6015HD2	24	0.05	60*60*15mm
109	SZ6015XD2	24	0.08	60*60*15mm
110	SZ6020MD1	12	0.10	60*60*20mm
111	SZ6020HD1	12	0.18	60*60*20mm
112	SZ6020XD1	12	0.28	60*60*20mm
113	SZ6020MD2	24	0.05	60*60*20mm
114	SZ6020HD2	24	0.09	60*60*20mm
115	SZ6020XD2	24	0.15	60*60*20mm
116	SZ6020MD4	48	0.04	60*60*20mm
117	SZ6020HD4	48	0.05	60*60*20mm
118	SZ6020XD4	48	0.08	60*60*20mm
119	SZ6025MD1	12	0.24	60*60*25mm
120	SZ6025HD1	12	0.46	60*60*25mm
121	SZ6025XD1	12	0.78	60*60*25mm
122	SZ6025MD2	24	0.12	60*60*25mm
123	SZ6025HD2	24	0.23	60*60*25mm
124	SZ6025XD2	24	0.39	60*60*25mm
125	SZ6025MD4	48	0.06	60*60*25mm
126	SZ6025HD4	48	0.12	60*60*25mm
127	SZ6025XD4	48	0.20	60*60*25mm
128	SZ6038LD1	12	0.29	60*60*38mm
129	SZ6038MD1	12	0.80	60*60*38mm
130	SZ6038HD1	12	1.70	60*60*38mm
131	SZ6038LD2	24	0.15	60*60*38mm
132	SZ6038MD2	24	0.40	60*60*38mm
133	SZ6038HD2	24	0.85	60*60*38mm
134	SZ6038LD4	48	0.08	60*60*38mm
135	SZ6038MD4	48	0.20	60*60*38mm
136	SZ6038HD4	48	0.43	60*60*38mm
137	SZ7015MD1	12	0.11	70*70*15mm



No.	Model No.	Rated Voltage (V ====)	Rated Current (A)	Size (mm)
138	SZ7015HD1	12	0.28	70*70*15mm
139	SZ7015XD1	12	0.50	70*70*15mm
140	SZ7015MD2	24	0.06	70*70*15mm
141	SZ7015HD2	24	0.14	70*70*15mm
142	SZ7015XD2	24	0.25	70*70*15mm
143	SZ7020MD1	12	0.12	70*70*20mm
144	SZ7020HD1	12	0.22	70*70*20mm
145	SZ7020XD1	12	0.40	70*70*20mm
146	SZ7020MD2	24	0.06	70*70*20mm
147	SZ7020HD2	24	0.11	70*70*20mm
148	SZ7020XD2	24	0.20	70*70*20mm
149	SZ7025MD1	12	0.11	70*70*25mm
150	SZ7025HD1	12	0.28	70*70*25mm
151	SZ7025XD1	12	0.50	70*70*25mm
152	SZ7025MD2	24	0.06	70*70*25mm
153	SZ7025HD2	24	0.14	70*70*25mm
154	SZ7025XD2	24	0.25	70*70*25mm
155	SZ7025MD4	48	0.04	70*70*25mm
156	SZ7025HD4	48	0.07	70*70*25mm
157	SZ7025XD4	48	0.13	70*70*25mm
158	SZ8015MD1	12	0.10	80*80*15mm
159	SZ8015HD1	12	0.19	80*80*15mm
160	SZ8015XD1	12	0.31	80*80*15mm
161	SZ8015MD2	24	0.05	80*80*15mm
162	SZ8015HD2	24	0.10	80*80*15mm
163	SZ8015XD2	24	0.16	80*80*15mm
164	SZ8020MD1	12	0.12	80*80*20mm
165	SZ8020HD1	12	0.28	80*80*20mm
166	SZ8020XD1	12	0.40	80*80*20mm
167	SZ8020MD2	24	0.06	80*80*20mm
168	SZ8020HD2	24	0.14	80*80*20mm
169	SZ8020XD2	24	0.20	80*80*20mm
170	SZ8025MD1	12	0.24	80*80*25mm
171	SZ8025HD1	12	0.40	80*80*25mm
172	SZ8025XD1	12	0.65	80*80*25mm



No.	Model No.	Rated Voltage (V ====)	Rated Current (A)	Size (mm)
173	SZ8025MD2	24	0.10	80*80*25mm
174	SZ8025HD2	24	0.20	80*80*25mm
175	SZ8025XD2	24	0.35	80*80*25mm
176	SZ8025MD4	48	0.06	80*80*25mm
177	SZ8025HD4	48	0.10	80*80*25mm
178	SZ8025XD4	48	0.18	80*80*25mm
179	SZ8038LD1	12	0.28	80*80*38mm
180	SZ8038MD1	48	0.65	80*80*38mm
181	SZ8038HD1	48	1.30	80*80*38mm
182	SZ8038XD1	48	3.60	80*80*38mm
183	SZ8038LD2	24	0.14	80*80*38mm
184	SZ8038MD2	24	0.32	80*80*38mm
185	SZ8038HD2	24	0.65	80*80*38mm
186	SZ8038XD2	24	1.80	80*80*38mm
187	SZ8038LD4	48	0.08	80*80*38mm
188	SZ8038MD4	48	0.16	80*80*38mm
189	SZ8038HD4	48	0.35	80*80*38mm
190	SZ8038XD4	48	0.90	80*80*38mm
191	SZ9225MD1	12	0.60	92*92*25mm
192	SZ9225HD1	12	0.80	92*92*25mm
193	SZ9225XD1	12	0.85	92*92*25mm
194	SZ9225MD2	24	0.30	92*92*25mm
195	SZ9225HD2	24	0.40	92*92*25mm
196	SZ9225XD2	24	0.42	92*92*25mm
197	SZ9232MD1	12	0.74	92*92*32mm
198	SZ9232HD1	12	1.20	92*92*32mm
199	SZ9232MD2	24	0.37	92*92*32mm
200	SZ9232HD2	24	0.60	92*92*32mm
201	SZ9232MD4	48	0.18	92*92*32mm
202	SZ9232HD4	48	0.30	92*92*32mm
203	SZ9238MD1	12	0.75	92*92*38mm
204	SZ9238HD1	12	1.60	92*92*38mm
205	SZ9238XD1	12	3.00	92*92*38mm
206	SZ9238MD2	24	0.40	92*92*38mm
207	SZ9238HD2	24	0.80	92*92*38mm



No.	Model No.	Rated Voltage (V ====)	Rated Current (A)	Size (mm)
208	SZ9238XD2	24	1.50	92*92*38mm
209	SZ9238MD4	48	0.22	92*92*38mm
210	SZ9238HD4	48	0.40	92*92*38mm
211	SZ9238XD4	48	0.75	92*92*38mm
212	SZ12025MD1	12	0.52	120*120*25mm
213	SZ12025HD1	12	0.85	120*120*25mm
214	SZ12025XD1	12	1.20	120*120*25mm
215	SZ12025MD2	24	0.25	120*120*25mm
216	SZ12025HD2	24	0.42	120*120*25mm
217	SZ12025XD2	24	0.70	120*120*25mm
218	SZ12025MD4	48	0.13	120*120*25mm
219	SZ12025HD4	48	0.21	120*120*25mm
220	SZ12025XD4	48	0.35	120*120*25mm
221	SZ12032LD2	24	0.25	120*120*32mm
222	SZ12032HD2	24	0.60	120*120*32mm
223	SZ12038HD05	5	2.20	120*120*38mm
224	SZ12038MD1	12	1.11	120*120*38mm
225	SZ12038HD1	12	1.63	120*120*38mm
226	SZ12038XD1	12	4.00	120*120*38mm
227	SZ12038MD2	24	0.62	120*120*38mm
228	SZ12038HD2	24	0.80	120*120*38mm
229	SZ12038XD2	24	2.00	120*120*38mm
230	SZ12038MD4	48	0.28	120*120*38mm
231	SZ12038HD4	48	0.43	120*120*38mm
232	SZ12038XD4	48	1.00	120*120*38mm
233	SZ14025HD1	12	1.00	140*140*25mm
234	SZ14038MD1	12	2.50	140*140*38mm
235	SZ14038HD1	12	5.00	140*140*38mm
236	SZ14038MD2	24	0.90	140*140*38mm
237	SZ14038HD2	24	1.50	140*140*38mm
238	SZ14038XD2	24	2.50	140*140*38mm
239	SZ14038MD4	48	0.40	140*140*38mm
240	SZ14038HD4	48	0.55	140*140*38mm
241	SZ14038XD4	48	1.25	140*140*38mm
242	SZ14050MD2	24	1.80	140*140*50mm

STAFIT Electronic Technology Co., Ltd. RM.7, 9/F.,Block A, International Business Incubator, Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750 www.stafit.com.cn

Technical Report No. T-TST-2311337A Rev.01 Project Engineer: Victor Wu EN 60335-1 2023-12-20 page 10 of 118



No.	Model No.	Rated Voltage (V ====)	Rated Current (A)	Size (mm)
243	SZ14050HD2	24	3.10	140*140*50mm
244	SZ14050MD4	48	0.95	140*140*50mm
245	SZ14050HD4	48	1.50	140*140*50mm
246	SZ15050MD1	12	3.80	150*150*51mm
247	SZ15050HD1	12	5.50	150*150*51mm
248	SZ15050MD2	24	2.10	150*150*51mm
249	SZ15050HD2	24	3.50	150*150*51mm
250	SZ15050MD4	48	0.95	150*150*51mm
251	SZ15050HD4	48	1.80	150*150*51mm
252	SZ17251MD1	12	3.80	172*150*51mm
253	SZ17251HD1	12	5.50	172*150*51mm
254	SZ17251MD2	24	1.80	172*150*51mm
255	SZ17251HD2	24	2.50	172*150*51mm
256	SZ17251XD2	24	3.80	172*150*51mm
257	SZ17251MD4	48	0.95	172*150*51mm
258	SZ17251HD4	48	1.50	172*150*51mm
259	SZ18060HD1	12	5.00	180*180*60mm
260	SZ18060HD2	24	2.60	180*180*60mm
261	SZ18060HD4	48	1.50	180*180*60mm
262	SZ20053MD1	12	7.50	200*200*53mm
263	SZ20053HD1	12	12.00	200*200*53mm
264	SZ20053MD2	24	1.20	200*200*53mm
265	SZ20053HD2	24	2.50	200*200*53mm
266	SZ20053XD2	24	7.00	200*200*53mm
267	SZ20053MD4	48	1.20	200*200*53mm
268	SZ20053HD4	48	2.00	200*200*53mm
269	SZ20053XD4	48	3.50	200*200*53mm
270	SZ20060MD1	12	3.50	200*200*60mm
271	SZ20060HD1	12	7.50	200*200*60mm
272	SZ20060MD2	24	2.20	200*200*60mm
273	SZ20060HD2	24	3.50	200*200*60mm
274	SZ20060XD2	24	4.80	200*200*60mm
275	SZ20060MD4	48	1.00	200*200*60mm
276	SZ20060HD4	48	1.60	200*200*60mm



No.	Model No.	Rated Voltage	Rated Current	Size
		(V ====)	(A)	(mm)
277	SZ20060XD4	48	2.40	200*200*60mm
278	SZ20070HD2	24	4.50	φ200*70mm
279	SZ20070HD4	48	2.30	φ200*70mm
280	SZ22580HD2	24	2.50	225*225*80mm
281	SZ22580HD4	48	4.50	225*225*80mm
282	SZ25489MD2	24	5.50	φ254*89mm
283	SZ25489HD2	24	9.80	φ254*89mm
284	SZ25489MD4	48	2.50	φ254*89mm
285	SZ25489HD4	48	4.50	φ254*89mm
286	SZ28080MD2	24	6.50	280*280*80mm
287	SZ28080HD2	24	8.80	280*280*80mm
288	SZ28080MD4	48	2.50	280*280*80mm
289	SZ28080HD4	48	4.50	280*280*80mm
290	SZ33083HD1	12	4.00	374*330*83mm
291	SZ33083MD2	24	2.00	374*330*83mm
292	SZ33083HD2	24	3.80	374*330*83mm
293	SZ33083HD4	48	1.90	374*330*83mm
294	SG3517HD05	5	0.15	35*35*17mm
295	SG4010MD1	12	0.07	40*40*10mm
296	SG4010HD1	12	0.09	40*40*10mm
297	SG4010MD2	24	0.03	40*40*10mm
298	SG4010HD2	24	0.04	40*40*10mm
299	SG5010MD05	5	0.12	50*50*10mm
300	SG5010HD05	5	0.16	50*50*10mm
301	SG5010XD05	5	0.28	50*50*10mm
302	SG5010MD1	12	0.05	50*50*10mm
303	SG5010HD1	12	0.07	50*50*10mm
304	SG5015MD1	12	0.12	50*50*15mm
305	SG5015HD1	12	0.22	50*50*15mm
306	SG5015XD1	12	0.30	50*50*15mm
307	SG5015MD2	24	0.06	50*50*15mm
308	SG5015HD2	24	0.12	50*50*15mm
309	SG5015XD2	24	0.16	50*50*15mm
310	SG5020MD1	12	0.11	50*50*20mm
311	SG5020HD1	12	0.22	50*50*20mm

STAFIT Electronic Technology Co., Ltd. RM.7, 9/F.,Block A, International Business Incubator, Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750 www.stafit.com.cn

Technical Report No. T-TST-2311337A Rev.01 Project Engineer: Victor Wu EN 60335-1 2023-12-20 page 12 of 118



No.	Model No.	Rated Voltage (V)	Rated Current (A)	Size (mm)
312	SG5020MD2	24	0.06	50*50*20mm
313	SG5020HD2	24	0.12	50*50*20mm
314	SG6025MD1	12	0.14	60*60*25mm
315	SG6025HD1	12	0.30	60*60*25mm
316	SG6025XD1	12	0.50	60*60*25mm
317	SG6025MD2	24	0.07	60*60*25mm
318	SG6025HD2	24	0.15	60*60*25mm
319	SG6025XD2	24	0.25	60*60*25mm
320	SG6028HD1	12	0.12	60*60*28mm
321	SG7515HD1	12	0.46	75*75*15mm
322	SG7530MD1	12	0.20	75*75*30mm
323	SG7530HD1	12	0.45	75*75*30mm
324	SG7530MD2	24	0.10	75*75*30mm
325	SG7530HD2	24	0.22	75*75*30mm
326	SG8016HD1	12	0.38	80*80*16mm
327	SG9216HD1	24	0.35	92*92*16mm
328	SG9733MD1	12	0.70	97*94*33mm
329	SG9733HD1	12	1.10	97*94*33mm
330	SG9733XD1	12	1.80	97*94*33mm
331	SG9733MD2	24	0.35	97*94*33mm
332	SG9733HD2	24	0.56	97*94*33mm
333	SG9733XD2	24	0.90	97*94*33mm
334	SG9733MD4	48	0.18	97*94*33mm
335	SG9733HD4	48	0.28	97*94*33mm
336	SG9733XD4	48	0.45	97*94*33mm
337	SG12032MD1	12	0.48	120*120*32mm
338	SG12032HD1	12	1.20	120*120*32mm
339	SG12032MD2	24	0.24	120*120*32mm
340	SG12032HD2	24	0.50	120*120*32mm
341	SG133HD2	24	5.40	φ133*190mm
342	SG133HD4	48	2.70	φ133*190mm
343	SG146HD2	24	6.80	φ146*190mm
344	SG146HD4	48	4.60	φ146*190mm
345	SL10025MD1	12	0.22	φ100*25mm
346	SL10025HD1	12	0.35	φ100*25mm



No.	Model No.	Rated Voltage (V ====)	Rated Current (A)	Size (mm)
347	SL10025XD1	12	0.60	φ100*25mm
348	SL10025MD2	24	0.11	φ100*25mm
349	SL10025HD2	24	0.18	φ100*25mm
350	SL10025XD2	24	0.30	φ100*25mm
351	SL10030HD1	12	0.14	φ100*30mm
352	SL10030HD2	24	0.28	φ100*30mm
353	SL12025LD1	12	0.53	φ120*25mm
354	SL12025LD2	24	0.27	φ120*25mm
355	SL12538LD1	12	0.15	φ125*38mm
356	SL12538LD2	24	0.30	φ125*38mm
357	SZ13050MD1	12	0.33	130*130*50mm
358	SZ13050HD1	12	0.55	130*130*50mm
359	SZ13050XD1	12	0.94	130*130*50mm
360	SZ13050MD2	24	0.16	130*130*50mm
361	SZ13050HD2	24	0.26	130*130*50mm
362	SZ13050XD2	24	0.45	130*130*50mm
363	SZ13050MD4	48	0.07	130*130*50mm
364	SZ13050HD4	48	0.12	130*130*50mm
365	SZ13050XD4	48	0.21	130*130*50mm
366	SL133MD1	12	1.90	φ133*84mm
367	SL133HD1	12	3.50	φ133*84mm
368	SL133XD1	12	5.20	φ133*84mm
369	SL133MD2	24	0.85	φ133*84mm
370	SL133HD2	24	1.70	φ133*84mm
371	SL133XD2	24	2.40	φ133*84mm
372	SL133MD4	48	0.42	φ133*84mm
373	SL133HD4	48	0.85	φ133*84mm
374	SL133XD4	48	1.20	φ133*84mm
375	SL175MD1	12	7.50	φ175*69mm
376	SL175HD1	12	9.50	φ175*69mm
377	SL175MD2	24	2.20	φ175*69mm
378	SL175HD2	24	3.50	φ175*69mm
379	SL175XD2	24	4.50	φ175*69mm
380	SL175MD4	48	1.10	φ175*69mm
381	SL175HD4	48	1.80	φ175*69mm



No.	Model No.	Rated Voltage (V ====)	Rated Current (A)	Size (mm)
382	SL175XD4	48	2.50	φ175*69mm
383	SL190MD1	12	3.20	φ190*89mm
384	SL190HD1	12	5.12	φ190*89mm
385	SL190MD2	24	1.60	φ190*89mm
386	SL190HD2	24	2.56	φ190*89mm
387	SL190XD2	24	4.20	φ190*89mm
388	SL190MD4	48	1.28	φ190*89mm
389	SL190HD4	48	2.10	φ190*89mm
390	SL220MD2	24	2.40	φ220*99mm
391	SL220HD2	24	3.60	φ220*99mm
392	SL220XD2	24	4.60	φ220*99mm
393	SL220MD4	48	1.20	φ220*99mm
394	SL220HD4	48	1.80	φ220*99mm
395	SL220XD4	48	2.80	φ220*99mm
396	SL225HD2	24	7.60	φ225*99mm
397	SL225HD4	48	3.80	φ225*99mm
398	SL250HD2	24	3.50	φ250*100mm
399	SL250HD4	48	6.50	φ250*100mm
400	SL280HD2	24	3.80	φ280*135mm
401	SL280HD4	48	6.50	φ280*135mm
402	SL310HD2	24	3.50	φ310*158mm
403	SL310HD4	48	6.50	φ310*158mm
404	SL355HD4	48	4.50	φ355*158mm
405	SL400HD4	48	6.50	φ400*160mm

Remark:

S: The company referred to as

- Z: Axial flow
- L: From the core
- G: blast
- X: Excessive speed
- H: High speed
- M: Low speed
- D: DC Voltage



	IEC 60335-1	1	
Clause	Requirement + Test	Result - Remark	Verdic
5	GENERAL CONDITIONS FOR THE TESTS		_
	Tests performed according to clause 5, e.g. nature of supply, sequence of testing, etc.		Р
6	CLASSIFICATION		—
6.1	Protection against electric shock: Class 0, 0I, I, II, III	Incorporated components	N/A
6.2	Protection against harmful ingress of water		N/A
7	MARKING AND INSTRUCTIONS		—
7.1	Rated voltage or voltage range (V)	Seepage4-15	P
	Symbol for nature of supply, or	DC	Р
	Rated frequency (Hz)		N/A
	Rated power input (W), or		N/A
	Rated current (A)	Seepage4-15	Р
	Manufacturer's or responsible vendor's name, trademark or identification mark	Seepage 4-15	Р
	Model or type reference	Seepage4-15	Р
	Symbol IEC 60417-5172, for class II appliances		N/A
	IP number, other than IPX0		N/A
	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		N/A
	Different rated values marked with the values separated by an oblique stroke		N/A
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

RM.7, 9/F.,Block A, International Business Incubator, Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750 www.stafit.com.cn Technical Report No. T-TST-2311337A Rev.01 Project Engineer: Victor Wu EN 60335-1 2023-12-20 page 16 of 118



	IEC 60335-1				
Clause	Requirement + Test	Result - Remark	Verdic		
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		Р		
	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		N/A		
	Units of physical quantities and their symbols according to international standardized system		Р		
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		
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		N/A		
7.10	Indications of switches on stationary appliances and controls on all appliances by use of figures, letters or other visual means		N/A		
	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		N/A		
	The figure 0 indicates only OFF position, unless no confusion with the OFF position		N/A		
7.11	Indication for direction of adjustment of controls		N/A		
7.12	Instructions for safe use provided	Incorporated components	N/A		
	Details concerning precautions during user maintenance		N/A		

RM.7, 9/F.,Block A, International Business Incubator,

Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750

www.stafit.com.cn

Technical Report No. T-TST-2311337A Rev.01



	IEC 60335-1	1	Γ
Clause	Requirement + Test	Result - Remark	Verdict
	The instructions state that:		N/A
	- 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		N/A
	- children being supervised not to play with the appliance		N/A
	For a part of class III construction supplied from a detachable power supply unit, the instructions state that the appliance is only to be used with the unit provided		N/A
	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
7.12.1	Sufficient details for installation supplied		N/A
	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:		N/A
	- 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

RM.7, 9/F.,Block A, International Business Incubator, Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750 www.stafit.com.cn Technical Report No. T-TST-2311337A Rev.01 Project Engineer: Victor Wu EN 60335-1 2023-12-20 page 18 of 118



	IEC 60335-1				
Clause	Requirement + Test	Result - Remark	Verdict		
7.12.5	Replacement cord instructions, type X attachment with a specially prepared cord		N/A		
	Replacement cord instructions, type Y attachment		N/A		
	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 m	ains:	N/A		
	- 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		Р		
7.14	Marking clearly legible and durable, rubbing test as specified		Р		
7.15	Markings on a main part		Р		
	Marking clearly discernible from the outside, if necessary after removal of a cover		Р		
	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		N/A		
7.16	Marking of a possible replaceable thermal link or fuse link clearly visible with regard to replacing the link		N/A		
8	PROTECTION AGAINST ACCESS TO LIVE PARTS		—		
8.1	Adequate protection against accidental contact with live parts	Incorporated components	N/A		

STAFIT Electronic Technology Co., Ltd. RM.7, 9/F.,Block A, International Business Incubator,

Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750 www.stafit.com.cn



	IEC 60335-1				
Clause	Requirement + Test Result - Re	mark Verdict			
8.1.1	Requirement applies for all positions, detachable parts removed	N/A			
	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	N/A			
	Use of test probe B of IEC 61032 through openings, with a force of 20N: no contact with live parts	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	N/A			
	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:	N/A			
	- 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	N/A			
	- or separated from live parts by protective impedance	N/A			
	If protective impedance: d.c. current not exceeding 2 mA, and	N/A			
	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	n or assembly: N/A			
	- built-in appliances	N/A			
	- fixed appliances	N/A			



	IEC 60335-1				
Clause	Requirement + Test	Result - Remark	Verdict		
	- 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	Incorporated components	N/A		
	Only possible to touch parts separated from live parts by double or reinforced insulation		N/A		
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)	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		N/A		
10.2	Current at normal operating temperature, rated voltage and normal operation not deviating from rated current by more than shown in table 2	(see appended table)	Р		
	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		
11	HEATING	·	—		
11.1	No excessive temperatures in normal use		Р		
11.2	The appliance is held, placed or fixed in position as described	Inpositionofnormaluse	Р		
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)		N/A		

Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750



	IEC 60335-1				
Clause	Requirement + Test	Result - Remark	Verdic		
11.5	Motor-operated appliances operated under normal operation at most unfavourable voltage between 0.94 and 1.06 times rated voltage (V)	1.06 xUn	Р		
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		Ρ		
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		
	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	Incorporated components	N/A		
	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)		N/A		
	Protective impedance and radio interference filters disconnected before carrying out the tests		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	Incorporated components	N/A		
	For other appliances, a low impedance ammeter may be used		N/A		
	Leakage current measurements:	(see appended table)	N/A		
13.3	The appliance is disconnected from the supply	Incorporated components	N/A		
	Electric strength tests according to table 4	(see appended table)	N/A		
	No breakdown during the tests		N/A		
14	TRANSIENT OVERVOLTAGES	1			

RM.7, 9/F.,Block A, International Business Incubator, Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750 www.stafit.com.cn Technical Report No. T-TST-2311337A Rev.01 Project Engineer: Victor Wu EN 60335-1 2023-12-20 page 22 of 118



	IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict	
	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	(see appended table)	N/A	
	No flashover during the test, unless		N/A	
	of functional insulation if the appliance complies with clause 19 with the clearance short-circuited		P	
15	MOISTURE RESISTANCE	1	—	
15.1	Enclosure provides the degree of moisture protection according to classification of the appliance		N/A	
	Compliance checked as specified in 15.1.1, taking into account 15.1.2, followed by the electric strength test of 16.3		N/A	
	No trace of water on insulation which can result in a reduction of clearances or creepage distances below values specified in clause 29		N/A	
15.1.1	Appliances, other than IPX0, subjected to tests as specified in IEC 60529:		N/A	
	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		N/A	
	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		N/A	
	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		N/A	
	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	

STAFIT Electronic Technology Co., Ltd.

Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750



	IEC 60335-1				
Clause	Requirement + Test	Result - Remark	Verdict		
	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		
	for IPX4 appliances, the movement of the tube is limited to two times 90° from the vertical for a period of 5 min		N/A		
	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		N/A		
	However, if a part has to be removed for user maintenance and a tool is needed, this part is not removed		N/A		
15.2	Spillage of liquid does not affect the electrical insulation		N/A		
	Appliances with type X attachment fitted with a flexible cord as described		N/A		
	Appliances incorporating an appliance inlet tested with or without an connector, whichever is most unfavourable		N/A		
	Detachable parts are removed		N/A		
	Overfilling test with additional amount of water, over a period of 1 min (I)		N/A		
	The appliance withstands the electric strength test of 16.3		N/A		
	No trace of water on insulation that can result in a reduction of clearances or creepage distances below values specified in clause 29		N/A		
15.3	Appliances proof against humid conditions	Incorporated components	N/A		
	Checked by test Cab: Damp heat steady state in IEC 60068-2-78		N/A		
	Detachable parts removed and subjected, if necessary, to the humidity test with the main part		N/A		
	Humidity test for 48 h in a humidity cabinet		N/A		
	Reassembly of those parts that may have been removed		N/A		
	The appliance withstands the tests of clause 16		N/A		
16	LEAKAGE CURRENT AND ELECTRIC STRENGTH	1			

RM.7, 9/F.,Block A, International Business Incubator, Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750 www.stafit.com.cn Technical Report No. T-TST-2311337A Rev.01 Project Engineer: Victor Wu EN 60335-1 2023-12-20 page 24 of 118



IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict
16.1	Leakage current not excessive and electric strength adequate	Incorporated components	N/A
	Protective impedance disconnected from live parts before carrying out the tests		N/A
	Tests carried out at room temperature and not connected to the supply		N/A
16.2	Single-phase appliances: test voltage 1.06 times rated voltage (V):	Incorporated components	N/A
	Three-phase appliances: test voltage 1.06 times rated voltage divided by $\sqrt{3}$ (V)		N/A
	Leakage current measurements	(see appended table)	N/A
	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:	(see appended table)	N/A
16.3	Electric strength tests according to table 7	Incorporated components	N/A
	Test voltage applied between the supply cord and inlet bushing and cord guard and cord anchorage as specified	(see appended table)	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:	(see appended table)	N/A
	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



	IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict	
	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)	Ρ	
	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		Ρ	
	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		Р	
	If a heating element or intentionally weak part becomes open-circuited, the relevant test is repeated on a second sample		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	

STAFIT Electronic Technology Co., Ltd.

RM.7, 9/F.,Block A, International Business Incubator, Lanyue Road, Guangzhou Science Park, Guangdong, China

Tel: (+86-20)32051135; Fax: (+86-20) 32052750

www.stafit.com.cn

Technical Report No. T-TST-2311337A Rev.01 Project Engineer: Victor Wu EN 60335-1 2023-12-20 page 26 of 118



	IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict	
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	
	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		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	
	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:	(see appended table)	Р	
19.8	Multi-phase motors operated at rated voltage with one phase disconnected		N/A	
19.9	Running overload test on appliances incorporating motors intended to be remotely or automatically controlled or liable to be operated continuously		N/A	

Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750



	IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict	
	Motor-operated and combined appliances for which 30.2.3 is applicable and that use overload protective devices relying on electronic circuits to protect the motor windings, are also subjected to the test		N/A	
	Winding temperatures not exceeding values as specified:	(see appended table)	N/A	
19.10	Series motor operated at 1.3 times rated voltage for 1 min (V):		N/A	
	During the test, parts not being ejected from the appliance		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		N/A	
	they comply with the conditions specified in 19.11.1		Р	
	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		Р	
	- the appliance complies with the conditions specified in 19.13		Р	
	- 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-circu considered to have withstood the particular test, prov conditions are met:		N/A	
	- 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	



	IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict	
19.11.1	Fault conditions a) to g) in 19.11.2 are not applied to meeting both of the following conditions:	o circuits or parts of circuits	N/A	
	- 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		Р	
	- 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	
19.11.2	Fault conditions applied one at a time, the appliance specified in clause 11, but supplied at rated voltage, specified:		N/A	
	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		N/A	
	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		N/A	
	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		N/A	
	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		N/A	
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		Ρ	
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	

Lanyue Road, Guangzhou Science Park, Guangdong, China

Tel: (+86-20)32051135; Fax: (+86-20) 32052750



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

RM.7, 9/F.,Block A, International Business Incubator, Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750



IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict
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		Р
	Temperature rises not exceeding the values shown in table 9	(see appended table)	Ρ
	Compliance with clause 8 not impaired		N/A
	If the appliance can still be operated it complies with 20.2		N/A
	Insulation, other than of class III appliances or class contain live parts, withstands the electric strength tes specified in table 4:		N/A
	- basic insulation (V)		N/A
	- supplementary insulation (V):		N/A
	- reinforced insulation (V)		N/A
	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		N/A
	The appliance does not undergo a dangerous malfunction, and		N/A
	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	N/A
	- 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 contro one of the interlocks may be released provided that:	lled by one or more interlocks,	N/A
	- 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

Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750



	IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict	
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	
20	STABILITY AND MECHANICAL HAZARDS		_	
20.1	Appliances having adequate stability	Incorporated component	N/A	
	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		N/A	
	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	Incorporated component	N/A	
	Protective enclosures, guards and similar parts are non-detachable, and		N/A	
	have adequate mechanical strength		N/A	
	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		N/A	
21	MECHANICAL STRENGTH		—	
21.1	Appliance has adequate mechanical strength and is constructed as to withstand rough handling	Incorporated component	N/A	

Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750



IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdic
	Checked by applying 3 blows to every point of the enclosure like to be weak, in accordance with test Ehb of IEC 60068-2-75, spring hammer test, with an impact energy of 0,5 J	(see appended table)	N/A
	The appliance shows no damage impairing compliance with this standard, and		N/A
	compliance with 8.1, 15.1 and clause 29 not impaired		N/A
	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		N/A
	Test not applicable if the thickness of supplementary insulation is at least 1 mm and reinforced insulation at least 2 mm		N/A
	The insulation is tested as specified, and does withstand the 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
22.2	Stationary appliance: means to ensure all-pole disconnection from the supply being provided:		N/A
	- 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		N/A
	Applied torque not exceeding 0.25 Nm		N/A
	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		N/A

RM.7, 9/F.,Block A, International Business Incubator,

Lanyue Road, Guangzhou Science Park, Guangdong, China

Tel: (+86-20)32051135; Fax: (+86-20) 32052750



	IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict	
	Each pin subjected to a torque of 0.4Nm; the pins are not rotating, unless		N/A	
	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 $0,1\mu$ F, the appliance being disconnected from the supply at the instant of voltage peak		N/A	
	Voltage not exceeding 34 V (V)		N/A	
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	
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	

STAFIT Electronic Technology Co., Ltd.

RM.7, 9/F.,Block A, International Business Incubator, Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750 www.stafit.com.cn Technical Report No. T-TST-2311337A Rev.01 Project Engineer: Victor Wu EN 60335-1 2023-12-20 page 34 of 118



	IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict	
22.11	Reliable fixing of non-detachable parts that provide the necessary degree of protection against electric shock, moisture or contact with moving parts	Incorporated component	N/A	
	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		N/A	
22.12	Handles, knobs etc. fixed in a reliable manner		N/A	
	Fixing in wrong position of handles, knobs etc. indicating position of switches or similar components not possible		N/A	
	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		N/A	
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		N/A	
22.14	No ragged or sharp edges creating a hazard for the user in normal use, or during user maintenance		Р	
	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		N/A	
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		Р	
22.19	Driving belts not relied upon to provide the required level of insulation, unless		N/A	
	constructed to prevent inappropriate replacement		N/A	

RM.7, 9/F.,Block A, International Business Incubator, Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750 www.stafit.com.cn



	IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict	
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		N/A	
	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		Р	
22.23	Oils containing polychlorinated biphenyl (PCB) not used		Р	
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	
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		N/A	
22.27	Parts connected by protective impedance separated by double or reinforced insulation		N/A	
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		N/A	
	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	

Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750



	IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict	
22.31	Neither clearances nor creepage distances over supplementary and reinforced insulation reduced below values specified in clause 29 as a result of wear		N/A	
	Neither clearances nor creepage distances between live parts and accessible parts reduced below values for supplementary insulation if wires, screws etc. become loose		N/A	
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		N/A	
	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	
	Oxygen bomb test at 70 °C for 96 h and 16 h at room temperature		N/A	
22.33	Conductive liquids that are or may become accessible in normal use and conductive liquids that are in contact with unearthed accessible metal parts are not in direct contact with live parts		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	



	IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict	
	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		N/A	
22.36	For appliances other than class III, handles continuously held in the hand in normal use so constructed that when gripped as in normal use, the operators hand is not likely to touch metal parts, unless		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	Incorporated component	N/A	

RM.7, 9/F.,Block A, International Business Incubator,

Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750



	IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict	
	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		Р	
22.42	Protective impedance consisting of at least two separate components		N/A	
	Values specified in 8.1.4 not exceeded if any one of the components are short-circuited or open-circuited		N/A	
	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		N/A	
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		Р	
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		N/A	
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	

STAFIT Electronic Technology Co., Ltd.

RM.7, 9/F.,Block A, International Business Incubator, Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750



	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdict
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 without giving rise to a hazard:	at can operate as follows,	N/A
	- 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
23	INTERNAL WIRING		—
23.1	Wireways smooth and free from sharp edges		Р
	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		Ρ
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

RM.7, 9/F.,Block A, International Business Incubator, Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750 www.stafit.com.cn Technical Report No. T-TST-2311337A Rev.01 Project Engineer: Victor Wu EN 60335-1 2023-12-20 page 40 of 118



	IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdic	
	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		Ρ	
	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		Р	
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		Р	
23.9	Stranded conductors not consolidated by soldering where they are subjected to contact pressure, unless		N/A	
	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		Р	
	List of components	(see appended table)	Р	
	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		N/A	

 ${\sf STAFIT} \ {\sf Electronic} \ {\sf Technology} \ {\sf Co.}, \ {\sf Ltd}.$

RM.7, 9/F.,Block A, International Business Incubator,

Lanyue Road, Guangzhou Science Park, Guangdong, China

Tel: (+86-20)32051135; Fax: (+86-20) 32052750

www.stafit.com.cn

Technical Report No. T-TST-2311337A Rev.01 Project Engineer: Victor Wu EN 60335-1 2023-12-20 page 41 of 118



	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdict
	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		N/A
	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		N/A
	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
	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		N/A
	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		N/A
	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 staring relay complying with IEC 60730-2-10 with the number of cycles of a least 10 000 as specified, the complete switching system need not be tested		N/A
24.1.4	Automatic controls complying with IEC 60730-1 with number of cycles of operation being at least:	the relevant part 2. The	N/A
	- thermostats: 10 000		N/A
	- temperature limiters: 1 000		N/A
	- self-resetting thermal cut-outs: 300		N/A



	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdict
	- voltage maintained non-self-resetting 1 000 thermal cut-outs:		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
	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		Р

RM.7, 9/F.,Block A, International Business Incubator, Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750

www.stafit.com.cn

Technical Report No. T-TST-2311337A Rev.01 Project Engineer: Victor Wu EN 60335-1 2023-12-20 page 43 of 118



	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdic
	- devices causing the protective device in the fixed wiring to operate in the event of a fault in the appliance		Р
	- thermal cut-outs that can be reset by soldering, unless		Р
	the solder has a melding point of at least 230 °C		N/A
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	Incorporated component	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 me	et:	N/A
	- 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

RM.7, 9/F.,Block A, International Business Incubator,

Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750

www.stafit.com.cn

Technical Report No. T-TST-2311337A Rev.01



	IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict	
	- 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	
	- 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 FLEXIBL	E CORDS	—	
25.1	Appliance not intended for permanent connection to connection to the supply:	fixed wiring, means for	N/A	
	- supply cord fitted with a plug,	Incorporated component	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		N/A	
25.2	Appliance not provided with more than one means of connection to the supply mains	Incorporated component	N/A	
	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:		N/A	
	- 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	



IEC 60335-1			
Clause	Requirement + Test Result - Remark	Verdict	
	For a fixed appliance constructed so that parts can be removed to facilitate easy installation, this requirement is met if it is possible to connect the fixed wiring without difficulty after a part of the appliance has been fixed to its support	N/A	
25.4	Cable and conduit entries, rated current of appliance not exceeding 16 A, dimension according to table 10 (mm)	N/A	
	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:	N/A	
	- 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:	N/A	
	- 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	N/A	
	 light polyvinyl chloride sheathed cord (60227 IEC 52), for appliances not exceeding 3 kg 	N/A	
	 ordinary polyvinyl chloride sheathed cord (60227 IEC 53), for other appliances 	N/A	
	- heat resistant polyvinyl chloride sheathed. Not used for type X attachment other than specially prepared cords	N/A	
	 heat-resistant light polyvinyl chloride sheathed cord (60227 IEC 56), for appliances not exceeding 3 kg 	N/A	
	 heat-resistant polyvinyl chloride sheathed cord (60227 IEC 57), for other appliances 	N/A	

RM.7, 9/F.,Block A, International Business Incubator,

Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750 www.stafit.com.cn Technical Report No. T-TST-2311337A Rev.01 Project Engineer: Victor Wu EN 60335-1 2023-12-20 page 46 of 118



	IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict	
	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	
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	
	Flexing test, as described:	I	N/A	
	- applied force (N)		N/A	
	- number of flexings		N/A	
	The test does not result in:	I	N/A	
	- 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	



IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdic
	- 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	d and located so that:	N/A
	- replacement of the cord is easily possible		N/A
	- it is clear how the relief from strain and the prevention of twisting are obtained		N/A
	- they are suitable for 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
	- 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



	IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict	
	- 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:		N/A	
	- 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	
	2 N test to the conductor for portable appliances; no contact with accessible metal parts		N/A	
25.22	Appliance inlets:		N/A	
	- 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	

STAFIT Electronic Technology Co., Ltd.



	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdic
	- 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
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.		N/A
	Dimensions of pins and engagement face in accordance with the dimensions of the relevant plug in IEC/TR 60083		N/A
26	TERMINALS FOR EXTERNAL CONDUCTORS		—
26.1	Appliances provided with terminals or equally effective devices for connection of external conductors	Incorporated component	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
	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

RM.7, 9/F.,Block A, International Business Incubator,

Lanyue Road, Guangzhou Science Park, Guangdong, China

Tel: (+86-20)32051135; Fax: (+86-20) 32052750



	IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdic	
	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:	N/A	
	- 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	
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	

RM.7, 9/F.,Block A, International Business Incubator,

Lanyue Road, Guangzhou Science Park, Guangdong, China

Tel: (+86-20)32051135; Fax: (+86-20) 32052750

www.stafit.com.cn

Technical Report No. T-TST-2311337A Rev.01 Project Engineer: Victor Wu



IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdic
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
	Earthing terminals and earthing contacts not connected to the neutral terminal		N/A
	Class 0, II and III appliances have no provision for earthing		N/A
	Safety extra-low voltage circuits not earthed, unless		N/A
	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

RM.7, 9/F.,Block A, International Business Incubator,

Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750 www.stafit.com.cn Technical Report No. T-TST-2311337A Rev.01 Project Engineer: Victor Wu EN 60335-1 2023-12-20

page 52 of 118



	IEC 60335-1	-	
Clause	Requirement + Test	Result - Remark	Verdict
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
	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		N/A
	Screws not of soft metal liable to creep, such as zinc or aluminium		N/A

Tel: (+86-20)32051135; Fax: (+86-20) 32052750



	IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict	
	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	(see appended table)	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:		N/A	
	30.2.2 is applicable and that carry a current not exceeding 0,5 A		N/A	
	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 sc connections providing earthing continuity provided it connection:		N/A	



	IEC 60335-1				
Clause	Requirement + Test	Result - Remark	Verdict		
	- 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	Incorporated component	N/A		
	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		
	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)	N/A		
	for basic insulation and functional insulation they comply with the impulse voltage test of clause 14		N/A		

RM.7, 9/F.,Block A, International Business Incubator,

Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750

. ... (100 20)2001100, 1 ax. (100-20



	IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict	
	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:		N/A	
	- when the microenvironment is pollution degree 3, or		N/A	
	- for basic insulation of class 0 and class 01 appliances		N/A	
	Appliances are in overvoltage category II	The DC fans are component, when used in the end product, all requirements of the end product standard must be fulfilled.	Ρ	
	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		N/A	
29.1.1	Clearances of basic insulation withstand the overvoltages, taking into account the rated impulse voltage		N/A	
	The values of table 16 or the impulse voltage test of clause 14 are applicable:	(see appended table)	N/A	
	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		N/A	
29.1.2	Clearances of supplementary insulation not less than those specified for basic insulation in table 16:	(see appended table)	N/A	
29.1.3	Clearances of reinforced insulation not less than those specified for basic insulation in table 16, using the next higher step for rated impulse voltage	(see appended table)	N/A	
	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 va	alues determined from:	N/A	
	- table 16 based on the rated impulse voltage:	(see appended table)	N/A	
	- table F.7a in IEC 60664-1, frequency not exceeding 30 kHz		N/A	

RM.7, 9/F.,Block A, International Business Incubator, Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750 www.stafit.com.cn



	IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict	
	- 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		N/A	
	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		Ρ	
	Lacquered conductors of windings considered to be bare conductors		N/A	
	However, clearances at crossover points are not measured		N/A	
	Clearance between surfaces of PTC heating elements may be reduced to 1mm		N/A	
29.1.5	Appliances having higher working voltages than rate insulation are the largest values determined from:	d voltage, clearances for basic	N/A	
	- 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	
	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	



	IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict	
	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)	N/A	
	Pollution degree 2 applies, unless		N/A	
	 precautions taken to protect the insulation; pollution degree 1 		N/A	
	- insulation subjected to conductive pollution; pollution degree 3	The DC fans are component, when used in the end product, all requirements of the end product standard must be fulfilled.	Ρ	
	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		N/A	
	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)	N/A	
	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	(see appended table)	N/A	
	Table 2 of IEC 60664-4, as applicable		N/A	
29.2.3	Creepage distances of reinforced insulation at least double those specified for basic insulation in table 17, or	(see appended table)	N/A	
	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)	N/A	

RM.7, 9/F.,Block A, International Business Incubator, Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750

www.stafit.com.cn

Technical Report No. T-TST-2311337A Rev.01 Project Engineer: Victor Wu EN 60335-1 2023-12-20 page 58 of 118



	IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict	
	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		P	
29.3	Supplementary and reinforced insulation have adequate thickness, or a sufficient number of layers, to withstand the electrical stresses		N/A	
	Compliance checked:	1	N/A	
	- 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		N/A	
	Reinforced insulation have a thickness of at least 2 mm		N/A	
29.3.2	Each layer of material withstand the electric strength test of 16.3 for supplementary insulation		N/A	
	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	
	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			

RM.7, 9/F.,Block A, International Business Incubator,

Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750

www.stafit.com.cn

Technical Report No. T-TST-2311337A Rev.01 Project Engineer: Victor Wu EN 60335-1 2023-12-20 page 59 of 118



	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdic
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		N/A
	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)	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)	(see appended table)	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)	(see appended table)	N/A
30.2	Parts of non-metallic material resistant to ignition and spread of fire		Р
	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		N/A
	Compliance checked by the test of 30.2.1, and in addition:		Ρ
	- for attended appliances, 30.2.2 applies		N/A
	- for unattended appliances, 30.2.3 applies		Р
	For appliances for remote operation, 30.2.3 applies		N/A
	For base material of printed circuit boards, 30.2.4 applies		Ρ
30.2.1	Parts of non-metallic material subjected to the glow-wire test of IEC 60695-2-11 at 550 °C		Р
	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

RM.7, 9/F.,Block A, International Business Incubator,

Lanyue Road, Guangzhou Science Park, Guangdong, China

Tel: (+86-20)32051135; Fax: (+86-20) 32052750

www.stafit.com.cn

Technical Report No. T-TST-2311337A Rev.01



IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict
	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:	1	N/A
	- 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 mate wire flammability index according to IEC 60695-2-12		N/A
	- 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 pa	arts. These parts are to:	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
	Glow-wire test not applicable to conditions as specified:		N/A
30.2.3	Appliances operated while unattended, tested as specified in 30.2.3.1 and 30.2.3.2		N/A
	The tests are not applicable to conditions as specified	Soldered connections on printed circuit boards and parts within a distance of 3 mm of these connections	Ρ
30.2.3.1	Parts of non-metallic material supporting connections carrying a current exceeding 0,2 A during normal operation, and		N/A
	parts of non-metallic material, other than small parts, within a distance of 3 mm,		N/A

STAFIT Electronic Technology Co., Ltd.

RM.7, 9/F.,Block A, International Business Incubator,

Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750 www.stafit.com.cn



	IEC 60335-1			
Clause	Requirement + Test Result - Remark	Verdict		
	subjected to the glow-wire test of IEC 60695-2-11 with a test severity of 850 °C	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 850 °C	N/A		
30.2.3.2	Parts of non-metallic material supporting connections, and	N/A		
	parts of non-metallic material within a distance of 3mm,	N/A		
	subjected to glow-wire test of IEC 60695-2-11	N/A		
	The test severity is:	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		
	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:	N/A		
	- a glow-wire ignition temperature according to IEC 60695-2-13 of at least:	N/A		
	 775 °C, for connections carrying a current exceeding 0,2 A during normal operation 	N/A		
	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:	N/A		
	- 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		



IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict
	- 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 app encroach within the vertical cylinder placed above th and on top of the non-metallic parts supporting curre parts of non-metallic material within a distance of 3 r parts are those:	he centre of the connection zone ent-carrying connections, and	
	- 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 no parts, including small parts, within the cylinder that a		N/A
	- parts having a glow-wire ignition temperature of at least 775 °C or 675 °C as appropriate, or		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		Р
	Test not applicable to conditions as specified:		N/A
31	RESISTANCE TO RUSTING		
	Relevant ferrous parts adequately protected against rusting		N/A
	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		Ρ

STAFIT Electronic Technology Co., Ltd.

RM.7, 9/F.,Block A, International Business Incubator, Lanyue Road, Guangzhou Science Park, Guangdong, China

Tel: (+86-20)32051135; Fax: (+86-20) 32052750



	IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict	
	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		Р	
В	ANNEX B (NORMATIVE) APPLIANCES POWERED BY RECHARGEABLE B/	ATTERIES	—	
	The following modifications to this standard are applicable for appliances powered by batteries that are recharged in the appliance		N/A	
	This annex does not apply to battery chargers		N/A	
3.1.9	Appliance operated under the following conditions:		N/A	
	- the appliance, supplied by its fully charged battery, operated as specified in relevant part 2		N/A	
	- the battery is charged, the battery being initially discharged to such an extent that the appliance cannot operate		N/A	
	-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		N/A	
5.B.101	Appliances supplied from the supply mains tested as specified for motor-operated appliances		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	
	The positive terminal indicated by symbol IEC 60417-5005 and the negative terminal by symbol IEC 60417-5006		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	

STAFIT Electronic Technology Co., Ltd.

RM.7, 9/F.,Block A, International Business Incubator, Lanyue Road, Guangzhou Science Park, Guangdong, China

Tel: (+86-20)32051135; Fax: (+86-20) 32052750

www.stafit.com.cn

Technical Report No. T-TST-2311337A Rev.01 Project Engineer: Victor Wu EN 60335-1 2023-12-20 page 64 of 118



IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict
	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		N/A
8.2	Appliances having batteries that according to the instruction may be replaced by the user need only have basic insulation between live parts and the inner surface of the battery compartment		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		N/A
19.1	Appliances subjected to tests of 19.B.101, 19.B.102 and 19.B.103		N/A
19.10	Not applicable		N/A
19.B.101	Appliances supplied at rated voltage for 168 h, the battery being continually charged		N/A
19.B.102	For appliances having batteries that can be removed without the aid of a tool, short-circuit of the terminals of the battery, the battery being fully charged,		N/A
19.B.103	Appliances having batteries replaceable by the user supplied at rated voltage under normal operation with the battery removed or in any position allowed by the construction		N/A
21.B.101	Appliances having pins for insertion into socket- outlets have adequate mechanical strength		N/A
	Part of the appliance incorporating the pins subjected 2, of IEC 60068-2-31, the number of falls being:	d to the free fall test, procedure	N/A
	- 100, if the mass of the part does not exceed 250 g (g)		N/A
	- 50, if the mass of the part exceeds 250 g		N/A
	After the test, the requirements of 8.1, 15.1.1, 16.3 and clause 29 are met		N/A
22.3	Appliances having pins for insertion into socket- outlets tested as fully assembled as possible		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		N/A
30.2	For parts of the appliance connected to the supply mains during the charging period, 30.2.3 applies		N/A
	For other parts, 30.2.2 applies		N/A

RM.7, 9/F.,Block A, International Business Incubator,

Lanyue Road, Guangzhou Science Park, Guangdong, China

Tel: (+86-20)32051135; Fax: (+86-20) 32052750

www.stafit.com.cn

Technical Report No. T-TST-2311337A Rev.01 Project Engineer: Victor Wu EN 60335-1 2023-12-20 page 65 of 118



	IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict	
С	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	
D	ANNEX D (NORMATIVE) THERMAL MOTOR PROTECTORS		_	
	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		—	
	Needle-flame test carried out in accordance with IEC modifications:	60695-11-5, with the following	Р	
7	Severities		—	
	The duration of application of the test flame is $30 \text{ s} \pm 1 \text{ s}$		Р	
9	Test procedure		—	
9.1	The specimen so arranged that the flame can be applied to a vertical or horizontal edge as shown in the examples of Figure 1		Ρ	
9.2	The first paragraph does not apply		Р	
	If possible, the flame is applied at least 10 mm from a corner		Р	
9.3	The test is carried out on one specimen		Р	
	If the specimen does not withstand the test, the test may be repeated on two additional specimens, both withstanding the test		N/A	
11	Evaluation of test results		—	
	The duration of burning not exceeding 30 s		N/A	
	However, for printed circuit boards, the duration of burning not exceeding 15 s		Р	
F	ANNEX F (NORMATIVE) CAPACITORS		-	
	Capacitors likely to be permanently subjected to the s radio interference suppression or voltage dividing, co of IEC 60384-14, with the following modifications:		N/A	
1.5	Terms and definitions		N/A	

RM.7, 9/F.,Block A, International Business Incubator, Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750 www.stafit.com.cn



IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict
1.5.3	Class X capacitors tested according to subclass X2		N/A
1.5.4	This subclause is applicable		N/A
1.6	Marking		N/A
	Items a) and b) are applicable		N/A
3.4	Approval testing		N/A
3.4.3.2	Table 3 is applicable as described		N/A
4.1	Visual examination and check of dimensions		N/A
	This subclause is applicable		N/A
4.2	Electrical tests		N/A
4.2.1	This subclause is applicable		N/A
4.2.5	This subclause is applicable		N/A
4.2.5.2	Only table 11 is applicable		N/A
	Values for test A apply		N/A
	However, for capacitors in heating appliances the values for test B or C apply		N/A
4.12	Damp heat, steady state		N/A
	This subclause is applicable		N/A
	Only insulation resistance and voltage proof are checked		N/A
4.13	Impulse voltage		N/A
	This subclause is applicable		N/A
4.14	Endurance		N/A
	Subclauses 4.14.1, 4.14.3, 4.14.4 and 4.14.7 are applicable		N/A
4.14.7	Only insulation resistance and voltage proof are checked		N/A
	No visible damage		N/A
4.17	Passive flammability test		N/A
	This subclause is applicable		N/A
4.18	Active flammability test		N/A
	This subclause is applicable		N/A
G	ANNEX G (NORMATIVE) SAFETY ISOLATING TRANSFORMERS		—
	The following modifications to this standard are appli transformers:	icable for safety isolating	N/A
7	Marking and instructions		N/A

 $\label{eq:stars} {\sf STAFIT} \ {\sf Electronic} \ {\sf Technology} \ {\sf Co.}, \ {\sf Ltd}.$

RM.7, 9/F.,Block A, International Business Incubator, Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750

www.stafit.com.cn

Technical Report No. T-TST-2311337A Rev.01 Project Engineer: Victor Wu EN 60335-1 2023-12-20 page 67 of 118



	IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict	
7.1	Transformers for specific use marked with:		N/A	
	-name, trademark or identification mark of the manufacturer or responsible vendor		N/A	
	-model or type reference		N/A	
17	Overload protection of transformers and associated cir	rcuits	N/A	
	Fail-safe transformers comply with subclause 15.5 of IEC 61558-1		N/A	
22	Construction		N/A	
	Subclauses 19.1 and 19.1.2 of IEC 61558-2-6 are applicable		N/A	
29	Clearances, creepage distances and solid insulation		N/A	
29.1, 29.2, 29.3	The distances specified in items 2a, 2c and 3 in table 13 of IEC 61558-1 apply		N/A	
	For insulated winding wires complying with subclause 19.12.3 of IEC 61558-1 there are no requirements for clearances or creepage distances		N/A	
	For windings providing reinforced insulation, the distance specified in item 2c of table 13 of IEC 61558-1 is not assessed		N/A	
	For safety isolating transformers subjected to periodic voltages with a frequency exceeding 30 kHz, the clearances, creepage distances and solid insulation values specified in IEC 60664-4 are applicable, if greater than the values specified in items 2a, 2c and 3 in table 13 of IEC 61558-1		N/A	
Н	ANNEX H (NORMATIVE) SWITCHES		—	
	Switches comply with the following clauses of IEC 610	58-1, as modified below:	N/A	
	The tests of IEC 61058-1 carried out under the conditions occurring in the appliance		N/A	
	Before being tested, switches are operated 20 times without load		N/A	
8	Marking and documentation		N/A	
	Switches are not required to be marked		N/A	
	However, a switch that can be tested separately from the appliance marked with the manufacturer's name or trade mark and the type reference		N/A	
13	Mechanism		N/A	
	The tests may be carried out on a separate sample		N/A	
15	Insulation resistance and dielectric strength		N/A	



	IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict	
15.1	Not applicable		N/A	
15.2	Not applicable		N/A	
15.3	Applicable for full disconnection and micro- disconnection		N/A	
17	Endurance		N/A	
	Compliance is checked on three separate appliances or switches		N/A	
	For 17.2.4.4, the number of cycles declared according to 7.1.4 is 10 000, unless		N/A	
	otherwise specified in 24.1.3 of the relevant part 2 of IEC 60335		N/A	
	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		N/A	
	The ambient temperature during the test is that occurring in the appliance during the test of Clause 11 in IEC 60335-1		N/A	
	The temperature rise of the terminals not more than 30 K above the temperature rise measured in clause 11 of IEC 60335-1 (K)		N/A	
20	Clearances, creepage distances, solid insulation and assemblies	d coatings of rigid printed board	N/A	
	This clause is applicable to clearances and creepage distances for functional insulation, across full disconnection and micro-disconnection, as stated in table 24		N/A	
I	ANNEX I (NORMATIVE) MOTORS HAVING BASIC INSULATION THAT IS IN RATED VOLTAGE OF THE APPLIANCE	NADEQUATE FOR THE	—	
	The following modifications to this standard are applicable for motors having basic insulation that is inadequate for the rated voltage of the appliance:		N/A	
8	Protection against access to live parts		N/A	
8.1	Metal parts of the motor are considered to be bare live parts		N/A	
11	Heating	•	N/A	

RM.7, 9/F.,Block A, International Business Incubator, Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750 www.stafit.com.cn Technical Report No. T-TST-2311337A Rev.01 Project Engineer: Victor Wu EN 60335-1 2023-12-20 page 69 of 118



	IEC 60335-1			
Clause	Requirement + Test Result - Remark	Verdict		
11.3	The temperature rise of the body of the motor is determined instead of the temperature rise of the windings	N/A		
11.8	The temperature rise of the body of the motor, where in contact with insulating material, not exceeding values in table 3 for the relevant insulating material	N/A		
16	Leakage current and electric strength	N/A		
16.3	Insulation between live parts of the motor and its other metal parts is not subjected to the test	N/A		
19	Abnormal operation	N/A		
19.1	The tests of 19.7 to 19.9 are not carried out	N/A		
19.I.101	Appliance operated at rated voltage with each of the following fault conditions:	N/A		
	- short circuit of the terminals of the motor, including any capacitor incorporated in the motor circuit	N/A		
	- short circuit of each diode of the rectifier	N/A		
	- open circuit of the supply to the motor	N/A		
	- open circuit of any parallel resistor, the motor being in operation	N/A		
	Only one fault simulated at a time, the tests carried out consecutively	N/A		
22	Construction	N/A		
22.I.101	For class I appliances incorporating a motor supplied by a rectifier circuit, the d.c. circuit being insulated from accessible parts of the appliance by double or reinforced insulation	N/A		
	Compliance checked by the tests specified for double and reinforced insulation	N/A		
J	ANNEX J (NORMATIVE) COATED PRINTED CIRCUIT BOARDS	—		
	Testing of protective coatings of printed circuit boards carried out in accordance with IEC 60664-3 with the following modifications:	N/A		
5.7	Conditioning of the test specimens	N/A		
	When production samples are used, three samples of the printed circuit board are tested	N/A		
5.7.1	Cold	N/A		
	The test is carried out at -25 °C	N/A		
5.7.3	Rapid change of temperature	N/A		
	Severity 1 is specified	N/A		

 $^{{\}sf STAFIT} \ {\sf Electronic} \ {\sf Technology} \ {\sf Co.}, \ {\sf Ltd}.$

RM.7, 9/F.,Block A, International Business Incubator, Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750 www.stafit.com.cn Technical Report No. T-TST-2311337A Rev.01 Project Engineer: Victor Wu EN 60335-1 2023-12-20 page 70 of 118



	IEC 60335-1	1	
Clause	Requirement + Test	Result - Remark	Verdic
5.9	Additional tests		N/A
	This subclause is not applicable		N/A
K	ANNEX K (NORMATIVE) OVERVOLTAGE CATEGORIES		—
	The information on overvoltage categories is extracted from IEC 60664-1		N/A
	Overvoltage category is a numeral defining a transient overvoltage condition		N/A
	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		N/A
	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 CLEAR DISTANCES	ANCES AND CREEPAGE	_
	Information for the determination of clearances and creepage distances		N/A
М	ANNEX M (NORMATIVE) POLLUTION DEGREE		—
	The information on pollution degrees is extracted from IEC 60664-1		N/A
	Pollution		N/A
	The microenvironment determines the effect of pollution on the insulation, taking into account the macroenvironment		N/A
	Means may be provided to reduce pollution at the insulation by effective enclosures or similar		N/A
	Minimum clearances specified where pollution may be present in the microenvironment		N/A
	Degrees of pollution in the microenvironment		N/A

RM.7, 9/F.,Block A, International Business Incubator, Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750 www.stafit.com.cn Technical Report No. T-TST-2311337A Rev.01 Project Engineer: Victor Wu EN 60335-1 2023-12-20 page 71 of 118



	IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict	
	For evaluating creepage distances, the following de microenvironment are established:	grees of pollution in the	N/A	
	- 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		N/A	
	- pollution degree 3: conductive pollution occurs or dry non-conductive pollution occurs that becomes conductive due to condensation that is to be expected		N/A	
	- 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		—	
	The proof tracking test is carried out in accordance following modifications:	with IEC 60112 with the	N/A	
7	Test apparatus		N/A	
7.3	Test solutions		N/A	
	Test solution A is used		N/A	
10	Determination of proof tracking index (PTI)		N/A	
10.1	Procedure		N/A	
	The proof voltage is 100V, 175V, 400V or 600V:		N/A	
	The test is carried out on five specimens		N/A	
	In case of doubt, additional test with proof voltage reduced by 25V, the number of drops increased to 100		N/A	
10.2	Report		N/A	
	The report states if the PTI value was based on a test using 100 drops with a test voltage of (PTI-25) V		N/A	
0	ANNEX O (INFORMATIVE) SELECTION AND SEQUENCE OF THE TESTS OF	CLAUSE 30	—	
	Description of tests for determination of resistance to heat and fire		N/A	
Ρ	ANNEX P (INFORMATIVE) GUIDANCE FOR THE APPLICATION OF THIS ST USED IN WARM DAMP EQUABLE CLIMATES	ANDARD TO APPLIANCES		

RM.7, 9/F.,Block A, International Business Incubator,

Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750 www.stafit.com.cn Technical Report No. T-TST-2311337A Rev.01 Project Engineer: Victor Wu EN 60335-1 2023-12-20 page 72 of 118



	IEC 60335-1				
Clause	Requirement + Test	Result - Remark	Verdict		
	Modifications applicable for class 0 and 01 appliances exceeding 150V, intended to be used in countries hav climate and that are marked WDaE		N/A		
	Modifications may also be applied to class 1 appliances having a rated voltage exceeding 150V, intended to be used in countries having a warm damp equable climate and that are marked WdaE, if liable to be connected to a supply mains that excludes the protective earthing conductor				
5.7	The ambient temperature for the tests of clauses 11 and 13 is 40 +3/0 $^\circ\mathrm{C}$		N/A		
7.1	The appliance marked with the letters WDaE		N/A		
7.12	The instructions state that the appliance is to be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30 mA		N/A		
	The instructions state that the appliance is considered to be suitable for use in countries having a warm damp equable climate, but may also be used in other countries		N/A		
11.8	The values of Table 3 are reduced by 15 K		N/A		
13.2	The leakage current for class I appliances not exceeding 0,5 mA		N/A		
15.3	The value of t is 37 °C		N/A		
16.2	The leakage current for class I appliances not exceeding 0,5 mA (mA):		N/A		
19.13	The leakage current test of 16.2 is applied in addition to the electric strength test of 16.3		N/A		
Q	ANNEX Q (INFORMATIVE) SEQUENCE OF TESTS FOR THE EVALUATION OF	ELECTRONIC CIRCUITS			
	Description of tests for appliances incorporating elect	ronic circuits	Р		
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		
R.1	Programmable electronic circuits using software		N/A		
	Programmable electronic circuits requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2 constructed so that the software does not impair compliance with the requirements of this standard		N/A		
R.2	Requirements for the architecture		N/A		

STAFIT Electronic Technology Co., Ltd.

RM.7, 9/F.,Block A, International Business Incubator,

Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750



	IEC 60335-1		
Clause	Requirement + Test Res	sult - Remark	Verdict
	Programmable electronic circuits requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2 use measures to control and avoid software-related faults/errors in safety-related data and safety- related segments of the software	Ν	J/A
R.2.1.1	Programmable electronic circuits requiring software incor control the fault/error conditions specified in table R.2 has structures:	1 5	J/A
	- single channel with periodic self-test and monitoring	Ν	J/A
	- dual channel (homogenous) with comparison	N	I/A
	- dual channel (diverse) with comparison	Ν	J/A
	Programmable electronic circuits requiring software incor control the fault/error conditions specified in table R.1 has structures:		J/A
	- single channel with functional test	Ν	I/A
	- single channel with periodic self-test	Ν	I/A
	- dual channel without comparison	Ν	I/A
R.2.2	Measures to control faults/errors	Ν	I/A
R.2.2.1	When redundant memory with comparison is provided on two areas of the same component, the data in one area is stored in a different format from that in the other area	Ν	I/A
R.2.2.2	Programmable electronic circuits with functions requiring software incorporating measures to control the fault/error conditions specified in table R.2 and that use dual channel structures with comparison, have additional fault/error detection means for any fault/errors not detected by the comparison	N	J/A
R.2.2.3	For programmable electronic circuits with functions requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2, means are provided for the recognition and control of errors in transmissions to external safety-related data paths	N	J/A
R.2.2.4	For programmable electronic circuits with functions requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2, the programmable electronic circuits incorporate measures to address the fault/errors in safety-related segments and data indicated in table R.1 and R.2 as appropriate	Ν	J/A

STAFIT Electronic Technology Co., Ltd.

RM.7, 9/F.,Block A, International Business Incubator,

Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750



	IEC 60335-1				
Clause	Requirement + Test	Result - Remark	Verdict		
R.2.2.5	For programmable electronic circuits with functions requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2, detection of a fault/error occur before compliance with clause 19 is impaired		N/A		
R.2.2.6	The software is referenced to relevant parts of the operating sequence and the associated hardware functions				
R.2.2.7	Labels used for memory locations are unique		N/A		
R.2.2.8	The software is protected from user alteration of safety-related segments and data		N/A		
R.2.2.9	Software and safety-related hardware under its control is initialized and terminates before compliance with clause 19 is impaired				
R.3	Measures to avoid errors		N/A		
R.3.1	General				
	For programmable electronic circuits with functions requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2, the following measures to avoid systematic fault in the software are applied				
	Software that incorporates measures used to control the fault/error conditions specified in table R.2 is inherently acceptable for software required to control the fault/error conditions specified in table R.1		N/A		
R.3.2	Specification	1	N/A		
R.3.2.1	Software safety requirements:	Software Id:	N/A		
	The specification of the software safety requirements includes the descriptions listed		N/A		
R.3.2.2	Software architecture		N/A		
R.3.2.2.1	The specification of the software architecture includes the aspects listed - techniques and measures to control software faults/errors (refer to R.2.2);	Document ref. No:	N/A		
	- interactions between hardware and software;				
	 partitioning into modules and their allocation to the specified safety functions; 				
	 hierarchy and call structure of the modules (control flow); 				
	- interrupt handling;				
	- data flow and restrictions on data access;				
	- architecture and storage of data;				
	- time-based dependencies of sequences and data				



IEC 60335-1						
Clause	Requirement + Test	Result - Remark	Verdict			
R.3.2.2.2	The architecture specification is validated against the specification of the software safety requirements by static analysis		N/A			
R.3.2.3	Module design and coding		N/A			
R.3.2.3.1	Based on the architecture design, software is suitably refined into modules		N/A			
	Software module design and coding is implemented in a way that is traceable to the software architecture and requirements		N/A			
R.3.2.3.2	Software code is structured		N/A			
R.3.2.3.3	Coded software is validated against the module specification by static analysis		N/A			
	The module specification is validated against the architecture specification by static analysis		N/A			
R.3.3.3	Software validation		N/A			
	The software is validated with reference to the requirements of the software safety requirements specification		N/A			
	Compliance is checked by simulation of:		N/A			
	- input signals present during normal operation		N/A			
	- anticipated occurrences		N/A			
	- undesired conditions requiring system action		N/A			

	TABLE R.1 ^e – GENERAL FAULT/ERROR CONDITIONS							
Component ^a	Fault/error	Acceptable measures ^{b, c}	Definitions	Document reference for applied measure	Document reference for applied test	Ver- dict		
1 CPU						N/A		
1.1								
Registers	Stuck at	Functional test, or	H.2.16.5					
		periodic self-test using either:	H.2.16.6					
		- static memory test, or	H.2.19.6					
		 word protection with single bit redundancy 	H.2.19.8.2					
1.2 VOID						N/A		



		IEC 60335-	1		
Clause	Requiremen	t + Test	Result - R	temark	Verdict
1.3 Programme counter	Stuck at	Functional test, or Periodic self-test, or Independent time-slot monitoring, or Logical monitoring of the programme sequence	H.2.16.5 H.2.16.6 H.2.18.10.4 H.2.18.10.2		N/A
2 Interrupt handling and execution	No interrupt or too frequent interrupt	Functional test, or time-slot monitoring	H.2.16.5 H.2.18.10.4		N/A
3 Clock	Wrong frequency (for quartz synchroniz ed clock: harmonics/ sub- harmonics only)	Frequency monitoring, or time slot monitoring	H.2.18.10.1 H.2.18.10.4		N/A
4. Memory 4.1 Invariable memory	All single bit faults	Periodic modified checksum, or multiple checksum, or word protection with single bit redundancy	H.2.19.3.1 H.2.19.3.2 H.2.19.8.2		N/A
4.2 Variable memory	DC fault	Periodic static memory test, or word protection with single bit redundancy	H.2.19.6 H.2.19.8.2		N/A
4.3 Addressing (relevant to variable and invariable memory)	Stuck at	Word protection with single bit redundancy including the address	H.2.19.8.2		N/A
5 Internal data path	Stuck at	Word protection with single bit redundancy	H.2.19.8.2		N/A
5.1 VOID					N/A
5.2 Addressing	Wrong address	Word protection with single bit redundancy including the address	H.2.19.8.2		N/A

RM.7, 9/F.,Block A, International Business Incubator,

Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750



		IEC 60335	-1		
Clause	Requirement + Test		Result - Remark		Verdict
6 External	Hamming distance 3	Word protection with multi-bit redundancy, or	H.2.19.8.1		N/A
communica tion		CRC – single work, or	H.2.19.4.1		
uon		Transfer redundancy, or	H.2.18.2.2		
		Protocol test	H.2.18.14		
6.1 VOID					N/A
6.2 VOID					N/A
6.3 Timing	Wrong point in	Time-slot monitoring, or scheduled transmission	H.2.18.10.4 H.2.18.18		N/A
	time	Time-slot and logical monitoring, or	H.2.18.10.3		
		comparison of redundant communication channels by either:			
		- reciprocal comparison	H.2.18.15		
		 independent hardware comparator 	H.2.18.3		
	Wrong	Logical monitoring, or	H.2.18.10.2		
	sequence	time-slot monitoring, or	H.2.18.10.4		
		Scheduled transmission	H.2.18.18		
7 Input/output periphery	Fault conditions specified in 19.11.2	Plausibility check	H.2.18.13		N/A
7.1 VOID					N/A
7.2 Analog I/O					N/A
7.2.1 A/D and D/A- converter	Fault conditions specified in 19.11.2	Plausibility check	H.2.18.13		
7.2.2 Analog multiplexer	Wrong addressing	Plausibility check	H.2.18.13		N/A
8 VOID					N/A
9 Custom chips ^d e.g. ASIC, GAL, gate array	Any output outside the static and dynamic functional specificatio n	Periodic self-test	H.2.16.6		N/A

level. A DC fault model denotes a stuck-at fault model incorporating short circuit of a non-varying sig

STAFIT Electronic Technology Co., Ltd.

RM.7, 9/F.,Block A, International Business Incubator,

Lanyue Road, Guangzhou Science Park, Guangdong, China

Tel: (+86-20)32051135; Fax: (+86-20) 32052750

www.stafit.com.cn

Technical Report No. T-TST-2311337A Rev.01

Project Engineer: Victor Wu EN 60335-1 2023-12-20 page 78 of 118



	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdict
a) For fourt/o	rror accomment, some compensate are divided into t	hair auth functions	

^{a)} For fault/error assessment, some components are divided into their sub-functions.
 ^{b)} For each sub-function in the table, the Table R.2 measure will cover the software fault/error.

^{c)} Where more than one measure is given for a sub-function, these are alternatives.

^{d)} To be divided as necessary by the manufacturer into sub-functions.

^{e)} Table R.1 is applied according to the requirements of R.1 to R.2.2.9 inclusive.



IEC 60335-1									
Clause	se Requirement + Test Result - Remark					Verdict			
10.1	TABLE: Power input deviation						N/A		
Input deviation of/at:		P rated (W)	P measured (W)	ΔΡ	Required ΔP	R	emark		

--

--

--

--

Supplementary information:

10.2 TABLE	: Current deviat	tion			Р
Current deviation of/at:	I rated (A)	I measured (A)	ΔΙ	Required Δ I	Remark
DC5V	0.04	0.03	-25.0%	+20%	SZ1504HD05
DC5V	2.20	1.87	-15.0%	+15%	SZ12038HD05
DC5V	0.15	0.13	-13.3%	+20%	SG3517HD05
DC5V	0.12	0.10	-16.7%	+20%	SG5010MD05
DC5V	0.16	0.14	-12.5%	+20%	SG5010HD05
DC5V	0.28	0.24	-14.3%	+20%	SG5010XD05
DC12V	0.06	0.05	-16.7%	+20%	SZ2006MD1
DC12V	0.10	0.09	-10.0%	+20%	SZ2006HD1
DC12V	7.50	6.38	-14.9%	+15%	SZ20053MD1
DC12V	12.00	10.20	-15.0%	+15%	SZ20053HD1
DC12V	0.22	0.19	-13.6%	+20%	SL10025MD1
DC12V	0.35	0.30	-14.3%	+20%	SL10025HD1
DC12V	7.50	6.38	-14.9%	+15%	SL175MD1
DC12V	9.50	8.08	-14.9%	+15%	SL175HD1
DC12V	0.06	0.05	-16.7%	+20%	SZ4010MD1
DC12V	0.09	0.08	-11.1%	+20%	SZ4010HD1
DC12V	0.15	0.13	-13.3%	+20%	SZ4010XD1
DC12V	0.48	0.41	-14.6%	+20%	SG12032MD1
DC12V	1.20	1.02	-15.0%	+20%	SG12032HD1
DC24V	0.03	0.03	+0.0%	+20%	SZ3010MD2
DC24V	0.04	0.03	-25.0%	+20%	SZ3010HD2
DC24V	0.05	0.04	-20.0%	+20%	SZ3010XD2
Supplementary info	ormation:	•		-	•

STAFIT Electronic Technology Co., Ltd.

Technical Report No. T-TST-2311337A Rev.01

RM.7, 9/F.,Block A, International Business Incubator,

Lanyue Road, Guangzhou Science Park, Guangdong, China

Tel: (+86-20)32051135; Fax: (+86-20) 32052750

www.stafit.com.cn

Project Engineer: Victor Wu EN 60335-1 2023-12-20 page 80 of 118



			IEC 6033	35-1			
Clause	Require	ment + Test			Result - Remark		Verdict
10.2	TA	BLE: Current de	eviation				Р
Current d of/at:	eviation	I rated (A)	I measured (A)	Δ١	Required Δ I	Re	mark
DC24V		6.50	5.53	-14.99	×+15%	SZ2808	0MD2
DC24V		8.80	7.48	-15.0%	+15%	SZ2808	0HD2
DC24V		5.50	4.68	-14.9%	<u>+15%</u>	SZ2548	9MD2
DC24V		9.80	8.33	-15.0%	<u>+15%</u>	SZ2548	9HD2
DC24V		0.11	0.09	-18.2%		SL1002	5MD2
DC24V		0.18	0.15	-16.7%		SL1002	5HD2
DC24V		0.30	0.26	-13.39	000/	SL1002	5XD2
DC24V		7.60	6.46	-15.0%	450/	SL225H	ID2
DC24V		0.05	0.04	-20.0%	~ +20%	SZ4010	MD2
DC24V		0.06	0.05	-16.79	. 000/	SZ4010	HD2
DC24V		0.08	0.07	-12.5%	000/	SZ4010	XD2
DC24V		6.80	5.78	-15.0%	_% +15%	SG146	HD2
DC48V		0.04	0.03	-25.0%	~ +20%	SZ6020	MD4
DC48V		0.05	0.04	-20.0%	+20%	SZ6020	HD4
DC48V		0.08	0.07	-12.5%	_% +20%	SZ6020	XD4
DC48V		2.50	2.13	-14.89	× +15%	SZ2808	0MD4
DC48V		4.50	3.83	-14.99	× +15%	SZ2808	0HD4
DC48V		0.42	0.36	-14.39	. 000/	SL133N	/ID4
DC48V		0.85	0.72	-15.39	. 200/	SL133H	ID4
DC48V		1.20	1.02	-15.09	~ +20%	SL133>	(D4
DC48V		6.50	5.53	-14.99	. 1 5 0/	SL400H	ID4
DC48V		0.18	0.15	-16.79	. 000/	SG973	3MD4
DC48V		0.28	0.24	-14.39	~ +20%	SG973	3HD4
DC48V		0.45	0.38	-15.69	. 000/	SG973	3XD4
DC48V		4.60	3.91	-15.0%	450/	SG146	HD4
Suppleme	entary info	rmation:	• • •			•	

RM.7, 9/F.,Block A, International Business Incubator,

Lanyue Road, Guangzhou Science Park, Guangdong, China

Tel: (+86-20)32051135; Fax: (+86-20) 32052750

www.stafit.com.cn

Technical Report No. T-TST-2311337A Rev.01 Project Engineer: Victor Wu EN 60335-1 2023-12-20 page 81 of 118



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

11.8		TABLE: Heating test A: SZ1504HD05; B: SZ12038HD05; C: SG3517HD05; D: SG5010XD05						
	Test voltage (\	Fest voltage (V):				1.06*5V=5.3 V		
	Ambient (°C)			:		B: 22.4 D: 23.6	—	
Thermocouple locations		Max. te	mperature ri	se measu	red, Δ T (K)	Max. temperat		
	-	Α	В	С	D	limit, Δ T	(K)	
Winding of	motor	18.4	32.3	19.6	30.8	85		
PCB		16.9	31.7	18.4	29.6	120		
Wire		8.9	9.2	9.7	9.3	55		
Enclosure 4		4.5	11.7	6.9	7.5	CI.30.1	1	
Suppleme	ntary informatio	n:		1	1	1		

	TABLE: Heating test A: SZ2006HD1; B: SZ20053HD1; C: SL10025XD1; D: SL175HD1						
1	Fest voltage (\	/)		:	1.06*12	V=12.72V	
ļ	Ambient (°C): A: 22.8; B:22.6 C:22.5; D: 23.9				—		
Thermocoup	le locations	Max. ter	nperature ris	se measui	red, Δ T (K)	Max. temperat	
		Α	В	С	D	limit, Δ T	(K)
Winding of me	otor	29.0	60.5	32.9	59.6	85	
PCB		26.2	54.3	27.5	24.4	120	
Wire		16.0	38.9	19.5	23.1	.1 55	
Enclosure		5.5	35.8	6.3	33.6	Cl.30.1	1
Supplementa	ary informatio	n:			·	·	

RM.7, 9/F.,Block A, International Business Incubator,

Lanyue Road, Guangzhou Science Park, Guangdong, China

Tel: (+86-20)32051135; Fax: (+86-20) 32052750



		IEC 60	335-1				
Clause	Requirement +	Test		Result - Remark		Verdict	
11.8	TABLE: Heatin A: SG4010HD ²	g test 1; B: SG12032HD1				Р	
	Test voltage (W	/)	:	1.06*12			
	Ambient (°C)		:	A: 22.6	A: 22.6; B:23.3		
Thermocou	ple locations	Max. temperature ri	se measu	red, Δ T (K)	Max. temperat		
		Α		В	limit, Δ T	(K)	
Winding of n	notor	25.6		53.0	85		
PCB		21.7		34.5	120		
Wire		11.6		21.8	55		
Enclosure 6.4 20.2		Cl.30.1					
Supplemen	tary informatio	n:	•		•		

	TABLE: Heating test A: SZ3010XD2; B: SZ25489HD2; C: SL10025XD2; D: SL225HD2						Р
	Test voltage (\	/)		:	1.06*24	V=25.44V	
	Ambient (°C)			:		2; B:24.1 ; D: 23.4	_
Thermocouple locations		Max. te	mperature ri	se measu	red, Δ T (K)	Max. tempera	
		Α	В	С	D	limit, Δ T	(K)
Winding of m	notor	18.3	57.0	17.2	55.1	85	
PCB		15.7	41.2	14.9	40.3	120	
Wire		3.9	34.8	8.5	33.2	55	
Enclosure		5.8	33.2	6.4	32.8	Cl.30.1	1
Supplement	tary informatio	n:		-	·		

11.8	TABLE: Heatin A: SG4010HD	ng test 2; B: SG146HD2			Р
	Test voltage (/):	1.06*24∖	/=25.44V	_
	Ambient (°C)	:	A: 22.5	; B:23.1	_
Thermo	hermocouple locations Max. temperature rise measured, Δ T (K) Max. temperat				ture rise

Technical Report No. T-TST-2311337A Rev.01

RM.7, 9/F.,Block A, International Business Incubator,

Lanyue Road, Guangzhou Science Park, Guangdong, China

Tel: (+86-20)32051135; Fax: (+86-20) 32052750

www.stafit.com.cn

Project Engineer: Victor Wu EN 60335-1 2023-12-20 page 83 of 118



		IEC 60	335-1		
Clause	Requirement + T	est	Result - Rem	ark	Verdict
		Α	В	limit, Δ T	(K)
Winding of	f motor	34.6	63.0	85	
PCB		21.9	44.7	120	
Wire		12.4	21.9	55	
Enclosure		6.9	21.4	Cl.30.1	
Suppleme	entary information	:			

11.8	TABLE: Heating test A: SZ6020XD4; B: SZ28080HD4; C: SL133XD4; D: SL400HD4						Р
	Test voltage (Test voltage (V): 1.06*48V=50.88V					
	Ambient (°C): A: 24.2; B:24 C:23.8; D: 23				—		
Thermocouple locations		Max. ter	nperature ris	se measur	red, Δ T (K)	Max. temperat	
		А	В	С	D	limit, Δ T	(K)
Winding of r	motor	43.7	62.7	48.2	63.9	85	
PCB		38.2	52.4	46.9	57.7	120	
Wire		32.0	49.2	36.2	50.4	55	
Enclosure 30.5 47.5		33.9	49.6	CI.30.1	l		
Supplemen	Supplementary information:						

11.8	TABLE: Heating test A: SG9733XD4; B: SG146HD4					Р
	Test voltage (V	/)	:	1.06*48	V=50.88V	
	Ambient (°C)	(°C): A: 22.4; B:23.5			_	
Thermocouple locations		Max. temperature ri	se measu	red, Δ T (K)	Max. temperat	
		Α		В	limit, Δ T	(K)
Winding of	motor	29.7		61.6	85	
PCB		26.4		55.2	120	
Wire		19.5		49.8	55	
Enclosure		18.4		48.2	Cl.30.1	1

Technical Report No. T-TST-2311337A Rev.01

RM.7, 9/F.,Block A, International Business Incubator,

Lanyue Road, Guangzhou Science Park, Guangdong, China

Tel: (+86-20)32051135; Fax: (+86-20) 32052750

www.stafit.com.cn

Project Engineer: Victor Wu EN 60335-1 2023-12-20 page 84 of 118



	IEC 60335-1	
Requirement + Test	Result - Remark	Verdict
	Requirement + Test	

Supplementary information:

11.8	TABLE: Heating tes	TABLE: Heating test, resistance method					N/A
	Test voltage (V)	Test voltage (V)					
	Ambient, t1 (°C)	Ambient, t1 (°C)					_
	Ambient, t2 (°C)			.:			_
Tempera	ature rise of winding	R1 (Ω)	R2 (Ω)	ΔΤ (K)	Max. ΔT (K)		ulation class
_							
Supplen	Supplementary information:						

13.2	TABLE: Leakage current			N/A
	Heating appliances: 1.15 x rated input (W):			
	Motor-operated and combined appliances: 1.06 x rated voltage (V):			
Leakage c	urrent between	l (mA)	Max. allowe	ed I (mA)
			—	
Suppleme	ntary information:			

13.3	TABLE: Dielectric strength			N/A
Test voltage applied between:		Test potential applied (V)	Breakdown / 1 (Yes/N	
		—	_	
		—	_	
Supplemen	tary information:			

14	TABLE: Transient overvoltages						N/A
Clearance b	between:	CI (mm)	Required CI (mm)	Rated impulse voltage (V)	Impulse test voltage (V)		ashover Yes/No)
		—	—	_	—		
Supplemen	tary information:						

STAFIT Electronic Technology Co., Ltd.

RM.7, 9/F.,Block A, International Business Incubator,

Lanyue Road, Guangzhou Science Park, Guangdong, China

Tel: (+86-20)32051135; Fax: (+86-20) 32052750

www.stafit.com.cn

Technical Report No. T-TST-2311337A Rev.01 Project Engineer: Victor Wu

> EN 60335-1 2023-12-20 page 85 of 118



		EC 60335-1	
Clause	Requirement + Test	Result - Remark	Verdict

16.2	TABLE: Leakage current			N/A
	Single phase appliances: 1.06 x rated voltage (V):			_
	Three phase appliances 1.06 x rated voltage divided by $\sqrt{3}$ (V):			_
Leakage	current between	l (mA)	Max. allowe	ed I (mA)
Supplem	nentary information:			

16.3	TABLE: Dielectric strength			N/A
Test voltag	e applied between:	Test potential applied (V)	Breakdown / 1 (Yes/N	
		_		
		_		
Supplemen	tary information:			

17	TABLE: Overload protection	n	N/A
Therm	ocouple locations	Max. temperature rise measured, Δ T (K)	Max. temperature rise limit, Δ T (K)
		—	
			<u> </u>
Supple	ementary information:		

17	TABLE: Overload protection, resistance method						
	Test voltage (V)					_	
	Ambient, t1 (°C)	Ambient, t1 (°C):					
	Ambient, t2 (°C)		:				_
Tempera	ature of winding	R1 (Ω)	R2 (Ω)	ΔΤ (Κ)	T (°C)	Max	κ. Τ (°C)
			—				
Suppler	nentary information:						

19 Abnormal operation conditions

STAFIT Electronic Technology Co., Ltd.

RM.7, 9/F.,Block A, International Business Incubator,

Lanyue Road, Guangzhou Science Park, Guangdong, China

Tel: (+86-20)32051135; Fax: (+86-20) 32052750

www.stafit.com.cn

Technical Report No. T-TST-2311337A Rev.01 Project Engineer: Victor Wu EN 60335-1 2023-12-20 page 86 of 118

Ρ



				IEC 6033	35-1			
Clause	Requirement	+ Test				Result - Remark		Verdict
							· · ·	
Operational characteristics				S/NO	Operatio	onal conditions		
Are there electronic circuits to control the appliance operation?			NO		-			
Are there " position?	off" or "stand	l-by"	NO		-			
	nded operatio results in dang n?		NO		-			
Sub- clause	Operating conditions description	Test res descript		PEC description	EMP 19.11.		19.11.3PEC	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	Seeclasue 19.7	Nohazar	d	N.A	N.A	N.A	N.A	Ρ
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	N.A	N.A		N.A	N.A	N.A	N.A	N.A
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
Supplemer	ntary informat	ion:						

19.7	TABLE: Abnormal operation, locked rotor/moving parts (seetable 19.13)						
	Test voltage (V)		12				
	Ambient, t1 (°C)		24.1		—		
	Ambient, t2 (°C)		:		24.3		
Temperati	ure of winding	R1 (Ω)	R2 (Ω)	ΔΤ (Κ)	T (°C)	Ma	ax. T (°C)
					—		

RM.7, 9/F.,Block A, International Business Incubator,

Lanyue Road, Guangzhou Science Park, Guangdong, China

Tel: (+86-20)32051135; Fax: (+86-20) 32052750

www.stafit.com.cn

Technical Report No. T-TST-2311337A Rev.01 Project Engineer: Victor Wu EN 60335-1 2023-12-20 page 87 of 118



	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdict
Clause	Requirement + Test	Result - Remark	V

Supplementary information:

19.9	TABLE: Abnorma	TABLE: Abnormal operation, running overload						
	Test voltage (V)	Test voltage (V)						
	Ambient, t1 (°C)	Ambient, t1 (°C)						
	Ambient, t2 (°C)		:					
Tempera	ture of winding	R1 (Ω)	R2 (Ω)	ΔΤ(Κ)	T (°C)	Ма	ax. T (°C)	
				—		_		
Supplem	Supplementary information:							

19.13	TABLE: Abnormal c	peration, temperature rises for clause 19.7		Р	
Models No	. VOLTAGE (V)	Locked motor DURATION	Remark		
SZ1504HD0	DC5V	the resistor of PCB opened in 1 second.	Repeate	d test	
SZ12038HD	005 DC5V	the resistor of PCB opened in 1 second.	Repeate	d test	
SG3517HD0	D5 DC5V	the resistor of PCB opened in 1 second.	Repeate	d test	
SG5010MD	05 DC5V	the resistor of PCB opened in 1 second.	Repeate	d test	
SG5010HD0	DC5V	the resistor of PCB opened in 1 second.	Repeate	d test	
SG5010XD0	DC5V	the resistor of PCB opened in 1 second.	Repeate	d test	
SZ2006MD	1 DC12V	the resistor of PCB opened in 1 second.	Repeate	d test	
SZ2006HD ⁻	1 DC12V	the resistor of PCB opened in 1 second.	Repeate	d test	
SZ20053MI	D1 DC12V	the resistor of PCB opened in 1 second.	Repeate	d test	
SZ20053HE	D1 DC12V	the resistor of PCB opened in 1 second.	Repeate	d test	
SL10025M	10025MD1 DC12V the resistor of PCB opened in 1 second. Repeate		d test		
SL10025HE	D1 DC12V	the resistor of PCB opened in 1 second.	Repeate	Repeated test	
SL175MD1	SL175MD1 DC12V the resistor of PCB opened in 1 second. Repe		Repeate	d test	

STAFIT Electronic Technology Co., Ltd.

RM.7, 9/F.,Block A, International Business Incubator,

Lanyue Road, Guangzhou Science Park, Guangdong, China

Tel: (+86-20)32051135; Fax: (+86-20) 32052750

www.stafit.com.cn

Technical Report No. T-TST-2311337A Rev.01 Project Engineer: Victor Wu EN 60335-1 2023-12-20 page 88 of 118

т©т

		IEC 60335-1			
Clause	Requirement + Test		Result - Remark		Verdict
SL175HD1	DC12V	the resistor of PCB opened	in 1 second.	Repeat	ed test
SZ4010ME	D1 DC12V	the resistor of PCB opened i	in 1 second.	Repeat	ed test
SZ4010HD	DC12V	the resistor of PCB opened i	in 1 second.	Repeat	ed test
SZ4010XD	DC12V	the resistor of PCB opened	in 1 second.	Repeat	ed test
SG12032N	ID1 DC12V	the resistor of PCB opened	in 1 second.	Repeat	ed test
SG12032F	ID1 DC12V	the resistor of PCB opened	in 1 second.	Repeat	ed test
SZ3010ME	D2 DC24V	the resistor of PCB opened	in 1 second.	Repeat	ed test
SZ3010HD	DC24V	the resistor of PCB opened	in 1 second.	Repeat	ed test
SZ3010XD	DC24V	the resistor of PCB opened	in 1 second.	Repeat	ed test
SZ28080N	ID2 DC24V	the resistor of PCB opened	in 1 second.	Repeat	ed test
SZ28080H	D2 DC24V	the resistor of PCB opened	in 1 second.	Repeat	ed test
SZ25489N	ID2 DC24V	the resistor of PCB opened	in 1 second.	Repeat	ed test
SZ25489H	D2 DC24V	the resistor of PCB opened	in 1 second.	Repeat	ed test
SL10025M	ID2 DC24V	the resistor of PCB opened	in 1 second.	Repeat	ed test
SL10025H	D2 DC24V	the resistor of PCB opened	in 1 second.	Repeat	ed test
SL10025X	D2 DC24V	the resistor of PCB opened	in 1 second.	Repeat	ed test
SL225HD2	DC24V	the resistor of PCB opened	in 1 second.	Repeat	ed test
SZ4010ME	D2 DC24V	the resistor of PCB opened	in 1 second.	Repeat	ed test
SZ4010HD	DC24V	the resistor of PCB opened	in 1 second.	Repeat	ed test
SZ4010XD	DC24V	the resistor of PCB opened	in 1 second.	Repeat	ed test
SG146HD	2 DC24V	the resistor of PCB opened	in 1 second.	Repeat	ed test
SZ6020ME	D4 DC48V	the resistor of PCB opened	in 1 second.	Repeat	ed test
SZ6020HD	DC48V	the resistor of PCB opened	in 1 second.	Repeat	ed test

STAFIT Electronic Technology Co., Ltd.

RM.7, 9/F.,Block A, International Business Incubator,

Lanyue Road, Guangzhou Science Park, Guangdong, China

Tel: (+86-20)32051135; Fax: (+86-20) 32052750

www.stafit.com.cn

Technical Report No. T-TST-2311337A Rev.01 Project Engineer: Victor Wu EN 60335-1 2023-12-20 page 89 of 118



DC48V DC48V DC48V DC48V DC48V DC48V DC48V DC48V	Result - Remark the resistor of PCB opened in 1 second. the resistor of PCB opened in 1 second.	Verdic Repeated test Repeated test Repeated test Repeated test Repeated test Repeated test
DC48V DC48V DC48V	the resistor of PCB opened in 1 second. the resistor of PCB opened in 1 second. the resistor of PCB opened in 1 second.	Repeated test Repeated test Repeated test
DC48V DC48V	the resistor of PCB opened in 1 second. the resistor of PCB opened in 1 second.	Repeated test Repeated test
DC48V	the resistor of PCB opened in 1 second.	Repeated test
DC48V	the resistor of PCB opened in 1 second.	Repeated test
	•	Repeated test
DC48V	the resistor of PCB opened in 1 second.	Repeated test
DC48V	the resistor of PCB opened in 1 second.	Repeated test
DC48V	the resistor of PCB opened in 1 second.	Repeated test
DC48V	the resistor of PCB opened in 1 second.	Repeated test
DC48V	the resistor of PCB opened in 1 second.	Repeated test
DC48V	the resistor of PCB opened in 1 second.	Repeated test
	DC48V DC48V DC48V DC48V	DC48V the resistor of PCB opened in 1 second. DC48V the resistor of PCB opened in 1 second. DC48V the resistor of PCB opened in 1 second. DC48V the resistor of PCB opened in 1 second. DC48V the resistor of PCB opened in 1 second.

21.1	TABLE: Imp	ABLE: Impact resistance							
Impacts per surface		Surface tested	Impact energy (Nm)	Commer	nts				
Suppleme	ntary informat	ion:							

24.1	TAB	BLE: Critical compo	nents informat	ion		Р
No. ti		Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹
Winding of motor		SHANTOU SHENGANG ELECTRICAL INDUSTRIAL CO LTD	UEW,MW75- C	V-0,130C	EN 60335-1	Tested with appliance

Lanyue Road, Guangzhou Science Park, Guangdong, China

Tel: (+86-20)32051135; Fax: (+86-20) 32052750



		IEC	60335-1		
Clause	Requirement + Test			Result - Remark	Verdict
Bobbin of mo	otor CHANG CHUN CHEMICAL(ZHA NGZHOU)CO LTD	PBT/413	94V-0	EN 60335-1	Tested with appliance
Lead wire	DONGGUAN DANYANG ELECTRONIC WIRE CO LTD	1571	26-28AWG 80 C, 300 V		Tested with appliance
Lead wire	DONGGUAN LIUQUAN WIRE CO LTD	1007	18-26AWG 80 C, 300 V		Tested with appliance E327087
Alternative	DONGGUAN HONGFUWEI CABLE TECHNOLOGY CO LTD	1007	18-26AWG 80 C, 300 V		Tested with appliance E316005
Alternative	DONGGUAN LIUQUAN WIRE CO LTD	2464	18-26AWG 80 C, 300 V		Tested with appliance E327087
Alternative	DONGGUAN HONGFUWEI CABLE TECHNOLOGY CO LTD	2464	18-26AWG 80 C, 300 V		Tested with appliance E316005
PCB material ZHUHAI HANDA TECHNOLOGY CO LTD		HD-1	94V-0,130	C EN 60335-1	Tested with appliance UL E353483
PCB support plastic, Plast Enclosure	plastic, Plastic CHEMICAL(ZHAN		94V-0	EN 60335-1	Tested with appliance
	ary information: evidence ensures the a	greed level o	of compliance	. See OD-CB2039.	



				т(Эт					
	IEC 60335-1									
Clause	Requirement + Test		Result - Remark		Verdict					

28.1	TABLE: Thread	led part torque test			N/A
Threaded part identification		Diameter of thread (mm)	Column number (I, II, or III)	Applied torqu	ie (Nm)
Supplemen	ntary information	1:			

29.1		TABLE: Clearan				N/A			
	Overvoltage categor	y	:						
			Type of insulation:						
Rated impulse voltage (V)	Min. cl (mm)	Basic (mm)	Supplementar y (mm)	Reinforc (mm)	ed Functional (mm)	Verdict / Remark			
330	0,2*/0,5/0,8**								
500	0,2*/0,5/0,8**								
800	0,2*/0,5/0,8**								
1 500	0,5/0,8**/1,0***								
2 500	1,5/2,0***								
4 000	3,0/3,5***								
6 000	5,5/6,0***								
8 000	8,0/8,5***								
	11,0/11,5***			İ					

) For pollution degree 3 *) If the construction is affected by wear, distortion, movement of the parts or during assembly

29.2	TABLE:	Creepage distances, basic, supplementary and reinfo	rced insulation	N/A
Working (V)	-	Creepage distance (mm) Pollution degree		

STAFIT Electronic Technology Co., Ltd.

RM.7, 9/F.,Block A, International Business Incubator,

Lanyue Road, Guangzhou Science Park, Guangdong, China

Tel: (+86-20)32051135; Fax: (+86-20) 32052750



					IEC 60)335-1						
Clause	Requirer	nent +	Test				Re	sult - Rem	ark			Verdict
		1		2			3			Гуре o sulatio		
			Ма 	iterial g	roup Illa/IIIb	Ма	iterial g	roup Illa/Illb*	B**	S**	R**	Verdict
		0,18	0,6	0,85	1,2	1,5	1,7	1,9	D	3	к 	Verdict
_⊴co ≤50		0,18	0,6	0,85	1,2	1,5	1,7	1,9				
_=cc ≤50		0,36	1,2	1,7	2,4	3,0	3,4	3,8				
125		0,28	0,75	1,05	1,5	1,9	2,1	2,4				
125		0,28	0,75	1,05	1,5	1,9	2,1	2,4				
125		0,56	1,5	2,1	3,0	3,8	4,2	4,8				
250		0,56	1,25	1,8	2,5	3,2	3,6	4,0				
250		0,56	1,25	1,8	2,5	3,2	3,6	4,0				
250		1,12	2,5	3,6	5,0	6,4	7,2	8,0				
400		1,0	2,0	2,8	4,0	5,0	5,6	6,3				
400		1,0	2,0	2,8	4,0	5,0	5,6	6,3				
400		2,0	4,0	5,6	8,0	10,0	11,2	12,6	_			
500		1,3	2,5	3,6	5,0	6,3	7,1	8,0				
500		1,3	2,5	3,6	5,0	6,3	7,1	8,0	_			
500		2,6	5,0	7,2	10,0	12,6	14,2	16,0	_			
>630 and	≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0				
>630 and	≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0				
>630 and	≤800	3,6	6,4	9,0	12,6	16,0	18,0	20,0				
>800 and s	≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5		_		
>800 and :	≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5				
>800 and :	≤1000	4,8	8,0	11,2	16,0	20,0	22,0	25,0				
>1000 and	≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0			—	
>1000 and	≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0			_	
>1000 and	≤1250	6,4	10,0	14,2	20,0	25,0	28,0	32,0	_	—		
>1250 and	≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0		—	—	
>1250 and	≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	—		—	

Technical Report No. T-TST-2311337A Rev.01

RM.7, 9/F.,Block A, International Business Incubator,

Lanyue Road, Guangzhou Science Park, Guangdong, China

Tel: (+86-20)32051135; Fax: (+86-20) 32052750

www.stafit.com.cn

Project Engineer: Victor Wu EN 60335-1 2023-12-20

page 93 of 118



				IEC 6	0335-1					
Clause Req	uirement +	Test				Res	sult - Rem	ark		Verdict
>1250 and ≤160	0 8,4	12,6	18,0	25,0	32,0	36,0	40,0			
>1600 and ≤200		8,0	11,0	16,0	20,0	22,0	25,0			
>1600 and ≤200		8,0	11,0	16,0	20,0	22,0	25,0			
>1600 and ≤200		16,0	22,0	32,0	40,0	44,0	50,0			
>2000 and ≤250		10,0	14,0	20,0	25,0	28,0	32,0			
>2000 and ≤250		10,0	14,0	20,0	25,0	28,0	32,0			
>2000 and ≤250		20,0	28,0	40,0	50,0	56,0	64,0			
>2500 and ≤320		12,5	18,0	25,0	32,0	36,0	40,0			
>2500 and ≤320		12,5	18,0	25,0	32,0	36,0	40,0			
>2500 and ≤320	00 20,0	25,0	36,0	50,0	64,0	72,0	80,0			
>3200 and ≤400	00 12,5	16,0	22,0	32,0	40,0	45,0	50,0			
>3200 and ≤400	00 12,5	16,0	22,0	32,0	40,0	45,0	50,0			
>3200 and ≤400	00 25,0	32,0	44,0	64,0	80,0	90,0	100,0			
>4000 and ≤500	00 16,0	20,0	28,0	40,0	50,0	56,0	63,0			
>4000 and ≤500	00 16,0	20,0	28,0	40,0	50,0	56,0	63,0			
>4000 and ≤500	00 32,0	40,0	56,0	80,0	100,0	112,0	126,0			
>5000 and ≤630	00 20,0	25,0	36,0	50,0	63,0	71,0	80,0			
>5000 and ≤630	00 20,0	25,0	36,0	50,0	63,0	71,0	80,0			
>5000 and ≤630	00 40,0	50,0	72,0	100,0	126,0	142,0	160,0			
>6300 and ≤800	00 25,0	32,0	45,0	63,0	80,0	90,0	100,0			
>6300 and ≤800	00 25,0	32,0	45,0	63,0	80,0	90,0	100,0			
>6300 and ≤800	00 50,0	64,0	90,0	126,0	160,0	180,0	200,0			
>8000 and ≤100	00 32,0	40,0	56,0	80,0	100,0	110,0	125,0			
>8000 and ≤100	00 32,0	40,0	56,0	80,0	100,0	110,0	125,0			
>8000 and ≤100	00 64,0	80,0	112,0	160,0	200,0	220,0	250,0			
>10000 and ≤128	500 40,0	50,0	71,0	100,0	125,0	140,0	160,0			
>10000 and ≤128	500 40,0	50,0	71,0	100,0	125,0	140,0	160,0			
>10000 and ≤128	500 80,0	100,0	142,0	200,0	250,0	280,0	320,0		—	

RM.7, 9/F.,Block A, International Business Incubator,

Lanyue Road, Guangzhou Science Park, Guangdong, China

Tel: (+86-20)32051135; Fax: (+86-20) 32052750

www.stafit.com.cn

Technical Report No. T-TST-2311337A Rev.01 Project Engineer: Victor Wu EN 60335-1 2023-12-20 page 94 of 118



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

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

9.2	TABLE: Working volt (V)	<u>, </u>		Creep Pollu		N/A				
		1		2			3			
			Ма	terial g	roup	Ма	iterial g	roup		
			I	II	IIIa/IIIb	I	II	IIIa/IIIb*	Verdict / Rema	ark
≤	10	0,08	0,4	0,4	0,4	1,0	1,0	1,0		
ţ	50	0,16	0,56	0,8	1,1	1,4	1,6	1,8		
1	25	0,25	0,71	1,0	1,4	1,8	2,0	2,2		
2	50	0,42	1,0	1,4	2,0	2,5	2,8	3,2		
4	00	0,75	1,6	2,2	3,2	4,0	4,5	5,0		
5	00	1,0	2,0	2,8	4,0	5,0	5,6	6,3		
>630 a	nd ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0		
>800 ar	nd ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5		
>1000 a	nd ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0		
>1250 a	nd ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0		
>1600 a	nd ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0		
>2000 a	nd ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0		
>2500 a	nd ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0		
>3200 a	nd ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0		
>4000 a	nd ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0		
>5000 a	nd ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0		
>6300 a	nd ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0		
>8000 ar	nd ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0		
>10000 a	nd ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0		

Supplementary information:

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

STAFIT Electronic Technology Co., Ltd.

RM.7, 9/F.,Block A, International Business Incubator,

Lanyue Road, Guangzhou Science Park, Guangdong, China

Tel: (+86-20)32051135; Fax: (+86-20) 32052750

www.stafit.com.cn

Technical Report No. T-TST-2311337A Rev.01 Project Engineer: Victor Wu

EN 60335-1 2023-12-20 page 95 of 118



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

30	TABLE: Res	istance to he	eat and	d fire																
Object/ part No.	Manufactur er/ trademark	Type/ model			Glow-wire flammability index (GWFI) °C			ignition fl temp.		Needle- Verd flame test (NFT)	Verdict									
-			75	125	cl. 11	cl. 19	550	6	50	7	50	850	550	650	750	850	675	775		
					+40	+25		te	ti	te	ti									
Enclosure	See CDF	See CDF	1.1				х													Р
Bobbin	See CDF	See CDF		1.5			х													Р
PCB	See CDF	See CDF																	х	Р
 ¹⁾ Parts of n ²⁾ Parts of n ³⁾ Flame per 	tary informatic naterial classifi naterial classifi rsisting longer ing parts subje	ed at least H ed as V-0 or than 2 s (= t	· V-1 :e – ti)	need c	only be i	reported		natte	ndec	l app	oliano	ces								

⁵⁾ Base material classified as V-0 or if relevant VTM-0

⁶⁾ The GWIT pre-selection option, the 850 °C GWFI pre-selection option, and the 850 °C GWT are not applicable for attended appliances

STAFIT Electronic Technology Co., Ltd.Technical Report No. T-TST-2311337A Rev.00RM.7, 9/F.,Block A, International Business Incubator,Project Engineer: Victor WuLanyue Road, Guangzhou Science Park, Guangdong, ChinaEN 60335-1Tel: (+86-20)32051135; Fax: (+86-20) 320527502023-12-20www.stafit.com.cnpage 96 of 118



Attachment No.1:

	IEC 60335_1X ATTACHM	IENT	
Clause	Requirement + Test	Result - Remark	Verdict
IEC 60335 EUROPEA Household	AENT TO TEST REPORT 5-1 AN GROUP DIFFERENCES AND NATIONAL DIFFEREN 5 and similar electrical appliances – Safety – 2 NERAL REQUIREMENTS	NCES	
Difference	es according to EN 60335-1:2012 + AC:20 A14:2019 + A2:2019	014 + A11:2014 + A13:2017	′ + A1:2019 +
Attachme	ent Form No EU_GD_IEC60335_1X		
Attachme	nt Originator Nemko AS		
Master At	tachment 2019-09-24		
	t © 2019 IEC System for Conformity Testing and Cer Geneva, Switzerland. All rights reserved.	rtification of Electrical Eq	uipment
	CENELEC COMMON MODIFICATIONS (EN)		
6.1	Delete "class 0" and "class 01"		N/A
7.1	Single-phase appliances to be connected to the supply mains: 230 V covered		N/A
	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.		N/A
	An indication that the device has been operated is	N/A	
	a tactile feedback, or		N/A
	an audible and visual feedback		N/A
7.12	The instructions include the substance of the follo	wing:	
	- 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 gives supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved		N/A
	- children shall not play with the appliance		N/A
	- cleaning and user maintenance shall not be made by children without supervision		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		N/A

STAFIT Electronic Technology Co., Ltd.

RM.7, 9/F.,Block A, International Business Incubator, Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750 Technical Report No. T-TST-2311337A Rev.01 Project Engineer: Victor Wu EN 60335-1 2023-12-20 page 97 of 118



0	IEC 60335_1X ATTACHME		
Clause	Requirement + Test	Result - Remark	Verdict
	The height of the characters, measured on the capital letters, is at least 3 mm		N/A
	These instructions are also available in an alternative format, e.g. on a website		N/A
7.14	In NOTE Z1, replace "IEC 82079-1" by "EN 82079-1".		N/A
Annex ZF	Table ZF.1, change EN 60335-2-38		N/A
8.1.1	Also test probe 18 of EN 61032 is applied		N/A
	The appliance being in every possible position during the test, except that		N/A
	appliances normally used on the floor and having a mass exceeding 40 kg are not tilted		N/A
	The force on the probe in the straight position is increased to 10 N when probe 18 is used		N/A
	When using test probe 18 the appliance is fully assembled as in normal use without any parts removed, and		N/A
	parts intended to be removed for user maintenance are also not removed		N/A
8.1.3	Instead of test probe B, test probe 18 and test probe 13, for appliances other than those of class II, test probe 41 of IEC 61032 is applied with a force not exceeding 1 N to live parts of visibly glowing heating elements, all poles of which can be disconnected by a single switching action		N/A
8.2	Compliance is checked by inspection and by applying the test probes of EN 61032 in accordance with the conditions specified in 8.1.1		N/A
	Test probe B and probe 18 of EN 61032 are applied to built-in appliances and fixed appliances only after installation		N/A
11.8	Footnotes to "External enclosure of motor- operated appliances" to be taken into account		N/A
15.1.2	Appliances with an automatic cord reel tested with the cord in the most unfavourable position so that the reeling of the wet cord may affect electrical insulation during operation, the cord not being dried before reeling		N/A
20.2	For appliances having dangerous moving parts, due to their working function, e.g. the needle of a sewing machine, tools of kitchen machines or the blade of an electrical knife, full protection is not possible for performing their intended use		N/A

RM.7, 9/F.,Block A, International Business Incubator, Lanyue Road, Guangzhou Science Park, Guangdong, China

Tel: (+86-20)32051135; Fax: (+86-20) 32052750



0	IEC 60335_1X ATTACHME		.,
Clause	Requirement + Test	Result - Remark	Verdic
	When using a test probe similar to test probe B of EN 61032, having a circular stop face and applied with a force of 5N, the accessories and detachable covers are removed		N/A
	When using test probe 18 it is applied with a force of 2,5N on the appliance fully assembled		N/A
22.12	Other parts intended to be detached during use, maintenance or cleaning (e.g. batteries, battery covers, lids, attachments, steam nozzles) are not considered as parts providing a similar function as handles, knobs, grips, levers		N/A
22.17	The requirement is not applicable to built-in appliances		N/A
24.1	Components comply with the safety requirements specified in the relevant EN standards as far as they reasonably apply		Р
	Motors are not required to comply with EN 60034- 1, but tested as part of the appliance according to this standard		N/A
	Relays are tested as part of the appliance according to this standard		N/A
	Relays may be alternatively tested to EN 60730-1 and the additional requirements in EN 60335-1		N/A
	The requirements of Clause 29 of this standard apply between live parts of components and accessible parts of the appliance		Р
	Components may comply with the requirements for clearances and creepage distances for functional insulation as specified in the relevant component standard		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		Р
	Components that have not been tested and shown to comply with the EN standard for the relevant component are tested according to the requirements of 30.2 of this standard		Р
	Components that have been tested and shown to correquirements in the EN standard for the relevant corprovided that:		N/A
	- the severity specified in the component standard is not less than the severity specified in 30.2, and		N/A
	- the test report for the component states the values of t_e and t_i acc. to EN 60695-2-11		N/A



Clause	Requirement + Test	Result - Remark	Verdict
	If the above two conditions are not satisfied, the component is tested as part of the appliance		P
	Power electronic converter circuits are not required to comply with EN 62477-1, but tested as part of the appliance according to this standard		N/A
	Unless components have been tested and found to comply with the relevant EN 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 EN standard for the component are necessary other than those specified in 24.1.1 to 24.1.9		P
	Components that have not been tested and found to comply with the relevant EN standard, and		Р
	components that are not marked or not used in accordance with their marking,		Р
	are tested in accordance with the conditions occurring in the appliance, the number of samples being that required by the relevant standard		Р
	Lamp-holders and starter-holders that have not been tested and found to comply with the relevant EN standard are tested as a part of the appliance and additionally comply with the gauging and interchangeability requirements of the relevant EN standard under the conditions occurring in the appliance		N/A
	Where the relevant EN standard specifies these gauging and interchangeability requirements at elevated temperatures, the temperatures measured during the tests of Clause 11 are used		N/A
	There are no additional tests specified for nationally standardized plugs such as those detailed in IEC/TR 60083 or connectors complying with the standard sheets of EN 60320-1 and EN 60309, unless they are specifically mentioned in the text of this standard		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		N/A
	with connectors and appliance inlets complying with the standard sheets of EN 60320-1, if		N/A
	direct supply to these parts from the supply mains gives rise to a hazard		N/A



	IEC 60335_1X ATTACHME		
Clause	Requirement + Test	Result - Remark	Verdict
	For plugs used in CENELEC countries Annex ZH applies		N/A
24.1.7	When 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	Type S2 and S3 capacitors according to EN 60252-1 are not required to undergo the testing as required by 30.2.2 and 30.2.3.1		N/A
25.1	Plugs and pins for insertion into socket outlets follow the relevant standards sheets in Annex ZH		N/A
25.7	Rubber sheathed cords (60245 IEC 53) are not suitable for appliances intended to be used outdoors, or		N/A
	when they are liable to be exposed to significant amount of ultraviolet radiation		N/A
	Halogen-free thermoplastic compound sheathed su least those of:	pply cords have properties at	
	 halogen-free thermoplastic compound sheathed cords (H03Z1Z1H2-F or H03Z1Z1-F), for appliances having a mass not exceeding 3 kg 		N/A
	 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
25.25	Instead of IEC/TR 60083, dimensions of the pins and engagement face of plugs of appliances that are inserted into socket-outlets are in accordance with the dimensions of the relevant plug standard		N/A
	Common plugs and socket-outlets types in CENELEC countries as shown in Annex ZH		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,		N/A
	unless they are held in place near the terminals independently of the solder		N/A

Lanyue Road, Guangzhou Science Park, Guangdong, China

Tel: (+86-20)32051135; Fax: (+86-20) 32052750



	IEC 60335_1X ATTACHME		
Clause	Requirement + Test	Result - Remark	Verdict
29.3.Z1	Appliance constructed so that if there is a possibility of damaging the insulation during installation, the insulation withstands the scratch and penetration test of 21.2		N/A
32	Compliance regarding electromagnetic fields is checked according to EN 62233		Р
Annex I, 19.I.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 any of the tests is as specified in 19.7		N/A
ZA	ANNEX ZA (NORMATIVE) SPECIAL NATIONAL CONDITIONS (EN)		
	Denmark, Sweden, Norway and Finland		
7 4 9 9			
7.12.8	The maximum inlet water pressure is at least 1,0 MPa		N/A
	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
	Denmark		
22.47	The maximum inlet water pressure is at least 1,0 MPa:		N/A
	Ireland and United Kingdom		
25.8	In the table, the line >10 A and \leq 16 A is replaced wi	ith:	N/A
	> 10 and \leq 13 1,25 (1,0) ^b		N/A
	> 13 and \leq 16 1,5 (1,0) ^b		N/A



0	De suisser est a Test	Desult Dements	Mandiat				
Clause	Requirement + Test	Result - Remark	Verdict				
ZB	ANNEX ZB (INFORMATIVE) A-DEVIATIONS						
	Ireland						
25.1 and 25.25	These regulations apply to all plugs for domestic use at a voltage of not less than 200 V and in general allow only plugs complying with I.S. 401:1997, or equivalent, to be fitted to domestic appliances		N/A				
	United Kingdom						
25.1 and 25.25	These regulations apply to all plugs for domestic use at a voltage of not less than 200 V and in general allow only plugs to BS 1363 to be fitted to domestic appliances.		N/A				
	It also allows plugs to BS 4573 and EN 50075 to be fitted to shavers and toothbrushes		N/A				
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		Р				
ZD	ANNEX ZD (INFORMATIVE) IEC and CENELEC CODE DESIGNATIONS FOR FLEXIBLE CORDS						
	List of IEC and CENELEC code designations for flexible cords		Р				
ZE	ANNEX ZE (INFORMATIVE) SPECIFIC ADDITIONAL REQUIREMENTS FOR A INTENDED FOR COMMERCIAL USE	PPLIANCES AND MACHINES					
7.1	Business name and full address of the manufacturer and, where applicable, his authorized representative		N/A				
	Model or type reference:	See Page 1	N/A				
	Serial number, if any		N/A				
	Production year		N/A				
	Designation of the appliance	Commercial induction cooker	N/A				



Clause	Requirement + Test	Result - Remark	Verdict
		Result - Remark	
7.12	Instructions provided with the appliance so that the appliance can be used safely		N/A
	The instructions contain at least the following inform	nation:	
	- the business name and full address of the manufacturer and, where applicable, his authorized representative		N/A
	- model or type reference of the appliance as marked on the appliance itself, except for the serial number		N/A
	- the designation of the appliance together with its explanation in case it is given by a combination of letters and/or numbers		N/A
	- the general description of the appliance, when needed due to the complexity of the appliance		N/A
	- specific precautions required during installation, operation, adjusting, user maintenance, cleaning, repairing or moving		N/A
	- when needed drawings, diagrams, descriptions and explanations necessary for the safe use and user maintenance of the appliance		N/A
	- the possible reasonably foreseeable misuse and, whenever relevant, a warning against the effects it may have on the safe use of the appliance		N/A
	The words "Original instructions" appear on the language version(s) verified by the manufacturer or by the authorized representative		N/A
	When a translation of the original instructions has been provided by a person introducing the appliance on the market; the meaning of the sentence "Translation of the original instructions" appear in the relevant instructions delivered with the appliance		N/A
	The instructions for maintenance/service to be done by specialized personnel, mandated by the manufacturer or the authorized representative may be supplied in only one Community language which the specialized personnel understand		N/A
	The instructions indicate the type and frequency of inspections and maintenance required for safe operation including the preventive maintenance measures		P
7.12.ZE1	If needed for specific appliances, the following infor	mation to be given:	



Clause	Requirement + Test	Result - Remark	Verdict
	 on use, transportation, assembly, dismantling when out of service, testing or foreseeable breakdowns, if these operations have consequences on stability of the appliance in order to avoid overturning, falling or uncontrolled movements of the appliance or of its component parts 		N/A
	- on how to maintain adequate mechanical stability when in use, during transportation, assembly, dismantling, scrapping and any other action involving the appliance		N/A
	- on the protective measures to be taken by the user, including, where appropriate, the personal protective equipment to be provided		N/A
	- on the operating method to be followed in the event of accident or breakdown; if a blockage is likely to occur the operating method to safely unblock the appliance		N/A
	- on the specifications on the spare parts to be used, when these affect the health and safety of the operator		N/A
	- on airborne noise emissions, determined and decla relevant Part 2, which includes:	ared in accordance with the	N/A
	 the A-weighted emission sound pressure level at workstations, where this exceeds 70 dB(A); 		N/A
	- where this level does not exceed 70 dB(A), this fact is indicated		N/A
	- the peak C-weighted instantaneous sound pressure value at workstations, where this exceeds 63 Pa (130 dB in relation to 20 μPa)		N/A
	- the A-weighted sound power level emitted by the machinery, where the A-weighted emission sound pressure level at workstations exceeds 80 dB(A)		N/A
7.12.ZE2	The instructions include a warning to disconnect the appliance from its power source during service and when replacing parts		Р
	If the removal of the plug is foreseen, it is clearly indicated that the removal of the plug is such that an operator can check from any of the points to which he has access that the plug remains removed		N/A



Clause	IEC 60335_1X ATTACHME	Result - Remark	Verdict			
Clause	Requirement + Test If this is not possible, due to the construction of the appliance or its installation, a disconnection with a locking system in the isolated position is provided	Result - Remark	N/A			
19.11.4.8	The appliance continues to operate, without causing any hazard to the user, from the same point in its operating cycle at which the voltage fluctuation occurred, or		P			
	a manual operation is required to restart it		N/A			
20.1	Appliances and their components and fittings have adequate mechanical stability during transportation, assembly, dismantling and any other action involving the appliance		N/A			
20.2	Dangerous moving transmission parts safeguarded either by design or guards	No dangerous moving transmission parts	N/A			
	When guards are used, they are fixed guards, interlocking movable guards or protective devices					
	Moving parts directly involved in the function of the appliance which cannot be made completely inaccessible fitted with:					
	- fixed guards or interlocking movable guards preventing access to those sections of the parts that are not used in the work, and		N/A			
	- adjustable guards restricting access to those sections of the moving parts where access is necessary		N/A			
	Interlocking movable guards used where frequent access is required		N/A			
21.1	Appliances and their components and fittings have adequate mechanical strength and is constructed to withstand such rough handling that may be expected in normal use, during transportation, assembly, dismantling, scrapping and any other action involving the appliance		N/A			
22.ZE.1	For appliances provided with a seat, the seat gives adequate stability		N/A			
	The distance between the seat and the control devices capable of being adapted to the operator		N/A			
22.ZE.2	For appliances provided with separate devices for the start and the stop functions, the stop function is unambiguously identifiable and does always override the start function		N/A			
	For appliances provided with one device performing the start and the stop function, the stop function is unambiguously identifiable and does always override the start function		N/A			

STAFIT Electronic Technology Co., Ltd.

RM.7, 9/F.,Block A, International Business Incubator, Lanyue Road, Guangzhou Science Park, Guangdong, China

Tel: (+86-20)32051135; Fax: (+86-20) 32052750



	IEC 60335_1X ATTACHMENT	1
Clause	Requirement + Test Result - Remark	Verdict
22.ZE.3	Appliances designed in such a way that incorrect mounting is avoided, if this can lead to an unsafe situation	N/A
	If this is not possible, information on the correct mounting is given directly on the part and/or the enclosure	N/A
22.ZE.4	Where the weight, size or shape prevents appliances from being moved manually, they are fitted with attachments for lifting gear, or	N/A
	so designed that they can be fitted with such attachments, or	N/A
	be shaped in such a way that standard lifting gear can easily be used	N/A
	Appliances to be moved manually are constructed or equipped so that they can be moved easily and safely	N/A
22.ZE.5	The fixing systems of fixed guards which prevent access to dangerous moving transmission parts only removable with the use of tools	N/A
	If such guards have to be removed by the user for routine cleaning or maintenance their fixing systems remain attached to the fixed guards or to the machine after removal	N/A
	Where possible, guards are incapable of remaining in place without their fixings	N/A
	This does not apply if, after removal of the screws, or if the component is incorrectly repositioned, the appliance becomes inoperative	N/A
	Movable guards are interlocked	N/A
	The interlocking devices prevent the start of hazardous appliance functions until the guards are fixed in their position, and give a stop command whenever they are no longer closed	N/A
	Where it is possible for an operator to reach the danger zone before the risk due to hazardous appliance functions has ceased, movable guards associated with a guard locking device in addition to an interlocking device that:	N/A
	- prevents the start of hazardous appliance functions until the guard is closed and locked, and	N/A
	- keeps the guard closed and locked until the risk of injury from the hazardous appliance functions has ceased	N/A
	Interlocking movable guards remain attached to the appliance when open, and	N/A



	IEC 60335_1X ATTACHME	NT	
Clause	Requirement + Test	Result - Remark	Verdict
	they are designed and constructed in such a way that they can be adjusted only by means of an intentional action		N/A
22.ZE.6	Interlocking movable guards designed in such a way that the absence or failure of one of their components prevents starting or stops the hazardous appliance functions		N/A
	The guard is opened to the extent needed to cause the interlocking to operate and is then closed, the number of operations being defined in the specific Part 2		N/A
	After this test any defect that may be expected in normal use is applied to the interlock system, including interruption of the supply, only one defect being simulated at a time		N/A
	After these tests the interlock system is fit for further use		N/A
22.ZE.7	Adjustable guards restricting access to areas of the for the work are:	moving parts strictly necessary	N/A
	- adjustable manually or automatically, depending on the type of work involved, and		N/A
	- readily adjustable without the use of tools		N/A
22.ZE.8	In case of interruption, re-establishment after an interruption or fluctuation in whatever manner of the power supply, the appliance does not restart		N/A
	However, automatic restarting of the operation is allowed if the appliance may continue to operate, without causing any hazard to the user, from the same point in its operating cycle at which the voltage interruption or fluctuation occurred		N/A
22.ZE.9	Appliances fitted with means to isolate them from all energy sources		N/A
	Such isolators are clearly identified, and		N/A
	they are capable of being locked if reconnection endanger persons		N/A
	After the energy source is disconnected, it is possible to dissipate any energy remaining or stored in the circuits of the appliance without risk to persons		N/A
ZF	ANNEX ZF (INFORMATIVE) CRITERIA APPLIED FOR THE ALLOCATION OF STANDARDS IN THE EN 60335 SERIES UNDER		

RM.7, 9/F.,Block A, International Business Incubator, Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750



Clause	IEC 60335_1X ATTACHMENT	esult - Remark	Verdict
Clause	Requirement + Test Re List of standards under CENELEC/TC61 with the allocation under the LVD (Low Voltage Directive) or the MD (Machinery Directive)	ssuit - Remark	N/A
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
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
ZH	ANNEX ZH (INFORMATIVE) Common plug and socket-outlet types in CENELEC	countries	
	In general, supply cords of single-phase appliances have exceeding 16 A are fitted with a plug complying with the		N/A
	- for class I appliances or class II appliances with functional earth, standard sheet EU2, EU3 or EU4:		N/A
	- for class II appliances, standard sheet EU5, EU6 or EU7:		N/A
	There are exemptions or differences in certain CENELEC countries		N/A
ZI	ANNEX ZI (INFORMATIVE) Information on the application of A11:2014 to EN 60 CENELEC CLC/TC 61(SEC)2096A	0335-1:2012	
	Clarification of the application of parts 2 in conjunction with the 2002 or 2012 version of EN 60335-1		Р
ZZA	ANNEX ZZA (INFORMATIVE) RELATIONSHIP BETWEEN THIS EUROPEAN STAN OBJECTIVES OF DIRECTIVE 2014/35/EU [2014 OJ L COVERED		

Lanyue Road, Guangzhou Science Park, Guangdong, China

Tel: (+86-20)32051135; Fax: (+86-20) 32052750



	IEC 60335_1X ATTACHME	ENT	
Clause	Requirement + Test	Result - Remark	Verdict
	This standard provides one means of conforming to safety objectives of Directive 2014/35/EU		Р
	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		Р
	Compliance with this Part 1 when used together with the relevant Part 2 provides one means of conformity with the safety objectives		Р
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		Р
	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		Ρ
	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		Р

Annex EN 62233:2008			
Clause	Requirement + Test Result - Remark Verdict		
EMF- ELECTROMAGNETICS FIELDS			
	The tested product also complies with the requirements of EN 62233:2008		
	Limit100%	Measured max. :12.43 %	Р



Attachment No.2:

Clause	Requirement + Test	Result - Remark	Verdict
22.44	An appliance is child-appealing if one of the following c	riteria is present:	
	 appliance decorated using faces, cartoon like characters, or similar images; 		N/A
	— appliance using shapes representing animals, characters, persons or scale models.		N/A
	An appliance is child-appealing if more than one of the following criteria are present:		N/A
	 using non-functional light (functional light is e.g. illumination of an object or area, signal indicating status of an appliance); 		N/A
	— using non-functional sound (e.g. music);		N/A
	— using non-functional movement.		N/A
	If the appliance is child-appealing, has a mass less than 4 kg or is mounted or normally intended for use ata height less than 850 mm, the following conditions shall be met:		N/A
	— No surface (both functional surfaces and non- functional) that are accessible by means of test probe19 of IEC 61032 located at a height less than 850 mm shall exceed the temperature rises stated below:		N/A
	Temperature rise – of bare metal 38K – of coated metal 42K – of glass and ceramic 51K – of plastic having a thickness exceeding 0,4 mm 58K		N/A
	 Hazardous moving parts shall not be accessible by means of test probe 19 of IEC 61032 under the conditions specified for test probe 18 in Clause 20.2. 		N/A
	 Live parts shall not be accessible by means of test probe 19 of IEC 61032 under the conditions Specified for test probe 18 in Clause 8.1.1. 		N/A
	— Liquid in the appliance shall not exceed 38 °C in normal use when it is accessible by means of test probe 19 under the conditions specified for test probe 18 in Clause 20.2 or can get out of the appliance when positioned in different positions. Vessels in which two independent and sequential actions are needed to access the liquid are considered to meet the requirement.		N/A
	— The requirement of 22.12 is applicable for all accessible parts of the appliance.		N/A

STAFIT Electronic Technology Co., Ltd.

RM.7, 9/F.,Block A, International Business Incubator, Lanyue Road, Guangzhou Science Park, Guangdong, China Tel: (+86-20)32051135; Fax: (+86-20) 32052750 www.stafit.com.cn Technical Report No. T-TST-2311337A Rev.01 Project Engineer: Victor Wu EN 60335-1 2023-12-20 page 111 of 118



	The requirement is not applicable to appliances where there is a toy shaped like the appliance.	N/A
	Compliance is checked by inspection and appropriate tests.	N/A
24.1.7	If the remote operation of the appliance is via a telecommunication network, the relevant standard for thetelecommunication interface circuitry in the appliance is IEC 62151.	N/A



Attachment No.3: Photo

Applicant: Dongguan Saiji Electric Technology Co., Ltd.

Type of equipment, model: DC Fan, models see page 4-15

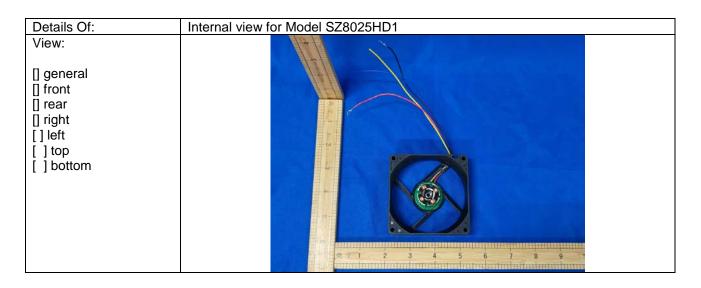
Details Of:	Outlook view for Model SZ8025HD1
View: [] general [] front [] rear [] right [] left [] top [] bottom	

Details Of:	Outlook view for Model SZ8025HD1
View: [] general [] front [] rear [] right [] left [] top [] bottom	

Technical Report No. T-TST-2311337A Rev.01 Project Engineer: Victor Wu EN 60335-1 2023-12-20 page 113 of 118



Details Of:	Internal view for Model SZ8025HD1
Details Of: View: [] general [] front [] rear [] right [] left [] left [] top [] bottom	Internal view for Model SZ8025HD1



Details Of:	Outlook view for Model SL400HD4
Details Of: View: [] general [] front [] rear [] right [] left [] top [] bottom	Outlook view for Model SL400HD4

STAFIT Electronic Technology Co., Ltd.Technical Report No.RM.7, 9/F.,Block A, International Business Incubator,PrLanyue Road, Guangzhou Science Park, Guangdong, ChinaTel: (+86-20)32051135; Fax: (+86-20) 32052750www.stafit.com.cnVertice Park, Guangdong, China

Technical Report No. T-TST-2311337A Rev.01 Project Engineer: Victor Wu EN 60335-1 2023-12-20 page 114 of 118



Details Of:	Outlook view for Model SL400HD4
View: [] general [] front [] rear [] right [] left [] top [] bottom	

Details Of:	Internal view for Model SL400HD4
View: [] general [] front [] rear [] right [] left [] top [] bottom	

Details Of:	Internal view for Model SL400HD4
View: [] general [] front [] rear [] right [] left [] top [] bottom	

STAFIT Electronic Technology Co., Ltd.Technical Report No. T-TST-2311337A Rev.01RM.7, 9/F.,Block A, International Business Incubator,Project Engineer: Victor WuLanyue Road, Guangzhou Science Park, Guangdong, ChinaEN 60335-1Tel: (+86-20)32051135; Fax: (+86-20) 320527502023-12-20www.stafit.com.cnpage 115 of 118



Details Of:	Internal view for SG12032HD2
View: [] general [] front [] rear [] right [] left [] top [] bottom	

Details Of: Inte	rnal view for SG133HD4
View: [] general [] front [] rear [] right [] left [] top [] bottom	

Details Of:	Outlook view for SG133HD4
View:	
[] general	. 00000
[] front [] rear	
[] right	
[]left []top	
[] bottom	
	Orest-oreit version

STAFIT Electronic Technology Co., Ltd.Technical ReRM.7, 9/F.,Block A, International Business Incubator,
Lanyue Road, Guangzhou Science Park, Guangdong, China
Tel: (+86-20)32051135; Fax: (+86-20) 32052750Technical Rewww.stafit.com.cnState Park, Guangdong, ChinaState Park, Guangdong, China

Technical Report No. T-TST-2311337A Rev.01 Project Engineer: Victor Wu EN 60335-1 2023-12-20 page 116 of 118



Details Of:	Internal view for SG133HD4
View: [] general [] front [] rear [] right [] left [] top [] bottom	

Details Of:	Internal view for SG12032HD2
View: [] general [] front [] rear [] right [] left [] top [] bottom	

Details Of:	Outlook view for SG12032HD2
View: [] general [] front [] rear [] right [] left [] top [] bottom	

Technical Report No. T-TST-2311337A Rev.01 Project Engineer: Victor Wu EN 60335-1 2023-12-20 page 117 of 118



Attachment No. 4: QUALIFIEDCERTIFICATE for STAFIT LAB

顶	认可 Recognize	d lab				
ntertel	K Testing Site Acceptance	(U) COM	INCALL OF PARTICUPATION band by ELCCER: on balant of ELCCER: on balant of	N	ATTESTATION The a transfer for Staff Electronic Transloggy Ce., LM.	9
RTL Level 2	The formance programmers has been nearest and block of a complex with the sensent requirement of CVICE 12100 and the method cload land mergened that iterature has been and a compared to interface as a case 2 Recognized Test Laboratory ander the first block provides the the TL (LT), make and is addressed to make the first block provides the the TL (LT).	BALT,	TELECTIONES COMPACINES COLLES COLLECTIONES COMPACINES INCLUENTS COLLECTIONES COMPACINES COMPACINES COMPACING COMPACINES COMPACING COMPACING br>COMPACING COMPAC	\mathbb{P}	Half J, DP, Bana A, Manamarok Bauman Musatari Garagatha Stream Fash, P.R.Shwa Taki Isani anagatha Sy 104 KBD Cartification and Teating (Chine) Ce., Life Banation, neurostatic Budding (C), Program Rol, Hang Garagathan F. R. Chine Chickenet of SchWittig Uni- ted Systems (Co., Life Breachen Breton & ToW 100 UR1	. Guargehou po fue, Vaet, Cator and
(a) AP, Segment ADD scientifica- property description of product science of product science of product science of any add the object of a science object of a scien	Organization Starfit Electronic Technology Co. Ltd. Room 1, 55, Beck A, International Summar Induktor, Januar Mad, Buergelou Samor Felt, Gungelog, China 29 calls 120883	No. 55 August 1997	y. Marine Marine Marine Marine Marine Marine	\leq	for cooperating in un-site witness properts according to manifolder. In CORN INCOME OF INCOME 2.2, ISCHER INCOME 2. INCOME INCOME 1. INCOME INCOME 2.3, ISCHER INCOME 2.5, IS INCOME INCOME 2.4, INCOME INCOME 2.44, INCOME INCOME INCOME 2.44, INCOME INCOME 2.44, INCOME INCOME INCOME INCOME INCOME INCOME 2.44, INCOME INCOME INCOME INCOME INCOME 2.44, INCOME INFORMATIONE INCOME	6, IECEN ECRN 6006- N 6006-2-30, 16-2-61, 1-1, IECEN
	Anaptana Number 2014 (11, c) - (k, 10) Illin A Anarak 20 Illin A Ana				This document calless that the documental integration that that the Derectory's transformed optimum (n) is the Recorporate Laboratories and to scattling in complete DOID between their Laboratories (TL) program to the or product unlegatives and or simulation. Are for each to tracing facilities must be released reag- program and the track of the product are conduc-	toos Lating of a with the TOV robuity agreed serveros of this hell users the
	The factory tile Academics surgement of the type must and 2 automatemics Spartner The stype filler The tile tile tile The tile tile tile				Automation and witness of the engineericity of TOV 50 and Tenning Ones (Co., Lot Downsythme Reserve) in 5000 offices in South Down Tegare, first test results on hears for 4 TOVICO continuation. Assessment Test 2000 control of Cognition Date: 2000 col 04 TOVI 1000 Chrow - South Region	r ((Ref 2 TOV))
	All and a second					
				广州市	もしい由子利は	☆右限
	4	End	of report	广州市	市鼎达电子科技	有降