



Ref. Certif. No.

JPTUV-013146-M2

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST
CERTIFICATES FOR ELECTRICAL EQUIPMENT
(IECEE) CB SCHEME

SYSTEME CEI D'ACCEPTATION MUTUELLE DE
CERTIFICATS D'ESSAIS DES EQUIPEMENTS
ELECTRIQUES (IECEE) METHODE OC

CB TEST CERTIFICATE
CERTIFICAT D'ESSAI OC

Product
Produit

Room air conditioner indoor unit

Name and address of the applicant
Nom et adresse du demandeur

Electra Consumer Products
21 Aminadav St., Tel-Aviv
67067, Israel

Name and address of the manufacturer
Nom et adresse du fabricant

Electra Consumer Products
21 Aminadav St., Tel-Aviv
67067, Israel

Name and address of the factory
Nom et adresse de l'usine

See additional page(s)

Rating and principal characteristics
Valeurs nominales et caractéristiques principales

AC 220-230V; 50Hz; Class I
rated power input: refer to the test report
IP20; Refrigerant: R22, R407C, R410A

Trade mark (if any)
Marque de fabrique (si elle existe)

ELECTRA

Model/type Ref.
Ref. de type

WNG series
WNG FG series
LEX series

Additional information (if necessary)
Information complémentaire (si nécessaire)

For model differences, refer to the test report.
Re-issue of JPTUV-013146-M1 dated 19.05.2006,
due to second modification.

A sample of the product was tested and found
to be in conformity with
Un échantillon de ce produit a été essayé et a été
considéré conforme à la

IEC 60335-2-40:1995+A1
IEC 60335-1:1991+A1+A2

As shown in the Test Report Ref. No. which forms part
of this Certificate
Comme indiqué dans le Rapport d'essais numéro de
référence qui constitue une partie de ce Certificat

12011244 003

This CB Test Certificate is issued by the National Certification Body
Ce Certificat d'essai OC est établi par l'Organisme National de Certification



TÜV Rheinland Group

TÜV Rheinland Japan Ltd.
German Technology Assessment Center
4-25-2 Kita-Yamata, Tsuzuki-ku
Yokohama 224-0021 Japan
Phone + 81 45 470-3888
Fax + 81 45 470-5221
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Web: www.tuv.com

Dipl. Ing. M. Glagla

Date: 10.04.2007

Signature:



Ref. Certif. No.

Appendix to CB Certificate JPTUV-013146-M2
Report Number: 12011244 003

PAGE 1 OF 1

Name and address of the manufacturer
Electra Consumer Products
21 Aminadav St., Tel-Aviv
67067
Israel

Name and address of the factory(ies)
Electra Air-conditioning (Shenzhen) Co., Ltd.

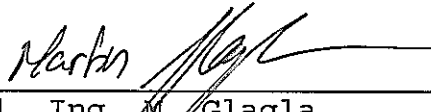
2 WUHE AVENUE S.,
BANTIAN, BUJI
Shenzhen, Guangdong, P.R. China

Electra Consumer Products Ltd.

Sapir 1, Rishon Lezion
75704
Israel

Additional information (if necessary)
Information complémentaire (si nécessaire)

Date: 10.04.2007


Dipl. Ing. M. Glagla

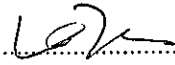
Date:

Signature:

TEST REPORT
IEC 60335-2-40
**Safety of household and similar electrical appliances
Part 2: Particular requirements for electrical heat pumps, air-conditioners and dehumidifiers**

Report Reference No.....: 12011244 003

Compiled by (+ signature): Leon Tan



Approved by (+ signature): Stone Shi



Contents.....: 24 Pages

Date of issue.....: 2007-03-30

CB Testing laboratory Name.....: TÜV Rheinland (Guangdong) Ltd.

Address.....: 43/F, Metro Plaza, 183 Tianhe Rd. North, Guangzhou 510620, P. R. China

 Testing location/procedure.....: CBTL SMT TMP

Address.....: Unit C-101, No.11 Caipin Road, GZ Science City, Guangzhou 510663 P. R. China

Applicant's Name.....: ELECTRA CONSUMER PRODUCTS

Address.....: 21 Aminadav St, Tel-Aviv, 67067 Israel

Test specification

 Standard: IEC 60335-2-40:1995 + A1:2000 used in conjunction with
IEC 60335-1:1991 + A1:1994 + A2:1999

Test procedure: CB

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

Test Report Form No.....: IEC60335_2_40C

TRF originator.....: AENOR

Master TRF.....: Dated 2002-02

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Test item description: Air conditioner indoor unit

Trademark: ELECTRA

Model and/or type reference.....: WNG series, LEX series (see models list on page 7-9)

Manufacturer.....: Same as applicant

Factory.....: See page 2

Rating(s): Rated voltage: AC 220-230V~ 50Hz

Rated power: see page 7-9

Refrigerant: R22, R407C, R410A

IP20

Summary of testing:

1. All tests performed on all models;
2. Based on the modification, the clause 17, 21, 22, 24.1, 29, 30 are considered, the relevant tests were passed.
3. For further information, please refer to report 12011244 001-002.

Test items particulars:

Serial Number : Prototype samples without serial numbers.

Additional information..... : N(.A.)

..... :
..... :

Test case verdicts

Test case does not apply to the test object : N(.A.)

Test item does meet the requirement..... : P(ass)

Test item does not meet the requirement : F(ail)

Testing

Date of receipt of test item : 2007-01-10

Date(s) of performance of test..... : 2007-01-10 —2007-03-28

General remarks

This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IEC 60335-1.

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

This test report shall not be reproduced except in full, without the written approval of the issuing testing laboratory.

Clause numbers between brackets refer to clauses in IEC 60335-1

"(see Enclosure #)" refers to an additional information appended to the report.

"(see appended table)" refers to a table appended to the report.

Throughout this report a comma is used as the decimal separator.

Factory information:

Factory 1: Electra Air-Conditioning (Shenzhen) Co., Ltd.

Address: 2 Wuhe Avenue S., Bantian, Buji, Shenzhen, Guangdong, P. R. China

Factory 2: ELECTRA CONSUMER PRODUCTS LTD.

Address: Sapir 1, Rishon Lezion, 75704, Israel

History of amendments and modifications:

Ref.No.12011244 001, dated 2005-12-07 (original report);

Ref.No.12011244 002 dated 2006-04-05 (modification report);

Ref.No.12011244 003 dated 2007-03-30 (modification report);

Description of modification:

1. Modify the outlook enclosure for below issued models, the display window of the models is modified. Details please refer to photo document.

Based on the modification, the clause 21, 22, 29 are considered and passed.

List of models:

No.	Model	Rated voltage	Rated power input	Corresponded Refrigerant	Original report
1.	LEX 18 RC	220-230V~ 50Hz	49W	R22	12011244 001
2.	LEX 18 ST	220-230V~ 50Hz	49W	R22	12011244 001
3.	LEX 21 RC	220-230V~ 50Hz	58W	R22	12011244 001
4.	LEX 21 ST	220-230V~ 50Hz	58W	R22	12011244 001
5.	LEX 24 RC	220-230V~ 50Hz	58W	R22	12011244 001
6.	LEX 24 ST	220-230V~ 50Hz	58W	R22	12011244 001
7.	LEX 18 RC R410A	220-230V~ 50Hz	49W	R410A	12011244 001
8.	LEX 18 ST R410A	220-230V~ 50Hz	49W	R410A	12011244 001
9.	LEX 21 RC R410A	220-230V~ 50Hz	58W	R410A	12011244 001
10.	LEX 21 ST R410A	220-230V~ 50Hz	58W	R410A	12011244 001
11.	LEX 24 RC R410A	220-230V~ 50Hz	58W	R410A	12011244 001
12.	LEX 24 ST R410A	220-230V~ 50Hz	58W	R410A	12011244 001
13.	LEX 18 RC R407C	220-230V~ 50Hz	49W	R407C	12011244 001
14.	LEX 18 ST R407C	220-230V~ 50Hz	49W	R407C	12011244 001
15.	LEX 21 RC R407C	220-230V~ 50Hz	58W	R407C	12011244 001
16.	LEX 21 ST R407C	220-230V~ 50Hz	58W	R407C	12011244 001
17.	LEX 24 RC R407C	220-230V~ 50Hz	58W	R407C	12011244 001
18.	LEX 24 ST R407C	220-230V~ 50Hz	58W	R407C	12011244 001

2. Add new controller WNG-18-FLAT (LEX) for LEX18RC, LEX18ST, LEX18RC R410A, LEX18ST R410A, LEX18RC R407C, LEX18ST R407C which is identical with controller for WNG18RC, WNG18ST, WNG18RC R410A, WNG18ST R410A except the silk-screen is different, the main components in the controller is same as before. The controller manufacturer is hualian. Details please refer to photo document. Based on the modification, the clause 24.1, 29 are considered and passed.

List of models:

No.	Model	Rated voltage	Rated power input	Corresponded Refrigerant	Original report
1	LEX 18 RC	220-230V~ 50Hz	49W	R22	12011244 001
2	LEX 18 ST	220-230V~ 50Hz	49W	R22	12011244 001
3	LEX 18 RC R410A	220-230V~ 50Hz	49W	R410A	12011244 001
4	LEX 18 ST R410A	220-230V~ 50Hz	49W	R410A	12011244 001
5	LEX 18 RC R407C	220-230V~ 50Hz	49W	R407C	12011244 001
6	LEX 18 ST R407C	220-230V~ 50Hz	49W	R407C	12011244 001

3. Add new controller WNG-24-FLAT (LEX) for LEX21RC, LEX21ST, LEX24RC, LEX24ST, LEX21RC R410A, LEX21ST R410A, LEX24RC R410A, LEX24ST R410A, LEX21RC R407C, LEX21ST R407C, LEX24RC R407C, LEX24ST R407C which is identical with controller for WNG21RC R410A, WNG21ST R410A, WNG24RC, WNG24ST, WNG24RC R410A , WNG24ST R410A except the silk-screen is different, the main components in the controller is same as before. The controller manufacturer is hualian. Details please refer to photo document. Based on the modification, the clause 24.1, 29 are considered and passed.

List of models:

No.	Model	Rated voltage	Rated power input	Corresponded Refrigerant	Original report
1	LEX 21 RC	220-230V~ 50Hz	58W	R22	12011244 001
2	LEX 21 ST	220-230V~ 50Hz	58W	R22	12011244 001
3	LEX 24 RC	220-230V~ 50Hz	58W	R22	12011244 001
4	LEX 24 ST	220-230V~ 50Hz	58W	R22	12011244 001
5	LEX 21 RC R410A	220-230V~ 50Hz	58W	R410A	12011244 001
6	LEX 21 ST R410A	220-230V~ 50Hz	58W	R410A	12011244 001
7	LEX 24 RC R410A	220-230V~ 50Hz	58W	R410A	12011244 001
8	LEX 24 ST R410A	220-230V~ 50Hz	58W	R410A	12011244 001
9	LEX 21 RC R407C	220-230V~ 50Hz	58W	R407C	12011244 001
10	LEX 21 ST R407C	220-230V~ 50Hz	58W	R407C	12011244 001
11	LEX 24 RC R407C	220-230V~ 50Hz	58W	R407C	12011244 001
12	LEX 24 ST R407C	220-230V~ 50Hz	58W	R407C	12011244 001

4. Add alternate transformer in controller for WNG25 series models, WNG30 series models, WNG32 series models, WNG36 series models. The transformer model is WDB48-1170. The manufacturer is DaZhong. Based on the modification, the clause 17, 24, 1, 29, 30 are considered and passed.

List of models:

No.	Model	Rated voltage	Rated power input	Corresponded Refrigerant	Original report
1	WNG25RC	220-230V~ 50Hz	75W	R22	12011244 001
2	WNG25ST	220-230V~ 50Hz	75W	R22	12011244 001
3	WNG30RC	220-230V~ 50Hz	135W	R22	12011244 001
4	WNG30ST	220-230V~ 50Hz	135W	R22	12011244 001
5	WNG32RC	220-230V~ 50Hz	135W	R22	12011244 001
6	WNG32ST	220-230V~ 50Hz	135W	R22	12011244 001
7	WNG25RC R407C	220-230V~ 50Hz	75W	R407C	12011244 001
8	WNG25ST R407C	220-230V~ 50Hz	75W	R407C	12011244 001
9	WNG30RC R407C	220-230V~ 50Hz	135W	R407C	12011244 001
10	WNG30ST R407C	220-230V~ 50Hz	135W	R407C	12011244 001
11	WNG25RC R410A	220-230V~ 50Hz	75W	R410A	12011244 001
12	WNG25ST R410A	220-230V~ 50Hz	75W	R410A	12011244 001
13	WNG30RC R410A	220-230V~ 50Hz	135W	R410A	12011244 001
14	WNG30ST R410A	220-230V~ 50Hz	135W	R410A	12011244 001
15	WNG32RC R410A	220-230V~ 50Hz	135W	R410A	12011244 001
16	WNG32ST R410A	220-230V~ 50Hz	135W	R410A	12011244 001
17	WNG36RC R410A	220-230V~ 50Hz	135W	R410A	12011244 001
18	WNG36ST R410A	220-230V~ 50Hz	135W	R410A	12011244 001

5. Add alternate transformer for ESF and ION for WNG25 series models, WNG30 series models, WNG32 series models, WNG36 series models. The transformer model is WDB41-1130. The manufacturer is DaZhong. Based on the modification, the clause 17, 24, 1, 29, 30 are considered and passed.

List of models:

No.	Model	Rated voltage	Rated power input	Corresponded Refrigerant	Original report
1	WNG25RC	220-230V~ 50Hz	75W	R22	12011244 001
2	WNG25ST	220-230V~ 50Hz	75W	R22	12011244 001
3	WNG30RC	220-230V~ 50Hz	135W	R22	12011244 001
4	WNG30ST	220-230V~ 50Hz	135W	R22	12011244 001
5	WNG32RC	220-230V~ 50Hz	135W	R22	12011244 001
6	WNG32ST	220-230V~ 50Hz	135W	R22	12011244 001
7	WNG25RC R407C	220-230V~ 50Hz	75W	R407C	12011244 001
8	WNG25ST R407C	220-230V~ 50Hz	75W	R407C	12011244 001
9	WNG30RC R407C	220-230V~ 50Hz	135W	R407C	12011244 001
10	WNG30ST R407C	220-230V~ 50Hz	135W	R407C	12011244 001
11	WNG25RC R410A	220-230V~ 50Hz	75W	R410A	12011244 001
12	WNG25ST R410A	220-230V~ 50Hz	75W	R410A	12011244 001
13	WNG30RC R410A	220-230V~ 50Hz	135W	R410A	12011244 001
14	WNG30ST R410A	220-230V~ 50Hz	135W	R410A	12011244 001
15	WNG32RC R410A	220-230V~ 50Hz	135W	R410A	12011244 001
16	WNG32ST R410A	220-230V~ 50Hz	135W	R410A	12011244 001
17	WNG36RC R410A	220-230V~ 50Hz	135W	R410A	12011244 001
18	WNG36ST R410A	220-230V~ 50Hz	135W	R410A	12011244 001

6. Add other components for WNG series and LEX series models, the components are fan motor capacitor, relay, X2 capacitor and Y capacitors. The ratings of the alternate components is same as previous components. There is no test required for the alternate components.

List of all models:

No.	Model name	Rated Voltage	Rated input	Refrigerant	Original report
WNG series					
1	WNG7RC	220-230V~ 50Hz	23W	R22	12011244 001
2	WNG7ST	220-230V~ 50Hz	23W	R22	12011244 001
3	WNG9RC	220-230V~ 50Hz	24W	R22	12011244 001
4	WNG9ST	220-230V~ 50Hz	24W	R22	12011244 001
5	WNG12RC	220-230V~ 50Hz	30W	R22	12011244 001
6	WNG12ST	220-230V~ 50Hz	30W	R22	12011244 001
7	WNG14RC	220-230V~ 50Hz	32W	R22	12011244 001
8	WNG14ST	220-230V~ 50Hz	32W	R22	12011244 001
9	WNG18RC	220-230V~ 50Hz	49W	R22	12011244 001
10	WNG18ST	220-230V~ 50Hz	49W	R22	12011244 001
11	WNG24RC	220-230V~ 50Hz	58W	R22	12011244 001
12	WNG24ST	220-230V~ 50Hz	58W	R22	12011244 001
13	WNG25RC	220-230V~ 50Hz	75W	R22	12011244 001
14	WNG25ST	220-230V~ 50Hz	75W	R22	12011244 001
15	WNG30RC	220-230V~ 50Hz	135W	R22	12011244 001
16	WNG30ST	220-230V~ 50Hz	135W	R22	12011244 001
17	WNG32RC	220-230V~ 50Hz	135W	R22	12011244 001
18	WNG32ST	220-230V~ 50Hz	135W	R22	12011244 001
19	WNG7RC R407C	220-230V~ 50Hz	23W	R407C	12011244 001
20	WNG7ST R407C	220-230V~ 50Hz	23W	R407C	12011244 001
21	WNG9RC R407C	220-230V~ 50Hz	24W	R407C	12011244 001
22	WNG9ST R407C	220-230V~ 50Hz	24W	R407C	12011244 001
23	WNG12RC R407C	220-230V~ 50Hz	32W	R407C	12011244 001
24	WNG12ST R407C	220-230V~ 50Hz	32W	R407C	12011244 001
25	WNG14RC R407C	220-230V~ 50Hz	36W	R407C	12011244 001
26	WNG14ST R407C	220-230V~ 50Hz	36W	R407C	12011244 001
27	WNG25RC R407C	220-230V~ 50Hz	75W	R407C	12011244 001
28	WNG25ST R407C	220-230V~ 50Hz	75W	R407C	12011244 001
29	WNG30RC R407C	220-230V~ 50Hz	135W	R407C	12011244 001
30	WNG30ST R407C	220-230V~ 50Hz	135W	R407C	12011244 001
31	WNG7RC R410A	220-230V~ 50Hz	23W	R410A	12011244 001
32	WNG7ST R410A	220-230V~ 50Hz	23W	R410A	12011244 001
33	WNG9RC R410A	220-230V~ 50Hz	24W	R410A	12011244 001
34	WNG9ST R410A	220-230V~ 50Hz	24W	R410A	12011244 001
35	WNG12RC R410A	220-230V~ 50Hz	32W	R410A	12011244 001
36	WNG12ST R410A	220-230V~ 50Hz	32W	R410A	12011244 001

37	WNG14RC R410A	220-230V~ 50Hz	36W	R410A	12011244 001
38	WNG14ST R410A	220-230V~ 50Hz	36W	R410A	12011244 001
39	WNG18RC R410A	220-230V~ 50Hz	49W	R410A	12011244 001
40	WNG18ST R410A	220-230V~ 50Hz	49W	R410A	12011244 001
41	WNG21RC R410A	220-230V~ 50Hz	58W	R410A	12011244 001
42	WNG21ST R410A	220-230V~ 50Hz	58W	R410A	12011244 001
43	WNG24RC R410A	220-230V~ 50Hz	58W	R410A	12011244 001
44	WNG24ST R410A	220-230V~ 50Hz	58W	R410A	12011244 001
45	WNG25RC R410A	220-230V~ 50Hz	75W	R410A	12011244 001
46	WNG25ST R410A	220-230V~ 50Hz	75W	R410A	12011244 001
47	WNG30RC R410A	220-230V~ 50Hz	135W	R410A	12011244 001
48	WNG30ST R410A	220-230V~ 50Hz	135W	R410A	12011244 001
49	WNG32RC R410A	220-230V~ 50Hz	135W	R410A	12011244 001
50	WNG32ST R410A	220-230V~ 50Hz	135W	R410A	12011244 001
51	WNG36RC R410A	220-230V~ 50Hz	135W	R410A	12011244 001
52	WNG36ST R410A	220-230V~ 50Hz	135W	R410A	12011244 001
LEX series					
53	LEX 7RC	220-230V~ 50Hz	23W	R22	12011244 002
54	LEX 7ST	220-230V~ 50Hz	23W	R22	12011244 002
55	LEX 9RC	220-230V~ 50Hz	24W	R22	12011244 002
56	LEX 9ST	220-230V~ 50Hz	24W	R22	12011244 002
57	LEX 12RC	220-230V~ 50Hz	32W	R22	12011244 002
58	LEX 12ST	220-230V~ 50Hz	32W	R22	12011244 002
59	LEX 14RC	220-230V~ 50Hz	36W	R22	12011244 002
60	LEX 14ST	220-230V~ 50Hz	36W	R22	12011244 002
61	LEX 18 RC	220-230V~ 50Hz	49W	R22	12011244 001
62	LEX 18 ST	220-230V~ 50Hz	49W	R22	12011244 001
63	LEX 21 RC	220-230V~ 50Hz	58W	R22	12011244 001
64	LEX 21 ST	220-230V~ 50Hz	58W	R22	12011244 001
65	LEX 24 RC	220-230V~ 50Hz	58W	R22	12011244 001
66	LEX 24 ST	220-230V~ 50Hz	58W	R22	12011244 001
67	LEX 7RC R410A	220-230V~ 50Hz	23W	R410A	12011244 002
68	LEX 7ST R410A	220-230V~ 50Hz	23W	R410A	12011244 002
69	LEX 9RC R410A	220-230V~ 50Hz	24W	R410A	12011244 002
70	LEX 9ST R410A	220-230V~ 50Hz	24W	R410A	12011244 002
71	LEX 12RC R410A	220-230V~ 50Hz	32W	R410A	12011244 002
72	LEX 12ST R410A	220-230V~ 50Hz	32W	R410A	12011244 002

73	LEX 14RC R410A	220-230V~ 50Hz	36W	R410A	12011244 002
74	LEX 14ST R410A	220-230V~ 50Hz	36W	R410A	12011244 002
75	LEX 18 RC R410A	220-230V~ 50Hz	49W	R410A	12011244 001
76	LEX 18 ST R410A	220-230V~ 50Hz	49W	R410A	12011244 001
77	LEX 21 RC R410A	220-230V~ 50Hz	58W	R410A	12011244 001
78	LEX 21 ST R410A	220-230V~ 50Hz	58W	R410A	12011244 001
79	LEX 24 RC R410A	220-230V~ 50Hz	58W	R410A	12011244 001
80	LEX 24 ST R410A	220-230V~ 50Hz	58W	R410A	12011244 001
81	LEX 7RC R407C	220-230V~ 50Hz	23W	R407C	12011244 002
82	LEX 7ST R407C	220-230V~ 50Hz	23W	R407C	12011244 002
83	LEX 9RC R407C	220-230V~ 50Hz	24W	R407C	12011244 002
84	LEX 9ST R407C	220-230V~ 50Hz	24W	R407C	12011244 002
85	LEX 12RC R407C	220-230V~ 50Hz	32W	R407C	12011244 002
86	LEX 12ST R407C	220-230V~ 50Hz	32W	R407C	12011244 002
87	LEX 14RC R407C	220-230V~ 50Hz	36W	R407C	12011244 002
88	LEX 14ST R407C	220-230V~ 50Hz	36W	R407C	12011244 002
89	LEX 18 RC R407C	220-230V~ 50Hz	49W	R407C	12011244 001
90	LEX 18 ST R407C	220-230V~ 50Hz	49W	R407C	12011244 001
91	LEX 21 RC R407C	220-230V~ 50Hz	58W	R407C	12011244 001
92	LEX 21 ST R407C	220-230V~ 50Hz	58W	R407C	12011244 001
93	LEX 24 RC R407C	220-230V~ 50Hz	58W	R407C	12011244 001
94	LEX 24 ST R407C	220-230V~ 50Hz	58W	R407C	12011244 001

IEC 60335-2-40			
Clause	Requirement - Test	Result - Remark	Verdict
17	OVERLOAD PROTECTION OF TRANSFORMERS AND ASSOCIATED CIRCUITS		P
	No excessive temperatures in transformer or associated circuits in event of short-circuits likely to occur in normal use		P
	Appliance supplied with 1,06 or 0,94 times rated voltage and the most unfavourable short-circuit or overload likely to occur in normal use applied	(See appended table)	P
	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	No safety extra-low voltage circuits.	N/A
	Temperature of the winding not exceeding the value specified in table 6		P
	Except fail-safe transformer complying 15.5 of IEC 61558-1 (IEC 60335-1/A2:1999)		N/A
21	MECHANICAL STRENGTH		P
	Appliance has adequate mechanical strength and is constructed as to withstand rough handling (safety requirements of ISO 5149 apply, IEC 60335-2-40:1995)		P
	No damage after three blows applied to various parts of the enclosure, impact energy $0,5 \pm 0,04$ Nm		P
	If necessary, supplementary or reinforced insulation subjected to the electric strength test of 16.3		P
	If necessary, repetition of groups of three blows on a new sample		N/A
22	CONSTRUCTION		P
22.1	Appliance marked with the first numeral of the IP system: relevant requirements of IEC 529 are fulfilled	IP20 (not marked).	P
22.2	Stationary appliance: means to provide all-pole disconnection from the supply provided, the following means being available:		P
	- a supply cord fitted with a plug		P
	- a switch complying with 24.3		N/A
	- a statement in the instruction sheet that a disconnection incorporated in the fixed wiring is to be provided		N/A
	- an appliance coupler		N/A

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Clause	Requirement - Test	Result - Remark	Verdict
	Single-phase Class I appliance with heating elements, intended to be permanently connected to fixed wiring, incorporating single-pole switches or single-pole protective devices for the disconnection of the heating element(s): the switches/devices being connected in 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
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		N/A
22.6	Electrical insulation not affected by condensing water or leaking liquid		P
	Electrical insulation of Class II appliances not affected in case of a hose rupture or seal leak		N/A
	Electrical insulation not affected by snow penetration to the appliance enclosure (IEC 60335-2-40:1995)	Indoor unit.	N/A
22.7	Adequate safeguards against the risk of excessive pressure in appliances provided with steam-producing devices	No over-pressure expected, which could lead to a hazardous situation. Refrigerant circuit is intrinsic pressure safe according to ISO 5149. See also clause 21.	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 which are likely to be cleaned in normal use		P
22.9	Insulation, internal wiring, windings, commutators and slip rings not exposed to oil, grease or similar substances		P
	Adequate insulating properties of oil or grease to which insulation is exposed		P
22.10	Location or protection of reset buttons of non-self-resetting controls is so that accidental resetting is unlikely	No non-self-resetting controls employed	N/A
22.11	Reliable fixing of non-detachable parts which provide the necessary degree of protection against electric shock, moisture or contact with moving parts		P
	Obvious locked position of snap-in devices used for fixing such parts		N/A

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Clause	Requirement - Test	Result - Remark	Verdict
	No deterioration of the fixing properties of snap-in devices used in parts which are likely to be removed during installation or servicing		N/A
	Tests		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 of which being so that an axial pull is unlikely to be applied		N/A
	Axial force 30 N applied to parts, the shape of which 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 operators 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	No sharp edges. Corners are well rounded.	P
	No exposed pointed ends of self tapping screws etc., liable to be touched by the user in normal use or during user maintenance	Checked	P
22.15	Storage hooks and the like for flexible cords smooth and well rounded		N/A
22.16	Automatic cord reels cause no undue abrasion or damage to the sheath of the flexible cord, no breakage of conductors strands, no undue wear of contacts	No automatic cord reels	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	No spacers	N/A
22.18	Current-carrying parts and other metal parts resistant to corrosion under normal conditions of use		P
22.19	Driving belts not used as electrical insulation		N/A
22.20	Direct contact between live parts and thermal insulation effectively prevented, unless material used is non-corrosive, non-hygroscopic and non-combustible		N/A
22.21	Wood, cotton, silk, ordinary paper and fibrous or hygroscopic material used as insulation, unless impregnated	No such materials used as insulator	N/A
22.22	Asbestos not used in the construction of the appliance		P

IEC 60335-2-40			
Clause	Requirement - Test	Result - Remark	Verdict
	Asbestos is used, but the liberation of dust of impregnated asbestos or of asbestos fibres into the surrounding air adequately prevented		N/A
22.23	Oils containing polychlorinated biphenyl (PCB) not used		P
22.24	Bare heating elements adequately supported to prevent contact with accessible metal parts in case of rupture or sagging (IEC 60335-2-40:1995)	No bare heating elements employed.	N/A
	Bare heating elements only used with metal enclosures (wood or composite enclosures not allowed) (IEC 60335-2-40:1995)		N/A
22.25	Sagging heating conductors cannot come into contact with accessible metal parts		N/A
22.26	The insulation between parts operating at safety extra-low voltage and other live parts complies with the requirements for double or reinforced insulation	No SELV circuits employed	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	Class I appliances	N/A
22.29	Class II appliances permanently connected to fixed wiring so constructed that the required degree of protection against electric shock is maintained after installation	Class I appliances	N/A
22.30	Parts serving as supplementary or reinforced insulation fixed so that they cannot be removed without being seriously damaged, or		P
	So constructed that they cannot be replaced in an incorrect position, and so that if they are omitted, the appliance is rendered inoperable or manifestly incomplete		P
22.31	Creepage distances and clearances over supplementary and reinforced insulation not reduced below values specified in 29.1 as a result of wear		P
	Creepage distances and clearances over supplementary or reinforced insulation not reduced to less than 50% of values specified in 29.1 if wires, screws etc. becomes loose		P
22.32	Supplementary and reinforced insulation designed or protected against deposition of dirt or dust		P
	Ceramic material not tightly sintered, similar material or beads alone not used as supplementary or reinforced insulation		P

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Clause	Requirement - Test	Result - Remark	Verdict
	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 29.1		N/A
	Oxygen bomb test at 70 °C for 96 h and 16 h at room temperature		N/A
	See Note ("In case of doubt") (IEC 60335-1/A2:1999)		N/A
22.33	Conductive liquids which are or may become accessible in normal use are not in direct contact with live parts	Checked by clause 15	P
	Conductive liquids are not in direct contact with basic insulation or reinforced insulation in Class II constructions	Condensing water cannot become in contact with basic or reinforced insulation	P
	Conductive liquids in contact with live parts, not in direct contact with reinforced insulation in class II construction (IEC 60335-1/A2:1999)		N/A
22.34	Shafts of operating knobs, handles, levers etc. not live, unless the shaft is not accessible when the part is removed		N/A
22.35	Handles, levers and knobs, held or actuated in normal use, not becoming live in the event of an insulation fault		N/A
	Such parts being of metal, and their shafts or fixings are likely to become live in the event of an insulation fault, they are either adequately covered by insulation material, or their accessible parts are separated from their shafts or fixings by supplementary insulation		N/A
	This requirement does not apply to handles, levers and knobs on stationary appliances other than those of electrical components, provided they are either reliably connected to an earthing terminal or earthing contact, or separated from live parts by earthed metal		N/A
22.36	Handles continuously held in the hand in normal use are so constructed that when gripped as in normal use, the operators hand is not likely to touch metal parts, unless they are separated from live parts by double or reinforced insulation	No handles, which are continuously held.	N/A
22.37	Capacitors in Class II appliances not connected to accessible metal parts, unless complying with 22.42	Class I appliance. However, capacitors are separated from accessible metal parts by double or reinforced insulation.	N/A
	Metal casings of capacitors in Class II appliances separated from accessible metal parts by supplementary insulation, unless complying with 22.42		N/A

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Clause	Requirement - Test	Result - Remark	Verdict
22.38	Capacitors not connected between the contacts of a thermal cut-out		P
22.39	Lamp holders only used for the connection of lamps	No lamp holder employed	N/A
22.40	Motor-operated appliances and combined appliances, intended to be moved while in operation, are fitted with a switch to control the motor	Fixed appliance.	N/A
22.41	Mercury switches mounted according to the requirement	Mercury switches not employed.	N/A
22.42	Protective impedance consisting of at least two separate components		P
	Values specified in 8.1.4 not exceeded if any one of the components is short-circuited or open-circuited		P
22.43	Appliances adjustable for different voltages, accidental changing of the setting of the voltage unlikely to occur	Single supply voltage	P
22.44	Appliances shall not have an enclosure likely to be treated as a toy by children (IEC 60335-1/A2:1999)		P
22.101	Appliances intended to be fixed, securely fixed (IEC 60335-2-40:1995)		P
22.102	Double thermal cut-out in appliances with supplementary heating elements (the first one shall be a self-resetting and the other a non-self-resetting thermal cut-out) (IEC 60335-2-40:1995)		N/A
	Thermal cut-outs of the capillary type open in the event of leakage of the capillary tube (IEC 60335-2-40:1995)		N/A
	Thermal cut-outs comply with 24.3 (switches) (IEC 60335-2-40:1995)		N/A
	Thermal cut-outs operating in Cl. 19. Shall be of the non-self-resetting type (IEC 60335-2-40:1995)		N/A
22.103	Non-self-resetting cut-outs independent of other control devices (IEC 60335-2-40:1995)		N/A
22.104	Containers of sanitary hot water heat pumps withstand twice the permissible pressure in closed containers or 0,15 MPa in open containers, without leakage or rupture (IEC 60335-2-40:1995)		N/A
22.105	Air or vapour cushion in closed containers not exceeding the 10% (IEC 60335-2-40:1995)		N/A
22.106	Pressure relief devices operating at 0,1 MPa over the permissible pressure (IEC 60335-2-40:1995)		N/A
22.107	Water outlet systems of open containers free from obstructions causing over-pressure (IEC 60335-2-40:1995)		N/A

IEC 60335-2-40			
Clause	Requirement - Test	Result - Remark	Verdict
	Vented containers of sanitary hot water heat pumps always open to the atmosphere through appropriate aperture (IEC 60335-2-40:1995)		N/A
22.108	Not vented open containers are subjected to a test in accordance with 22.104 to a vacuum of 33 kPa for 15 min (IEC 60335-2-40:1995)		N/A
22.109	Replacement of non-self-resetting thermal cut-outs does not damage other connections (IEC 60335-2-40:1995)		N/A
22.110	Non-self-resetting thermal cut-outs operate without short-circuiting live parts of different potential and without causing contact between live parts and the enclosure (IEC 60335-2-40:1995)		N/A
	Test repeated five times without blowing a 3 A fuse which connects the appliance to earth (IEC 60335-2-40:1995)		N/A
	Electric strength test as specified in 16.3 for supplementary heating elements (IEC 60335-2-40:1995)		N/A
22.111	Manual resetting of thermostats not necessary after power supply interruption (IEC 60335-2-40:1995)		P
24	COMPONENTS		P
24.1	Components comply with safety requirements in relevant IEC standards	See appended table	P
	Motor-compressors not tested according to IEC 60335-2-34 (not necessary to meet all requirements of IEC 60335-2-34) (IEC 60335-2-40:1995)		N/A
29	CREEPAGE DISTANCES, CLEARANCES AND DISTANCES THROUGH INSULATION		P
29.1	Creepage distances and clearances not less than specified in table 13	(See appended table)	P
	Values increased by 4 mm in case of reinforced insulation when resonance voltage		N/A
	Creepage distances and clearances for circuits with voltages greater than 250 V r.m.s. (345 V peak) comply with table (IEC 60335-2-40:1995)		P
	For motor-compressors with working voltages ≤ 250 V, 29.1 of IEC 60335-2-34 applies (IEC 60335-2-40:1995)		N/A
	Creepage distances and clearances for motor-compressors with working voltages > 250 V r.m.s. and ≤ 600 V r.m.s. not less than stated in Table 101 (IEC 60335-2-40:1995)		P

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Clause	Requirement - Test	Result - Remark	Verdict
29.2	Distances through insulation not less than 1,0 mm for supplementary insulation, and 2,0 mm for reinforced insulation. Interpretation of this requirement: see Interpretation Sheet I-SH 02, August, 1994		N/A
29.2.1	Supplementary insulation applied in thin sheet form, other than mica or similar scaly material, consists of at least two layers, each of the layers withstands the electric strength test of 16.3 for supplementary insulation		N/A
	Reinforced insulation applied in thin sheet form, other than mica or similar scaly material, consists of at least three layers, and any two of the layers together withstand the electric strength test of 16.3 for reinforced insulation		N/A
29.2.2	Supplementary or reinforced insulation inaccessible and does not exceed the maximum permissible temperature values		N/A
	Supplementary or reinforced insulation, after conditioning as specified, withstands the electric strength test as specified in 16.3, both at the oven temperature and room temperature		N/A
30	RESISTANCE TO HEAT, FIRE AND TRACKING		P
30.1	See Annex H		P
	Relevant external parts of non-metallic material		P
	Parts supporting live parts and parts providing supplementary or reinforced insulation sufficiently resistant to heat		P
	Ball-pressure test with a force of 20 N, diameter of impression not exceeding 2 mm :		P
	External parts: at 75 °C		N/A
	Parts supporting live parts: at 125 °C	Transformer bobbin	P
	Parts providing supplementary or reinforced insulation: temperature (°C) :		N/A
30.2	Relevant parts of non-metallic material adequately resistant to ignition and spread of fire		P
30.2.1	Possible burning test of relevant parts according to Annex J		N/A
	Glow-wire test of Annex K made at temperature 550 °C		N/A
30.2.3	Appliances operated while unattended, possible bad-connection test according to Annex L		N/A
	Glow-wire test of Annex K made at 850 °C	Transformer bobbin	P
	Possible needle-flame test according to Annex M		N/A

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Clause	Requirement - Test	Result - Remark	Verdict
30.2.4	Parts of non-metallic material within a distance of 50 mm from parts not withstanding the tests of 30.2.2 or 30.2.3, subjected to the needle-flame test of Annex M		N/A
30.3	Relevant insulating material have adequate resistance to tracking		P
	Tracking test at 175 V according to Annex N	Transformer bobbin	P
	Tracking test at 250 V according to Annex N		N/A
	No hazard other than fire, tracking test at 175 V according to Annex N, and in addition needle-flame test of surrounding parts according to Annex M		P
	Possible needle-flame test of non-metallic material		N/A

17.1.a	TABLE: OVERLOAD PROTECTION			P
	at 1,06 – 0,94 times rated voltage (V).....:	1,06x230=243,8V		-
	Ambient temperature(°C).....:	25		-
	Test model.....:	WDB41-1130 (180A038-00)		-
	Test condition.....:	Short-circuit of secondary winding		
Thermal couples location:		Measured temperature (°C)	Limit temperature (°C)	Result
Primary Winding		107	225	P
Secondary Winding		122	225	P
Remark 1: 2 minutes later, the protector was operated.				
Remark 2: Resistance method is not applicable due to severe complications are involved.				

17.1.b	TABLE: OVERLOAD PROTECTION			P
	at 1,06 – 0,94 times rated voltage (V).....:	1,06x230=243,8V		-
	Ambient temperature(°C).....:	25		-
	Test model.....:	WDB48-1170 (180A037-00)		-
	Test condition.....:	Short-circuit of secondary winding		
Thermal couples location:		Measured temperature (°C)	Limit temperature (°C)	Result
Primary Winding		128	225	P
Secondary Winding		116	225	P
Remark 1: 2 minutes later, the protector was operated.				
Remark 2: Resistance method is not applicable due to severe complications are involved.				

IEC 60335-2-40			
Clause	Requirement - Test	Result - Remark	Verdict

24.1	TABLE: COMPONENTS				P
Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard	Mark(s) of conformity
<p>Remark 1: For thermal cut-outs, thermal links of fan motors and transformers which have been approved according to relevant IEC standards, the manufacturer, types and characters not listed in the CDF but should be in this scope authorized by original certification bodies.</p> <p>Remark 2: Only new alternate components are listed.</p> <p>Remark 3: "*" means RC, ST, R22, R407C, R410A.</p>					
Built-in components with windings: (motors, transformers, magnetic coils etc.)					

Controller for LEX 18 *	HuaLian	WNG-18-FLAT(LEX)	-	IEC60335-2-40	Test with appliance
Controller for LEX 21/24*	HuaLian	WNG-24-FLAT(LEX)	-	IEC60335-2-40	Test with appliance
Safety Component in Controller for model WNG7*, WNG9*, WNG12*, WNG14*, LEX7*, LEX9*, LEX12*, LEX14*					
Capacitor for motor	Dahua	CBB6-1	450VAC , 1 μ F \pm 5% Temp : 70°C	IEC 60252-1	TUV 50033889
alternate	HAOYE	MKPS105	450VAC , 1 μ F \pm 5% Temp : 70°C	IEC 60252-1	TUV 50035566
Safety Component in Controller for model WNG18*, WNG21*, WNG24*, LEX18*, LEX21*, LEX24*					
Relay for OU fan motor and heater	HKE	HRS3-S-DC12V-A	250V, 5A Temp : 55°C	IEC 60730	TUV 50098412
X2 capacitor C24	Tenta	MEX	275VAC, 0,047 μ F Temp 100°C	IEC 60384-14	VDE: 119119
alternate	ISKRA Kondenzatorji	KNB1530	275VAC, 0,047 μ F Temp 100°C	IEC 60384-14	VDE: 139447
alternate	ISKRA Kondenzatorji	KNB1560	275VAC, 0,047 μ F Temp 110°C	IEC 60384-14	VDE: 139106
alternate	Carli	MPX	275VAC, 0,047 μ F Temp 100°C	IEC 60384-14	VDE: 40008520
alternate	Faratronic	MKP61 / MKP62	275VAC, 0,047 μ F Temp 100°C	IEC 60384-14	VDE: 40000358
alternate	Hsuan Tai	MCY	275VAC, 0,047 μ F Temp 100°C	IEC 60384-14	VDE 125205

IEC 60335-2-40					
Clause	Requirement - Test			Result - Remark	Verdict
Alternate	Evox Rifa	PHE840 M / PHE840 E	275VAC, 0,047µF Temp 105°C	IEC 60384-14	ENEC 519125 ENEC 519040
alternate	JingYu	CBBX2	275VAC, 0,047µF Temp 100°C	IEC 60384-14	VDE 40006514
alternate	Ultra Tech Xiphi	HQX	275VAC, 0,047µF Temp 100°C	IEC 60384-14	VDE 094656
X2 capacitor C25	Tenta	MEX	275VAC, 0,1µF Temp 100°C	IEC 60384-14	VDE: 119119
alternate	ISKRA Kondenzatorji	KNB1530	275VAC, 0,1µF Temp 100°C	IEC 60384-14	VDE: 139447
alternate	ISKRA Kondenzatorji	KNB1560	275VAC, 0,1µF Temp 110°C	IEC 60384-14	VDE: 139106
alternate	Carli	MPX	275VAC, 0,1µF Temp 100°C	IEC 60384-14	VDE: 40008520
alternate	Faratronic	MKP61 / MKP62	275VAC, 0,1µF Temp 100°C	IEC 60384-14	VDE: 40000358
alternate	Hsuan Tai	MCY	275VAC, 0,1µF Temp 100°C	IEC 60384-14	VDE 125205
alternate	Evox Rifa	PHE840 M / PHE840 E	275VAC, 0,1µF Temp 105°C	IEC 60384-14	ENEC 519125 ENEC 519040
alternate	JingYu	CBBX2	275VAC, 0,1µF Temp 100°C	IEC 60384-14	VDE 40006514
alternate	Ultra Tech Xiphi	HQX	275VAC, 0,1µF Temp 100°C	IEC 60384-14	VDE 094656
X2 capacitor C100-1	Tenta	MEX	275VAC, 0,47µF Temp 100°C	IEC 60384-14	VDE: 119119
alternate	ISKRA Kondenzatorji	KNB1530	275VAC, 0,47µF Temp 100°C	IEC 60384-14	VDE: 139447
alternate	ISKRA Kondenzatorji	KNB1560	275VAC, 0,47µF Temp 110°C	IEC 60384-14	VDE: 139106
alternate	Carli	MPX	275VAC, 0,47µF Temp 100°C	IEC 60384-14	VDE: 40008520
alternate	Faratronic	MKP61 / MKP62	275VAC, 0,47µF Temp 100°C	IEC 60384-14	VDE: 40000358
alternate	Hsuan Tai	MCY	275VAC, 0,47µF Temp 100°C	IEC 60384-14	VDE 125205
alternate	Evox Rifa	PHE840 M / PHE840 E	275VAC, 0,47µF Temp 105°C	IEC 60384-14	ENEC 519125 ENEC 519040
alternate	JingYu	CBBX2	275VAC, 0,47µF Temp 100°C	IEC 60384-14	VDE 40006514

IEC 60335-2-40					
Clause	Requirement - Test		Result - Remark		Verdict
alternate	Ultra Tech Xiphi	HQX	275VAC, 0,47 μ F Temp 100°C	IEC 60384-14	VDE 094656
Y2 capacitor C26	ISKRA	KNB2520	330pF, 250VAC Temp 100°C	IEC 60384-14	VDE: 139722
alternate	TDK	CS 331K	330pF,250VAC Temp 85°C	IEC 60384-14	VDE: 138559
alternate	Murata	KH 331K	330pF,250VAC Temp 85°C	IEC 60384-14	VDE 40002796
alternate	Murata	KY 331K	330pF,250VAC Temp 85°C	IEC 60384-14	VDE 40006273
alternate	JAY-NAY.	JY 331K	330pF,250VAC Temp 85°C	IEC 60384-14	VDE: 40001827
alternate	Xiamen Wanming	HM 331K	330pF,250VAC Temp 85°C	IEC 60384-14	VDE: 40000263
Y2 capacitor C23	ISKRA	KNB2520	3,3nF, 250VAC Temp 100°C	IEC 60384-14	VDE: 139722
alternate	TDK	CS 332M	3,3nF,250VAC Temp 125°C	IEC 60384-14	VDE: 138559
alternate	Murata	KH 332M	3,3nF,250VAC Temp 125°C	IEC 60384-14	VDE 40002796
alternate	Murata	KY 332M	3,3nF,250VAC Temp 125°C	IEC 60384-14	VDE 40006273
alternate	JAY-NAY.	JY 332M	3,3nF,250VAC Temp 125°C	IEC 60384-14	VDE: 40001827
alternate	Xiamen Wanming	HM 332M	3,3nF,250VAC Temp 125°C	IEC 60384-14	VDE: 40000263
Safety Component in Controller for model WNG25*, WNG30*, WNG32*, WNG36*					
Transformer for ESF and ION	DaZhong	WDB41-1130 (180A038-00)	Pri: 563 \pm 10% Ω Sec: 4 \pm 5% Ω Class B	IEC 60335-2-40	Tested with appliance
Thermal link in transformer	SET	F3	250V, 1A, 125°C	IEC 60691	VDE4000 4041
alternate	Wancheng	P2	250V, 1A, 125°C	IEC 60691	TUV 50069489
Transformer In controller	DaZhong	WDB48-1170 (180A037-00)	Pri: 260 \pm 10% Ω Sec: 1,4 \pm 5% Ω Class B	IEC 60335-2-40	Tested with appliance
Thermal link in transformer	DaZhong	A2	AC250V, 2A ,125°C	IEC 60691	TUV 50080032

IEC 60335-2-40					
Clause	Requirement - Test		Result - Remark		Verdict
Alternate	Aupo	A3	AC250V ,2A ,12 5°C	IEC 60691	VDE 40005586
alternate	SET	K3	AC250V, 2A ,125°C	IEC 60691	VDE 40017055
alternate	Xingcheng	RH-A3	AC250V, 2A ,125°C	IEC 60691	TUV 02134134
Relay for OU motor and heater	hongfa	JZC-33F	250V, 5A Temp: 55°C	IEC 60730	VDE 125661
X2 capacitor C41	Tenta	MEX	275VAC, 0,033µF Temp 100°C	IEC 60384-14	VDE: 119119
alternate	ISKRA Kondenzatorji	KNB1530	275VAC, 0,033µF Temp 100°C	IEC 60384-14	VDE: 139447
alternate	ISKRA Kondenzatorji	KNB1560	275VAC, 0,033µF T Temp 110°C	IEC 60384-14	VDE: 139106
alternate	Carli	MPX	275VAC, 0,033µF Temp 100°C	IEC 60384-14	VDE: 40008520
alternate	Faratronic	MKP61 / MKP62	275VAC, 0,033µF Temp 100°C	IEC 60384-14	VDE: 40000358
alternate	Hsuan Tai	MCY	275VAC, 0,033µF Temp 100°C	IEC 60384-14	VDE 125205
alternate	Evox Rifa	PHE840 M / PHE840 E	275VAC, 0,033µF Temp 105°C	IEC 60384-14	ENEC 519125 ENEC 519040
alternate	JingYu	CBBX2	275VAC, 0,033µF Temp 100°C	IEC 60384-14	VDE 40006514
alternate	Ultra Tech Xiphi	HQX	275VAC, 0,033µF Temp 100°C	IEC 60384-14	VDE 094656
X2 capacitor C43	Tenta	MEX	275VAC, 0,1µF Temp 100°C	IEC 60384-14	VDE: 119119
alternate	ISKRA Kondenzatorji	KNB1530	275VAC, 0,1µF Temp 100°C	IEC 60384-14	VDE: 139447
alternate	ISKRA Kondenzatorji	KNB1560	275VAC, 0,1µF Temp 110°C	IEC 60384-14	VDE: 139106
alternate	Carli	MPX	275VAC, 0,1µF Temp 100°C	IEC 60384-14	VDE: 40008520
alternate	Faratronic	MKP61 / MKP62	275VAC, 0,1µF Temp 100°C	IEC 60384-14	VDE: 40000358

IEC 60335-2-40					
Clause	Requirement - Test			Result - Remark	Verdict
Alternate	Hsuan Tai	MCY	275VAC, 0,1µF Temp 100°C	IEC 60384-14	VDE 125205
alternate	Evox Rifa	PHE840 M / PHE840 E	275VAC, 0,1µF Temp 105°C	IEC 60384-14	ENEC 519125 ENEC 519040
alternate	JingYu	CBBX2	275VAC, 0,1µF Temp 100°C	IEC 60384-14	VDE 40006514
alternate	Ultra Tech Xiphi	HQX	275VAC, 0,1µF Temp 100°C	IEC 60384-14	VDE 094656
X2 capacitor C47	Tenta	MEX	275VAC, 0,68µF Temp 100°C	IEC 60384-14	VDE: 119119
alternate	ISKRA Kondenzatorji	KNB1530	275VAC, 0,68µF Temp 100°C	IEC 60384-14	VDE: 139447
alternate	ISKRA Kondenzatorji	KNB1560	275VAC, 0,68µF Temp 110°C	IEC 60384-14	VDE: 139106
alternate	Carli	MPX	275VAC, 0,68µF Temp 100°C	IEC 60384-14	VDE: 40008520
alternate	Faratronic	MKP61 / MKP62	275VAC, 0,68µF Temp 100°C	IEC 60384-14	VDE: 40000358
alternate	Hsuan Tai	MCY	275VAC, 0,68µF Temp 100°C	IEC 60384-14	VDE 125205
alternate	Evox Rifa	PHE840 M / PHE840 E	275VAC, 0,68µF Temp 105°C	IEC 60384-14	ENEC 519125 ENEC 519040
alternate	JingYu	CBBX2	275VAC, 0,68µF Temp 100°C	IEC 60384-14	VDE 40006514
alternate	Ultra Tech Xiphi	HQX	275VAC, 0,68µF Temp 100°C	IEC 60384-14	VDE 094656

29.1	TABLE: MINIMUM CREEPAGE DISTANCES AND CLEARANCES								P
creepage (cr) and clearance (cl) distance (mm):	Class III appliances		Other appliances, working voltage:						Remark
			< 130 V		130-250 V		250-440 V		
	cr	cl	cr	cl	cr	cl	cr	cl	
Between live parts of different potential									
- if protected against deposition of dirt	1,0	1,0	1,0	1,0	<u>3,0</u>	<u>3,0</u>	2,0	2,0	P
- if not protected against deposition of dirt	2,0	1,5	2,0	1,5	<u>4,0</u>	<u>4,0</u>	<u>4,0</u>	<u>3,0</u>	P
- if lacquered or enameled windings	1,0	1,0	1,5	1,5	<u>4,0</u>	<u>4,0</u>	3,0	3,0	P
- for positive temperature coefficient (PTC) resistors including their connecting wires, if protected against deposition of moisture or dirt	—	—	1,0	1,0	1,0	1,0	—	—	N/A

IEC 60335-2-40			
Clause	Requirement - Test	Result - Remark	Verdict

CI and Cr measured between:

1. Input of transformer;

2. L and N on PCB;

The shortest value is considered.

Between live parts and other metal parts over basic insulation:

- if protected against deposition of dirt:									N/A
- if of ceramic material, pure mica and similar material	1,0	1,0	1,0	1,0	2,5	2,5	—	—	N/A
- if of other material	1,5	1,0	1,5	1,0	3,0	2,5	—	—	N/A
- if not protected against deposition of dirt	2,0	1,5	2,0	1,5	4,0	4,0	—	—	P
- if the live parts are lacquered or nameled windings	1,0	1,0	1,5	1,5	4,0	4,0	—	—	P
- at the end of tubular sheathed-type heating elements	—	—	1,0	1,0	1,0	1,0	—	—	N/A

CI and Cr measured between:

1. Winding of transformer and enclosure/body;

The shortest value is considered.

30.1	Table: Ball pressure test			P
Part	Test temperature(°C)		Impression diameter(mm)	Limit (mm)
Transformer bobbin (WDB41-1130)	125		1,0	2,0
Transformer bobbin (WDB48-1170)	125		1,1	2,0

30.2	Table: resistance to heat, fire and tracking, glow-wire test				P			
	Tracking test (V)		Glow-wire test(°C)			--		
Part	175	250	Test temperature (°C)	Result				
				Ti=	Te=	Max high of flame	Ignition of tissue paper	Other observation
Transformer bobbin (WDB41-1130)	175	--	850	--	--	--	--	Not burning
Transformer bobbin (WDB48-1170)	175	--	850	--	--	--	--	Not burning

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Model: WNG series models
LEX series models (see report)



Picture 1

Remark: pic.1-3 are the outlook enclosure for models LEX series models.



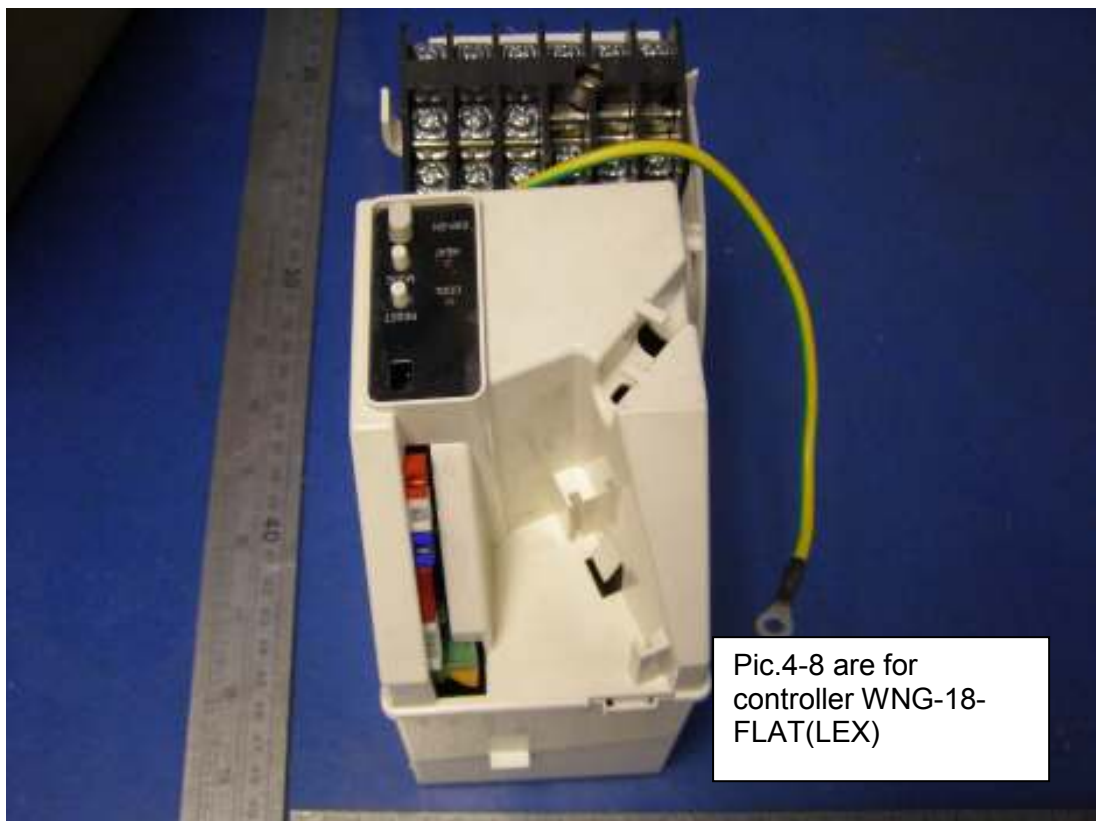
Picture 2

Report Number: 12011244 003

Model: WNG series models
LEX series models (see report)



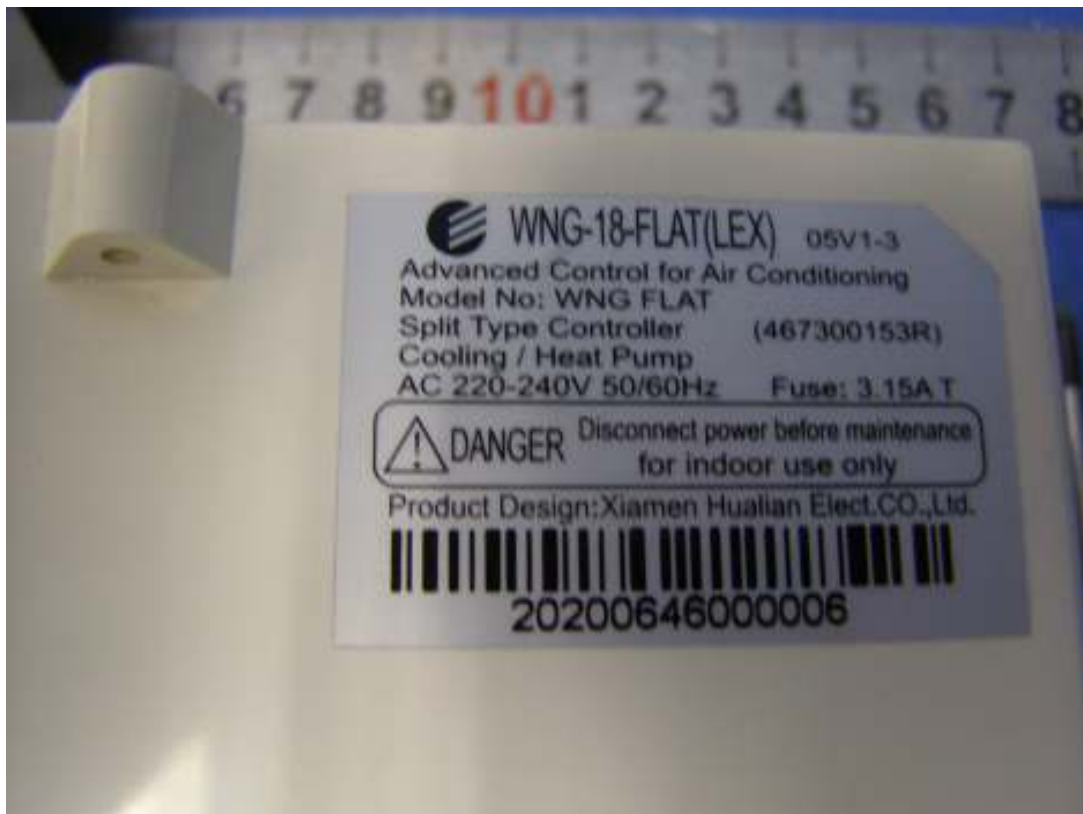
Picture 3



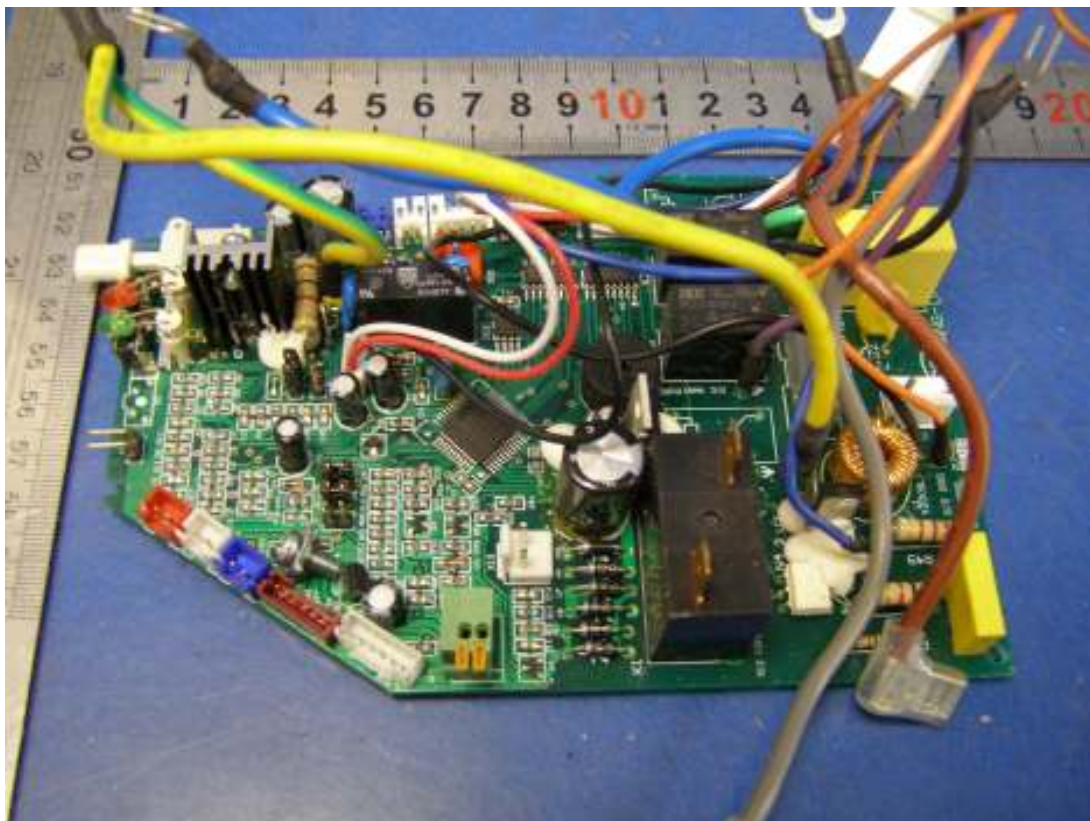
Picture 4

Report Number: 12011244 003

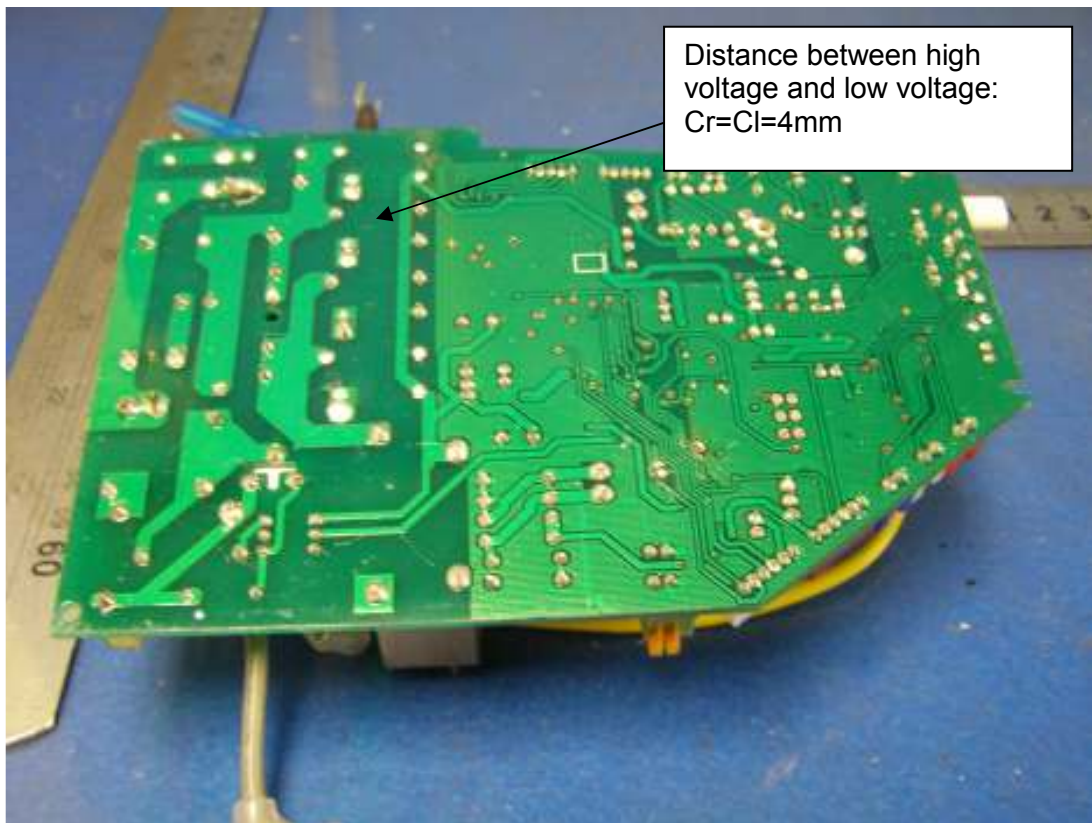
Model: WNG series models
LEX series models (see report)



Picture 5



Picture 6



Picture 7



Picture 8

Report Number: 12011244 003

Model: WNG series models
LEX series models (see report)



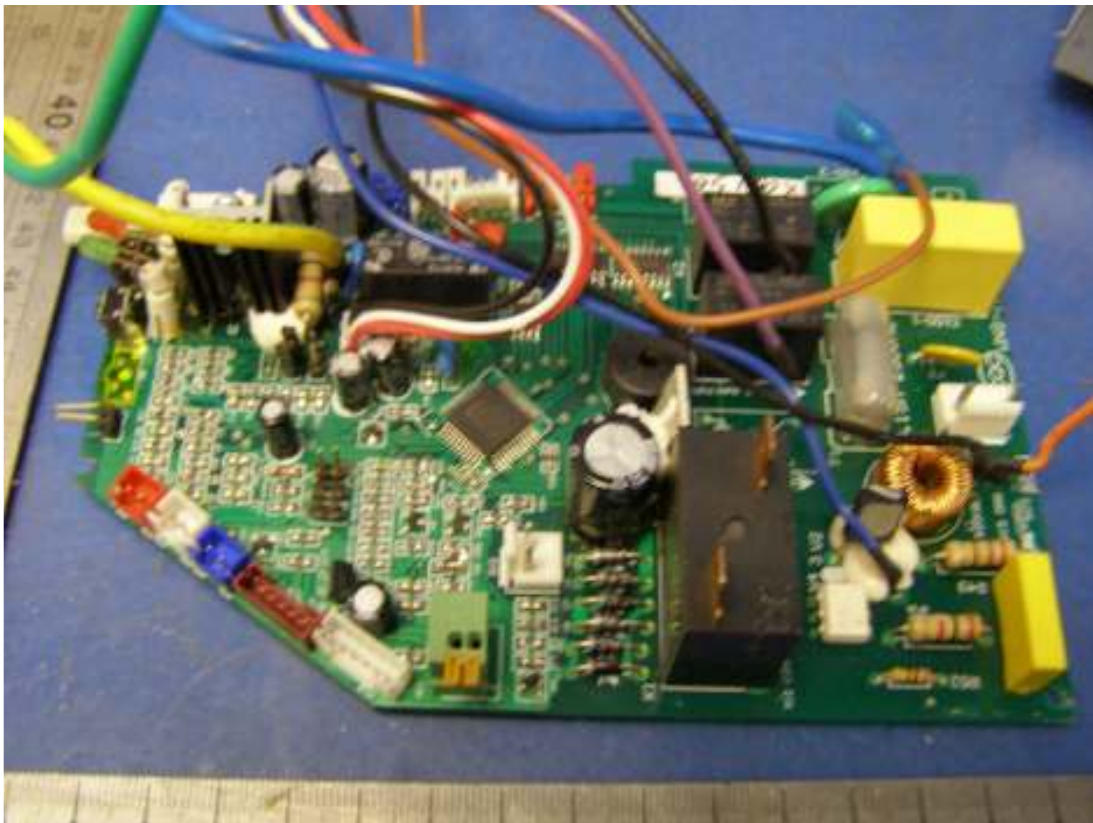
Picture 9



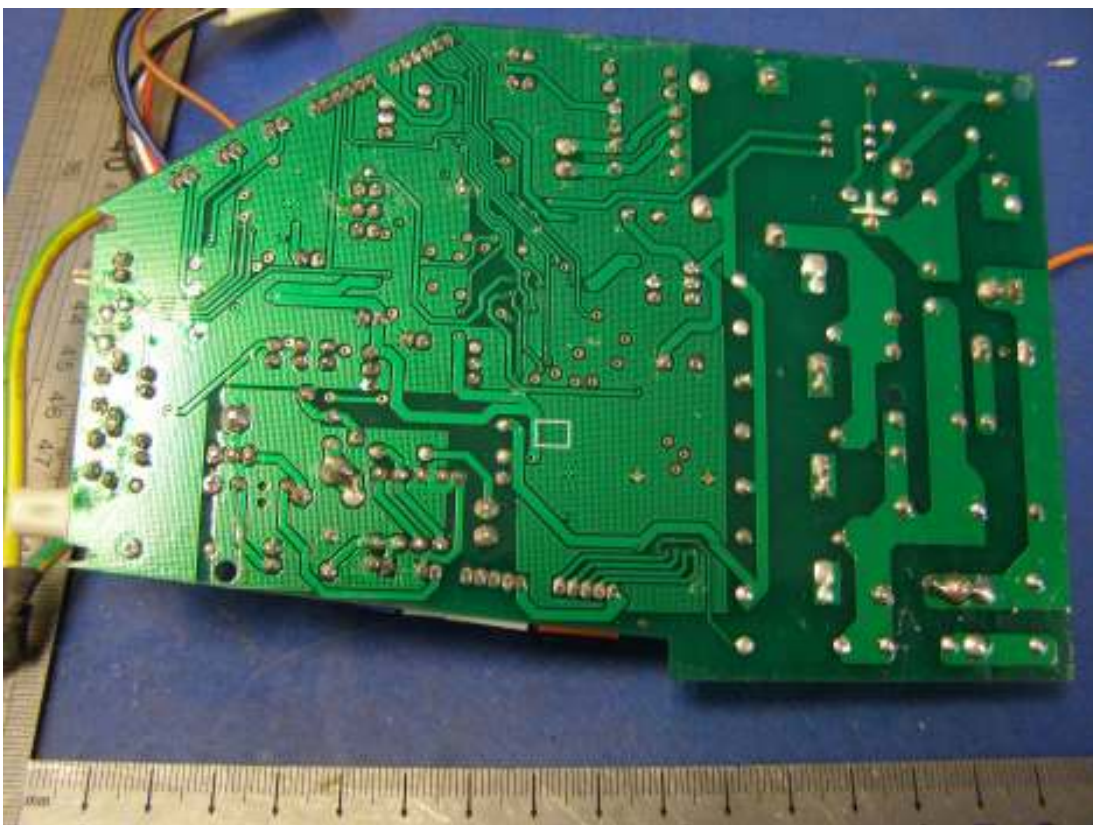
Picture 10

Report Number: 12011244 003

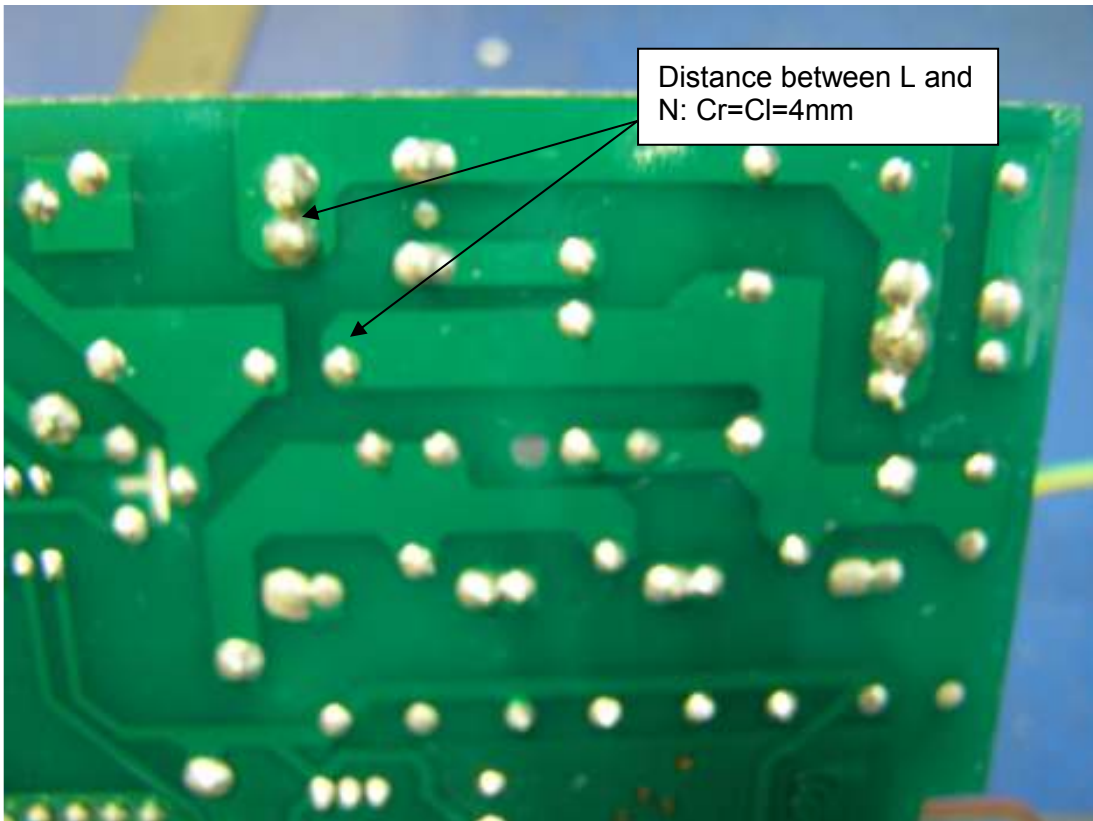
Model: WNG series models
LEX series models (see report)



Picture 11



Picture 12



Picture 13



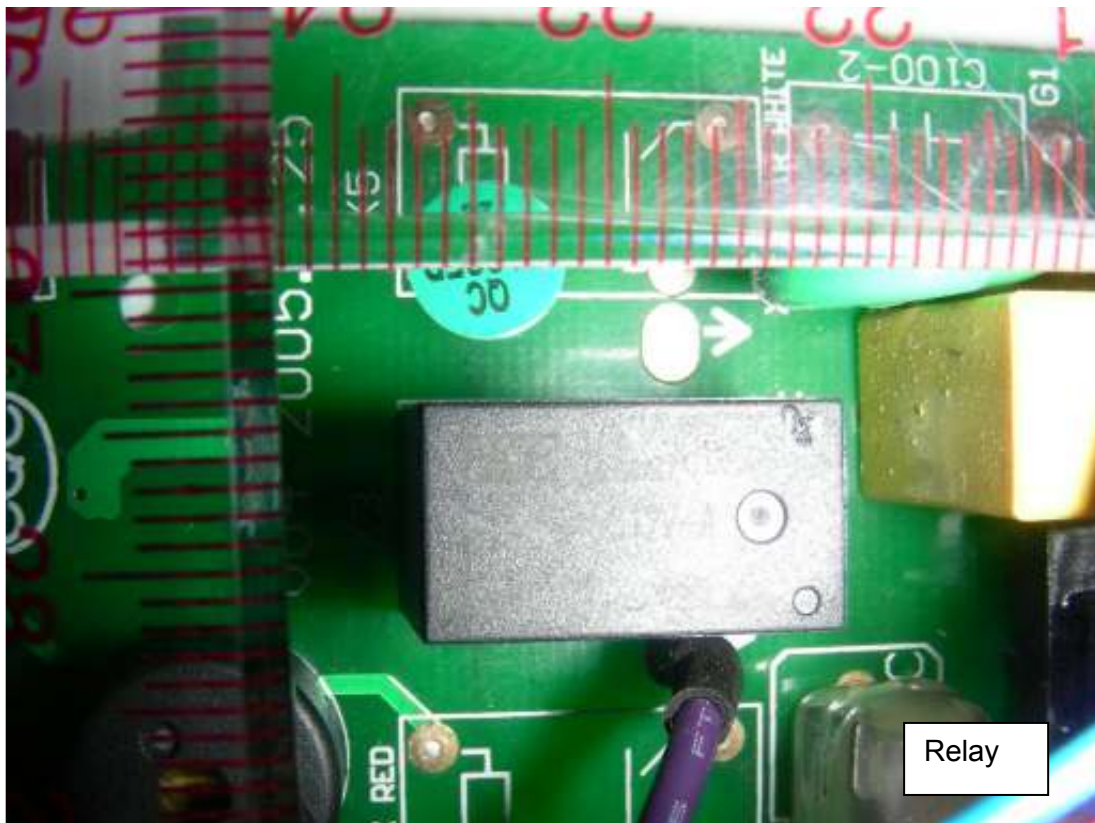
Picture 14



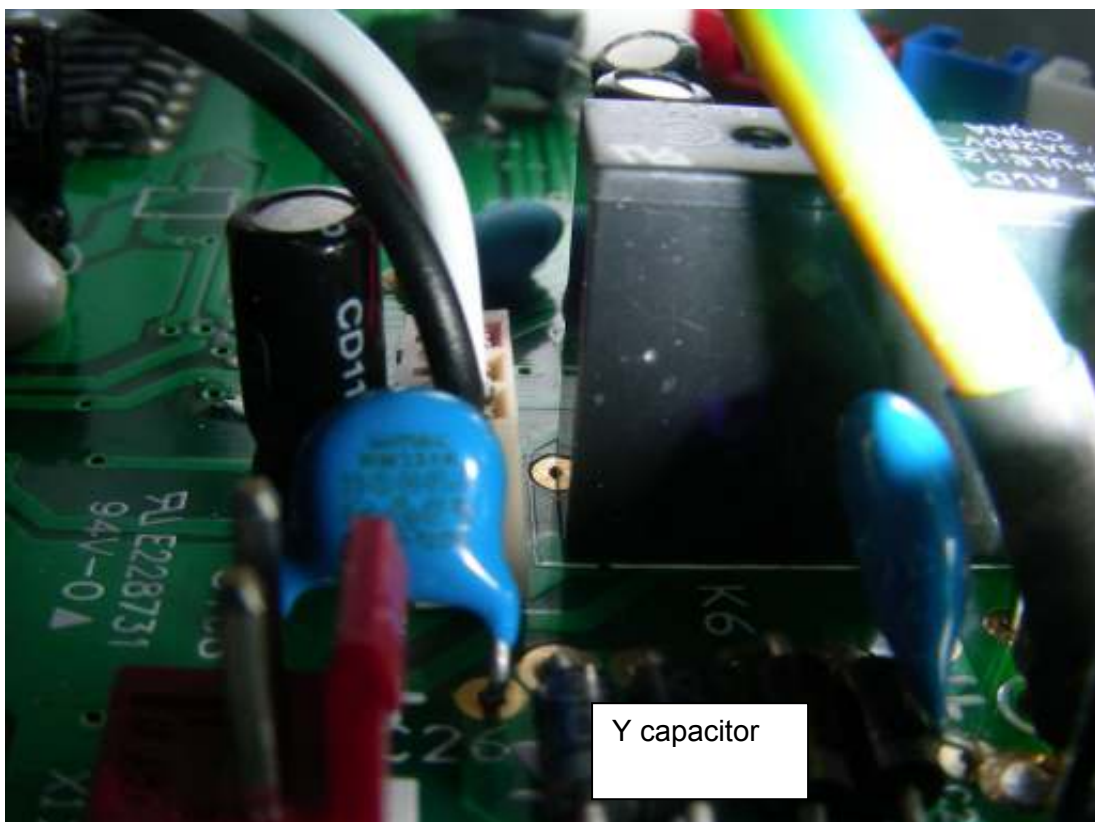
Picture 15



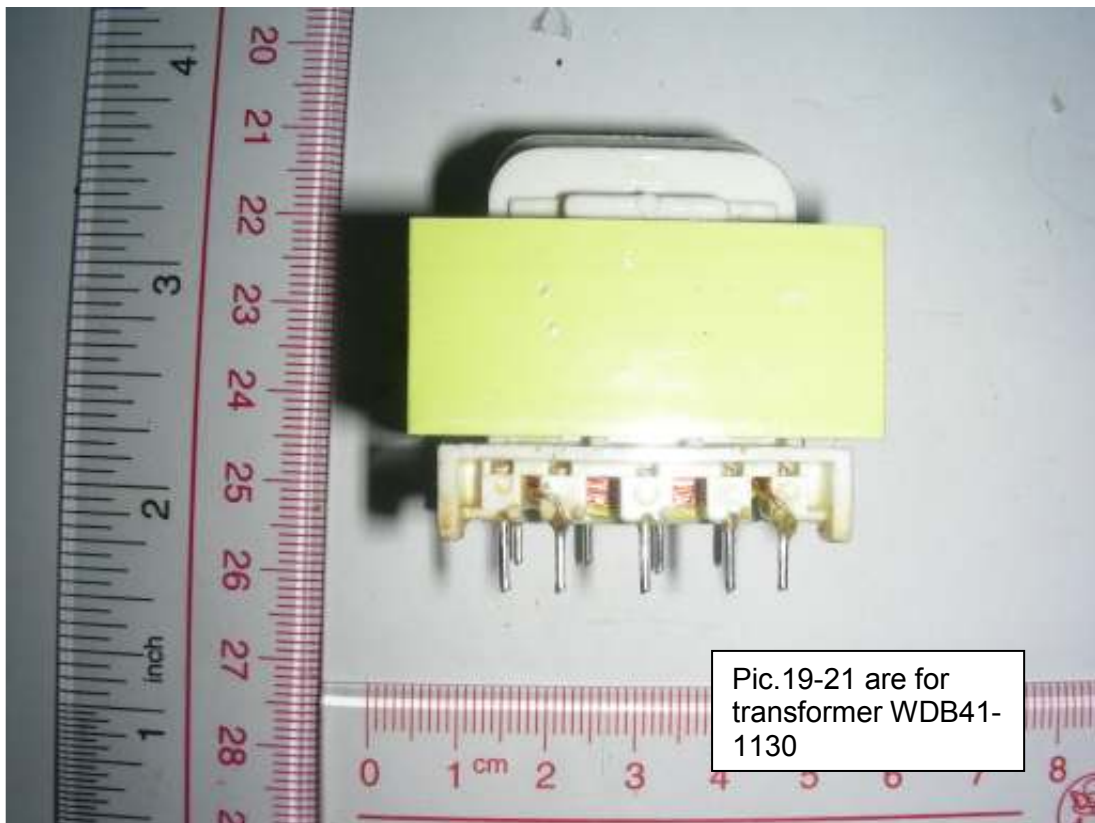
Picture 16



Picture 17



Picture 18



Picture 19



Picture 20



Picture 21



Pic.22-24 are for transformer WDB48-1170

Picture 22

Report Number: 12011244 003

Model: WNG series models
LEX series models (see report)



Picture 23



Picture 24