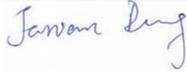




TEST REPORT IEC 60335-2-40 Safety of household and similar electrical appliances Part 2-40: Particular requirements for electrical heat pumps, air conditioners and dehumidifiers	
Report Number	AHES250400073701
Date of issue	2025-05-08
Total number of pages	171 pages
Applicant's name	BAUF HOME GmbH
Address	Frankfurter Straße 16, 74072 Heilbronn, Germany
Test specification:	
Standard	EN 60335-2-40:2003 + A11:2004 + A12:2005 + A1:2006 + A2:2009 + A13:2012 EN 60335-1:2012 + A11:2014 + A13:2017 + A1:2019+ A14:2019 + A2:2019 + A15:2021 + A16:2023 EN 62233:2008
Test procedure	SGS-CSTC
Non-standard test method	N/A
Test Report Form No.	IEC60335_2_40J
Test Report Form(s) Originator	VDE
Master TRF	Dated 2014-06
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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 IECEE 02.	
General disclaimer:	
The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing CB Testing Laboratory. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.	

Test item description	Air Conditioner
Trade Mark	BAUF
Manufacturer	BAUF HOME GmbH Frankfurter Straße 16, 74072 Heilbronn, Germany
Model/Type reference	Outdoor unit: BRAC-FM-IA1-14-R3-O BRAC-FM-IA1-18-R3-O BRAC-FM-IA1-21-R3-O BRAC-FM-IA1-27-R3-O BRAC-FM-IA1-28-R3-O BRAC-FM-IA1-36-R3-O BRAC-FM-IA1-42-R3-O Indoor unit: BRAC-FM-IASP2-7-R3-I BRAC-FM-IASP2-9-R3-I BRAC-FM-IASP2-12-R3-I BRAC-FM-IASP2-18-R3-I BRAC-FM-IASP2-24-R3-I BRAC-FM-IACA-9-R3-I BRAC-FM-IACA-12-R3-I BRAC-FM-IACA-18-R3-I BRAC-FM-IACA-24-R3-I BRAC-FM-IAPC-710 BRAC-FM-IAPC-1000 BRAC-FM-IAFC-9-R3-I BRAC-FM-IAFC-12-R3-I BRAC-FM-IAFC-18-R3-I BRAC-FM-IADU-9-R3-I BRAC-FM-IADU-12-R3-I BRAC-FM-IADU-18-R3-I BRAC-FM-IADU-24-R3-I BRAC-FM-IACO-9-R3-I BRAC-FM-IACO-12-R3-I BRAC-FM-IACO-18-R3-I
Ratings	220 V - 240 V; 50 Hz; Class I; IPX4 for Outdoor unit; BRAC-FM-IA1-14-R3-O: 12,0 A; 2,76 kW; R32/1,00 kg; BRAC-FM-IA1-18-R3-O: 13,0 A; 3,00 kW; R32/1,03 kg; BRAC-FM-IA1-21-R3-O: 14,0 A; 3,00 kW; R32/1,15 kg; BRAC-FM-IA1-27-R3-O: 16,5 A; 3,80 kW; R32/1,45 kg; BRAC-FM-IA1-28-R3-O: 19,0 A; 4,30 kW; R32/2,05 kg; BRAC-FM-IA1-36-R3-O: 23,5 A; 5,30 kW; R32/2,3 kg; BRAC-FM-IA1-42-R3-O: 24,5 A; 5,64 kW; R32/2,3 kg;

Testing procedure and testing location:		
<input checked="" type="checkbox"/>	Testing Laboratory:	SGS-CSTC standards Technical Services Co., Ltd. Anhui Branch
Testing location/ address		1/F&2/F, West Building C12, Gongtuo Liheng Industrial Square, Fanhua Road, Economic & Technological Development Area, Hefei, Anhui 230601, China
<input type="checkbox"/>	Associated CB Testing Laboratory:	N/A
Testing location/ address		
Tested by (name + signature).....		Jarvan Deng Project engineer 
Approved by (name + signature)		Hunter Lin Reviewer 
<hr/>		
<input type="checkbox"/>	Testing procedure: TMP/CTF Stage 1:	N/A
Testing location/ address		
Tested by (name + signature)		
Approved by (name + signature)		
<hr/>		
<input type="checkbox"/>	Testing procedure: WMT/CTF Stage 2:	N/A
Testing location/ address		
Tested by (name + signature)		
Witnessed by (name + signature)		
Approved by (name + signature)		
<hr/>		
<input type="checkbox"/>	Testing procedure: SMT/CTF Stage 3 or 4:	N/A
Testing location/ address		
Tested by (name + signature)		
Witnessed by (name + signature)		
Approved by (name + signature)		
Supervised by (name + signature).....		
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List of Attachments (including a total number of pages in each attachment):

1. Attachment 1 – Photo documentation – 105 pages
2. Attachment 2 – European Group Differences – 17 pages
3. Attachment 3 – EN 60335-1:2012 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2:2019 + A15:2021 + A16:2023 – 31 pages

Summary of testing:**Tests performed (name of test and test clause):**

Tests were carried out according to the following standards:

EN 60335-2-40:2003 + A11:2004 + A12:2005 + A1:2006 + A2:2009 + A13:2012

EN 60335-1:2012 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2:2019 + A15:2021 + A16:2023

EN 62233:2008

The test data is based on original report AHES220700077011.

Testing location:

Refer to page 3

Summary of compliance with National Differences:**List of countries addressed:**

EU Group Differences

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 National Certification Body that own these marks.

Outdoor unit:

	 		 
DC Inverter Type Heat Pump Air Conditioner Outdoor Unit		DC Inverter Type Heat Pump Air Conditioner Outdoor Unit	
Product Type	BRAC-FM-IA1-14-R3-O	Product Type	BRAC-FM-IA118-R3-O
Electric Shock Prevention	Class I	Electric Shock Prevention	Class I
Power Supply	220-240V~ 50Hz	Power Supply	220-240V~ 50Hz
Rated Cooling Capacity	4.10kW	Rated Cooling Capacity	5.30kW
Rated Heating Capacity	4.50kW	Rated Heating Capacity	5.60kW
Rated Cooling/Heating Current	5.39A/5.00A	Rated Cooling/Heating Current	7.13A/6.43A
Rated Cooling/Heating Power	1.24kW/1.15kW	Rated Cooling/Heating Power	1.64kW/1.48kW
Max.Input Current	12.00A	Max.Input Current	13.00A
Max.Input Power	2.76kW	Max.Input Power	3.00kW
Max.Heat Exchanger Pressure	4.2MPa	Max.Heat Exchanger Pressure	4.2MPa
Max.Suction/Discharge Pressure	1.2MPa/4.2MPa	Max.Suction/Discharge Pressure	1.2MPa/4.2MPa
Refrigerant	R32(GWP675)	Refrigerant	R32(GWP675)
Refrigerant Quantity	1.00kg/0.675tCO2eq.	Refrigerant Quantity	1.03kg/0.695tCO2eq.
Water-proof Class	IPX4	Water-proof Class	IPX4
Noise	53dB(A)	Noise	54dB(A)
Net Weight	30kg	Net Weight	30kg
Date	2024.09	Date	2024.09
No.	8E0228002305050001	No.	8E0228002305050000
			
Contains fluorinated greenhouse gases BAUF HOME GmbH, Frankfurter Straße 16, 74072 Hellbronn, Germany		Contains fluorinated greenhouse gases BAUF HOME GmbH, Frankfurter Straße 16, 74072 Hellbronn, Germany	
Made in P.R.C		Made in P.R.C	

	 		 
DC Inverter Type Heat Pump Air Conditioner Outdoor Unit		DC Inverter Type Heat Pump Air Conditioner Outdoor Unit	
Product Type	BRAC-FM-IA1-21-R3-O	Product Type	BRAC-FM-IA1-27-R3-O
Electric Shock Prevention	Class I	Electric Shock Prevention	Class I
Power Supply	220-240V~ 50Hz	Power Supply	220-240V~ 50Hz
Rated Cooling Capacity	6.20kW	Rated Cooling Capacity	7.90kW
Rated Heating Capacity	6.60kW	Rated Heating Capacity	8.20kW
Rated Cooling/Heating Current	8.35A/7.74A	Rated Cooling/Heating Current	10.61A/9.61A
Rated Cooling/Heating Power	1.92kW/1.78kW	Rated Cooling/Heating Power	2.44kW/2.21kW
Max.Input Current	14.00A	Max.Input Current	16.50A
Max.Input Power	3.00kW	Max.Input Power	3.80kW
Max.Heat Exchanger Pressure	4.2MPa	Max.Heat Exchanger Pressure	4.2MPa
Max.Suction/Discharge Pressure	1.2MPa/4.2MPa	Max.Suction/Discharge Pressure	1.2MPa/4.2MPa
Refrigerant	R32(GWP675)	Refrigerant	R32(GWP675)
Refrigerant Quantity	1.15kg/0.776tCO2eq.	Refrigerant Quantity	1.45kg/0.979tCO2eq.
Water-proof Class	IPX4	Water-proof Class	IPX4
Noise	56dB(A)	Noise	57dB(A)
Net Weight	41.5kg	Net Weight	44.5kg
Date	2024.09	Date	2024.09
No.	8E0228002305049999	No.	8E0228002305049998
			
Contains fluorinated greenhouse gases		Contains fluorinated greenhouse gases	
BAUF HOME GmbH, Frankfurter Straße 16, 74072 Heilbronn, Germany		BAUF HOME GmbH, Frankfurter Straße 16, 74072 Heilbronn, Germany	
Made in P.R.C		Made in P.R.C	

	 
<p>DC Inverter Type Heat Pump Air Conditioner Outdoor Unit</p>	
Product Type	BRAC-FM-IA1-28-R3-O
Electric Shock Prevention	Class I
Power Supply	220-240V~ 50Hz
Rated Cooling Capacity	8.20kW
Rated Heating Capacity	8.79kW
Rated Cooling/Heating Current	10.9A/9.8A
Rated Cooling/Heating Power	2.50kW/2.20kW
Max.Input Current	19.00A
Max.Input Power	4.30kW
Max.Heat Exchanger Pressure	4.2MPa
Max.Suction/Discharge Pressure	1.2MPa/4.2MPa
Refrigerant	R32(GWP675)
Refrigerant Quantity	2.05kg/1.384tCO ₂ eq.
Water-proof Class	IPX4
Noise	59dB(A)
Net Weight	65.5kg
Date	2024.09
No.	8E0228002305049997
	
<p>Contains fluorinated greenhouse gases</p> <p>BAUF HOME GmbH, Frankfurter Straße 16, 74072 Hellbronn, Germany</p> <p>Made in P.R.C</p>	

	 
<p>DC Inverter Type Heat Pump Air Conditioner Outdoor Unit</p>	
Product Type	BRAC-FM-IA1-36-R3-O
Electric Shock Prevention	Class I
Power Supply	220-240V~ 50Hz
Rated Cooling Capacity	10.50kW
Rated Heating Capacity	11.00kW
Rated Cooling/Heating Current	17.50A/13.96A
Rated Cooling/Heating Power	3.95kW/3.15kW
Max.Input Current	23.50A
Max.Input Power	5.30kW
Max.Heat Exchanger Pressure	4.2MPa
Max.Suction/Discharge Pressure	1.2MPa/4.2MPa
Refrigerant	R32(GWP675)
Refrigerant Quantity	2.30kg/1.553tCO ₂ eq.
Water-proof Class	IPX4
Noise	61dB(A)
Net Weight	74kg
Date	2024.10
No.	8E0239002410290001
	
<p>Contains fluorinated greenhouse gases</p> <p>BAUF HOME GmbH, Frankfurter Straße 16, 74072 Hellbronn, Germany</p> <p>Made in P.R.C</p>	



**DC Inverter Type
Heat Pump Air Conditioner
Outdoor Unit**

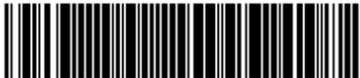



Product Type	BRAC-FM-IA1-42R3-O
Electric Shock Prevention	Class I
Power Supply	220-240V~ 50Hz
Rated Cooling Capacity	12.00kW
Rated Heating Capacity	13.00kW
Rated Cooling/Heating Current	19.72A/16.62A
Rated Cooling/Heating Power	4.45kW/3.75kW
Max.Input Current	24.50A
Max.Input Power	5.64kW
Max.Heat Exchanger Pressure	4.2MPa
Max.Suction/Discharge Pressure	1.2MPa/4.2MPa
Refrigerant	R32(GWP675)
Refrigerant Quantity	2.30kg/1.553tCO2eq.
Water-proof Class	IPX4
Noise	61dB(A)
Net Weight	75kg



Date 2024.09

No. 8E0228002305049995



Contains fluorinated greenhouse gases

**BAUF HOME GmbH,
Frankfurter Straße 16,
74072 Hellbronn, Germany**

Made in P.R.C

Indoor unit:

BAUF





DC Inverter Type
Heat Pump
Air Conditioner(Indoor Unit)

Product Type BRAC-FM-IACA-9-R3-I
Electric Shock Prevention Class I

Power Supply 220-240V~ 50Hz
Rated Cooling/Heating Capacity 2.80kW/3.00kW

Rated Power 40W
Air Flow Volume  700m³/h
Noise  42dB(A)
Outlet Air Static Pressure 0Pa
Max.Heat Exchanger Pressure 4.2MPa
Net Weight 14.5kg

Date 2024.12
No. 8C1586002411110001



Contains fluorinated greenhouse gases

BAUF HOME GmbH,
Frankfurter Straße 16,
74072 Heilbronn, Germany

Made in P.R.C

BAUF





DC Inverter Type
Heat Pump
Air Conditioner(Indoor Unit)

Product Type BRAC-FM-IACA-12-R3-I
Electric Shock Prevention Class I

Power Supply 220-240V~ 50Hz
Rated Cooling/Heating Capacity 3.52kW/3.81kW

Rated Power 40W
Air Flow Volume  700m³/h
Noise  42dB(A)
Outlet Air Static Pressure 0Pa
Max.Heat Exchanger Pressure 4.2MPa
Net Weight 14.5kg

Date 2024.12
No. 8C1586002411110001



Contains fluorinated greenhouse gases

BAUF HOME GmbH,
Frankfurter Straße 16,
74072 Heilbronn, Germany

Made in P.R.C

BAUF





DC Inverter Type
Heat Pump
Air Conditioner(Indoor Unit)

Product Type BRAC-FM-IACA-18-R3-I
Electric Shock Prevention Class I

Power Supply 220-240V~ 50Hz
Rated Cooling/Heating Capacity 5.28kW/5.60kW

Rated Power 40W
Air Flow Volume  760m³/h
Noise  45dB(A)
Outlet Air Static Pressure 0Pa
Max.Heat Exchanger Pressure 4.2MPa
Net Weight 15kg

Date 2024.12
No. 8C1586002411110001



Contains fluorinated greenhouse gases

BAUF HOME GmbH,
Frankfurter Straße 16,
74072 Heilbronn, Germany

Made in P.R.C

BAUF





DC Inverter Type
Heat Pump
Air Conditioner(Indoor Unit)

Product Type BRAC-FM-IACA-24-R3-I
Electric Shock Prevention Class I

Power Supply 220-240V~ 50Hz
Rated Cooling/Heating Capacity 7.00kW/8.00kW

Rated Power 110W
Air Flow Volume  1400m³/h
Noise  47dB(A)
Outlet Air Static Pressure 0Pa
Max.Heat Exchanger Pressure 4.2MPa
Net Weight 26kg

Date 2024.12
No. 8C1586002411110001



Contains fluorinated greenhouse gases

BAUF HOME GmbH,
Frankfurter Straße 16,
74072 Heilbronn, Germany

Made in P.R.C

BAUF





DC Inverter Type
Heat Pump
Air Conditioner(Indoor Unit)

Product Type BRAC-FM-IAFC-9-R3-I
Electric Shock Prevention Class I

Power Supply 220-240V~ 50Hz
Rated Cooling/Heating Capacity 2.80kW/3.00kW

Rated Power 70W
Air Flow Volume  840m³/h
Noise  40dB(A)
Outlet Air Static Pressure 0Pa
Max.Heat Exchanger Pressure 4.2MPa
Net Weight 27kg

Date 2024.12
No. 8C0913002404260001



Contains fluorinated greenhouse gases

BAUF HOME GmbH,
Frankfurter Straße 16,
74072 Heilbronn, Germany

Made in P.R.C

BAUF





DC Inverter Type
Heat Pump
Air Conditioner(Indoor Unit)

Product Type BRAC-FM-IAFC-12-R3-I
Electric Shock Prevention Class I

Power Supply 220-240V~ 50Hz
Rated Cooling/Heating Capacity 3.60kW/3.90kW

Rated Power 70W
Air Flow Volume  840m³/h
Noise  40dB(A)
Outlet Air Static Pressure 0Pa
Max.Heat Exchanger Pressure 4.2MPa
Net Weight 27kg

Date 2024.12
No. 8C0913002404260001



Contains fluorinated greenhouse gases

BAUF HOME GmbH,
Frankfurter Straße 16,
74072 Heilbronn, Germany

Made in P.R.C

<p style="text-align: center;">BAUF</p> <p style="text-align: center;">DC Inverter Type Heat Pump Air Conditioner(Indoor Unit)</p> <p style="text-align: center;">CE </p> <table border="1"> <tr> <td>Product Type</td> <td>BRAC-FM-IAFC-18-R3-I</td> </tr> <tr> <td>Electric Shock Prevention</td> <td>Class I</td> </tr> <tr> <td>Power Supply</td> <td>220-240V~ 50Hz</td> </tr> <tr> <td>Rated Cooling/Heating Capacity</td> <td>5.30kW/5.80kW</td> </tr> <tr> <td>Rated Power</td> <td>80W</td> </tr> <tr> <td>Air Flow Volume</td> <td> 900m³/h</td> </tr> <tr> <td>Noise</td> <td> 42dB(A)</td> </tr> <tr> <td>Outlet Air Static Pressure</td> <td>0Pa</td> </tr> <tr> <td>Max.Heat Exchanger Pressure</td> <td>4.2MPa</td> </tr> <tr> <td>Net Weight</td> <td>28kg</td> </tr> <tr> <td>Date</td> <td>2024.12</td> </tr> <tr> <td>No.</td> <td>8C0913002404260001</td> </tr> </table> <p style="text-align: center;"></p> <p style="text-align: center;">Contains fluorinated greenhouse gases</p> <p style="text-align: center;">BAUF HOME GmbH, Frankfurter Straße 16, 74072 Heilbronn, Germany</p> <p style="text-align: center;">Made In P.R.C</p>	Product Type	BRAC-FM-IAFC-18-R3-I	Electric Shock Prevention	Class I	Power Supply	220-240V~ 50Hz	Rated Cooling/Heating Capacity	5.30kW/5.80kW	Rated Power	80W	Air Flow Volume	900m³/h	Noise	42dB(A)	Outlet Air Static Pressure	0Pa	Max.Heat Exchanger Pressure	4.2MPa	Net Weight	28kg	Date	2024.12	No.	8C0913002404260001	<p style="text-align: center;">BAUF</p> <p style="text-align: center;">DC Inverter Type Heat Pump Air Conditioner(Indoor Unit)</p> <p style="text-align: center;">CE </p> <table border="1"> <tr> <td>Product Type</td> <td>BRAC-FM-IACO-9-R3-I</td> </tr> <tr> <td>Electric Shock Prevention</td> <td>Class I</td> </tr> <tr> <td>Power Supply</td> <td>220-240V~ 50Hz</td> </tr> <tr> <td>Rated Cooling/Heating Capacity</td> <td>2.60kW/2.80kW</td> </tr> <tr> <td>Rated Power</td> <td>40W</td> </tr> <tr> <td>Air Flow Volume</td> <td> 600m³/h</td> </tr> <tr> <td>Noise</td> <td> 42dB(A)</td> </tr> <tr> <td>Outlet Air Static Pressure</td> <td>0Pa</td> </tr> <tr> <td>Max.Heat Exchanger Pressure</td> <td>4.2MPa</td> </tr> <tr> <td>Net Weight</td> <td>15kg</td> </tr> <tr> <td>Date</td> <td>2024.12</td> </tr> <tr> <td>No.</td> <td>8C0913002404260001</td> </tr> </table> <p style="text-align: center;"></p> <p style="text-align: center;">Contains fluorinated greenhouse gases</p> <p style="text-align: center;">BAUF HOME GmbH, Frankfurter Straße 16, 74072 Heilbronn, Germany</p> <p style="text-align: center;">Made In P.R.C</p>	Product Type	BRAC-FM-IACO-9-R3-I	Electric Shock Prevention	Class I	Power Supply	220-240V~ 50Hz	Rated Cooling/Heating Capacity	2.60kW/2.80kW	Rated Power	40W	Air Flow Volume	600m³/h	Noise	42dB(A)	Outlet Air Static Pressure	0Pa	Max.Heat Exchanger Pressure	4.2MPa	Net Weight	15kg	Date	2024.12	No.	8C0913002404260001	<p style="text-align: center;">BAUF</p> <p style="text-align: center;">DC Inverter Type Heat Pump Air Conditioner(Indoor Unit)</p> <p style="text-align: center;">CE </p> <table border="1"> <tr> <td>Product Type</td> <td>BRAC-FM-IACO-12-R3-I</td> </tr> <tr> <td>Electric Shock Prevention</td> <td>Class I</td> </tr> <tr> <td>Power Supply</td> <td>220-240V~ 50Hz</td> </tr> <tr> <td>Rated Cooling/Heating Capacity</td> <td>3.50kW/3.50kW</td> </tr> <tr> <td>Rated Power</td> <td>40W</td> </tr> <tr> <td>Air Flow Volume</td> <td> 600m³/h</td> </tr> <tr> <td>Noise</td> <td> 42dB(A)</td> </tr> <tr> <td>Outlet Air Static Pressure</td> <td>0Pa</td> </tr> <tr> <td>Max.Heat Exchanger Pressure</td> <td>4.2MPa</td> </tr> <tr> <td>Net Weight</td> <td>15kg</td> </tr> <tr> <td>Date</td> <td>2024.12</td> </tr> <tr> <td>No.</td> <td>8C0913002404260001</td> </tr> </table> <p style="text-align: center;"></p> <p style="text-align: center;">Contains fluorinated greenhouse gases</p> <p style="text-align: center;">BAUF HOME GmbH, Frankfurter Straße 16, 74072 Heilbronn, Germany</p> <p style="text-align: center;">Made In P.R.C</p>	Product Type	BRAC-FM-IACO-12-R3-I	Electric Shock Prevention	Class I	Power Supply	220-240V~ 50Hz	Rated Cooling/Heating Capacity	3.50kW/3.50kW	Rated Power	40W	Air Flow Volume	600m³/h	Noise	42dB(A)	Outlet Air Static Pressure	0Pa	Max.Heat Exchanger Pressure	4.2MPa	Net Weight	15kg	Date	2024.12	No.	8C0913002404260001
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<p style="text-align: center;">BAUF</p> <p style="text-align: center;">DC Inverter Type Heat Pump Air Conditioner(Indoor Unit)</p> <p style="text-align: center;">CE </p> <hr/> <p>Product Type BRAC-FM-IASP2-7-R3-I</p> <p>Electric Shock Prevention Class I</p> <p>Power Supply 220-240V~ 50Hz</p> <p>Rated Cooling/Heating Capacity 2.05kW/2.35kW</p> <hr/> <p>Rated Power 40W</p> <p>Air Flow Volume  650m³/h</p> <p>Noise  41dB(A)</p> <p>Outlet Air Static Pressure 0Pa</p> <p>Max.Heat Exchanger Pressure 4.2MPa</p> <p>Net Weight 7kg</p> <hr/> <p>Date 2024.09</p> <p>No. 8C1912002409030001</p>  <p style="text-align: center;">Contains fluorinated greenhouse gases</p> <p style="text-align: center;">BAUF HOME GmbH, Frankfurter Straße 16, 74072 Heilbronn, Germany</p> <p style="text-align: center;">Made in P.R.C</p>	<p style="text-align: center;">BAUF</p> <p style="text-align: center;">DC Inverter Type Heat Pump Air Conditioner(Indoor Unit)</p> <p style="text-align: center;">CE </p> <hr/> <p>Product Type BRAC-FM-IASP2-9-R3-I</p> <p>Electric Shock Prevention Class I</p> <p>Power Supply 220-240V~ 50Hz</p> <p>Rated Cooling/Heating Capacity 2.64kW/2.93kW</p> <hr/> <p>Rated Power 40W</p> <p>Air Flow Volume  650m³/h</p> <p>Noise  41dB(A)</p> <p>Outlet Air Static Pressure 0Pa</p> <p>Max.Heat Exchanger Pressure 4.2MPa</p> <p>Net Weight 7kg</p> <hr/> <p>Date 2024.09</p> <p>No. 8C1912002409030000</p>  <p style="text-align: center;">Contains fluorinated greenhouse gases</p> <p style="text-align: center;">BAUF HOME GmbH, Frankfurter Straße 16, 74072 Heilbronn, Germany</p> <p style="text-align: center;">Made in P.R.C</p>	<p style="text-align: center;">BAUF</p> <p style="text-align: center;">DC Inverter Type Heat Pump Air Conditioner(Indoor Unit)</p> <p style="text-align: center;">CE </p> <hr/> <p>Product Type BRAC-FM-IASP2-12-R3-I</p> <p>Electric Shock Prevention Class I</p> <p>Power Supply 220-240V~ 50Hz</p> <p>Rated Cooling/Heating Capacity 3.52kW/3.81kW</p> <hr/> <p>Rated Power 40W</p> <p>Air Flow Volume  650m³/h</p> <p>Noise  41dB(A)</p> <p>Outlet Air Static Pressure 0Pa</p> <p>Max.Heat Exchanger Pressure 4.2MPa</p> <p>Net Weight 7.5kg</p> <hr/> <p>Date 2024.09</p> <p>No. 8C1912002409029999</p>  <p style="text-align: center;">Contains fluorinated greenhouse gases</p> <p style="text-align: center;">BAUF HOME GmbH, Frankfurter Straße 16, 74072 Heilbronn, Germany</p> <p style="text-align: center;">Made in P.R.C</p>

BAUF	 	BAUF	 
DC Inverter Type Heat Pump Air Conditioner(Indoor Unit)		DC Inverter Type Heat Pump Air Conditioner(Indoor Unit)	
Product Type	BRAC-FM-IASP2-18-R3-I	Product Type	BRAC-FM-IASP2-24-R3-I
Electric Shock Prevention	Class I	Electric Shock Prevention	Class I
Power Supply	220-240V~ 50Hz	Power Supply	220-240V~ 50Hz
Rated Cooling/Heating Capacity	5.27kW/5.38kW	Rated Cooling/Heating Capacity	6.90kW/7.05kW
Rated Power	63W	Rated Power	63W
Air Flow Volume	 950m ³ /h	Air Flow Volume	 1300m ³ /h
Noise	47dB(A)	Noise	49dB(A)
Outlet Air Static Pressure	0Pa	Outlet Air Static Pressure	0Pa
Max.Heat Exchanger Pressure	4.2MPa	Max.Heat Exchanger Pressure	4.2MPa
Net Weight	11kg	Net Weight	13kg
Date	2024.09	Date	2024.09
No.	8C1912002409029998	No.	8C1912002409029997
			
Contains fluorinated greenhouse gases		Contains fluorinated greenhouse gases	
BAUF HOME GmbH, Frankfurter Straße 16, 74072 Heilbronn, Germany		BAUF HOME GmbH, Frankfurter Straße 16, 74072 Heilbronn, Germany	
Made In P.R.C		Made In P.R.C	

1) The Height of CE logo shall not be less than 5 mm; Height of WEEE logo shall not be less than 7 mm;

2) As declared by the applicant, the importer (and manufacturer, if it is different)'s name, registered trade name or registered trade mark and the postal address will be marked on the products before being place on the market. The contact details shall be in a language easily understood by end-users and market surveillance authorities.

3) Marking on the packaging or in a document accompanying the electrical equipment is only acceptable if it is not possible to place such markings on the product.

Test item particulars	Split-type Air Conditioner
Classification of installation and use	Stationary appliance
Supply Connection	Terminal
.....	:
Possible test case verdicts:	
- test case does not apply to the test object	N/A
- test object does meet the requirement	P (Pass)
- test object does not meet the requirement	F (Fail)
Testing	
Date of receipt of test item	2024-12-12
Date (s) of performance of tests	2024-12-12 to 2025-01-02
General remarks:	
<p>The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory. “(see Attachment #)” refers to additional information appended to the report. “(see appended table)” refers to a table appended to the report.</p> <p>Throughout this report a comma / point is used as the decimal separator. This document is issued by the Company subject to its General Conditions of Service, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company’s findings at the time of its intervention only and within the limits of Client’s instructions, if any. The Company’s sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.</p>	
Manufacturer’s Declaration per sub-clause 4.2.5 of IEC60335-2-40:	
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	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not applicable
When differences exist; they shall be identified in the General product information section.	
Name and address of factory (ies)	Ningbo AUX Electric Co., Ltd. 1166 Mingguang North Road, Jiangshan Yinzhou District, Ningbo, 315191 Zhejiang, China

General product information:

Split-type air conditioner which assembled with one outdoor unit and one or more indoor units (multi-split system) intended for household use only (the max. indoor units were based on the capacity matching with the outdoor unit), the refrigerant was R32 (flammable refrigerant).

These models had the similar construction and shared some critical components, refer to below table and photo documentation for further difference:

Outdoor Unit:				
Model	Rated power input	Current	Refrigerant	Compressor
BRAC-FM-IA1-14-R3-O	2,76 kW	12,0 A	1,00 kg	KSN98D64UFZA3
BRAC-FM-IA1-18-R3-O	3,00 kW	13,0 A	1,03 kg	KSN140D53UFZM3
BRAC-FM-IA1-21-R3-O	3,00 kW	14,0 A	1,15 kg	KSN140D53UFZM3
BRAC-FM-IA1-27-R3-O	3,80 kW	16,5A	1,45 kg	KTM240D43UKUA2
BRAC-FM-IA1-28-R3-O	4,30 kW	19,0 A	2,05 kg	KTM240D43UKP
BRAC-FM-IA1-36-R3-O	5,30 kW	23,5 A	2,3 kg	KTF310D43UMT
BRAC-FM-IA1-42-R3-O	5,64 kW	24,5 A	2,3 kg	KTF310D43UMT

Indoor Unit:		
Models	Rated power input	Difference
BRAC-FM-IACA-9-R3-I	70 W	Identical with each other except for appearance of indoor unit
BRAC-FM-IACA-12-R3-I		
BRAC-FM-IACA-18-R3-I		
BRAC-FM-IACA-24-R3-I	110 W	-
BRAC-FM-IAFC-9-R3-I	70 W	Totally identical with each other except for some capability value on marking plate.
BRAC-FM-IAFC-12-R3-I		
BRAC-FM-IAFC-18-R3-I		
BRAC-FM-IADU-9-R3-I	55 W	Totally identical with each other except for fan motor and main PCB.
BRAC-FM-IACO-9-R3-I	40 W	Identical with each other except for appearance of indoor unit
BRAC-FM-IACO-12-R3-I		
BRAC-FM-IACO-18-R3-I		
BRAC-FM-IADU-12-R3-I	60	Identical with each other except for evaporator
BRAC-FM-IADU-18-R3-I	90	
BRAC-FM-IADU-24-R3-I	150	Identical with each other except for fan motor evaporator
BRAC-FM-IASP2-7-R3-I	40	Identical with each other except for appearance of indoor unit
BRAC-FM-IASP2-9-R3-I		
BRAC-FM-IASP2-12-R3-I		Identical with BRAC-FM-IASP2-9-R3-I except for evaporator
BRAC-FM-IASP2-18-R3-I	63	Identical with each other except for appearance of indoor unit
BRAC-FM-IASP2-24-R3-I		

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
5	GENERAL CONDITIONS FOR THE TESTS		—
	Tests performed according to clause 5, e.g. nature of supply, sequence of testing, etc.		P
5.2	Tests of clause 21 carried out on separate samples. Tests of clauses 11, 19 and 21 require pressure measurements made at various points in refrigerating system (IEC 60335-2-40/A1)		P
	At least one additional specially prepared sample required for tests of annex FF (Leak simulation tests) (IEC 60335-2-40/A1)		P
	Temperatures on refrigerant piping measured during test of clause 11 (IEC 60335-2-40/A1)		P
5.6	Appropriate controls rendered inoperative during test (IEC 60335-2-40)		P
5.7	Tests of clauses 10 and 11 carried out under most severe operating conditions within operating temperature range specified by manufacturer. Annex AA provide examples of such temperature conditions (IEC 60335-2-40)		P
5.10	For split-package units, refrigerant lines installed in accordance with installation instructions (IEC 60335-2-40)		P
	Refrigerant line length is maximum length stated in installation instructions or (IEC 60335-2-40)		P
	7,5 m, whichever is shorter (IEC 60335-2-40)		P
	Thermal insulation of refrigerant lines applied in accordance with installation instructions (IEC 60335-2-40)		P
5.101	Motor-compressor subjected to relevant test of clause 19 of IEC 60335-2-34, unless (IEC 60335-2-40)	For KTM240D43UKUA2, KTF310D43UMT	P
	motor-compressor comply with that standard (IEC 60335-2-40)		P
5.102	Motor-compressors tested and comply with IEC 60335-2-34 need not additionally tested for clause 21 (IEC 60335-2-40/A1)		P
6	CLASSIFICATION		—
6.1	Protection against electric shock: Class I, II, III (IEC 60335-2-40).....:	Class I	P
6.2	Protection against harmful ingress of water, IP degree in accordance with IEC 60529 (IEC 60335-2-40)		—
	- appliances or parts intended for outdoor use be at least IPX4 (IEC 60335-2-40);	IPX4 for outdoor unit	P

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	- appliances intended only for indoor use (excluding laundry rooms) be IPX0 (IEC 60335-2-40);	For indoor unit	P
	- appliances intended to be used in laundry rooms be at least IPX1 (IEC 60335-2-40).		N/A
6.101	Degree of accessibility (accessible/not accessible to the general public) (IEC 60335-2-40)	Accessible to the general public	P
7	MARKING AND INSTRUCTIONS		—
7.1	Rated voltage or voltage range (V)	220 V – 240 V	P
	Symbol for nature of supply including number of phases, unless for single phase operation (IEC 60335-2-40).....	~	P
	Rated frequency (Hz)	50Hz	P
	Rated power input (W), or	Refer to p.2	P
	Rated current (A)	Refer to p.2	P
	Manufacturer's or responsible vendor's name, trademark or identification mark.....	BAUF	P
	Model or type reference	Refer to p.2	P
	Symbol IEC 60417-5172, for class II appliances		N/A
	IP number, other than IPX0.....	Outdoor unit: IPX4	P
	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
	Mass of refrigerant or of each refrigerant in blend (except for azeotropic type) (IEC 60335-2-40).....	See rating labels	P
	Refrigerant identification (IEC 60335-2-40).....	R32	P
	Permissible excessive operating pressure for sanitary hot water heat pumps (IEC 60335-2-40) ..		N/A
	Maximum operating pressure for heat exchanger for hydronic fan coil/air handling units (IEC 60335-2-40/A2)		N/A
	Permissible excessive operating pressure of refrigerant circuit for suction and discharge, if they differ (IEC 60335-2-40).....	See rating labels	P
	Symbol for degree of protection against ingress of water, other than IPX0 (IEC 60335-2-40).....		N/A

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	Separate marking of appliances with all rated characteristics of supplementary heaters (IEC 60335-2-40).....:		N/A
	Marking of direction of fluid flow (IEC 60335-2-40)		N/A
	Flame symbol and instruction manual symbol of 7.6 visible when flammable refrigerant employed and following conditions exist (IEC 60335-2-40/A1):		—
	- accessing parts expected to be subjected to maintenance or repair (IEC 60335-2-40/A1);		P
	- observing appliance under sale or installed conditions (IEC 60335-2-40/A1);		P
	- observing appliance packaging, if appliance charged with refrigerant (IEC 60335-2-40/A1).		P
	If flammable refrigerant used, symbols for “read operator’s manual”, “operator’s manual; operating instructions” and “service indicator; read technical manual” (symbols 0790, 1641 and 1659 of ISO 7000) placed on appliance in location visible to persons required to know information. Perpendicular height be at least 10 mm (IEC 60335-2-40/A1 corr.1)		P
	Additional warning symbol (flame symbol: B.3.2 of ISO 3864) placed on nameplate of unit near declaration of refrigerant type and charge information. Perpendicular height be at least 10 mm, and symbol need not be in colour (IEC 60335-2-40/A1)		P
	Following warning also applied to appliance when flammable refrigerant employed. WARNING Appliance shall be installed, operated and stored in a room with a floor area larger than ‘X’ m ² (only applies to appliances that are not fixed appliances) (IEC 60335-2-40/A1)		P
	Not fixed appliances, minimum room size X specified on appliance. X in marking determined in m ² by procedure described in paragraph 2 of annex GG for unventilated areas and X in marking be 4 if refrigerant charge of appliance is less than m ₁ (see annex GG, paragraph 1.1) (IEC 60335-2-40/A1)		N/A
	Maximum allowable pressure for low-pressure side and high-pressure side marked on product (IEC 60335-2-40/A1)		P

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	If not already visible when accessing service port and if service port provided, service port marked to identify type of refrigerant. If refrigerant is flammable, symbol B.3.2 of ISO 3864, be included, without specifying the colour (IEC 60335-2-40/A1)		P
7.2	Warning for stationary appliances for multiple supply		N/A
	Warning placed in vicinity of terminal cover		N/A
7.3	Range of rated values marked with the lower and upper limits separated by a hyphen		P
	Different rated values marked with the values separated by an oblique stroke		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
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		P
	Relation between marking for upper and lower limits of rated power input or rated current and voltage is clear		N/A
7.6	Correct symbols used		P
	Flammable refrigerant, warning symbol B.3.2 of ISO 3864, including colour and format, permanently placed on appliance. Perpendicular height of triangle containing "Caution, risk of fire" symbol be at least 30 mm (IEC 60335-2-40/A1)		P
	Flammable refrigerant, symbol requiring reference to manual [0790 of ISO 7000], including colour and format, permanently placed on appliance (IEC 60335-2-40/A1 corr.1)		P
	Symbol for nature of supply placed next to rated voltage		P
	Symbol for class II appliances placed unlikely to be confused with other marking		N/A

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	Units of physical quantities and their symbols according to international standardized system		P
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)		P
	- marking not placed on removable parts		P
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	Display panel and IR remote	P
	This applies also to switches which are part of a control		P
	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		P
7.12	Instructions for safe use provided		P
	Details concerning precautions during user maintenance		P
	Appliances not accessible to general public, classification of clause 6.101 included (IEC 60335-2-40)		N/A
	Appliances using flammable refrigerants, an installation, service and operation manual, either separate or combined manuals, provided and include information given in annex DD (IEC 60335-2-40/A1)		P
	The instructions state that:		—
	- the appliance is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction	Replaced by EN standard	P

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	- children being supervised not to play with the appliance		P
	For a part of class III construction supplied from a detachable power supply unit, the instructions state that the appliance is only to be used with the unit provided		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		P
	For an appliance intended to be permanently connected to the water mains and not connected by a hose-set, this is stated		N/A
	Sufficient details for installation or maintenance supplied (IEC 60335-2-40):		—
	- that the appliance shall be installed in accordance with national wiring regulations (IEC 60335-2-40);		P
	- the dimensions of the space necessary for correct installation of the appliance including the minimum permissible distance to adjacent structures (IEC 60335-2-40);		P
	- for appliances with supplementary heaters, the minimum clearance from the appliance to combustible surfaces (IEC 60335-2-40);		N/A
	- a wiring diagram with a clear indication of the connections and wiring to external control devices and supply cord (IEC 60335-2-40);		P
	- the range of external static pressures at which the appliance was tested (add-on heat pumps and appliances with supplementary heaters only) (IEC 60335-2-40);		P
	- the method of connection to the appliance to the electrical supply and interconnection of separate components (IEC 60335-2-40);		P
	- indication of which parts of the appliance are suitable for outdoor use, if applicable (IEC 60335-2-40);		P
	- details of type and rating of fuses (IEC 60335-2-40);		N/A
	- details of supplementary heating elements that may be used in conjunction with the appliance, including fitting instructions either with the appliance or with the supplementary heater (IEC 60335-2-40);		N/A

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	- maximum and minimum water or brine operating temperatures (IEC 60335-2-40);		N/A
	- maximum and minimum water or brine operating pressures (IEC 60335-2-40).		N/A
	Open storage tanks of heat pumps for water heating, accompanied by an instruction sheet which state that the vent shall not be obstructed (IEC 60335-2-40)		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		P
7.12.3	Insulation of the fixed wiring in contact with parts exceeding 50 K during clause 11; instructions state that the fixed wiring must be protected		N/A
7.12.4	Instructions for built-in appliances:		—
	- dimensions of space		N/A
	- dimensions and position of supporting and fixing		N/A
	- minimum distances between parts and surrounding structure		N/A
	- minimum dimensions of ventilating openings and arrangement		N/A
	- connection to supply mains and interconnection of separate components		N/A
	- allow disconnection of the appliance after installation, by accessible plug or a switch in the fixed wiring, unless		N/A
	a switch complying with 24.3		N/A
7.12.5	Replacement cord instructions, type X attachment with a specially prepared cord		N/A
	Replacement cord instructions, type Y attachment		P
	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		P
7.12.8	Instructions for appliances connected to the water mains:		—

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	- max. inlet water pressure (Pa)		N/A
	- min. inlet water pressure, if necessary (Pa)		N/A
	Instructions concerning new and old hose-sets for appliances connected to the water mains by detachable hose-sets		N/A
7.13	Instructions and other texts in an official language	English	P
7.14	Marking clearly legible and durable, rubbing test as specified		P
7.15	Markings on a main part		P
	Marking clearly discernible from the outside, if necessary after removal of a cover		P
	For portable appliances, cover can be removed or opened without a tool		N/A
	For stationary appliances, name, trademark or identification mark and model or type reference visible after installation		P
	For fixed appliances, name, trademark or identification mark and model or type reference visible after installation according to the instructions		P
	Indications for switches and controls placed on or near the components. Marking not on parts which can be positioned or repositioned in such a way that the marking is misleading		P
	Marking on panel allowed, provided panel in place for intended operation of appliance (IEC 60335-2-40)		N/A
7.16	Marking of a possible replaceable thermal link or fuse link clearly visible with regard to replacing the link		N/A
7.101	Marking of fuses and overload protective devices, if replaceable (IEC 60335-2-40):		—
	- fuse rated current in amperes, type and rated voltage or (IEC 60335-2-40)		N/A
	- manufacturer and model of overload protective device (IEC 60335-2-40)		N/A
7.102	Marking for connection with aluminium wire, if necessary (IEC 60335-2-40)		N/A
8	PROTECTION AGAINST ACCESS TO LIVE PARTS		—
8.1	Adequate protection against accidental contact with live parts		P
8.1.1	Requirement applies for all positions, detachable parts removed		P

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	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		P
	Use of test probe B of IEC 61032 through openings, with a force of 20 N: no contact with live parts		P
8.1.2	Use of test probe 13 of IEC 61032, with a force not exceeding 1 N, through openings in class 0 appliances and class II appliances/constructions: no contact with live parts		P
	Test probe 13 also applied through openings in earthed metal enclosures having a non-conductive coating: no contact with live parts		N/A
8.1.3	For appliances other than class II, use of test probe 41 of IEC 61032, with a force not exceeding 1 N: no contact with live parts of visible glowing heating elements		N/A
8.1.4	Accessible part not considered live if:		—
	- safety extra-low a.c. voltage: peak value not exceeding 42,4 V		N/A
	- safety extra-low d.c. voltage: not exceeding 42,4 V	Accessible internal wire of indoor unit of IACA series	P
	- or separated from live parts by protective impedance	Resistors used as protective impedance meeting the requirement of IEC 60065	P
	If protective impedance: d.c. current not exceeding 2 mA, and	For (HB-111, HB-113, HB-115): max. 0,054 mA.	P
	a.c. peak value not exceeding 0,7 mA		N/A
	- for peak values over 42,4 V up to and including 450 V, capacitance not exceeding 0,1 μ F		P
	- for peak values over 450 V up to and including 15 kV, discharge not exceeding 45 μ C		N/A
	- for peak values over 15kV, the energy in the discharge not exceeding 350 mJ	For (HB-111, HB-113, HB-115): max. 0,46 μ C.	P
8.1.5	Live parts protected at least by basic insulation before installation or assembly:		—
	- built-in appliances		N/A
	- fixed appliances		P
	- appliances delivered in separate units		P

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
8.2	Class II appliances and constructions constructed so that there is adequate protection against accidental contact with basic insulation and metal parts separated from live parts by basic insulation only		P
	Only possible to touch parts separated from live parts by double or reinforced insulation		P
9	STARTING OF MOTOR-OPERATED APPLIANCES		—
	Requirements and tests are specified in part 2 when necessary		N/A
10	POWER INPUT AND CURRENT		—
10.1	Power input at normal operating temperature, rated voltage and normal operation not deviating from rated power input by more than shown in table 1 .:	(see appended table)	P
	Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless		N/A
	the rated power input is related to the arithmetic mean value		P
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)	P
	Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless		N/A
	the rated current is related to the arithmetic mean value of the range		P
11	HEATING		—
11.1	No excessive temperatures in normal use (IEC 60335-2-40)		P
	Compliance is checked by the tests of annex C, if (IEC 60335-2-40):		—
	- temperature of motor winding exceeds values shown in table 3 (IEC 60335-2-40)		N/A
	- there is doubt about classification of insulation system of the motor (IEC 60335-2-40)		N/A
11.2	Placing and mounting of appliance (IEC/EN 60335-2-40):		—
	- clearances to adjacent surfaces (IEC 60335-2-40);		P
	- flow rates for liquid source or sink equipment be minimum, except for fan coils where flow rates and liquid temperatures be maximum (IEC 60335-2-40/A2);		N/A
	- static pressures (IEC 60335-2-40);		N/A

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	- means of adjusting the flow, flow for tests be minimum obtainable (IEC 60335-2-40);		N/A
	- adjustable limit controls set at maximum cut-out setting and minimum differential (IEC 60335-2-40).		P
	Appliances with supplementary heaters, use test casing of clause 11.9 (IEC 60335-2-40)		N/A
11.2.1	Appliances with supplementary heaters, inlet duct connected to inlet air opening (IEC 60335-2-40)		N/A
11.2.2	Appliance without supplementary heaters, air outlet used (IEC 60335-2-40)		N/A
11.3	Temperature rise determine by thermocouples or resistance method (IEC 60335-2-40)		P
11.4	Test performed at supply voltage between 0,94 and 1,06 times the rated voltage (IEC 60335-2-40)	Test performed at supply voltage between 0,94 and 1,06 times the rated voltage	P
	Heating elements energized at voltage which gives an electrical input of 1,15 times maximum rated power input (IEC 60335-2-40)		N/A
11.5	Test conducted in heating mode and cooling mode, if both exist (IEC 60335-2-40)		P
	All supplementary heating elements operative simultaneously (IEC 60335-2-40)		N/A
11.6	Defrost test in most unfavourable conditions, if needed (IEC/EN 60335-2-40)		N/A
11.7	Appliances operated continuously until steady conditions except for defrost tests (IEC 60335-2-40)		P
11.8	Temperatures not exceeding values of table 3 (IEC 60335-2-40/A2)	(see appended tables)	P
	Protective devices do not operate (IEC 60335-2-40)		P
	Sealing compound not flowing out (IEC 60335-2-40)	No sealing compound	N/A
	Temperature of air in outlet duct not exceed 90 °C (IEC 60335-2-40)		P
11.9	Test casing and installation of appliances in accordance with manufacturer's instructions (IEC 60335-2-40)		N/A
	Glass fibre insulation for appliances without indication of minimum clearances according to manufacturer; thermocouple in contact with enclosure (IEC 60335-2-40)		N/A
13	LEAKAGE CURRENT AND ELECTRIC STRENGTH AT OPERATING TEMPERATURE		—

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
13.1	Leakage current not excessive and electric strength adequate		P
	Heating appliances operated at 1,15 times the rated power input (W)		N/A
	Motor-operated appliances and combined appliances supplied at 1,06 times the rated voltage (V)	254,4 V	P
	Protective impedance and radio interference filters disconnected before carrying out the tests		P
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		P
	For other appliances, a low impedance ammeter may be used	Class I	P
	Leakage current measurements	(see appended table)	P
	(IEC 60335-2-40)		
13.3	The appliance is disconnected from the supply		P
	Electric strength tests according to table 4	(see appended table)	P
	No breakdown during the tests		P
14	TRANSIENT OVERVOLTAGES		—
	Appliances withstand the transient over-voltages to which they may be subjected		N/A
	Clearances having a value less than specified in table 16 subjected to an impulse voltage test, the test voltage specified in table 6		N/A
	No flashover during the test, unless		N/A
	of functional insulation if the appliance complies with clause 19 with the clearance short-circuited		N/A
15	MOISTURE RESISTANCE		—
15.1	Enclosure provides degree of moisture protection against ingress of water (rain, overflow from drain pan or defrosting), tests of clause 15.2, 15.3, 11.6 and 16) (IEC 60335-2-40)		P
	Motor-compressor not operated and detachable parts removed during tests of clause 15.2 and 15.3 (IEC 60335-2-40/A2)		P
15.2	Tests in accordance with IEC 60529 in appliances other than IPX0, as specified (IEC 60335-2-40) ...:	IPX4 for outdoor unit	P
15.3	Drain pan filled to brim and subjected to continuous overflow and fan(s) switched on (IEC 60335-2-40)		P
15.101	Spillage test as specified (IEC 60335-2-40/A2)	Installed at a height of greater than 2,0 m	N/A

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	After spillage completed, appliance withstand test of clause 16 (IEC 60335-2-40/A2)		N/A
16	LEAKAGE CURRENT AND ELECTRIC STRENGTH		—
16.1	Leakage current not excessive and electric strength adequate		P
	Protective impedance disconnected from live parts before carrying out the tests		P
	Tests carried out at room temperature and not connected to the supply		P
16.2	Single-phase appliances: test voltage 1,06 times rated voltage (V)	254,4 V	P
	Three-phase appliances: test voltage 1,06 times rated voltage divided by $\sqrt{3}$ (V)		N/A
	Leakage current measurements	(see appended table)	P
	(IEC 60335-2-40)		
	Limit values doubled if:		—
	- all controls have an off position in all poles, or		N/A
	- the appliance has no control other than a thermal cut-out, or		N/A
	- all thermostats, temperature limiters and energy regulators do not have an off position, or		N/A
	- the appliance has radio interference filters		N/A
	With the radio interference filters disconnected, the leakage current do not exceed limits specified		N/A
16.3	Electric strength tests according to table 7	(see appended table)	P
	Test voltage applied between the supply cord and inlet bushing and cord guard and cord anchorage as specified		N/A
	No breakdown during the tests		P
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)	P
	Appliance supplied with 1,06 or 0,94 times rated voltage under the most unfavourable short-circuit or overload likely to occur in normal use (V)	1,06 times rated voltage	P
	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

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	Temperature of the winding not exceeding the value specified in table 8	(see appended table)	P
	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 or mechanical damage under abnormal or careless operation obviated (tests 19.2-19.14) (IEC 60335-2-40)		P
	Failure of transfer medium flow or of any control device not result in a hazard (IEC 60335-2-40)		P
	Electronic circuits so designed and applied that a fault will not render the appliance unsafe (electric shock, fire or mechanical hazard, dangerous malfunction) (test 19.11 and 19.12) (IEC 60335-2-40)	(see appended table)	P
19.2	Test of appliance with motor rotors, other than motor-compressors, operated for 15 days (360 h) or until protection device opens circuit (IEC 60335-2-40)	Fan motor, step motor	P
	Insulation of motor windings (IEC 60335-2-40).....:	(see appended table)	P
	Temperature of enclosure does not exceed (°C) (IEC 60335-2-40).....:	(see appended table)	P
	Temperature of the windings does not exceed the values shown in the table ; temperature (°C) (IEC 60335-2-40).....:	(see appended table)	P
	Electric strength test as specified in 16.3, 72 h after the beginning of the test (IEC 60335-2-40)		P
	30 mA residual current device does not open (IEC 60335-2-40)		P
	At the end, leakage current between windings and enclosure does not exceed 2 mA (IEC 60335-2-40)		P
19.3	Motor-compressor complies with IEC 60335-2-34 (IEC 60335-2-40)		P
	Test of motor-compressor with rotor locked as specified in clause 19.101 of IEC 60335-2-34 and comply with 19.104 of that standard (IEC 60335-2-40)		P

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
19.4	Test of three-phase motors operated under conditions of clause 11 with one phase disconnected until steady conditions or protective device operates (IEC 60335-2-40)		N/A
19.5	Test of appliance with heat transfer medium flow of the outdoor heat exchanger restricted or shut off when reaching steady conditions (IEC 60335-2-40)		P
	Test of appliance with heat transfer flow of the indoor heat exchanger restricted or shut off when reaching steady conditions (IEC 60335-2-40)		P
	Disconnection of motor common to both the outdoor and the indoor heat exchangers when reaching steady conditions (IEC 60335-2-40)		N/A
19.6	Test of appliances using water as heat transfer medium (IEC 60335-2-40)		N/A
19.7	Test of air to air appliances at rated voltage or at the upper limit of the rated voltage range. Dry-bulb temperature is 5 K below values specified by manufacturer (IEC 60335-2-40)		P
	Test with the dry-bulb temperature 10 K over the values specified by manufacturer (IEC 60335-2-40)		P
19.8	Test of appliances with supplementary heaters (IEC 60335-2-40)		N/A
19.9	Test at temperature permitting continuous operation of the motor-compressor and electric heating elements at same time (IEC 60335-2-40)		N/A
19.10	Test of appliance with any defect which expected during normal use (IEC 60335-2-40)		P
19.10.101	Test of clause 19.10 repeated on class 0I appliances and class I appliances incorporating tubular sheathed or embedded heating elements (IEC 60335-2-40/A2)		N/A
	However, controls not short-circuited but one end of element connected to sheath of heating element (IEC 60335-2-40/A2)		N/A
	Test repeated with polarity of supply to appliance reversed and with other end of element connected to sheath (IEC 60335-2-40/A2)		N/A
	Test not carried out on appliances intended to permanently connected to fixed wiring and on appliances where an all-pole disconnection occurs during test of clause 19.10 (IEC 60335-2-40/A2)		N/A

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
19.11	Electronic circuits, compliance checked by evaluation of the fault conditions specified in clause 19.11.2 for all circuits or parts of circuits (IEC 60335-2-40), unless		P
	they comply with conditions specified in clause 19.11.1 (IEC 60335-2-40)		N/A
	Windings temperature not exceeding values shown in table 8 (IEC 60335-2-40)		P
	Appliance comply with conditions of clause 19.14 (IEC 60335-2-40)		P
	Appliance withstands test: a conductor becomes open circuited and three conditions are met (IEC 60335-2-40)		N/A
19.11.1	Before applying the fault conditions a) to f) in 19.11.2, it is checked if circuits or parts of circuit meet both of following conditions (IEC 60335-2-40):		—
	- electronic circuit is low-power circuit, that is, maximum power at low-power points not exceed 15 W according to tests specified (IEC 60335-2-40)		N/A
	- protection against electric shock, fire hazard, mechanical hazard or dangerous malfunction in other parts of appliance does not rely on correct functioning of electronic circuit (IEC 60335-2-40)		N/A
19.11.2	Fault conditions applied one at a time, appliance operated under conditions specified in clause 11, but supplied at rated voltage, duration of tests as specified (IEC 60335-2-40):		—
	a) short circuit of creepage distances and clearances between live parts of different potential, if these distances less than values specified in clause 29.1, unless relevant part is adequately encapsulated (IEC 60335-2-40)		N/A
	b) open circuit at terminals of any component (IEC 60335-2-40)	(see appended table)	P
	c) short circuit if capacitors, unless they comply with IEC 60384-14 (IEC 60335-2-40)	(see appended table)	P
	d) short circuit of any two terminals of an electronic component, other than integrated circuits. This fault condition not applied between circuits of an optocoupler (IEC 60335-2-40)	(see appended table)	P
	e) failure of triacs in diode mode (IEC 60335-2-40)		N/A
	f) failure of an integrated circuit. Possible hazardous situations of appliance assessed to ensure that safety not rely on correct functioning of such component (IEC 60335-2-40)	(see appended table)	P
	Short-circuit of low-power circuits (IEC 60335-2-40)		N/A

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	Duration of tests (IEC 60335-2-40):		—
	- as specified in clause 11.7 but only for one operating cycle, if fault cannot recognised by user (IEC 60335-2-40);		P
	- as specified in clause 19.2, if fault can recognised by user (IEC 60335-2-40);		N/A
	- until steady conditions established (IEC 60335-2-40).		P
	Test ended if interruption of supply occurs within the appliance (IEC 60335-2-40)		P
	If electronic circuit operates to ensure compliance with clause 19, relevant test repeated with single fault a) to f) simulated (IEC 60335-2-40)		N/A
	Fault condition f) applied to encapsulated or similar components (IEC 60335-2-40)		N/A
	PTC's, NTC's and VDR's resistors not short-circuited if used as specified by manufacturer (IEC 60335-2-40)		N/A
19.12	If safety of appliance for any of fault conditions specified in clause 19.11.2 depends on operation of miniature fuse-link complying with IEC 60127, test repeated with fuse-link replaced by an ammeter (IEC 60335-2-40)		P
	Current $\leq 2,1$ times rated current of fuse-link, circuit not adequately protected (fuse-link short-circuited) (IEC 60335-2-40)		N/A
	Current $\geq 2,75$ times rated current of fuse-link, circuit adequately protected (IEC 60335-2-40)	Rated: 3,15 A; measured: 22,0 A	P
	Current $\geq 2,1$ and $\leq 2,75$ times rated current, fuse-link short-circuited and test carried out during specified time (IEC 60335-2-40)		N/A
19.13	Appliances with PTC heating elements test as specified (IEC 60335-2-40)		N/A
19.14	During tests of clause 19.2 to 19.10.101 and 19.11, 19.12 and 19.13 if appropriate, appliances not emit flames, molten metal, poisonous or ignitable gas in hazardous amounts (IEC 60335-2-40/A2)		P
	Enclosures not deform (IEC 60335-2-40)		P
	Temperature rise not exceed values shown in table 9 (IEC 60335-2-40)	(See appended table)	P
	Electric strength test, test voltage as specified in table 4 (IEC 60335-2-40)		P

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
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
19.101	All appliances provided with supplementary heaters and free air discharge subjected to specified test in each mode of operation (IEC 60335-2-40/A2)		N/A
	During test temperature not exceed 150 °C but an overshoot of 25 °C is permitted during first hour (IEC 60335-2-40/A2)		N/A
20	STABILITY AND MECHANICAL HAZARDS		—
20.1	Appliances having adequate stability	Fixed appliance	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		P
	Protective enclosures, guards and similar parts are non-detachable, and		P
	have adequate mechanical strength		P
	Enclosures that can be opened by overriding an interlock are considered to be detachable parts		P
	Self-resetting thermal cut-outs and overcurrent protective devices not causing a hazard by unexpected closure		N/A
	Not possible to touch dangerous moving parts with the test probe described		P
21	MECHANICAL STRENGTH		—
21.1	Appliance has adequate mechanical strength and is constructed as to withstand rough handling		P
	Checked by applying 3 blows to every point of the enclosure like to be weak, in accordance with test Ehb of IEC 60068-2-75, spring hammer test, with an impact energy of 0,5 J	(see appended table)	P
	The appliance shows no damage impairing compliance with this standard, and		P

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	compliance with 8.1, 15.1 and clause 29 not impaired		P
	If doubt, supplementary or reinforced insulation subjected to the electric strength test of 16.3		N/A
	If necessary, repetition of groups of three blows on a new sample		N/A
	Safety requirements specified in annex EE applied. Pressure test in annex EE applies to parts other than pressure vessels (IEC 60335-2-40/A1)		P
	Safety requirements of ISO 5149 applied (IEC 60335-2-40/A2)		P
21.2	Accessible parts of solid insulation having strength to prevent penetration by sharp implements		P
	Test not applicable if the thickness of supplementary insulation is at least 1 mm and reinforced insulation at least 2 mm	Reinforced insulation Plastic enclosure: 2,5 mm	P
	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:		—
	- 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		P
	- an appliance inlet		N/A
	Single-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 50 N 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 1 mm		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Each pin subjected to a torque of 0,4 Nm; 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 μ 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		P
	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
	Electrical insulation not affected by snow penetration to appliance enclosure (IEC 60335-2-40)		P
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		P
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	Oil in the compressors is compatible with the insulation.	P
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

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Clause	Requirement + Test	Result - Remark	Verdict
	they are voltage maintained		N/A
	Reset buttons of non-self-resetting controls so located or protected that accidental resetting is unlikely		N/A
22.11	Reliable fixing of non-detachable parts that provide the necessary degree of protection against electric shock, moisture or contact with moving parts		P
	Obvious locked position of snap-in devices used for fixing such parts		N/A
	No deterioration of the fixing properties of snap-in devices used in parts that are likely to be removed during installation or servicing		N/A
	Tests as described	Applied on control panel, enclosure, barriers	P
22.12	Handles, knobs etc. fixed in a reliable manner		P
	Fixing in wrong position of handles, knobs etc. indicating position of switches or similar components not possible		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	Handle for outdoor unit	P
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		P
	No exposed pointed ends of self-tapping screws or other fasteners, likely to be touched by the user in normal use or during user maintenance		P
22.15	Storage hooks and the like for flexible cords smooth and well rounded		N/A
22.16	Automatic cord reels cause no undue abrasion or damage to the sheath of the flexible cord, no breakage of conductors strands and no undue wear of contacts		N/A
	Cord reel tested with 6000 operations, as specified		N/A
	Electric strength test of 16.3, voltage of 1000 V applied		N/A
22.17	Spacers not removable from the outside by hand or by means of a screwdriver or a spanner		N/A

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
22.18	Current-carrying parts and other metal parts resistant to corrosion		P
22.19	Driving belts not relied upon to provide the required level of insulation, unless		N/A
	constructed to prevent inappropriate replacement		N/A
22.20	Direct contact between live parts and thermal insulation effectively prevented, unless		N/A
	material used is non-corrosive, non-hygroscopic and non-combustible		N/A
22.21	Wood, cotton, silk, ordinary paper and fibrous or hygroscopic material not used as insulation, unless		P
	impregnated		N/A
	This requirement does not apply to magnesium oxide and mineral ceramic fibres used for the electrical insulation of heating elements		N/A
22.22	Appliances not containing asbestos		P
22.23	Oils containing polychlorinated biphenyl (PCB) not used		P
22.24	Bare heating elements adequately supported to prevent contact with accessible metal parts in case of rupture or sagging (IEC 60335-2-40)		N/A
	Bare heating elements only used with metal enclosures (wood or composite enclosures not allowed) (IEC 60335-2-40)		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		P
22.27	Parts connected by protective impedance separated by double or reinforced insulation		P
22.28	Metal parts of class II appliances conductively connected to gas pipes or in contact with water, separated from live parts by double or reinforced insulation		N/A
22.29	Class II appliances permanently connected to fixed wiring so constructed that the required degree of access to live parts is maintained after installation		N/A

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
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		P
22.31	Neither clearances nor creepage distances over supplementary and reinforced insulation reduced below values specified in clause 29 as a result of wear		P
	Neither clearances nor creepage distances between live parts and accessible parts reduced below values for supplementary insulation if wires, screws etc. become loose		P
22.32	Supplementary and reinforced insulation constructed or protected against pollution so that clearances or creepage distances are not reduced below the values in clause 29		P
	Supplementary insulation of natural or synthetic rubber resistant to ageing, or arranged and dimensioned so that creepage distances are not reduced below values specified in 29.2		N/A
	Ceramic material not tightly sintered, similar materials or beads alone not used as supplementary or reinforced insulation		N/A
	Insulating material in which heating conductors are embedded is considered to be basic insulation, not reinforced insulation		N/A
	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		P
	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		P
	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

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	the reinforced insulation consists of at least 3 layers		N/A
	An air layer not used as basic or supplementary insulation in a double insulation system if likely to be bridged by leaking liquid		N/A
22.34	Shafts of operating knobs, handles, levers etc. not live, unless		N/A
	the shaft is not accessible when the part is removed		N/A
22.35	For other than class III constructions, handles, levers and knobs, held or actuated in normal use, not becoming live in the event of a failure of basic insulation		N/A
	Such parts being of metal, and their shafts or fixings are likely to become live in the event of a failure of basic insulation, are either adequately covered by insulation material or their accessible parts are separated from their shafts or fixings by supplementary insulation		N/A
	This requirement does not apply to handles, levers and knobs on stationary appliances, other than those of electrical components, provided they are reliably connected to an earthing terminal or earthing contact, or separated from live parts by earthed metal		N/A
	Insulating material covering metal handles, levers and knobs withstand the electric strength test of 16.3 for supplementary insulation		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		P
22.39	Lamp holders used only for the connection of lamps		N/A

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
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		N/A
	If the appliance cannot operate continuously, automatically or remotely without giving rise to a hazard, appliances for remote operation being fitted with a switch for stopping the operation. The actuating member of the switch being easily visible and accessible		N/A
22.41	No components, other than lamps, containing mercury		P
22.42	Protective impedance consisting of at least two separate components	Approved negative ion generator used	P
	Values specified in 8.1.4 not exceeded if any one of the components are short-circuited or open-circuited		P
	Resistors checked by the test of 14.1 a) in IEC 60065	Approved negative ion generator used	P
	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		P
22.45	When air is used as reinforced insulation, clearances not reduced below the values specified in 29.1.3 due to deformation as a result of an external force applied to the enclosure		P
22.46	For programmable protective electronic circuits used to ensure compliance with the standard, the software contains measures to control the fault/error conditions in table R.1		N/A
	Software that contains measures to control the fault/error conditions specified in table R.2 is to be specified in parts 2 for particular constructions or to address specific hazards		N/A
	These requirements are not applicable to software used for functional purpose or compliance with clause 11		N/A
22.47	Appliances connected to the water mains withstand the water pressure expected in normal use		N/A

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	No leakage from any part, including any inlet water hose		N/A
22.48	Appliances connected to the water mains constructed to prevent backsiphonage of non-potable water		N/A
22.49	For remote operation, the duration of operation is to be set before the appliance can be started, unless		N/A
	the appliance switches off automatically or can operate continuously without hazard		N/A
22.50	Controls incorporated in the appliance take priority over controls actuated by remote operation		N/A
22.51	There is a control on the appliance manually adjusted to the setting for remote operation before the appliance can be operated in this mode		N/A
	There is a visual indication showing that the appliance is adjusted for remote operation		N/A
	These requirements not necessary on appliances that can operate as follows, without giving rise to a hazard:		—
	- continuously, or		P
	- automatically, or		P
	- remotely		P
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
22.101	Appliances intended to be fixed, securely fixed (IEC 60335-2-40)		N/A
22.102.1	At least two thermal cut-outs in appliances with supplementary heating elements for air (first one be self-resetting and other non-self-resetting thermal cut-out) (IEC 60335-2-40/A2)		N/A
22.102.2	Appliances provided with supplementary heaters for water incorporate non-self-resetting thermal cut-out, providing all-pole disconnection that operates separately from water thermostats (IEC 60335-2-40/A2)		N/A
	However, for appliances intended to be connected to fixed wiring, the neutral conductor need not be disconnected (IEC 60335-2-40/A2)		N/A
22.102.3	Thermal cut-outs of capillary type open in event of leakage from capillary tube (IEC 60335-2-40/A2)		N/A
22.103	Non-self-resetting cut-outs independent of other control devices (IEC 60335-2-40)		N/A

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
22.104	Containers of sanitary hot water heat pumps withstand twice permissible operating pressure in closed containers (IEC 60335-2-40) or		N/A
	0,15 Mpa in open containers (IEC 60335-2-40)		N/A
	without leakage or rupture (IEC 60335-2-40)		N/A
22.105	Air or vapour cushion in closed containers not exceeding 10 % (IEC 60335-2-40)		N/A
22.106	Pressure relief devices operating at 0,1 Mpa over permissible operating pressure (IEC 60335-2-40)		N/A
22.107	Water outlet systems of open containers free from obstruction causing over-pressure (IEC 60335-2-40)		N/A
	Vented containers of sanitary hot water heat pumps always open to the atmosphere through appropriate aperture (IEC 60335-2-40)		N/A
22.108	Not vented open containers subjected to test in accordance with clause 22.104 to vacuum of 33 kPa for 15 min (IEC 60335-2-40)		N/A
	Container show no deformation which result in a hazard (IEC 60335-2-40)		N/A
22.109	Replacement of non-self-resetting thermal cut-outs does not damage other connections (IEC 60335-2-40)		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 enclosure (IEC 60335-2-40)		N/A
	Test repeated five times without blowing 3 A fuse which connects appliance to earth (IEC 60335-2-40)		N/A
	Electric strength test as specified in clause 16.3 for supplementary heating elements (IEC 60335-2-40)		N/A
22.111	Manual resetting of thermostats not necessary after power supply interruption (IEC 60335-2-40)		N/A
22.112	Construction of refrigerating system comply with requirements of Section 3 of ISO 5149 (IEC 60335-2-40/A1)		P
22.113	Flammable refrigerant used, refrigerant tubing protected or enclosed to avoid mechanical damage (IEC 60335-2-40/A1)		P
	Tubing protected to extent that it will not be handled or used for carrying during moving of product (IEC 60335-2-40/A1)		P

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	Tubing located within confines of cabinet considered to be protected from mechanical damage (IEC 60335-2-40/A1)		P
22.114	Flammable refrigerant used, low temperature solder alloys, such as lead/tin alloys, not acceptable for pipe connections (IEC 60335-2-40/A1)		P
22.115	Total refrigerant mass (M) of all refrigerating systems within appliance employing flammable refrigerants, not exceed m_3 defined in annex GG (IEC 60335-2-40/A1)		P
22.116	Appliances using flammable refrigerants constructed that any leaked refrigerant not flow or stagnate so as to cause fire or explosion hazard in areas within appliance where electrical components, which could be a source of ignition and which could function under normal conditions or in event of leak, fitted (IEC 60335-2-40/A1)		P
	Separate components, such as thermostats, which charged with less than 0,5 g of flammable gas not considered to cause fire or explosion hazard in event of leakage of gas within component itself (IEC 60335-2-40/A1)		P
	All electrical components that could be a source of ignition and which could function under normal conditions or in the event of a leak, comply with one of the following (IEC 60335-2-40/A1):		—
	- IEC 60079-15:2001, Cl. 9 to 26, for group IIA gases or the refrigerant used or an applicable standard that makes electrical components suitable for use in Zone 2, 1 or 0 as defined in IEC 60079-14 (IEC 60335-2-40/A1)	Relays comply with IEC/EN 60079-15	P
	- Not be located in an area where a potentially flammable gas mixture will accumulate as demonstrated by the test of annex FF (IEC 60335-2-40/A1)		P
	- Be located in an enclosure. The enclosure containing the electrical components comply with IEC 60079-15:2001 for enclosures suitable for use with group IIA gases or the refrigerant used (IEC 60335-2-40/A1)		N/A
22.117	Temperatures on surfaces that exposed to leakage of flammable refrigerants not exceed auto-ignition temperature of refrigerant reduced by 100 K; some typical values given in annex BB (IEC 60335-2-40/A1)		P

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
22.118	Flammable refrigerant used, all appliances charged with refrigerant at manufacturing location or charged on site as recommended by manufacturer (IEC 60335-2-40/A1)		P
	Part of appliance that charged on site, which requires brazing or welding in installation not shipped with flammable refrigerant charge. Joints made in installation between parts of refrigerating system, with at least one part charged, made in accordance with following (IEC 60335-2-40/A1):		—
	- A brazed, welded, or mechanical connection shall be made before opening the valves to permit refrigerant to flow between the refrigerating system parts. A vacuum valve shall be provided to evacuate the interconnecting pipe and/or any uncharged refrigerating system part (IEC 60335-2-40/A1)		N/A
	- Reusable mechanical connectors and flared joints are not allowed indoors (IEC 60335-2-40/A1)		N/A
	- Refrigerant tubing shall be protected or enclosed to avoid damage (IEC 60335-2-40/A1)		N/A
	Flexible refrigerant connectors (such as connecting lines between the indoor and outdoor unit) that may be displaced during normal operations shall be protected against mechanical damage (IEC 60335-2-40/A1)		N/A
23	INTERNAL WIRING		—
23.1	Wireways smooth and free from sharp edges		P
	Wires protected against contact with burrs, cooling fins etc.		P
	Wire holes in metal well-rounded or provided with bushings		P
	Wiring effectively prevented from coming into contact with moving parts		P
23.2	Beads etc. on live wires cannot change their position, and are not resting on sharp edges		N/A
	Beads inside flexible metal conduits contained within an insulating sleeve		N/A
23.3	Electrical connections and internal conductors movable relatively to each other not exposed to undue stress		N/A
	Flexible metallic tubes not causing damage to insulation of conductors		N/A
	Open-coil springs not used		N/A
	Adequate insulating lining provided inside a coiled spring, the turns of which touch one another		N/A

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	No damage after 10 000 flexings for conductors flexed during normal use, or		N/A
	100 flexings for conductors flexed during user maintenance		N/A
	Electric strength test of 16.3, 1000 V between live parts and accessible metal parts		N/A
	Not more than 10 % of the strands of any conductor broken, and		N/A
	not more than 30 % for wiring supplying circuits that consume no more than 15 W		N/A
23.4	Bare internal wiring sufficiently rigid and fixed		N/A
23.5	The insulation of internal wiring subjected to the supply mains voltage withstanding the electrical stress likely to occur in normal use		P
	Basic insulation electrically equivalent to the basic insulation of cords complying with IEC 60227 or IEC 60245, or		P
	no breakdown when a voltage of 2000 V is applied for 15 min between the conductor and metal foil wrapped around the insulation		P
23.6	Sleeving used as supplementary insulation on internal wiring retained in position by clamping at both ends, or		N/A
	be such that it can only be removed by breaking or cutting		N/A
23.7	The colour combination green/yellow only used for earthing conductors		P
23.8	Aluminium wires not used for internal wiring	No aluminium wire used.	N/A
23.9	Stranded conductors not consolidated by soldering where they are subjected to contact pressure, unless	No such constructions	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		P
	List of components	(See appended table)	P

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	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
	For components mentioned in 24.1.1 to 24.1.9 no additional tests specified in the relevant component standard are necessary other than those specified in 24.1.1 to 24.1.9		P
	Components not tested and found to comply with relevant IEC standard and components not marked or not used in accordance with its marking, tested under the conditions occurring in the appliance		P
	Lampholders and starterholders that have not being tested and found to comply with the relevant IEC standard, tested as a part of the appliance and additionally according to the gauging and interchangeability requirements of the relevant IEC standard		N/A
	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
	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)		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	Approved capacitor used	P
	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		P
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 starting relay complying with IEC 60730-2-10 with the number of cycles of a least 10 000 as specified, the complete switching system need not be tested		N/A

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
24.1.4	Automatic controls complying with IEC 60730-1 with the relevant part 2. The number of cycles of operation being at least:		—
	- thermostats:..... 10 000		N/A
	- temperature limiters: 1 000		N/A
	- self-resetting thermal cut-outs: 300		N/A
	- voltage maintained non-self-resetting thermal cut-outs: 1 000		N/A
	- other non-self-resetting thermal cut-outs:..... 30		N/A
	- timers: 3 000		N/A
	- energy regulators: 10 000		N/A
	- thermostats which control motor-compressor (IEC/EN 60335-2-40):..... 100 000		N/A
	- motor-compressor starting relays (IEC/EN 60335-2-40):..... 100 000		N/A
	- automatic thermal motor-protectors for hermetic and semi-hermetic type motor-compressors (not less than number of operations during locked rotor test) (IEC/EN 60335-2-40):.....min 2000		P
	- manual reset thermal motor-protectors for hermetic and semi-hermetic type motor-compressors (IEC/EN 60335-2-40): 50		N/A
	- other automatic thermal motor-protectors (IEC/EN 60335-2-40):..... 2000		P
	- other manual reset thermal motor-protectors (IEC/EN 60335-2-40):..... 30		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

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	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		P
	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.....:	Approved relay used	P
24.2	Appliances not fitted with:		—
	- switches or automatic controls in flexible cords		P
	- devices causing the protective device in the fixed wiring to operate in the event of a fault in the appliance		P
	- thermal cut-outs that can be reset by soldering, unless		N/A
	the solder has a melting 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		P

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	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	Max. Measured: Indoor fan motor: 323 V	P
24.6	Working voltage of motors connected to the supply mains and having basic insulation that is inadequate for the rated voltage of the appliance, not exceeding 42 V		N/A
	In addition, the motors comply with the requirements of annex I		N/A
24.7	Detachable hose-sets for connection of appliances to the water mains comply with IEC 61770		N/A
	They are supplied with the appliance		N/A
	Appliances intended to be permanently connected to the water mains not connected by a detachable hose-set		N/A
24.8	Motor running capacitors in appliances for which 30.2.3 is applicable and that are permanently connected in series with a motor winding, not causing a hazard in event of a failure		P
	One or more of the following conditions are to be met:		—
	- the capacitors are of class P2 according to IEC 60252-1		P
	- the capacitors are housed within a metallic or ceramic enclosure		N/A
	- the distance of separation of the outer surface to adjacent non-metallic parts exceeds 50 mm		N/A
	- adjacent non-metallic parts within 50 mm withstand the needle-flame test of annex E		N/A
	- adjacent non-metallic parts within 50 mm classified as at least V-1 according to IEC 60695-11-10		N/A
24.101	Replaceable parts of thermal control devices identified by marking (IEC 60335-2-40)		N/A
25	SUPPLY CONNECTION AND EXTERNAL FLEXIBLE CORDS		—
25.1	Appliance not intended for permanent connection to fixed wiring, means for connection to the supply:		—
	- supply cord fitted with a plug,		N/A
	- an appliance inlet having at least the same degree of protection against moisture as required for the appliance, or		N/A
	- pins for insertion into socket-outlets		N/A

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	Supply cord fitted with plug provided, if (IEC 60335-2-40):		—
	- appliance only for indoor use (IEC 60335-2-40),		N/A
	- marked with rating of 25 A or less and (IEC 60335-2-40)		N/A
	- complies with code requirements of country where it will be used (IEC 60335-2-40).		N/A
	Appliance inlet not allowed (IEC 60335-2-40)		P
25.2	Appliance not provided with more than one means of connection to the supply mains		P
	Stationary appliance for multiple supply may be provided with more than one means of connection, provided electric strength test of 1250 V for 1 min between each means of connection causes no breakdown		N/A
25.3	Appliance intended to be permanently connected to fixed wiring provided with one of the following means for connection to the supply mains:		—
	- a set of terminals allowing the connection of a flexible cord		P
	- a fitted supply cord		N/A
	- a set of supply leads accommodated in a suitable compartment		N/A
	- a set of terminals for the connection of cables of fixed wiring, cross-sectional areas specified in 26.6, and the appliance allows the connection of the supply conductors after the appliance has been fixed to its support		N/A
	- a set of terminals and cable entries, conduit entries, knock-outs or glands, allowing connection of appropriate types of cable or conduit, and the appliance allows the connection of the supply conductors after the appliance has been fixed to its support		N/A
	For a fixed appliance constructed so that parts can be removed to facilitate easy installation, this requirement is met if it is possible to connect the fixed wiring without difficulty after a part of the appliance has been fixed to its support		N/A
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:		—

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	- type X attachment		N/A
	- type Y attachment		P
	- type Z attachment, if allowed in relevant part 2		N/A
	Type X attachment, other than those with a specially prepared cord, not used for flat twin tinsel cords		N/A
	For multi-phase appliances supplied with a supply cord and that are intended to be permanently connected to fixed wiring, the supply cord is assembled to the appliance by type Y attachment		N/A
25.6	Plugs fitted with only one flexible cord		N/A
25.7	Supply cords, other than for class III appliances, being one of the following types:		—
	- rubber sheathed (at least 60245 IEC 53)		N/A
	- polychloroprene sheathed (at least 60245 IEC 57)	H05RN-F / 60245 IEC 57	P
	- 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		—
	- 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	H05VV-F / 60227 IEC 53	P
	- heat resistant polyvinyl chloride sheathed. Not used for type X attachment other than specially prepared cords		—
	- 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
	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
	Supply cords for outdoor use not lighter than polychloroprene sheathed flexible cord (60245 IEC 57) (IEC 60335-2-40)		N/A
25.8	Nominal cross-sectional area of supply cords not less than table 11; rated current (A); cross-sectional area (mm ²).....:	Refer to user manual	P
25.9	Supply cords not in contact with sharp points or edges		P

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
25.10	Supply cord of class I appliances have a green/yellow core for earthing		P
25.11	Conductors of supply cords not consolidated by soldering where they are subject to contact pressure, unless		P
	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		P
	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:		—
	- applied force (N).....:		N/A
	- number of flexings.....:		N/A
	The test does not result in:		—
	- short-circuit between the conductors, such that the current exceeds a value of twice the rated current		N/A
	- breakage of more than 10 % of the strands of any conductor		N/A
	- separation of the conductor from its terminal		N/A
	- loosening of any cord guard		N/A
	- damage to the cord or the cord guard		N/A
	- broken strands piercing the insulation and becoming accessible		N/A
25.15	For appliances with supply cord and appliances to be permanently connected to fixed wiring by a flexible cord, conductors of the supply cord relieved from strain, twisting and abrasion by use of cord anchorage		P
	The cord cannot be pushed into the appliance to such an extent that the cord or internal parts of the appliance can be damaged		P

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	Pull and torque test of supply cord, values shown in table 12: mass (kg); pull (N); torque (not on automatic cord reel) (Nm).....:	100 N, 0,35 Nm	P
	Cord not damaged and max. 2 mm displacement of the cord	Cord displacement: 1,0 mm	P
25.16	Cord anchorages for type X attachments constructed and located so that:		—
	- replacement of the cord is easily possible		N/A
	- it is clear how the relief from strain and the prevention of twisting are obtained		N/A
	- they are suitable for different types of supply cord		N/A
	- cord cannot touch the clamping screws of cord anchorage if these screws are accessible, unless		N/A
	they are separated from accessible metal parts by supplementary insulation		N/A
	- the cord is not clamped by a metal screw which bears directly on the cord		N/A
	- at least one part of the cord anchorage securely fixed to the appliance, unless		N/A
	it is part of a specially prepared cord		N/A
	- screws which have to be operated when replacing the cord do not fix any other component, unless		N/A
	the appliance becomes inoperative or incomplete or the parts cannot be removed without a tool		N/A
	- if labyrinths can be bypassed the test of 25.15 is nevertheless withstood		N/A
	- for class 0, 0I and I appliances they are of insulating material or are provided with an insulating lining, unless		N/A
	failure of the insulation of the cord does not make accessible metal parts live		N/A
	- for class II appliances they are of insulating material, or		N/A
	if of metal, they are insulated from accessible metal parts by supplementary insulation		N/A
	After the test of 25.15, under the conditions specified, the conductors have not moved by more than 1 mm in the terminals		N/A
25.17	Adequate cord anchorages for type Y and Z attachment, test with the cord supplied with the appliance	Type Y attachment	P
25.18	Cord anchorages only accessible with the aid of a tool, or		P

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	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	Type Y attachment	P
25.21	Space for supply cord for type X attachment or for connection of fixed wiring constructed:		—
	- to permit checking of conductors with respect to correct positioning and connection before fitting any cover		N/A
	- so there is no risk of damage to the conductors or their insulation when fitting the cover		N/A
	- for portable appliances, so that the uninsulated end of a conductor, if it becomes free from the terminal, prevented from contact with accessible metal parts		N/A
	2 N test to the conductor for portable appliances; no contact with accessible metal parts		N/A
25.22	Appliance inlets:		—
	- live parts not accessible during insertion or removal		N/A
	Requirement not applicable to appliance inlets complying with IEC 60320-1		N/A
	- connector can be inserted without difficulty		N/A
	- the appliance is not supported by the connector		N/A
	- not for cold conditions if temp. rise of external metal parts exceeds 75 K during clause 11, unless		N/A
	the supply cord is unlikely to touch such metal parts		N/A
25.23	Interconnection cords comply with the requirements for the supply cord, except that:		P
	- the cross-sectional area of the conductors is determined on the basis of the maximum current during clause 11		P
	- 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		P

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
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		P
	Terminals only accessible after removal of a non-detachable cover, except		P
	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		P
	the connections are soldered		P
	Screws and nuts not used to fix any other component, except		P
	internal conductors, if so arranged that they are unlikely to be displaced when fitting the supply conductors		P
	If soldered connections used, the conductor so positioned or fixed that reliance is not placed on soldering alone, unless		N/A
	barriers provided so that neither clearances nor creepage distances between live parts and other metal parts reduced below the values for supplementary insulation if the conductor becomes free at the soldered joint		N/A
26.3	Terminals for type X attachment and for connection of cables of fixed wiring so constructed that the conductor is clamped between metal surfaces with sufficient contact pressure but without damaging the conductor		P
	Terminals fixed so that when the clamping means is tightened or loosened:		—
	- the terminal does not become loose		P
	- internal wiring is not subjected to stress		P

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	- neither clearances nor creepage distances are reduced below the values in clause 29		P
	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).....:	4 mm; V; 1,2 Nm	P
	No deep or sharp indentations of the conductors		P
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		P
	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).....:	See clause 25.8	P
	If a specially prepared cord is used, terminals need only be suitable for that cord		N/A
26.7	Terminals for type X attachment, except in class III appliances not containing live parts, accessible after removal of a cover or part of the enclosure		N/A
26.8	Terminals for the connection of fixed wiring, including the earthing terminal, located close to each other		P
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

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	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	Type Y attachment, crimped connection used.	P
	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		P
	Earthing terminals and earthing contacts not connected to the neutral terminal		P
	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		P
	Terminals for the connection of external equipotential bonding conductors allow connection of conductors of 2,5 to 6 mm ² , and		N/A
	do not provide earthing continuity between different parts of the appliance, and		N/A
	conductors cannot be loosened without the aid of a tool		N/A
27.3	For a detachable part having an earth connection and being plugged into another part of the appliance, the earth connection is made before and separated after current-carrying connections when removing the part		N/A
	For appliances with supply cords, current-carrying conductors become taut before earthing conductor, if the cord slips out of the cord anchorage	Compliance	P
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		P

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	Parts providing earthing continuity, other than parts of a metal frame or enclosure, have adequate resistance to corrosion		P
	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		P
	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)	Max. 0,03 Ω	P
27.6	The printed conductors of printed circuit boards not used to provide earthing continuity in hand-held appliances.		N/A
	They may be used to provide earthing continuity in other appliances if at least two tracks are used with independent soldering points and the appliance complies with 27.5 for each circuit		N/A
28	SCREWS AND CONNECTIONS		—
28.1	Fixings, electrical connections and connections providing earthing continuity withstand mechanical stresses		P
	Screws not of soft metal liable to creep, such as zinc or aluminium		P
	Diameter of screws of insulating material min. 3 mm		N/A
	Screws of insulating material not used for any electrical connections or connections providing earthing continuity		N/A
	Screws used for electrical connections or connections providing earthing continuity screwed into metal		P
	Screws not of insulating material if their replacement by a metal screw can impair supplementary or reinforced insulation		N/A

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	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)	P
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		P
	there is resiliency in the metallic parts to compensate for shrinkage or distortion of the insulating material		P
	This requirement does not apply to electrical connections in circuits of appliances for which:		—
	- 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		P
	Thread-cutting (self-tapping) screws and thread rolling screws only used for electrical connections if they generate a full form standard machine screw thread		N/A
	Thread-cutting (self-tapping) screws not used if they are likely to be operated by the user or installer		N/A
	Thread-cutting, thread rolling and space threaded screws may be used in connections providing earthing continuity provided it is not necessary to disturb the connection:		—
	- in normal use,		N/A
	- during user maintenance,		N/A
	- when replacing a supply cord having a type X attachment, or		N/A
	- during installation		N/A
	At least two screws being used for each connection providing earthing continuity, unless		N/A
	the screw forms a thread having a length of at least half the diameter of the screw		N/A

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
28.4	Screws and nuts that make mechanical connection secured against loosening if they also make electrical connections or connections providing earthing continuity		P
	This requirement does not apply to screws in the earthing circuit if at least two screws are used, or		N/A
	if an alternative earthing circuit is provided		N/A
	Rivets for electrical connections or connections providing earthing continuity secured against loosening if the connections are subjected to torsion		N/A
29	CLEARANCES, CREEPAGE DISTANCES AND SOLID INSULATION		—
	Clearances, creepage distances and solid insulation withstand electrical stress		P
	For coatings used on printed circuits boards to protect the microenvironment (Type 1) or to provide basic insulation (Type 2), annex J applies		N/A
	The microenvironment is pollution degree 1 under type 1 protection		N/A
	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
	For motor-compressor not complying with IEC 60335-2-34, additions and modifications as specified (IEC 60335-2-40)		P
29.1	Clearances not less than the values specified in table 16, taking into account the rated impulse voltage for the overvoltage categories of table 15, unless	(see appended table)	P
	for basic insulation and functional insulation they comply with the impulse voltage test of clause 14		N/A
	However, if the distances are affected by wear, distortion, movement of the parts or during assembly, the clearances for rated impulse voltages of 1500 V and above are increased by 0,5 mm and the impulse voltage test is not applicable		P
	Impulse voltage test is not applicable:		—
	- when the microenvironment is pollution degree 3, or		P

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	- for basic insulation of class 0 and class 01 appliances		N/A
	Appliances are in overvoltage category II		P
	A force of 2 N is applied to bare conductors, other than heating elements		N/A
	A force of 30 N is applied to accessible surfaces		P
29.1.1	Clearances of basic insulation withstand the overvoltages, taking into account the rated impulse voltage		P
	The values of table 16 or the impulse voltage test of clause 14 are applicable.....:	(see appended table)	P
	Clearance at the terminals of tubular sheathed heating elements may be reduced to 1,0 mm if the microenvironment is pollution degree 1		N/A
	Lacquered conductors of windings considered to be bare conductors		P
29.1.2	Clearances of supplementary insulation not less than those specified for basic insulation in table 16	(see appended table)	P
29.1.3	Clearances of reinforced insulation not less than those specified for basic insulation in table 16, using the next higher step for rated impulse voltage	(see appended table)	P
	For double insulation, with no intermediate conductive part between basic and supplementary insulation, clearances are measured between live parts and the accessible surface, and the insulation system is treated as reinforced insulation		N/A
29.1.4	Clearances for functional insulation are the largest values determined from:		—
	- table 16 based on the rated impulse voltage	(see appended table)	P
	- table F.7a in IEC 60664-1, frequency not exceeding 30 kHz		N/A
	- clause 4 of IEC 60664-4, frequency exceeding 30 kHz		N/A
	If values of table 16 are largest, the impulse voltage test of clause 14 may be applied instead, unless		N/A
	the microenvironment is pollution degree 3, or		P
	the distances can be affected by wear, distortion, movement of the parts or during assembly		P
	However, clearances are not specified if the appliance complies with clause 19 with the functional insulation short-circuited		N/A

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	Lacquered conductors of windings considered to be bare conductors		P
	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 rated voltage, clearances for basic insulation are the largest values determined from:		—
	- table 16 based on the rated impulse voltage	(see appended table)	P
	- table F.7a in IEC 60664-1, frequency not exceeding 30 kHz		N/A
	- clause 4 of IEC 60664-4, frequency exceeding 30 kHz		N/A
	If 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
	Circuits supplied with a voltage lower than rated voltage, clearances of functional insulation are based on the working voltage used as the rated voltage in table 15		N/A
29.2	Creepage distances not less than those appropriate for the working voltage, taking into account the material group and the pollution degree.....:	(see appended table)	P
	Pollution degree 2 applies, unless	For main PCB	P
	- precautions taken to protect the insulation; pollution degree 1	Inside compressor	P

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Clause	Requirement + Test	Result - Remark	Verdict
	- insulation subjected to conductive pollution; pollution degree 3	For other parts	P
	A force of 2 N is applied to bare conductors, other than heating elements		N/A
	A force of 30 N is applied to accessible surfaces		P
	In a double insulation system, the working voltage for both the basic and supplementary insulation is taken as the working voltage across the complete double insulation system		N/A
	Insulation located in airflow, pollution degree 3 unless (IEC 60335-2-40)		P
	insulation enclosed or located so that unlikely to be exposed to pollution due to normal use (IEC 60335-2-40)		P
29.2.1	Creepage distances of basic insulation not less than specified in table 17.....:	(see appended table)	P
	However, if the working voltage is periodic and has a frequency exceeding 30 kHz, the creepage distances are also determined from table 2 of IEC 60664-4, these values being used if exceeding the values in table 17		N/A
	Except for pollution degree 1, corresponding creepage distance not less than the minimum specified for the clearance in table 16, if the clearance has been checked according to the test of clause 14		N/A
29.2.2	Creepage distances of supplementary insulation at least those specified for basic insulation in table 17, or	(see appended table)	P
	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)	P
	Table 2 of IEC 60664-4, as applicable		N/A
29.2.4	Creepage distances of functional insulation not less than specified in table 18.....:	(see appended table)	P
	However, if the working voltage is periodic and has a frequency exceeding 30 kHz, the creepage distances are also determined from table 2 of IEC 60664-4, these values being used if exceeding the values in table 18		N/A
	Creepage distances may be reduced if the appliance complies with clause 19 with the functional insulation short-circuited		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
29.3	Supplementary and reinforced insulation have adequate thickness, or a sufficient number of layers, to withstand the electrical stresses		P
	Compliance checked:		—
	- by measurement, in accordance with 29.3.1, or		P
	- 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	Plastic enclosure: 2,5 mm	P
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		P
	the electric strength test of 16.3		P
	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		P
29.3.4	Thickness of accessible parts of reinforced insulation consisting of a single layer not less than specified in table 19.....:		N/A
30	RESISTANCE TO HEAT AND FIRE		—
30.1	External parts of non-metallic material,		P
	parts supporting live parts, and		P
	parts of thermoplastic material providing supplementary or reinforced insulation		P
	sufficiently resistant to heat		P
	Ball-pressure test according to IEC 60695-10-2		P

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	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)	P
	Parts of thermoplastic material providing supplementary or reinforced insulation tested at 25 °C plus the maximum temperature rise determined during clause 19, if higher; temperature (°C)		N/A
30.2	Parts of non-metallic material resistant to ignition and spread of fire	(see appended table)	P
	This requirement does not apply to:		—
	parts having a mass not exceeding 0,5 g, provided the cumulative effect is unlikely to propagate flames that originate inside the appliance by propagating flames from one part to another, or		N/A
	decorative trims, knobs and other parts unlikely to be ignited or to propagate flames that originate inside the appliance		N/A
	Compliance checked by the test of 30.2.1, and in addition:		N/A
	- for attended appliances, 30.2.2 applies		N/A
	- for unattended appliances, 30.2.3 applies		P
	For appliances for remote operation, 30.2.3 applies		N/A
	For base material of printed circuit boards, 30.2.4 applies		P
30.2.1	Parts of non-metallic material subjected to the glow-wire test of IEC 60695-2-11 at 550 °C	(see appended table)	P
	However, test not carried out if the material is classified as having a glow-wire flammability index according to IEC 60695-2-12 of at least 550 °C, or		N/A
	the material is classified at least HB40 according to IEC 60695-11-10		N/A
	Parts for which the glow-wire test cannot be carried out need to meet the requirements in ISO 9772 for material classified HBF		N/A
30.2.3	Appliances operated while unattended, tested as specified in 30.2.3.1 and 30.2.3.2		P

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	The tests are not applicable to conditions as specified		N/A
30.2.3.1	Parts of non-metallic material supporting connections carrying a current exceeding 0,2 A during normal operation, and	(see appended table)	P
	parts of non-metallic material, other than small parts, within a distance of 3 mm,		P
	subjected to the glow-wire test of IEC 60695-2-11 with a test severity of 850 °C		P
	Glow-wire applied to an interposed shielding material, if relevant		N/A
	The glow-wire test is not carried out on parts of material classified as having a glow-wire flammability index according to IEC 60695-2-12 of at least 850 °C		N/A
30.2.3.2	Parts of non-metallic material supporting connections, and	(see appended table)	P
	parts of non-metallic material within a distance of 3 mm,		P
	subjected to glow-wire test of IEC 60695-2-11		P
	The test severity is:		—
	- 750 °C, for connections carrying a current exceeding 0,2 A during normal operation		P
	- 650 °C, for other connections		P
	Glow-wire applied to an interposed shielding material, if relevant		N/A
	However, the glow-wire test of 750 °C or 650 °C as appropriate, is not carried out on parts of material fulfilling both or either of the following classifications:		—
	- a glow-wire ignition temperature according to IEC 60695-2-13 of at least:		N/A
	- 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:		—

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

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	Relevant ferrous parts adequately protected against rusting		N/A
	Tests specified in part 2 when necessary		N/A
	Salt mist test of IEC 60068-2-52, severity 2 (IEC 60335-2-40)		N/A
	Before test, coatings are scratched by means of a harden steel pin as specified (IEC 60335-2-40)		N/A
	Five scratches made at least 5 mm apart and at least 5 mm from the edges (IEC 60335-2-40)		N/A
	Appliance not deteriorated to such an extent that compliance with clause 8 and 27 is impaired (IEC 60335-2-40)		N/A
	Coating not be broken and not loosened from the metal surface (IEC 60335-2-40)		N/A
A	ANNEX A (INFORMATIVE) ROUTINE TESTS		—
	Description of routine tests to be carried out by the manufacturer		N/A
B	ANNEX B (NORMATIVE) APPLIANCES POWERED BY RECHARGEABLE BATTERIES		—
	The following modifications to this standard are applicable for appliances powered by batteries that are recharged in the appliance		N/A
	This annex does not apply to battery chargers		N/A
3.1.9	Appliance operated under the following conditions:		—
	- 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

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Clause	Requirement + Test	Result - Remark	Verdict
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
	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 to the free fall test, procedure 2, of IEC 60068-2-31, the number of falls being:		—
	- 100, if the mass of the part does not exceed 250 g (g)		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- 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
C	ANNEX C (NORMATIVE) AGEING TEST ON MOTORS		—
	Tests, as described, carried out when doubt with regard to the temperature classification of the insulation of a motor winding		N/A
	Test conditions as specified		N/A
E	ANNEX E (NORMATIVE) NEEDLE-FLAME TEST		—
	Needle-flame test carried out in accordance with IEC 60695-11-5, with the following modifications:		—
7	Severities		—
	The duration of application of the test flame is 30 s ± 1 s	PCB	P
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		P
9.2	The first paragraph does not apply		P
	If possible, the flame is applied at least 10 mm from a corner		P
9.3	The test is carried out on one specimen		P
	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		P

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
F	ANNEX F (NORMATIVE) CAPACITORS		—
	Capacitors likely to be permanently subjected to the supply voltage, and used for radio interference suppression or voltage dividing, comply with the following clauses of IEC 60384-14, with the following modifications:		—
1.5	Terms and definitions		—
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		—
	Items a) and b) are applicable		N/A
3.4	Approval testing		—
3.4.3.2	Table 3 is applicable as described		N/A
4.1	Visual examination and check of dimensions		—
	This subclause is applicable		N/A
4.2	Electrical tests		—
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		—
	This subclause is applicable		N/A
	Only insulation resistance and voltage proof are checked		N/A
4.13	Impulse voltage		—
	This subclause is applicable		N/A
4.14	Endurance		—
	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		—
	This subclause is applicable		N/A
4.18	Active flammability test		—

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Clause	Requirement + Test	Result - Remark	Verdict
	This subclause is applicable		N/A
G	ANNEX G (NORMATIVE) SAFETY ISOLATING TRANSFORMERS		—
	The following modifications to this standard are applicable for safety isolating transformers:		—
7	Marking and instructions		—
7.1	Transformers for specific use marked with:		—
	- 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 circuits		—
	Fail-safe transformers comply with subclause 15.5 of IEC 61558-1		N/A
22	Construction		—
	Subclauses 19.1 and 19.1.2 of IEC 61558-2-6 are applicable		P
29	Clearances, creepage distances and solid insulation		—
29.1, 29.2, 29.3	The distances specified in items 2a, 2c and 3 in table 13 of IEC 61558-1 apply		P
	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		P
	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
H	ANNEX H (NORMATIVE) SWITCHES		—
	Switches comply with the following clauses of IEC 61058-1, 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		—
	Switches are not required to be marked		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	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		—
	The tests may be carried out on a separate sample		N/A
15	Insulation resistance and dielectric strength		—
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		—
	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 coatings of rigid printed board assemblies		—
	This clause is applicable to clearances and creepage distances for functional insulation, across full disconnection and micro-disconnection, as stated in table 24		N/A
J	ANNEX J (NORMATIVE) COATED PRINTED CIRCUIT BOARDS		—

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	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		—
	When production samples are used, three samples of the printed circuit board are tested		N/A
5.7.1	Cold		—
	The test is carried out at -25 °C		N/A
5.7.3	Rapid change of temperature		—
	Severity 1 is specified		N/A
5.9	Additional tests		—
	This subclause is not applicable		N/A
K	ANNEX K (NORMATIVE) OVERVOLTAGE CATEGORIES		—
	The information on overvoltage categories is extracted from IEC 60664-1		P
	Overvoltage category is a numeral defining a transient overvoltage condition		P
	Equipment of overvoltage category IV is for use at the origin of the installation		N/A
	Equipment of overvoltage category III is equipment in fixed installations and for cases where the reliability and the availability of the equipment is subject to special requirements		N/A
	Equipment of overvoltage category II is energy consuming equipment to be supplied from the fixed installation		P
	If such equipment is subjected to special requirements with regard to reliability and availability, overvoltage category III applies		N/A
	Equipment of overvoltage category I is equipment for connection to circuits in which measures are taken to limit transient overvoltages to an appropriate low level		N/A
L	ANNEX L (INFORMATIVE) GUIDANCE FOR THE MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES		—
	Information for the determination of clearances and creepage distances		P
M	ANNEX M (NORMATIVE) POLLUTION DEGREE		—

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	The information on pollution degrees is extracted from IEC 60664-1		P
	Pollution		—
	The microenvironment determines the effect of pollution on the insulation, taking into account the macroenvironment		P
	Means may be provided to reduce pollution at the insulation by effective enclosures or similar		P
	Minimum clearances specified where pollution may be present in the microenvironment		P
	Degrees of pollution in the microenvironment		—
	For evaluating creepage distances, the following degrees of pollution in the microenvironment are established:		P
	- pollution degree 1: no pollution or only dry, non-conductive pollution occurs. The pollution has no influence	Inside compressor	P
	- pollution degree 2: only non-conductive pollution occurs, except that occasionally a temporary conductivity caused by condensation is to be expected	For main PCB	P
	- pollution degree 3: conductive pollution occurs or dry non-conductive pollution occurs that becomes conductive due to condensation that is to be expected	For other parts	P
	- pollution degree 4: the pollution generates persistent conductivity caused by conductive dust or by rain or snow		N/A
N	ANNEX N (NORMATIVE) PROOF TRACKING TEST		—
	The proof tracking test is carried out in accordance with IEC 60112 with the following modifications:		—
7	Test apparatus		—
7.3	Test solutions		—
	Test solution A is used		P
10	Determination of proof tracking index (PTI)		—
10.1	Procedure		—
	The proof voltage is 100 V, 175 V, 400 V or 600 V:	175 V	P
	The test is carried out on five specimens		P

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Clause	Requirement + Test	Result - Remark	Verdict
	In case of doubt, additional test with proof voltage reduced by 25 V, the number of drops increased to 100		N/A
10.2	Report		—
	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
O	ANNEX O (INFORMATIVE) SELECTION AND SEQUENCE OF THE TESTS OF clause 30		—
	Description of tests for determination of resistance to heat and fire		P
P	ANNEX P (INFORMATIVE) GUIDANCE FOR THE APPLICATION OF THIS STANDARD TO APPLIANCES USED IN WARM DAMP EQUABLE CLIMATES		—
	Modifications applicable for class 0 and 01 appliances having a rated voltage exceeding 150 V, intended to be used in countries having a warm damp equable climate and that are marked WDaE		—
	Modifications may also be applied to class 1 appliances having a rated voltage exceeding 150 V, 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 °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 electronic circuits		—

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
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		—
	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		—
	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		N/A
R.2.1.1	Programmable electronic circuits requiring software incorporating measures to control the fault/error conditions specified in table R.2 have one of the following structures:		—
	- single channel with periodic self-test and monitoring		N/A
	- dual channel (homogenous) with comparison		N/A
	- dual channel (diverse) with comparison		N/A
	Programmable electronic circuits requiring software incorporating measures to control the fault/error conditions specified in table R.1 have one of the following structures:		—
	- single channel with functional test		N/A
	- single channel with periodic self-test		N/A
	- dual channel without comparison		N/A
R.2.2	Measures to control faults/errors		—
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		N/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/A

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Clause	Requirement + Test	Result - Remark	Verdict
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/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		N/A
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		N/A
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		N/A
R.3	Measures to avoid errors		—
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		—
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		—

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Clause	Requirement + Test	Result - Remark	Verdict
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); - 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	Document ref. No:	N/A
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		—
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		—
	The software is validated with reference to the requirements of the software safety requirements specification		N/A
	Compliance is checked by simulation of:		—
	- 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

IEC 60335-2-40						
Clause	Requirement + Test		Result - Remark			Verdict
Component ^a	Fault/error	Acceptable measures ^{b,c}	Definitions	Document reference for applied measure	Document reference for applied test	Verdict
1 CPU						N/A
1.1 Registers	Stuck at	Functional test, or periodic self-test using either: - static memory test, or - word protection with single bit redundancy	H.2.16.5 H.2.16.6 H.2.19.6 H.2.19.8.2			
1.2 VOID						N/A
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 synchronized 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						N/A
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			
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

IEC 60335-2-40						
Clause	Requirement + Test		Result - Remark			Verdict
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
6 External communication	Hamming distance 3	Word protection with multi-bit redundancy, or CRC – single work, or Transfer redundancy, or Protocol test	H.2.19.8.1 H.2.19.4.1 H.2.18.2.2 H.2.18.14			N/A
6.1 VOID						N/A
6.2 VOID						N/A
6.3 Timing	Wrong point in time Wrong sequence	Time-slot monitoring, or scheduled transmission Time-slot and logical monitoring, or comparison of redundant communication channels by either: - reciprocal comparison - independent hardware comparator Logical monitoring, or time-slot monitoring, or Scheduled transmission	H.2.18.10.4 H.2.18.18 H.2.18.10.3 H.2.18.15 H.2.18.3 H.2.18.10.2 H.2.18.10.4 H.2.18.18			N/A
7 Input/output periphery	Fault conditions specified in 19.11.2	Plausibility check	H.2.18.13			N/A
7.1 VOID						N/A

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

NOTE A Stuck-at fault model denotes a fault model representing an open circuit or a non-varying signal level. A DC fault model denotes a stuck-at fault model incorporating short circuit between signal lines.

- 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.

AA	ANNEX AA (INFORMATIVE) (IEC 60335-2-40) EXAMPLES FOR OPERATING TEMPERATURES OF THE APPLIANCE	—
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BB	ANNEX BB (NORMATIVE) (IEC 60335-2-40) SELECTED INFORMATION ABOUT REFRIGERANTS	—
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CC	ANNEX CC (INFORMATIVE) (IEC/EN 60335-2-40/A1) TRANSPORTATION, MARKING AND STORAGE FOR UNITS THAT EMPLOY FLAMMABLE REFRIGERANTS	—
CC.1	Transport of equipment containing flammable refrigerants (IEC 60335-2-40/A1)	P
CC.2	Marking of equipment using signs (IEC 60335-2-40/A1)	P
CC.3	Disposal of equipment using flammable refrigerants (IEC 60335-2-40/A1)	P
CC.4	Storage of equipment/appliances (IEC 60335-2-40/A1)	P

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

CC.5	Storage of packed (unsold) equipment (IEC 60335-2-40/A1)		P
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DD	ANNEX DD (NORMATIVE) (IEC/EN 60335-2-40/A1) SERVICE OPERATIONS		—
DD.1	Generals (IEC 60335-2-40/A1)		P
DD.2	Symbols (IEC 60335-2-40/A1)		P
DD.3	Information in manual (IEC 60335-2-40/A1 corr.1)		P
DD.4	Information on servicing (IEC 60335-2-40/A1)		P
DD.5	Repairs to sealed components (IEC 60335-2-40/A1)		P
DD.6	Repair to intrinsically safe components (IEC 60335-2-40/A1)		P
DD.7	Cabling (IEC 60335-2-40/A1)		P
DD.8	Detection of flammable refrigerants (IEC 60335-2-40/A1)		P
DD.9	Leak detection methods (IEC 60335-2-40/A1)		N/A
DD.10	Removal and evacuation (IEC 60335-2-40/A1)		N/A
DD.11	Charging procedures (IEC 60335-2-40/A1)		N/A
DD.12	Decommissioning (IEC 60335-2-40/A1)		N/A
DD.13	Labelling (IEC 60335-2-40/A1)		N/A
DD.14	Recovery (IEC 60335-2-40/A1)		N/A

EE	ANNEX EE (NORMATIVE) (IEC/EN 60335-2-40/A1) PRESSURE TESTS		—
EE.1	General (IEC 60335-2-40/A1)		P
EE.2	Pressure test value determined under testing carried out in clause 11 (IEC 60335-2-40/A1)		P
EE.3	Pressure test value determined under testing carried out in clause 19 (IEC 60335-2-40/A1)		P
EE.4	Pressure test value determined under testing carried out under standstill conditions (IEC 60335-2-40/A1)		P
EE.5	Fatigue test option for Clauses EE.1 and EE.4.1 (IEC 60335-2-40/A1)		N/A

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

FF	ANNEX FF (NORMATIVE) (IEC/EN 60335-2-40/A1) LEAK SIMULATION TESTS		—
FF.1	General (IEC 60335-2-40/A1)		P
FF.2	Test methods (IEC 60335-2-40/A1 corr.1)		P

GG	ANNEX GG (NORMATIVE) (IEC/EN 60335-2-40/A1) CHARGE LIMITS, VENTILATION REQUIREMENTS AND REQUIREMENTS FOR SECONDARY CIRCUITS		—
GG.1	Requirements for charge limits in ventilated areas (IEC 60335-2-40/A1 Corr.1)		P
GG.2	Requirements for charge limits in unventilated areas (IEC 60335-2-40/A1 Corr.1)		P
GG.3	Requirements for charge limits in areas with mechanical ventilation (IEC 60335-2-40/A1)		P
GG.4	Requirements for mechanical ventilation within the appliance enclosure (IEC 60335-2-40/A1)		N/A
GG.5	Requirements for mechanical ventilation for rooms complying with ISO 5149 (IEC 60335-2-40/A1)		N/A
GG.6	Requirements for refrigeration systems employing secondary heat exchangers (IEC 60335-2-40/A1 Corr.1)		N/A
GG.7	The appliance shall then be tested with a maximum water flow under the conditions described in g) (IEC 60335-2-40/A1)		N/A

10.1	TABLE: Power input deviation					P
Input deviation of/at:	P rated (W)	P measured (W)	ΔP	Required ΔP	Remark	
230 V, 50 Hz	2760	1619,3	-41,3%	+15%	BRAC-FM-IA1-14-R3-O	
230 V, 50 Hz	3000	2270,1	-24,3%	+15%	BRAC-FM-IA1-18-R3-O	
230 V, 50 Hz	3000	2307,5	-23,1%	+15%	BRAC-FM-IA1-21-R3-O	
230 V, 50 Hz	3800	3843,9	+1,2%	+15%	BRAC-FM-IA1-27-R3-O	
230 V, 50 Hz	4300	3775,6	-12,2%	+15%	BRAC-FM-IA1-28-R3-O	
230 V, 50 Hz	5300	5205,1	-1,8 %	+15%	BRAC-FM-IA1-36-R3-O	
230 V, 50 Hz	5640	5210,1	-7,6 %	+15%	BRAC-FM-IA1-42R3-O	
Supplementary information: Recorded the most unfavourable result.						
Tested models (outdoor unit matched with indoor unit)						
Outdoor unit		Indoor unit				
BRAC-FM-IA1-14-R3-O		2 indoor units BRAC-FM-IASP2-7-R3-I				
BRAC-FM-IA1-18-R3-O		2 indoor units BRAC-FM-IASP2-9-R3-I				
BRAC-FM-IA1-21-R3-O		3 indoor units BRAC-FM-IASP2-7-R3-I				
BRAC-FM-IA1-27-R3-O		3 indoor units BRAC-FM-IASP2-9-R3-I				
BRAC-FM-IA1-28-R3-O		1 xBRAC-FM-IASP2-7-R3-I + 1 xBRAC-FM-IASP2-18-R3-I				
BRAC-FM-IA1-36-R3-O		4 indoor units BRAC-FM-IASP2-9-R3-I				
BRAC-FM-IA1-42-R3-O		5 indoor units BRAC-FM-IASP2-9-R3-I				

10.2	TABLE: Current deviation					P
Current deviation of/at:	I rated (A)	I measured (A)	ΔI	Required ΔI	Remark	
230 V, 50 Hz	12,0	7,11	-40,8%	+15%	BRAC-FM-IA1-14-R3-O	
230 V, 50 Hz	13,0	9,90	-23,8%	+15%	BRAC-FM-IA1-18-R3-O	
230 V, 50 Hz	14,0	10,10	-27,9%	+15%	BRAC-FM-IA1-21-R3-O	
230 V, 50 Hz	16,5	14,94	-9,5%	+15%	BRAC-FM-IA1-27-R3-O	
230 V, 50 Hz	19,0	16,52	-13,1%	+15%	BRAC-FM-IA1-28-R3-O	
230 V, 50 Hz	23,5	22,6	-3,8 %	+15%	BRAC-FM-IA1-36-R3-O	
230 V, 50 Hz	24,5	22,7	-7,4 %	+15%	BRAC-FM-IA1-42-R3-O	
Supplementary information: Recorded the most unfavourable result.						
Tested models (outdoor unit matched with indoor unit)						
Outdoor unit		Indoor unit				
BRAC-FM-IA1-14-R3-O		2 indoor units BRAC-FM-IASP2-7-R3-I				
BRAC-FM-IA1-18-R3-O		2 indoor units BRAC-FM-IASP2-9-R3-I				
BRAC-FM-IA1-21-R3-O		3 indoor units BRAC-FM-IASP2-7-R3-I				
BRAC-FM-IA1-27-R3-O		3 indoor units BRAC-FM-IASP2-9-R3-I				
BRAC-FM-IA1-28-R3-O		1 xBRAC-FM-IASP2-7-R3-I + 1 xBRAC-FM-IASP2-18-R3-I				
BRAC-FM-IA1-36-R3-O		4 indoor units BRAC-FM-IASP2-9-R3-I				
BRAC-FM-IA1-42-R3-O		5 indoor units BRAC-FM-IASP2-9-R3-I				

11.8-1	TABLE: Heating test (Cooling) BRAC-FM-IA1-42R3-O assembled with 5 indoor units BRAC-FM-IASP2-9-R3-I		P
	Test voltage (V)	1,06x240 V=254,4 V, 50 Hz	—
	Ambient (°C).....	Indoor unit: DB:32 °C/WB: 23 °C Outdoor unit: DB:43 °C/WB: 26 °C	—
Thermocouple locations		Max. temperature measured, T (°C)	Max. T (°C)
Indoor unit:			
Plastic enclosure/External enclosure		32,5	85/For clause 30.1
Indoor unit transformer winding		43,5	105(Class 120(E))
PCB		42,6	145
PCB connector		39,3	For clause 30.1
X2 capacitor		35,2	T85
Varistor		35,9	T85
Optocoupler		37,7	T100
Step motor		33,5	105(Class 120(E))
Indoor unit fan motor		46,8	105(Class 120(E))
Indoor unit fan motor capacitor		42,7	T70
Terminal block		35,7	For clause 30.1
Internal wire		38,4	75
Test wall		34,2	90
Outdoor unit:			
External metal enclosure / handle		44,5	85
Supply cord		45,8	75
Terminal block		44,2	For clause 30.1
Internal wire to compressor		51,7	75
Transformer winding		49,5	115(Class 130(B))
Reactor winding		74,8	165(Class 180 (H))
X2 capacitor		47,9	T85
Y capacitor		48,2	T125
Varistor		46,7	T85
Relay		54,0	T70
PCB		52,3	145
PCB connector		49,5	For clause 30.1
Outdoor unit fan motor		55,8	105(Class 120(E))
Compressor surface		89,0	Ref.

Test floor	44,3	90
Remark: The values listed in this table were the highest values of test samples assembled with all alternative components.		
11.8-1	TABLE: Heating test, resistance method	P
	Test voltage (V)	254,4 V, 50 Hz
	Ambient, t1 (°C).....	26,0 °C
Temperature rise of winding	R1 (Ω) R2 (Ω) T (°C) Max. T (°C)	Insulation class
Fan motor winding for indoor unit	107,52 120,25 56,84 115	Class 120(E)
Remark: The values listed in this table were the highest values of test samples assembled with all alternative components.		

11.8-2	TABLE: Heating test (heating) BRAC-FM-IA1-42R3-O assembled with 5 indoor units BRAC-FM-IASP2-9-R3-I	P
	Test voltage (V)	1,06x240 V=254,4 V, 50 Hz
	Ambient (°C).....	Indoor unit: DB:27 °C/WB: - °C; Outdoor unit: DB:24 C/WB: 18 °C.
Thermocouple locations	Max. temperature measured, T (°C)	Max. T (°C)
Indoor unit:		
Plastic enclosure/External enclosure	27,7	85/For clause 30.1
Indoor unit transformer winding	42,6	105(Class 120(E))
PCB	41,3	145
PCB connector	38,8	For clause 30.1
X2 capacitor	33,8	T85
Varistor	33,3	T85
Optocoupler	32,7	T100
Step motor	31,6	105(Class 120(E))
Indoor unit fan motor	37,6	105(Class 120(E))
Indoor unit fan motor capacitor	33,3	T70
Terminal block	32,7	For clause 30.1
Internal wire	36,4	75
Test wall	28,7	90
Outdoor unit:		
External metal enclosure / handle	26,7	85
Supply cord	27,0	75

Terminal block	28,2	For clause 30.1
Internal wire to compressor	34,8	75
Transformer winding	41,0	110(Class 130(B))
Reactor winding	55,5	165(Class 180 (H))
X2 capacitor	37,8	T85
Y capacitor	37,4	T125
Varistor	31,3	T85
Relay	43,4	T70
PCB	31,7	145
PCB connector	39,7	For clause 30.1
Outdoor unit fan motor	43,4	105(Class 120(E))
Compressor surface	91,2	Ref.
4-way valve	88,4	110(Class 130(B))
Test floor	25,8	90

Remark:

The values listed in this table were the highest values of test samples assembled with all alternative components.

11.8-2	TABLE: Heating test, resistance method					P
	Test voltage (V)	254,4 V, 50 Hz			—	
	Ambient, t1 (°C)	26,0 °C			—	
Temperature rise of winding	R1 (Ω)	R2 (Ω)	T (°C)	Max. T (°C)	Insulation class	
Fan motor winding for indoor unit	107,52	115,23	44,68	115	Class 120 (E)	
4-way valve	2030,90	2580,0	96,43	120	Class 130 (B)	

Remark:

The values listed in this table were the highest values of test samples assembled with all alternative components.

11.8-3	TABLE: Heating test (Cooling)					P
	BRAC-FM-IA1-36-R3-O assembled with 4 indoor units BRAC-FM-IASP2-9-R3-I					
	Test voltage (V)	1,06x240 V=254,4 V, 50 Hz			—	
	Ambient (°C)	Indoor unit: DB:32 °C/WB: 23 °C Outdoor unit: DB:43 °C/WB: 26 °C			—	
Thermocouple locations	Max. temperature measured, T (°C)			Max. T (°C)		
Indoor unit:						
Plastic enclosure/External enclosure	33,2			85/For clause 30.1		
Indoor unit transformer winding	46,4			105(Class 120(E))		

PCB	32,9	145			
PCB connector	33,2	For clause 30.1			
X2 capacitor	36,5	T85			
Varistor	36,0	T85			
Optocoupler	37,6	T100			
Step motor	32,6	105(Class 120(E))			
Indoor unit fan motor	62,9	105(Class 120(E))			
Indoor unit fan motor capacitor	36,9	T70			
Terminal block	33,7	For clause 30.1			
Internal wire	36,8	75			
Test wall	33,3	90			
Outdoor unit:					
External metal enclosure / handle	44,5	85			
Supply cord	44,9	75			
Terminal block	43,3	For clause 30.1			
Internal wire to compressor	50,8	75			
Transformer winding	49,3	115(Class 130(B))			
Reactor winding	73,9	165(Class 180 (H))			
X2 capacitor	46,8	T85			
Y capacitor	47,3	T125			
Varistor	45,8	T85			
Relay	53,1	T70			
PCB	51,4	145			
PCB connector	49,3	For clause 30.1			
Outdoor unit fan motor	54,9	105(Class 120(E))			
Compressor surface	88,1	Ref.			
Test floor	44,2	90			
Remark: The values listed in this table were the highest values of test samples assembled with all alternative components.					
11.8-3	TABLE: Heating test, resistance method		P		
	Test voltage (V)	254,4 V, 50 Hz	—		
	Ambient, t1 (°C).....	26,0 °C	—		
Temperature rise of winding	R1 (Ω)	R2 (Ω)	T (°C)	Max. T (°C)	Insulation class
Fan motor winding for indoor unit	389,96	465,25	76,30	115	Class 120 (E)
Remark: The values listed in this table were the highest values of test samples assembled with all alternative components.					

11.8-4	TABLE: Heating test (heating) BRAC-FM-IA1-36-R3-O assembled with 4 indoor units BRAC-FM-IASP2-9-R3-I		P
	Test voltage (V)	1,06x240 V=254,4 V, 50 Hz	—
	Ambient (°C).....	Indoor unit: DB:27 °C/WB: - °C; Outdoor unit: DB:24 C/WB: 18 °C.	—
Thermocouple locations		Max. temperature measured, T (°C)	Max. T (°C)
Indoor unit:			
Plastic enclosure/External enclosure		27,4	85/For clause 30.1
Indoor unit transformer winding		42,3	105(Class 120(E))
PCB		27,7	145
PCB connector		27,4	For clause 30.1
X2 capacitor		31,7	T85
Varistor		39,4	T85
Optocoupler		33,8	T100
Step motor		29,8	105(Class 120(E))
Indoor unit fan motor		56,0	105(Class 120(E))
Indoor unit fan motor capacitor		31,7	T70
Terminal block		28,2	For clause 30.1
Internal wire		31,6	75
Test wall		28,3	90
Outdoor unit:			
External metal enclosure / handle		27,8	85
Supply cord		26,1	75
Terminal block		27,3	For clause 30.1
Internal wire to compressor		33,9	75
Transformer winding		40,1	110(Class 130(B))
Reactor winding		54,6	165(Class 180 (H))
X2 capacitor		36,9	T85
Y capacitor		36,5	T125
Varistor		30,4	T85
Relay		42,5	T70
PCB		30,8	145
PCB connector		39,7	For clause 30.1
Outdoor unit fan motor		42,5	105(Class 120(E))
Compressor surface		91,8	Ref.

4-way valve	88,9	110(Class 130(B))
Test floor	25,8	90
Remark: The values listed in this table were the highest values of test samples assembled with all alternative components.		
11.8-4	TABLE: Heating test, resistance method	
	Test voltage (V)	254,4 V, 50 Hz
	Ambient, t1 (°C).....	26,0 °C
Temperature rise of winding	R1 (Ω)	R2 (Ω)
	T (°C)	Max. T (°C)
	Insulation class	
Fan motor winding for indoor unit	389,96	440,23
	59,58	115
4-way valve	2030,90	2567,0
	94,76	120
	Class 130 (B)	
Remark: The values listed in this table were the highest values of test samples assembled with all alternative components.		

11.8-5	TABLE: Heating test (Cooling)	
	BRAC-FM-IA1-27-R3-O with 3 indoor units BRAC-FM-IASP2-9-R3-I	
	Test voltage (V)	1,06x240 V=254,4 V, 50 Hz
	Ambient (°C).....	Indoor unit: DB:32 °C/WB: 23 °C Outdoor unit: DB:43 °C/WB: 26 °C
Thermocouple locations	Max. temperature measured, T (°C)	Max. T (°C)
Indoor unit:		
Plastic enclosure/External enclosure	36,9	85/For clause 30.1
Indoor unit fan motor	40,2	105(Class 120(E))
Transformer winding	48,5	110(Class 130(B))
Terminal block	37,7	For clause 30.1
Test wall	32,1	90
Outdoor unit:		
External metal enclosure / handle	43,7	85
Terminal block	45,4	For clause 30.1
Internal wire to compressor	54,9	75
Transformer winding	50,6	110(Class 130(B))
X2 capacitor	57,9	T85
Y capacitor	51,0	T125
PCB	45,0	145
Outdoor unit fan motor	56,9	105(Class 120(E))

Compressor surface	98,1	Ref.
4-way valve	59,4	110(Class 130(B))
Test floor	44,2	90
Remark: The values listed in this table were the highest values of test samples assembled with all alternative components.		
11.8-5	TABLE: Heating test, resistance method	
	Test voltage (V)	254,4 V, 50 Hz
	Ambient, t1 (°C).....	27,0 °C
Temperature rise of winding	R1 (Ω)	R2 (Ω)
	T (°C)	Max. T (°C)
	Insulation class	
4-way valve	2,006	2,293
	64,4	120
	Class 130 (B)	
Remark: The values listed in this table were the highest values of test samples assembled with all alternative components.		

11.8-6	TABLE: Heating test (heating) BRAC-FM-IA1-27-R3-O with 3 indoor units BRAC-FM-IASP2-9-R3-I	
	Test voltage (V)	1,06x240 V=254,4 V, 50 Hz
	Ambient (°C).....	Indoor unit: DB:27 °C/WB: - °C; Outdoor unit: DB:24 C/WB: 18 °C.
Thermocouple locations	Max. temperature measured, T (°C)	Max. T (°C)
Indoor unit:		
Plastic enclosure/External enclosure	22,4	85/For clause 30.1
Indoor unit fan motor	33,7	105(Class 120(E))
Transformer winding	34,5	110(Class 130(B))
Terminal block	24,3	For clause 30.1
Test wall	28,1	90
Outdoor unit:		
External metal enclosure / handle	25,5	85
Terminal block	25,3	For clause 30.1
Internal wire to compressor	28,8	75
Transformer winding	30,3	110(Class 130(B))
X2 capacitor	33,3	T85
Y capacitor	28,7	T125
PCB	31,4	145
Outdoor unit fan motor	18,6	105(Class 120(E))

Compressor surface	80,6	Ref.
4-way valve	93,4	110(Class 130(B))
Test floor	24,8	90
Remark: The values listed in this table were the highest values of test samples assembled with all alternative components.		
11.8-6	TABLE: Heating test, resistance method	
	Test voltage (V)	254,4 V, 50 Hz
	Ambient, t1 (°C).....	26,0 °C
Temperature rise of winding	R1 (Ω)	R2 (Ω)
	T (°C)	Max. T (°C)
	Insulation class	
4-way valve	2,006	2,554
	98,4	120
	Class 130 (B)	
Remark: The values listed in this table were the highest values of test samples assembled with all alternative components.		

11.8-7	TABLE: Heating test (Cooling) BRAC-FM-IA1-18-R3-O with 2 indoor units BRAC-FM-IASP2-9-R3-I		P
	Test voltage (V)	1,06x240 V=254,4 V, 50 Hz	—
	Ambient (°C).....	Indoor unit: DB:32 °C/WB: 23 °C; Outdoor unit: DB:43 C/WB: 26 °C.	—
Thermocouple locations		Max. temperature measured, T (°C)	Max. T (°C)
Indoor unit 1:			
Indoor unit fan motor		37,3	105(Class 120(E))
Indoor unit fan motor relay		37,1	T70
Indoor unit transformer winding		42,9	110(Class B)
Terminal block		32,8	For clause 30.1
PCB		34,2	85
Step motor		32,5	105(Class 120(E))
X2 capacitor		40,8	85
Plastic enclosure/External enclosure		32,6	85/For clause 30.1
Indoor unit 2:			
Indoor unit fan motor		36,0	105(Class 120(E))
Indoor unit fan motor relay		37,0	T70
Indoor unit transformer winding		40,1	110(Class B)
Terminal block		34,1	For clause 30.1
PCB		35,0	85
Step motor		40,7	105(Class 120(E))
X2 capacitor		36,1	85
Plastic enclosure/External enclosure		32,4	85/For clause 30.1
Outdoor unit:			
Compressor surface		99,3	Ref.
Compressor relay		68,2	85
Terminal block		43,2	For clause 30.1
Internal wire to compressor		51,9	75
Outdoor unit fan motor		56,6	105(Class 120(E))
External metal enclosure / handle		43,5	85
PCB		50,8	145
Varistor		51,9	85
X2 capacitor		61,0	T85
Y capacitor		50,1	T125

4-way valve	58,6	105(Class 120(E))
Transformer winding	51,8	110(Class 130(B))
Remark: The values listed in this table were the highest values of test samples assembled with all alternative components.		

11.8-7	TABLE: Heating test, resistance method					P
	Test voltage (V)	254,4 V, 50 Hz			—	
	Ambient, t1 (°C).....	°C			—	
Temperature rise of winding	R1 (Ω)	R2 (Ω)	T (°C)	Max. T (°C)	Insulation class	
4-way valve	1955,0	2228,6	63,6	105	Class 120 (E)	
Compressor	2,800	3,628	104,3	140	Synthetic	
Step motor(for Indoor unit: AMWM-H09/4R3BQA)	187,7	195,2	37,5	105	Class 120(E)	
Step motor(for Indoor unit: AMWM-H09/4R3BFA)	186,6	199,9	45,7	105	Class 120(E)	
Remark: The values listed in this table were the highest values of test samples assembled with all alternative components.						

11.8-8	TABLE: Heating test (heating) BRAC-FM-IA1-18-R3-O with 2 indoor units BRAC-FM-IASP2-9-R3-I					P
	Test voltage (V)	1,06x240 V=254,4 V, 50 Hz			—	
	Ambient (°C).....	Indoor unit: DB:27 °C/WB: - °C; Outdoor unit: DB:24 C/WB: 18 °C.			—	
Thermocouple locations	Max. temperature measured, T (°C)			Max. T (°C)		
Indoor unit 1:						
Indoor unit fan motor	33,8			105(Class 120(E))		
Indoor unit fan motor relay	33,1			T70		
Indoor unit transformer winding	39,9			110(Class B)		
Terminal block	28,2			For clause 30.1		
PCB	29,8			85		
Step motor	27,8			105(Class 120(E))		
X2 capacitor	37,8			85		
Plastic enclosure/External enclosure	27,7			85/For clause 30.1		
Indoor unit 2:						
Indoor unit fan motor	33,0			105(Class 120(E))		
Indoor unit fan motor relay	32,0			T70		

Indoor unit transformer winding	34,2	110(Class B)
Terminal block	29,5	For clause 30.1
PCB	30,3	85
Step motor	27,2	105(Class 120(E))
X2 capacitor	31,1	85
Plastic enclosure/External enclosure	26,9	85/For clause 30.1
Outdoor unit: AM2-H18/4DR3C		
Compressor surface	103,5	Ref.
Compressor relay	38,4	85
Terminal block	24,4	For clause 30.1
Internal wire to compressor	26,5	75
Outdoor unit fan motor	25,9	105(Class 120(E))
External metal enclosure / handle	26,5	85
PCB	29,6	145
Varistor	30,7	85
X2 capacitor	37,1	T85
Y capacitor	29,0	T125
4-way valve	97,6	105(Class 120(E))
Transformer winding	29,9	110(Class 130(B))
Remark: The values listed in this table were the highest values of test samples assembled with all alternative components.		

11.8-8	TABLE: Heating test, resistance method				P
	Test voltage (V)	254,4 V, 50 Hz			—
	Ambient, t1 (°C)	°C			—
Temperature rise of winding	R1 (Ω)	R2 (Ω)	T (°C)	Max. T (°C)	Insulation class
4-way valve	1955,0	2520,0	102,6	105	Class 120 (E)
Compressor	2,800	3,673	108,5	140	Synthetic
Step motor(for Indoor unit: AMWM-H09/4R3BQA)	187,7	191,9	32,8	105	Class 120(E)
Step motor(for Indoor unit: AMWM-H09/4R3BFA)	186,6	190,3	32,2	105	Class 120(E)
Remark: The values listed in this table were the highest values of test samples assembled with all alternative components.					

11.8-9	TABLE: Heating test (Cooling) BRAC-FM-IA1-28-R3-O with indoor unit 1 xBRAC-FM-IASP2-7-R3-I + 1 xBRAC-FM-IASP2-18-R3-I		P
	Test voltage (V)	1,06x240 V=254,4 V, 50 Hz	—
	Ambient (°C).....	Indoor unit: DB:32 °C/WB: 23 °C; Outdoor unit: DB:43 C/WB: 26 °C.	—
Thermocouple locations		Max. temperature measured, T (°C)	Max. T (°C)
Indoor unit:			
Indoor unit fan motor		35,7	105(Class 120(E))
Indoor unit fan motor relay		37,0	T70
Indoor unit transformer winding		39,3	110(Class B)
Terminal block		34,1	For clause 30.1
PCB		35,0	85
Step motor		33,0	105(Class 120(E))
X2 capacitor		39,3	85
Plastic enclosure/External enclosure		32,6	85/For clause 30.1
Outdoor unit: AM4-H28/4DR3C			
Compressor surface		91,2	Ref.
Compressor relay		60,8	85
Terminal block		43,2	For clause 30.1
Internal wire to compressor		42,9	75
Outdoor unit fan motor		60,3	105(Class 120(E))
External metal enclosure / handle		60,4	85
PCB		52,1	145
Varistor		42,0	85
X2 capacitor		61,0	T85
Y capacitor		60,6	T125
4-way valve		65,0	105(Class 120(E))
Transformer winding		51,0	110(Class 130(B))
Remark: The values listed in this table were the highest values of test samples assembled with all alternative components.			

11.8-9	TABLE: Heating test, resistance method		P
	Test voltage (V)	254,4 V, 50 Hz	—

Ambient, t1 (°C).....:		°C			—
Temperature rise of winding	R1 (Ω)	R2 (Ω)	T (°C)	Max. T (°C)	Insulation class
4-way valve	2002,000	2367,414	70,0	120	Class 130 (B)
Compressor	9,300	11,944	96,2	140	Synthetic
Step motor	192,000	203,184	38,0	105	Class 120(E)
Remark: The values listed in this table were the highest values of test samples assembled with all alternative components.					

11.8-10	TABLE: Heating test (heating) BRAC-FM-IA1-28-R3-O with indoor unit 1 xBRAC-FM-IASP2-7-R3-I + 1 xBRAC-FM-IASP2-18-R3-I		P
	Test voltage (V)	1,06x240 V=254,4 V, 50 Hz	—
	Ambient (°C).....:	Indoor unit: DB:27 °C/WB: - °C; Outdoor unit: DB:24 C/WB: 18 °C.	—
Thermocouple locations		Max. temperature measured, T (°C)	Max. T (°C)
Indoor unit:			
Indoor unit fan motor		33,5	105(Class 120(E))
Indoor unit fan motor relay		32,4	T70
Indoor unit transformer winding		35,5	110(Class B)
Terminal block		29,5	For clause 30.1
PCB		31,0	85
Step motor		27,5	105(Class 120(E))
X2 capacitor		35,0	85
Plastic enclosure/External enclosure		26,8	85/For clause 30.1
Outdoor unit: AM4-H28/4DR3C			
Compressor surface		63,2	Ref.
Compressor relay		39,8	85
Terminal block		24,4	For clause 30.1
Internal wire to compressor		25,4	75
Outdoor unit fan motor		31,9	105(Class 120(E))
External metal enclosure / handle		27,3	85
PCB		30,9	145
Varistor		24,2	85
X2 capacitor		30,9	T85
Y capacitor		39,3	T125

4-way valve	34,3	105(Class 120(E))
Transformer winding	81,6	110(Class 130(B))
Remark: The values listed in this table were the highest values of test samples assembled with all alternative components.		

11.8-10	TABLE: Heating test, resistance method					P
	Test voltage (V)	254,4 V, 50 Hz			—	
	Ambient, t1 (°C).....	°C			—	
Temperature rise of winding	R1 (Ω)	R2 (Ω)	T (°C)	Max. T (°C)	Insulation class	
4-way valve	2002,000	2129,506	39,4	120	Class 130 (B)	
Compressor	9,300	10,932	68,2	140	Synthetic	
Step motor	192,000	199,233	32,7	105	Class 120(E)	
Remark: The values listed in this table were the highest values of test samples assembled with all alternative components.						

11.8-11	TABLE: Heating test (Cooling) BRAC-FM-IA1-14-R3-O assembled with 2 indoor units BRAC-FM-IASP2-7-R3-I.			P
	Test voltage (V)	1,06x240 V=254,4 V, 50 Hz		—
	Ambient (°C).....	Indoor unit: DB:32 °C/WB: 23 °C Outdoor unit: DB:43 °C/WB: 26 °C		—
Thermocouple locations	Max. temperature measured, T (°C)		Max. T (°C)	
Indoor unit: AMWM-H07/4R3A(JA)				
Plastic enclosure/External enclosure	32,6		85/For clause 30.1	
Indoor unit transformer winding	34,5		105(Class 120(E))	
PCB	38,0		145	
PCB connector	36,4		For clause 30.1	
X2 capacitor	32,7		T85	
Varistor	33,6		T85	
Relay	42,7		T70	
Drain Pump	33,1		105(Class 120(E))	
Step motor	34,3		105(Class 120(E))	
Indoor unit fan motor	55,6		110(Class 130(B))	
Indoor unit fan motor capacitor	37,0		T70	
Terminal block	38,2		For clause 30.1	

Internal wire	33,2	75			
Test wall	32,6	90			
Outdoor unit: AM2-H14/4DR3C-U					
External metal enclosure / handle	44,6	85			
Supply cord	44,1	75			
Terminal block	43,3	For clause 30.1			
Internal wire to compressor	44,5	75			
Transformer winding	47,8	115(Class 130(B))			
Reactor winding	66,5	165(Class 180 (H))			
X2 capacitor	44,2	T85			
Y capacitor	43,6	T125			
Varistor	43,9	T85			
Relay	48,9	T70			
PCB	47,6	145			
PCB connector	44,5	For clause 30.1			
Outdoor unit fan motor	56,9	105(Class 120(E))			
Compressor surface	69,9	Ref.			
Test floor	43,3	90			
Remark: The values listed in this table were the highest values of test samples assembled with all alternative components.					
11.8-11	TABLE: Heating test, resistance method		P		
	Test voltage (V)	254,4 V, 50 Hz	—		
	Ambient, t1 (°C).....	26,0 °C	—		
Temperature rise of winding	R1 (Ω)	R2 (Ω)	T (°C)	Max. T (°C)	Insulation class
Compressor	3,6	4,56	95,47	140	Synthetic
Remark: The values listed in this table were the highest values of test samples assembled with all alternative components.					

11.8-12	TABLE: Heating test (heating) BRAC-FM-IA1-14-R3-O assembled with 2 indoor units BRAC-FM-IASP2-7-R3-I.		P
	Test voltage (V)	1,06x240 V=254,4 V, 50 Hz	—
	Ambient (°C).....	Indoor unit: DB:27 °C/WB: - °C; Outdoor unit: DB:24 C/WB: 18 °C.	—
Thermocouple locations	Max. temperature measured, T (°C)		Max. T (°C)

Indoor unit: AMWM-H07/4R3A(JA)		
Plastic enclosure/External enclosure	27,6	85/For clause 30.1
Indoor unit transformer winding	38,2	105(Class 120(E))
PCB	35,4	145
PCB connector	34,5	For clause 30.1
X2 capacitor	36,8	T85
Varistor	35,6	T85
Relay	46,7	T70
Drain Pump	29,6	105(Class 120(E))
Step motor	27,5	105(Class 120(E))
Indoor unit fan motor	52,8	110(Class 130(B))
Indoor unit fan motor capacitor	35,1	T70
Terminal block	32,7	For clause 30.1
Internal wire	29,3	75
Test wall	27,8	90
Outdoor unit: AM2-H14/4DR3C-U		
External metal enclosure / handle	27,3	85
Supply cord	26,6	75
Terminal block	25,4	For clause 30.1
Internal wire to compressor	30,6	75
Transformer winding	32,9	110(Class 130(B))
Reactor winding	33,2	165(Class 180 (H))
X2 capacitor	27,5	T85
Y capacitor	26,4	T125
Varistor	26,9	T85
Relay	32,5	T70
PCB	31,8	145
PCB connector	30,3	For clause 30.1
Outdoor unit fan motor	37,1	105(Class 120(E))
Compressor surface	53,8	Ref.
4-way valve	36,4	110(Class 130(B))
Test floor	25,1	90
Remark: The values listed in this table were the highest values of test samples assembled with all alternative components.		
11.8-12	TABLE: Heating test, resistance method	P
	Test voltage (V)	254,4 V, 50 Hz
		—

Ambient, t1 (°C).....:		26,0 °C			—
Temperature rise of winding	R1 (Ω)	R2 (Ω)	T (°C)	Max. T (°C)	Insulation class
4-way valve	2,10	2,66	95,47	120	Class 130 (B)
Remark: The values listed in this table were the highest values of test samples assembled with all alternative components.					

13.2	TABLE: Leakage current			P
	Heating appliances: 1,15 x rated input (W)		—	—
	Motor-operated and combined appliances: 1,06 x rated voltage (V)		254,4 V	—
Leakage current between			I (mA)	Max. allowed I (mA)
Live parts and earthed metal			1,12	2mA/kW
Live parts and enclosure			0,03	0,35 (peak)
Supplementary information: the most unfavourable results were recorded.				

13.3	TABLE: Dielectric strength			P
Test voltage applied between:		Test potential applied (V)	Breakdown / flashover (Yes/No)	
Live parts and earthed metal part on outdoor unit fan motor		1072	No	
The terminal of indoor unit fan motor and plastic enclosure of indoor unit		3144	No	
Supplementary information: the most unfavourable results were recorded.				

14	TABLE: Transient overvoltages					N/A
Clearance between:		CI (mm)	Required CI (mm)	Rated impulse voltage (V)	Impulse test voltage (V)	Flashover (Yes/No)
—		—	—	—	—	—
Supplementary information:						

16.2	TABLE: Leakage current			P
	Single phase appliances: 1,06 x rated voltage (V):		254,4 V	—
	Three phase appliances 1,06 x rated voltage divided by $\sqrt{3}$ (V)		—	—
Leakage current between			I (mA)	Max. allowed I (mA)
Live parts and earthed metal			1,18	2mA/kW
Live parts and enclosure			0,03	0,35 (peak)
Supplementary information: the most unfavourable results were recorded.				

16.3	TABLE: Dielectric strength		P
Test voltage applied between:		Test potential applied (V)	Breakdown / flashover (Yes/No)
Live parts and earthed metal part on outdoor unit fan motor		1322	No
The terminal of indoor unit fan motor and plastic enclosure of indoor unit		3144	No
Supplementary information: recorded the most unfavourable result.			

17	TABLE: Overload protection		P
Thermocouple locations		Max. temperature measured, T (°C)	Max. temperature limit, T (°C)
Transformer winding		114,1	175 (Class 130(B))
Remark: Recorded the most unfavourable result.			

17	TABLE: Overload protection, resistance method					N/A
Test voltage (V)		—			—	
Ambient, t1 (°C)		—			—	
Ambient, t2 (°C)		—			—	
Temperature of winding	R1 (Ω)	R2 (Ω)	Δ T (K)	T (°C)	Max. T (°C)	
—	—	—	—	—	—	
Supplementary information: —						

19	Abnormal operation conditions						P
Operational characteristics		YES/NO	Operational conditions				
Are there electronic circuits to control the appliance operation?		Yes	Electronic circuits control the appliance operation when plug in				
Are there "off" or "stand-by" position?		Yes	Stand-by when plug in and without further operation.				
The unintended operation of the appliance results in dangerous malfunction?		No	—				
Sub-clause	Operating conditions description	Test results description	PEC description	EMP 19.11.4	Software type required	19.11.3 PEC	Final result
19.2	The motors are supplied at their supplied voltage when the appliance is supplied at the upper limit of the rated voltage range	The tested result compliance with the requirements of clause 19.2&19.14, no hazard.	The protective circuit was inoperative for DC fan motor. The IPM on the BLDC PBA shut off the	N/A	—	P	P

			supply to the fan motor (No software incorporated in the IPM module.)				
19.3	Locked fan motor	The tested result compliance with the requirement of clause 19.14, no hazard.	IPM worked with IGBT	N/A	—	P	P
19.4	—	—	—	N/A	—	—	N/A
19.5	Operated under the conditions in Clause 11 but supplied at upper limit of the rated voltage range with ambient temperature of 23 °C ± 5 °C.	The tested result compliance with the requirements of clause 19.14, no hazard.	—	N/A	—	—	P
19.6	—	—	—	N/A	—	—	N/A
19.7	Operated under the conditions in Clause 11 at the upper limit of the rated voltage range	The tested result compliance with the requirements of clause 19.14, no hazard.	—	N/A	—	—	P
19.8	—	—	—	N/A	—	—	N/A
19.9	—	—	—	N/A	—	—	N/A
19.10	Operated under the conditions in Clause 11 and at rated voltage	The tested result compliance with the requirements of clause 19.14, no hazard.	—	N/A	—	—	P
19.11.2	Operated under the conditions in Clause 11 but supplied at rated voltage. Evaluation of the fault conditions for all circuit	The tested result compliance with the requirements of clause 19.14, no hazard.	—	N/A	—	—	P
19.11.4.8	—	—	—	N/A	—	—	N/A

19.10.101	—	—	—	N/A	—	—	N/A
Supplementary information:							

19.2	Abnormal operation conditions – locked rotor test other than motor-compressors					P
	Ambient, t1 (°C):			25°C		—
	Ambient, t2 (°C):			25°C		—
	Test voltage (V):			310 Vdc or 240 Vac for fan motor DC 12 V for step motor		—
Temperature limit T of winding:		R ₁ (Ω)	R ₂ (Ω)	Measured T (°C)	Limit T (°C)	Insulation class
Step motor (all alternative types)		—	—	49,5	165	E
Drain pump		—	—	58,3	165	E
Fan motor TWZ40-B02 (D-40-8)		—	—	57,2	165	E
Fan motor RDN-310-40-8-1 (D-40-8)		—	—	58,3	165	E
Fan motor ZWA228L24B (D-40-8)		—	—	58,4	165	E
Fan motor ZWB178L51A		—	—	44,3	165	E
Fan motor ZWB278D60A		—	—	53,2	165	E
Fan motor ZKFP-30-8-113		—	—	57,7	165	E
Fan motor ZKFP-30-8-108		—	—	64,3	165	E
Fan motor ZWA108D59B		—	—	50,2	165	E
Fan motor YDK-30W-6 (DA26)		—	—	103,2	175	B
Fan motor ZWS40-I		—	—	70,1	165	E
Fan motor ZWS90-C51		—	—	67,4	165	E
Fan motor EHDS13CAK		—	—	57,2	165	E
Fan motor EHDS85EAK		—	—	58,3	165	E
Fan motor EHDS85AAK		—	—	58,7	165	E
Fan motor ZWB178D91A		—	—	50,2	165	E
Fan motor ZWB278DA3A		—	—	49,2	165	E
Fan motor ZWB178D89A		—	—	54,2	165	E
Fan motor YDK-25W-6 (DA43)		—	—	76,8	175	B
Fan motor RD-310-45-8K		—	—	65,3	165	E
Fan motor RD-310-45-8K-1		—	—	70,2	165	E
Fan motor ZWA138D88A		—	—	66,9	165	E
Fan motor ZWR30-A52		—	—	70,8	165	E
Fan motor ZWA138DD1BL		—	—	77,8	165	E
Fan motor YMAP030BA01N3		—	—	73,1	175	B

Fan motor ZWR30-8X(L)	—	—	43,0	165	E
Fan motor ZKFP-13-8-124L	—	—	95,7	165	E
Fan motor TWZ13-A11	—	—	73,0	165	E
Fan motor YMAP013BX02N3	—	—	73,1	175	B
Fan motor ZWR13-8R(L)	—	—	57,3	165	E
ZWB2010L01AL	—	—	73,5	165	E
ZW511B500027	—	—	51,1	175	B
ZYTM93-3100030B01330	—	—	49,0	175	B
ZKFP-30-8-303L	—	—	98,7	165	E
ZWA138DD1BL	—	—	77,8	165	E
YMAP030BA01N3	—	—	73,1	175	B
ZWR30-8X(L)	—	—	43,0	165	E

19.2	TABLE: electric strength measurements after 72 hours			P
Test voltage applied between:		Test voltage (V)	Breakdown Yes / No	
Fan motor winding and enclosure		1322	No	

19.2	TABLE: leakage current measurements after 72 hours			P
A voltage equal to twice the rated voltage (V):		620 V or 480 V		—
Leakage current I between:		I (mA)	Required I (mA)	
Fan motor winding and enclosure		0,30	2	

19.3	Abnormal operation conditions – Locked rotor test motor-compressor				P
	Motor-compressor.....:	KTM240D43UKUA2			
	Start device	DC inverter			
	Protector.....:	IGBT			
	Start capacitor	/			
	Run capacitor	/			
	Cooling; (static); (fan-m ³ /h); (oil);	Static			
	Thermal motor-protection system	IPM worked with IGBT			
		Self-resetting			Manually reset
Rated voltage		Vn max (V)		Vn max (V)	Vn min (V)
		After 72 h	After 288 h	After 360 h	After 363 h
		After 72 h	After 288 h	After 360 h	After 50 cycles
High-voltage test (see 16.3)		N/A	N/A	N/A	N/A

Leakage current (mA) (see 16.2)	N/A	N/A	N/A	N/A	N/A
Electric strength (see 13.3)	N/A	N/A	N/A	N/A	N/A
Room temperature (°C) (20 ± 5°C)	N/A	N/A	N/A	N/A	N/A
Number of cycles (≥ 2000 or 50)	N/A	N/A	N/A	N/A	N/A
Housing temperature (°C) (≤ 150°C)	N/A	N/A	N/A	N/A	N/A
supplementary information: The protector was inoperative for DC compressor. The IGBT on the inverter PCB shut off the supply to the compressor in 1s. (No software incorporated in the IGBT module.) No temperature rise measured for compressor housing.					

19.3	Abnormal operation conditions – Locked rotor test motor-compressor				P
	Motor-compressor	KTF310D43UMT			
	Start device	DC inverter			
	Protector	IGBT			
	Start capacitor	/			
	Run capacitor	/			
	Cooling; (static); (fan-m ³ /h); (oil);	Static			
	Thermal motor-protection system	IPM worked with IGBT			
		Self-resetting			Manually reset
Rated voltage	Vn max (V)			Vn max (V)	Vn min (V)
	After 72 h	After 288 h	After 360 h	After 363 h	After 50 cycles
High-voltage test (see 16.3)	N/A	N/A	N/A	N/A	N/A
Leakage current (mA) (see 16.2)	N/A	N/A	N/A	N/A	N/A
Electric strength (see 13.3)	N/A	N/A	N/A	N/A	N/A
Room temperature (°C) (20 ± 5°C)	N/A	N/A	N/A	N/A	N/A
Number of cycles (≥ 2000 or 50)	N/A	N/A	N/A	N/A	N/A
Housing temperature (°C) (≤ 150°C)	N/A	N/A	N/A	N/A	N/A
supplementary information: The protector was inoperative for DC compressor. The IGBT on the inverter PCB shut off the supply to the compressor in 1s. (No software incorporated in the IGBT module.) No temperature rise measured for compressor housing.					

19.5-19.9	Abnormal operation conditions		P
Subclause	Effect		Verdict
19.5 (cooling mode)	The tested result compliance with the requirements of clause 19.14.		P
19.5 (heating mode)	The tested result compliance with the requirements of clause 19.14.		P

19.7 (cooling mode)	The tested result compliance with the requirements of clause 19.14.	P
19.7 (heating mode)	The tested result compliance with the requirements of clause 19.14.	P
Supplementary information: —		

19.10	Abnormal operation conditions		P
Failure description		Effect	Verdict
Capacitor for indoor fan motor open-circuit		The tested result compliance with the requirements of clause 19.14.	P
Capacitor for indoor fan motor short-circuit		The tested result compliance with the requirements of clause 19.14.	P
Open-circuiting or short-circuiting of components		The tested result compliance with the requirements of clause 19.14.	P
Supplementary information: —			

19.11.2	Abnormal Operation			P	
Fault condition		Short circuit	Open circuit	Effect	Verdict
Indoor unit main PCB for BRAC-FM-IACA-9-R3-I, BRAC-FM-IACA-12-R3-I, BRAC-FM-IACA-18-R3-I					
ZNR1	X	X	Fuse operated, no hazard		P
D7/D8/D9/D10	X	X	PTC thermistor in transformer operated, no hazard.		P
E5	X	X	Appliance did not operate, no hazard.		P
C12	X	X	Appliance did not operate, no hazard.		P
Pin 1 and 2 of IC1	X	X	Appliance did not operate, no hazard.		P
Pin 1 and 3 of IC1	X	X	Appliance did not operate, no hazard.		P
Pin 2 and 3 of IC1	X	X	Appliance did not operate, no hazard.		P
E6	X	X	Appliance did not operate, no hazard.		P
D1	X	X	Appliance did not operate, no hazard.		P
D3	X	X	Appliance did not operate, no hazard.		P
E1	X	X	Appliance did not operate, no hazard.		P
C1	X	X	Appliance did not operate, no hazard.		P
DZ1	X	X	Appliance worked normally.		P
D4	X	X	Appliance worked normally.		P
BRAC-FM-IACA-24-R3-I					
ZNR1	X	X	Fuse operated, no hazard		P
E4/E5	X	X	Appliance did not operate, no hazard.		P
Q1/Q3	X	X	Appliance did not operate, no hazard.		P

D2/D3/D4/D5	X	X	Appliance did not operate, no hazard.	P
Pin 1 and 2 of IC1/IC2	X	X	Appliance did not operate, no hazard.	P
Pin 1 and 3 of IC1/IC2	X	X	Appliance did not operate, no hazard.	P
Pin 2 and 3 of IC1/IC2	X	X	Appliance did not operate, no hazard.	P
ZD1/ZD2/ZD3	X	X	Appliance did not operate, no hazard.	P
For outdoor unit BRAC-FM-IA1-36-R3-O, BRAC-FM-IA1-42R3-O				
C71/C75/C78/C81/C82	X	X	Appliance did not operate, no hazard	P
D12/D13/D14/D16	X	X	Appliance did not operate, no hazard	P
IC7	X	X	Appliance did not operate, no hazard	P
C67/C73/C77/C76	X	X	Appliance did not operate, no hazard	P
E10/E4/E5/E6/E7	X	X	Appliance did not operate, no hazard	P
IC6 pin 1,2	X	X	Appliance did not operate, no hazard	P
IC6 pin 1,3	X	X	Appliance did not operate, no hazard	P
IC6 pin 2,3	X	X	Appliance did not operate, no hazard	P
IC8 pin 1,2	X	X	Appliance did not operate, no hazard	P
IC8 pin 1,3	X	X	Appliance did not operate, no hazard	P
IC8 pin 2,3	X	X	Appliance did not operate, no hazard	P
IC10	X	X	Appliance did not operate, no hazard	P
C68/C69	X	X	Appliance did not operate, no hazard	P
Indoor unit PCB for BRAC-FM-IASP2-7-R3-I, BRAC-FM-IASP2-9-R3-I, BRAC-FM-IASP2-12-R3-I, BRAC-FM-IASP2-18-R3-I, BRAC-FM-IASP2-24-R3-I				
ZNR1	X	X	Fuse broken, no hazard.	P
CRV2	X	X	Appliance did not operate, no hazard.	P
NTC	X	X	Appliance did not operate, no hazard.	P
BG1	X	X	Appliance did not operate, no hazard.	P
CRV77	X	X	Appliance did not operate, no hazard.	P
D75	X	X	Appliance did not operate, no hazard.	P
E72	X	X	Appliance did not operate, no hazard.	P
D77	X	X	Appliance did not operate, no hazard.	P
E73	X	X	Appliance did not operate, no hazard.	P
IC72 1-3	X	X	Appliance did not operate, no hazard.	P
E75	X	X	Appliance did not operate, no hazard.	P
ZD71	X	X	Appliance did not operate, no hazard.	P
For outdoor unit BRAC-FM-IA1-14-R3-O, BRAC-FM-IA118-R3-O, BRAC-FM-IA1-21-R3-O, BRAC-FM-IA1-27-R3-O				
E21	X	X	Appliance did not operate, no hazard	P

R12	X	X	Appliance did not operate, no hazard	P
D2	X	X	Appliance did not operate, no hazard	P
R24	X	X	Appliance did not operate, no hazard	P
D3	X	X	Appliance did not operate, no hazard	P
D4	X	X	Appliance did not operate, no hazard	P
R31	X	X	Appliance did not operate, no hazard	P
R34	X	X	Appliance did not operate, no hazard	P
R259	X	X	Appliance did not operate, no hazard	P
ZD1	X	X	Appliance did not operate, no hazard	P
R33	X	X	Appliance did not operate, no hazard	P
C1	X	X	Appliance did not operate, no hazard	P
R255	X	X	Appliance did not operate, no hazard	P
L1	X	X	Appliance did not operate, no hazard	P
U1B	X	X	Appliance did not operate, no hazard	P
R37	X	X	Appliance did not operate, no hazard	P
C19	X	X	Appliance did not operate, no hazard	P
D6	X	X	Appliance did not operate, no hazard	P
R36	X	X	Appliance did not operate, no hazard	P
C9	X	X	Appliance did not operate, no hazard	P
BG1	X	X	Appliance did not operate, no hazard	P
R179	X	X	Appliance did not operate, no hazard	P
R41	X	X	Appliance did not operate, no hazard	P
R37	X	X	Appliance did not operate, no hazard	P
C20	X	X	Appliance did not operate, no hazard	P
C28	X	X	Appliance did not operate, no hazard	P
IGBT1	X	X	Appliance did not operate, no hazard	P
IC1	X	X	Appliance did not operate, no hazard	P
C18	X	X	Appliance did not operate, no hazard	P
R3	X	X	Appliance did not operate, no hazard	P
D1	X	X	Appliance did not operate, no hazard	P
C3	X	X	Appliance did not operate, no hazard	P
Indoor unit main PCB for AUCO-H09/4DR3HA, AUCO-H12/4DR3HA, AUCO-H18/4DR3HA				
ZNR1		X	Appliance works normally	P
ZNR1	X		Fuse broken, no hazard.	P

C16		X	Appliance works normally	P
C16	X		Fuse broken, no hazard.	P
CY1		X	Appliance works normally	P
CY1	X		Fuse broken, no hazard.	P
D01		X	Appliance works normally	P
D01	X		Fuse broken, no hazard.	P
E1		X	Appliance works normally	P
E1	X		Fuse broken, no hazard.	P
C4		X	Appliance works normally	P
C4	X		Fuse broken, no hazard.	P
C200		X	Appliance works normally	P
C200	X		Appliance did not worked, no hazard.	P
D201		X	Appliance works normally	P
D201	X		Appliance works normally	P
E203		X	Appliance works normally	P
E203	X		Appliance did not worked, no hazard.	P
Indoor unit main PCB 1 for all models				
ZNR	X	X	Fuse broken, no hazard.	P
NTC	X	X	Appliance working normally	P
BG1	X	X	Appliance did not operate, no hazard.	P
E71	X	X	Appliance working normally	P
E72	X	X	Appliance did not operate, no hazard.	P
IC31 c-e	X	X	Appliance did not operate, no hazard.	P
D35	X	X	Appliance did not operate, no hazard.	P
Q28 c-e	X	X	Appliance did not operate, no hazard.	P
IC33 c-e	X	X	Appliance working normally	P
ZD8	X	X	Appliance did not operate, no hazard.	P
Indoor unit main PCB 2 for all models				
CVR2	X	X	Fuse broken, no hazard.	P
ZNR1	X	X	Fuse broken, no hazard.	P
BG1	X	X	Fuse broken, no hazard.	P
CRV6	X	X	Fuse broken, no hazard.	P
E71	X	X	Fuse broken, no hazard.	P
D75	X	X	Appliance did not operate, no hazard.	P

D35	X	X	Appliance did not operate, no hazard.	P
E23	X	X	Appliance did not operate, no hazard.	P
D78	X	X	Appliance did not operate, no hazard.	P
ZD72	X	X	Appliance did not operate, no hazard.	P
D76	X	X	Appliance did not operate, no hazard.	P

19.14	TABLE: Abnormal operation, temperature rises			P
Thermocouple locations		Max. temperature rise measured, ΔT (K)	Max. temperature rise limit, ΔT (K)	
Plastic enclosure		6,3	For cl.30.1	
Test wall		6,7	150	
Supply cord		8,5	150	
Test floor		7,8	150	
Supplementary information: The tests were carried out and recorded the most unfavourable result.				

21.1	TABLE: Impact resistance			P
Impacts per surface		Surface tested	Impact energy (Nm)	Comments
Three times		Enclosure	0,5	P
Supplementary information: —				

24.1	TABLE: Critical components information					P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard ²⁾	Mark(s) of conformity ¹⁾	
Outdoor Unit PCB						
Relay1	Sanyou Corporation Limited	SJ-S-112DM	250VAC,5A, T85,10E4	IEC/EN 61810-1	VDE 40002146	
Alt.	Wangrong Electronics (Shenzhen) Co., Ltd.	RJ-SS-112DM	250VAC,5A, T85,10E4	IEC/EN 61810-1	TUV R 50222701	
Alt.	Dongguan Churod Electronics Co., Ltd.	A1-S-112DA A1-V-112DA	250VAC,5A, T85,10E4	IEC/EN 61810-1	TUV R 50174892	
Alt.	Tyco Electronics(shenz hen) Co., Ltd.	OJE-SS-112DM	250VAC,5A, T70,10E4	IEC/EN 61810-1	TUV R 50139166	
Alt.	Zhejiang Meishuo Electric Technology Co., LTD	MPD-S-112-A	250VAC,5A,12 VDC, T105orT70,10E 4	IEC/EN 61810-1	TUV R 50184948	

Alt.	XIAMEN HONGFA ELECTOACOUSTIC CO., LTD	JZC-32F series	250VAC 5A, T85,10E4	IEC/EN 61810-1	VDE 40012204
Alt.	Xiamen Hongfa Electroacoustic Co., Ltd	HF46F series	250VAC,5A, T85,10E4	IEC/EN 61810-1	VDE 40025215
Alt.	Sanyou Corporation Limited	SRB-S-112DM2	250VAC, 5A, T85,10E4	IEC/EN 61810-1	TUV R 50138320
Alt.	Wangrong Electronics (Shenzhen) Co., Ltd.	RC-112DM1	250VAC,5A, T85,10E4	IEC/EN 61810-1	TUV R 50249912
Alt.	Zhejiang Meishuo Electric Technology Co., LTD	MPR-S-112-A	250VAC,5A, T85orT70,10E4	IEC/EN 61810-1	TUV R 50217035
Alt.	Dongguan Churod Electronics Co., Ltd.	CHM-V-112DA3	250VAC,5A, 10E4,T85	IEC/EN 61810-1	TUV R 50196152
Alt.	Tyco Electronics(shenzhen) Co., Ltd.	PCJ-112D3MH	250VAC,5A, T85,10E4	IEC/EN 61810-1	TUV R 50419522
Alt.	Sanyou Corporation Limited	SJ-SH-112DM2	250VAC,5A, T85,10E4	IEC/EN 61810-1 IEC/EN 60079-15	TUV R 50142420
Alt.	Tyco Electronics (Shenzhen) Co., Ltd	OJE-SH-112DM	250VAC,5A, T70,10E4	IEC/EN 61810-1 IEC/EN 60079-15	TUV R 50139166
Alt.	Zhejiang Meishuo Electric Technology Co., LTD	MPR-S-105-A	250VAC,5A, T105,10E4	IEC/EN 61810-1	TUV R 50217035
Alt.	Sanyou Corporation Limited	SRB-S-105DM2	250VAC,5A, T85,10E4	IEC/EN 61810-1	TUV R 50138320
Alt.	Dongguan Churod Electronics Co., Ltd.	CHM-S-112DA3	250VAC,5A, T90,10E4	IEC/EN 61810-1	TUV R 50196152
Alt.	Tyco Electronics(shenzhen) Co., Ltd.	PCJ-105D3MH	250VAC,5A, T85,10E4	IEC/EN 61810-1	TUV R 50419522
Alt.	Dongguan Churod Electronics Co., Ltd.	CHM-V-105DA3	250VAC,5A, T90,10E4	IEC/EN 61810-1	TUV R 50196152

Alt.	Ningbo Zettler Electronics Co., Ltd.	JT32F012-HS	250VAC,5A, T85,10E4	IEC/EN 61810-1	TUV R 50265552 VDE 40049146
Alt.	Shenzhen Yuanze Electric Co.,Ltd.	Y32F-SS-112DM	250VAC,5A,12 VDC,T105, 10E4	IEC/EN 61810-1	TUV R50198475
Alt.	Shenzhen Yuanze Electric Co.,Ltd.	Y46F-SH-112DM	250VAC,5A,12 VDC,T105, 10E4	IEC/EN 61810-1	TUV R50510682
Alt.	DongGuan Churod Electronics Co., Ltd.	CHM-S-112DA3	250VAC,5A,12 VDC,T85, 10E4	IEC/EN 61810-1	TUV R 50196152
Alt.	NingBo Zettler Electronics Co., Ltd.	JT46F012-HS1TF	250VAC,5A,12 VDC,T105, 10E4	IEC/EN 61810-1	TUV R 50459402
Alt.	NINGBO TIANBO GANGLIAN ELECTRONICS CO., LTD	TRG1 D-12VDC-S-H	240VAC, 5A	IEC/EN 61810-1	TUV R50108695 TUV AK50401444 0001
Alt.	Sanyou Corporation Limited	SRB-SH-112DM2	AC277V, 5A, 12VDC, T85, 10E4	IEC/EN 61810-1	VDE 40033402 CNEEx19.5427 U
Alt.	NINGBO TIANBO GANGLIAN ELECTRONICS CO., LTD	TRGB L-SS-112DM	250VAC, 5A	IEC/EN 61810-1	TUV R50223753 TUV AK50449013 0001
Alt.	NingBo Zettler Electronics Co., Ltd.	JT46F012-HS1TF(310)	250VAC, 5A, 12VDC, T105, 100000	IEC/EN 61810-1	TUV R 50459402
Relay2	Sanyou Corporation Limited	SLI-S-112DM SLI-SH-112DMK SLI-SH-112DM	240VAC,30A, T85,10E4	IEC/EN 61810-1	TUV R 50143450
Alt.	Zhejiang Meishuo Electric Technology Co., LTD	MPQ4-S-112D-A	240VAC,30A, T85,10E4	IEC/EN 61810-1	TUV R 50184977
Alt.	Wangrong Electronics (Shenzhen) Co., Ltd.	RA2-112LM	250VAC,30A, T85,10E4	IEC/EN 61810-1 IEC/EN 60079-15	TUV R 50228669
Alt.	Dongguan Churod Electronics Co., Ltd.	CHS02-V-112LA	277VAC,30A, T85,10E4	IEC/EN 61810-1 IEC/EN 60079-15	TUV R 50271657

Alt.	Sanyou Corporation Limited	SFD-112DM	250VAC,30A T70 or T85, 10E4	IEC/EN 61810-1	VDE 40007793
Alt.	Wangrong Electronics (Shenzhen) Co., Ltd.	RA2-112LM-S	250VAC,30A, T85,10E4	IEC/EN 61810-1 IEC/EN 60079-15	TUV R 50228669
Alt.	Dongguan Churod Electronics Co., Ltd.	CHS02-S-112LA	277VAC,30A, T85, 10E4	IEC/EN 61810-1 IEC/EN 60079-15	TUV R 50271657
Alt.	Xiamen Hongfa Electroacoustic Co., Ltd.	HF2160-1A-12DE	240VAC,30A, 250VAC,30A, T85,10E4	IEC/EN 61810-1 IEC/EN 60079-15	TUV R 50153835
Alt.	DongGuan Churod Electronics Co., Ltd.	CHS02-S-112LA2	277VAC,30A,12 VDC,T85,10000 0	IEC/EN 61810-1	R50271657
Alt.	Shenzhen Yuanze Electric Co.,Ltd.	Y90-SS-112DM	250VAC,30A,12 VDC,T85,10000 0	IEC/EN 61810-1	TUV R 501984733
Alt.	NingBo Zettler Electronics Co., Ltd.	JT2160-1A-12DE	240VAC,30A,12 VDC,T85,10000 0	IEC/EN 61810-1	TUV R 50266582
Alt.	NINGBO TIANBO GANGLIAN ELECTRONICS CO., LTD	HJQ-15F-2-S-H	240VAC, 30A, 12VDC, T85, 100000	IEC/EN 61810-1	TUV R 50116174 TUV AK 50401442 0001
Alt.	Dongguan Yongneng Electronics Co.,Ltd	YX209H-S-112DM	250VAC,30A,12 VDC,T105,1000 00	IEC/EN 61810-1	TUV R 50532873
Relay3	XIAMEN HONGFA ELECTOACOUSTIC CO., LTD	JQX-116F-1/012DP-2HT	AC 240 V, 25A	IEC/EN 61810-1	TUV R 50154722
Alt.	Sanyou Corporation Limited	SFK-112DMP3-E(EX)	AC 250V, 25A	IEC/EN 61810-1	TUV R 50138321
Alt.	NINGBO TIANBO GANGLIAN ELECTRONICS CO., LTD	TRAF D-12VDC-H TRAF-P D-12VDC-H	250VAC, 25A	IEC/EN 61810-1	TUV R 50231584
Alt.	Xiamen Hongfa Electroacoustic Co., Ltd.	HF161F	250VAC,25A,12 VDC	IEC 61810-1 IEC 60079-15	VDE 40031410
Alt.	DongGuan Churod Electronics Co., Ltd.	CHEN-S-112DA2	277VAC,25A,12 VDC	IEC 61810-1 IEC 60079-15	TUV 50366268

Alt.	Sanyou Corporation Limited	SFK-112DMP3-E	250VAC,25A,12 VDC	IEC 61810-1 IEC 60079-15	TUV R 50138321
Alt.	NINGBO TIANBO GANGLIAN ELECTRONICS CO.,LTD	TRAF D-12VDC-H	250VAC, 25A	IEC/EN 61810-1	TUV R 50231584
Alt.	Dongguan Yongneng Electronics Co.,Ltd	YX212-S-112DMP	250 VAC, 25A, 12 VDC, T105, 100000	IEC/EN 61810-1	TUV R 50457124
Fuse 1	Sun Electric Co.	5B	AC250V, 3,15A, 5A, T	IEC/EN 60127	VDE 40011342
Alt.	Hollyland Company Limited	50T	AC250V, 3,15A, 5A, T	IEC/EN 60127	VDE 40014460
Alt.	Sun Electric Co.	5H	AC250V, 3,15A, 5A, T	IEC/EN 60127	TUV R50220933
Alt.	Hollyland Company Limited	50CT	AC250V, 3,15A, 5A, T	IEC/EN 60127	VDE 40014896
Alt.	Walter Electronic Co., Ltd.	TSC	AC250V, 3,15A, 5A, T	IEC/EN 60127	VDE 40016670
Alt.	XC Electronics(shenzhen)Corp,Ltd.	5H	AC250V, 3,15A, 5A, T	EN 60127-2 EN 60127-1	VDE 40037020
Alt.	Dongguan Better Electronics Technology Co., Ltd.	524	AC250V, 3,15A, 5A, T	IEC/EN 60127-2 IEC/EN 60127-1	VDE 40025424
Alt.	Honghu Bluelight Electronic Co.Ltd.	L5CT	AC250V,3.15A	EN 60127-2 EN 60127-1	VDE 40034207
Fuse 2	Sun Electric Co	6H	30 A, 250 VAC	EN 60335-1 EN 60335-2-40	UL E166522 Tested with appliance
Alt.	Hollyland Co., Ltd.	65TS(P)	30 A, 250 VAC	EN 60335-1 EN 60335-2-40	UL E156471 Tested with appliance
Alt.	Hollyland (China) Electronics Technology Corporation Ltd.	65TS(P)	AC 250 V, TS, 30 A, H	EN 60335-1 EN 60335-2-40	UL E156471 Tested with appliance
Alt.	Walter Electronic Co., Ltd.	MTP	20 A, 250 V; 30 A, 250 V; 15 A, 250 V	IEC/EN 60127	TUV R 50305728
Alt.	XC Electronics(shenzhen)Corp,Ltd.	6H	AC250 V, 30 A,T	EN 60127-2 EN 60127-1	UL E249609 Tested with appliance

Optocoupler	Sharp Corporation Electronic	PC817	≥ 6,4 mm, 9000 V, 55/100/21	IEC/EN 60747-5-5	VDE 40008087
Alt.	Lite-On Technology Corporation	MOC3021 MOC3022 MOC3023	≥ 7 mm, 6000 V, 25/110/21	IEC/EN 60747-5-5	VDE 40015248
Alt.	Toshiba Corporation	TLP185	≥ 5 mm, 6000 V, 30/110/21	IEC/EN 60747-5-5	VDE 40009347
Alt.	Toshiba Corporation	TLP785	≥ 7 mm, 8000 V, 55/115/21	IEC/EN 60747-5-5	VDE 40031808
Alt.	VISHAY SEMICONDUCT GmbH	VOM617A	≥ 5 mm, 6000 V, 55/110/21	IEC/EN 60747-5-5	VDE 40034600
Alt.	LITEON Technology Corporation	LTV-356T	≥ 5 mm, 6000 V, 55/110/21	IEC/EN 60747-5-5	VDE 138213
Alt.	Fairchild Semiconductor Pte Ltd	FODM121	≥ 5 mm, 6000 V, 55/110/21	IEC/EN 60747-5-5	VDE 40019875
Alt.	Toshiba Corporation Semiconductor & Storage Products Company	TLP109	≥ 5 mm, 6000 V, 55/125/21	IEC/EN 60747-5-5	VDE 40009347
Alt.	EVERLIGHT ELECTRONICS CO., LTD.	EL816	≥ 7,6 mm, 6000 V, 55/110/21	IEC/EN 60747-5-5	VDE 132249
Alt.	EVERLIGHT ELECTRONICS CO., LTD.	EL357N	≥ 5 mm, 6000 V, 55/110/21	IEC/EN 60747-5-5	VDE 132249
Alt.	Lite-On Technology Corporation	MOC3021 MOC3022 MOC3023	≥ 7 mm, 8000 V, 25/110/21	IEC/EN 60747-5-5	VDE 40015248
Alt.	SHENZHEN ORIENT COMPONENTS CO., LTD	OR-357C	≥ 5,0 mm, 5000 V, 55/115/21	IEC/EN 60747-5-5	VDE 40029733
Alt.	NingBo Qunxin Microelectronics Co., LTD	QX3021	≥ 7,0 mm, 7000V, 55/100/21	IEC/EN 60747-5-5	VDE 40051490
Alt.	NingBo Qunxin Microelectronics Co., LTD	QX357C	≥ 5,0 mm, 5000V, 55/110/21	IEC/EN 60747-5-5	VDE 40053982
Alt.	Everlight Electronics., Ltd.	EL357N	≥ 5,0 mm, 4800V, 55/110/21	IEC/EN 60747-5-5	VDE 132249
Alt.	Everlight Electronics., Ltd.	EL3021	≥ 7,6 mm, 6000 V, 55/100/21	IEC/EN 60747-5-5	VDE 132249

Alt.	Xiamen Hualian Semiconductor Technology Co., Ltd.	HPC357C	≥5,0 mm, 6000V, 55/110/21	IEC/EN 60747-5-5	VDE 40004708
Alt.	Xiamen Hualian Semiconductor Technology Co., Ltd.	HPC3053-3	≥7,0 mm, 6000V, 30/100/21	IEC/EN 60747-5-5	VDE 40004708
Alt.	NingBo Qunxin Microelectronics Co., LTD	QXM511	3750V	IEC/EN 60747-5-5	VDE 40053982
Alt.	NingBo Qunxin Microelectronics Co., LTD	QX8817	5000V	IEC/EN 60747-5-5	VDE 40051490
Alt.	Cosmo Electronics Corporation	KPC357NT	3750V	IEC/EN 60747-5-5	VDE 40014684
Alt.	JieJie Microelectronics Co., Ltd.	JOC356C1(T1)-GV	≥5mm, 6000V, 50/110/21	IEC/EN 60747-5-5	VDE 40053778
Alt.	JieJie Microelectronics Co., Ltd.	JOC501(T1)-GV	≥5mm, 6000V, 50/110/21	IEC/EN 60747-5-5	VDE 40053779
Alt.	JieJie Microelectronics Co., Ltd.	JOC3021-V	≥7.6mm, 8000V, 50/110/21	IEC/EN 60747-5-5	VDE 40053780
X2 Capacitor	Ningbo Jiangbei Zhenhua Electronic Co, Ltd	CBB62	275 V, 0,01 μF, 0,1 μF, 0,22 μF, 0,47 μF, 2,2 μF, 1,0μF, , 1.5μF, 3.3μF, X2, T85/T100	IEC/EN 60384-14	VDE 40006458
Alt.	Guangdong Fengming Electronic Tech. Co., Ltd	MKP-X2	0,01 μF, 0,1 μF, 0,22 μF, 0,47 μF, 2,2 μF, 1,0μF, , 1.5μF, 3.3μF, 275 V, X2, T85/T105/T110	IEC/EN 60384-14	VDE 40025702
Alt.	Foshan City Xinyuan Electronic Co., Ltd	MKP-X2	0,01 μF, 0,1 μF, 0,22 μF, 0,47 μF, 2,2 μF, 1,0μF, , 1.5μF, 3.3μF, 275 V, T105	IEC/EN 60384-14	VDE 40027433
Alt	CHANGZHOU JIAGUAN ELECTRONICS CO., LTD	MKP	0,01 μF, 0,1 μF, 0,22 μF, 0,47 μF, 2,2 μF, 1,0μF, , 1.5μF, 3.3μF, AC 275/300V, 40/110/21	IEC/EN 60384-14	VDE 40037250

Alt	CHANGZHOU JIAGUAN ELECTRONICS CO., LTD	MKP	0,01 μ F, 0,1 μ F, 0,22 μ F, 0,47 μ F, 2,2 μ F, 1,0 μ F, , 1.5 μ F, 3.3 μ F, AC 275/300V, 40/110/56	IEC/EN 60384-14	VDE 40052871
Alt.	Huizhou City Yuxinyuan Electronics Co., Ltd	MKP-X2	0,22 μ F, AC 275V, X2, 40/105/56, 40/110/56	IEC/EN 60384-14	VDE 40045442
Alt.	SICHUAN SINCERITY TECHONOGY CO.,LTD	MPX/MKP	0,01 μ F, 0,1 μ F, 0,22 μ F, 0,47 μ F, 2,2 μ F, 1,0 μ F, , 1.5 μ F, 3.3 μ F, AC320V, X2, 40/110/56	IEC/EN 60384-14	VDE 40052140
Alt.	Zhejiang Qixing Electronics Co.,Ltd	MPX/MKP	0,01 μ F, 0,1 μ F, 0,22 μ F, 0,47 μ F, 2,2 μ F, 1,0 μ F, , 1.5 μ F, 3.3 μ F, AC275V, X2, 40/110/56	IEC/EN 60384-14	VDE 40049209
Alt.	SICHUAN SINCERITY TECHONOGY CO.,LTD	MPX/MKP	0,01 μ F, 0,1 μ F, 0,22 μ F, 0,47 μ F, 2,2 μ F, 1,0 μ F, , 1.5 μ F, 3.3 μ F, AC275V, X2, 40/110/56	IEC/EN 60384-14	VDE 40052140
Y Capacitor	Handan Aoneng Electronic Co., Ltd	CT7	AC 400 V, Y1, 25/125/21	IEC/EN 60384-14	VDE 40041436
Alt.	Handan Aoneng Electronic Co., Ltd	CT7	AC 250 V, Y1, 25/125/21	IEC/EN 60384-14	VDE 40041436
Alt.	CHANGZHOU JIAGUAN ELECTRONICS CO., LTD	X1Y1	AC 400 V, 25/125/21	IEC/EN 60384-14	VDE 40044434
Alt.	ZHAOQING INFORMED ELECTRONICS FACTORY CO.,LTD	CD	AC 400 V, 25/125/21	EN 60384-14	VDE 40048059
Alt.	ZHAOQING INFORMED ELECTRONICS FACTORY CO.,LTD	CE	AC 250 V, 25/125/21	EN 60384-14	VDE 40048053

Alt.	Guangdong DaFu Electronics Co.,Ltd	CT7	AC 400 V, Y1, 25/125/21	IEC/EN 60384-14	VDE 40041523
Alt.	Guangdong South Hongming Electronic Science and Technology Co., Ltd.	F	AC 400 V, Y1, 25/125/21	IEC/EN 60384-14	VDE 40036393
Alt.	Haohua Electronic Co.	CT7	AC500V, Y1, 30/125/56	IEC/EN 60384-14	VDE 40003902
Alt.	NANJIANG YUYUE ELECTRONICS CO LTD	CT7	AC400V, Y1, 40/125/21	IEC/EN 60384-14	VDE 40008010
Switch Transformer	Jiayang Electronics Core New-tech Co., Ltd.	BCK-09EE25	200-380 V, 65 kHz; DC 15 V, 50 mA; DC 15 V, 190 mA; DC 12 V, 460 mA, Class 130 (B)	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	Shenzhen Yamaxi Electronics Co., Ltd.	BCK-09EE25	200-380 V, 65 kHz; DC 15 V, 50 mA; DC 15 V, 190 mA; DC 12 V, 60 mA, Class 130 (B)	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	Dongguan City Dazhong Electronic Co., Ltd.	BCK-09EE25	DC 200-380 V, 65 kHz; DC 15 V, 50 mA; DC 15 V, 190 mA; DC 12 V, 460 mA	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	ShenZhen Yamaxi Electronics Co., Ltd.	ECO2123	90-300 V, 100 kHz, 5 V / 12 V / 15 V, 1 A	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	DanDong City ZhongDing Electron CO., Ltd	TR2-20 ECO2123	170 VDC-380 VDC, 100K HZ, DC15 V / 12 V / 5 V, 1 A	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	WU HAN CHEN YANG CORE NE W-TECH CO.,LTD	ECO2123	170VDC-380VDC,100KHZ, DC15V/12V/5V, 1000mA	IEC 60335-2-40	Test with appliance
Alt.	Dongguan City Dazhong Electronic Co., Ltd.	EE20-06PA	DC 85-265V, DC 15,6V/5,6V,900/200mA	IEC/EN 60335-1 IEC/EN 60335-2-40	Tested with appliance

Alt.	Guangzhou Deloop electronic device Co., Ltd	DL-EE20-06PA	DC 85-265V, DC 15,6V/5,6V,900/200mA	IEC/EN 60335-1 IEC/EN 60335-2-40	Tested with appliance
Alt.	WU HAN CHEN YANG CORE NEW-TECH CO.,LTD	EC022-880uH EC022	220V,50Hz,15V、3.3V、3.3V、12V,1.1A	IEC/EN 60335-1 IEC/EN 60335-2-40	Tested with appliance
Varistor	Brightking(Shenzhen) CO., LTD.	561KD14	560V	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 40027827
Alt.	Brightking Inc.	561KD14	560V	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 40022070
Alt.	Chengdu Tieda Electronic Co., Ltd	MYN15-561K	560V	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 40008571
Alt.	Ceramate Techn. Co., Ltd.	GNR14D561K	560V	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 005938
Alt.	Fenghua Adv. Tech.(Holding) Co., Ltd.	FNR-14K561	560V	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 40008242
Alt.	Chengdu Tieda Electronic Co., Ltd	MYN15-621K	620V	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 40008571
Alt.	Chengdu Tieda Electronic Co., Ltd	MYN15-621KM	620V,385V r.m.s	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 40045597
Alt.	Ceramate Techn. Co., Ltd.	GNR14D621K	620V	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 005938
Alt.	Fenghua Adv. Tech.(Holding) Co., Ltd.	FNR-14K621	620V	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 40008242
Alt.	GUANGXI NEW FUTURE INFORMATION INDUSTRY CO., LTD	14D621K	620V	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 40030322
Alt.	Haohua Electronic Co.	HVR14K621 HVR14K621T	620V	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 40031718
Alt.	Chengdu Tieda Electronic Co., Ltd	MYN15-681K	680V	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 40008571
Alt.	Chengdu Tieda Electronic Co., Ltd	MYN15-681KM	680V,420V r.m.s	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 40045597

Alt.	Ceramate Techn. Co., Ltd.	GNR14D681K	680V	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 005938
Alt.	Fenghua Adv. Tech.(Holding) Co., Ltd.	FNR-14K681	680V	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 40008242
Alt.	Haohua Electronic Co.	HVR14K681	680V	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 40031718
Alt.	Chengdu Tieda Electronic Co., Ltd	MYN15-331K	330V	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 40008571
Alt.	Ceramate Techn. Co., Ltd.	GNR14D331K	330V	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 005938
Alt.	Fenghua Adv. Tech.(Holding) Co., Ltd.	FNR-14K331	330V	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 40008242
Alt.	Haohua Electronic Co.	HVR14K331	330V	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 40031718
Alt.	GUANGXI NEW FUTURE INFORMATION INDUSTRY CO.,LTD	14D621KMS	620V	IEC 61051-1 IEC 61051-2-2	VDE 40053795
Alt.	Guizhou Kaili Economic Development Zone Zhonghao Electronics Co., LTD	WLR-14D621KH	620V	IEC 61051-1 IEC 61051-2-2	VDE 40050367
Alt.	Shenzhen Chenju Electronic Technology Co.,Ltd	CNJU 14D621K	620V	IEC 61051-1 IEC 61051-2-2	VDE 40034186
Alt.	Fujian Qiaoguang Electronic Technology Co.,Ltd	FTR14D621K	620V	IEC 61051-1 IEC 61051-2-2	VDE 40051843
Alt.	Guizhou Kaili Economic Development Zone Zhonghao Electronics Co., LTD	WLR-14D681KH	680V	IEC 61051-1 IEC 61051-2-2	VDE 40050367
Alt.	GUANGXI NEW FUTURE INFORMATION INDUSTRY CO.,LTD	14D681KMS	680V	IEC 61051-1 IEC 61051-2-2	VDE 40053795

Alt.	Shenzhen Chenju Electronic Technology Co.,Ltd	CNJU 14D681K	680V	IEC 61051-1 IEC 61051-2-2	VDE 40034186
Alt.	Fujian Qiaoguang Electronic Technology Co.,Ltd	FTR14D681K	680V	IEC 61051-1 IEC 61051-2-2	VDE 40051843
Alt.	Guizhou Kaili Economic Development Zone Zhonghao Electronics Co., LTD	WLR- 14D681KH	680V	IEC 61051-1 IEC 61051-2-2	VDE 40050367
Alt.	GUANGXI NEW FUTURE INFORMATION INDUSTRY CO.,LTD	14D681KMS	680V	IEC 61051-1 IEC 61051-2-2	VDE 40053795
Alt.	Shenzhen Chenju Electronic Technology Co.,Ltd	CNJU 14D681K	680V	IEC 61051-1 IEC 61051-2-2	VDE 40034186
Alt.	Fujian Qiaoguang Electronic Technology Co.,Ltd	FTR14D681K	680V	IEC 61051-1 IEC 61051-2-2	VDE 40051843
Alt.	Haohua Electronic Co.	HVR14K331	330V	IEC/EN 61051-1 IEC/EN 61051-2- 2	VDE 40031718
Alt.	Haohua Electronic Co.	HVR14K621 HVR14K621T	620V	IEC/EN 61051-1 IEC/EN 61051-2- 2	VDE 40031718
Alt.	Haohua Electronic Co.	HVR14K681	680V	IEC/EN 61051-1 IEC/EN 61051-2- 2	VDE 40031718
Alt.	Haohua Electronic Co.	HVR14K331	330V	IEC/EN 61051-1 IEC/EN 61051-2- 2	VDE 40031718
Alt.	GUANGDONG DAFU ELECTRONICS CO LTD	14D331K	330V	IEC 61051-1 IEC 61051-2-2	VDE 40050909
Alt.	GUANGDONG DAFU ELECTRONICS CO LTD	14D621K	620V	IEC 61051-1 IEC 61051-2-2	VDE 40050909
For outdoor unit					
Motor compressor for 14 series	Guangdong Meizhi Compressor Ltd.	KSN98D64UFZ A3	Supplied by DC inverter, R32/R410A	EN 60335-1 EN 60335-2-34 Annex AA	TUV R 50393252 0024

Motor compressor for 18/21 series	Guangdong Meizhi Compressor Ltd.	KSN140D53UF ZM3	Supplied by DC inverter, R32/R410A	EN 60335-1 EN 60335-2-34 Annex AA	TUV R 50393252 0041
Motor compressor for 27 series	Guangdong Meizhi Compressor Ltd.	KTM240D43UK UA2	Supplied by DC inverter, R32/R410A	EN 60335-1 EN 60335-2-40	Tested with appliance
Motor compressor for 28 series	Guangdong Meizhi Compressor Ltd.	KTM240D43UK P	Supplied by DC inverter, R32/R410A	EN 60335-1 EN 60335-2-40	TUV R 50393252
Motor compressor for 36/42 series	Guangdong Meizhi Compressor Ltd.	KTF310D43UM T	Supplied by DC inverter, R410A/R32	EN 60335-1 EN 60335-2-34 Annex AA	Tested with appliance
Outdoor fan motor for 14/18 series	Hefei City Tongdeli electric manufacturing co.,ltd.	T10WZ40-A03	DC 310 V, 40 W, Class 120 (E)	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	GUANGDONG WELLING MOTOR MANUFACTURING CO., LTD.	ZKFN-40-10-1L	DC 310 V, 40 W, Class 120 (E)	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	JEAMO MOTOR CO.,LTD	YMA040BJ01N 3	DC 310 V, 40 W, Class 130 (B)	EN 60335-1 EN 60335-2-40	Tested with appliance
Outdoor fan motor for 21/27 series	SHISHISHI TONGDA MOTOR CO.,LTD.	ZYTM96-2800065A1	DC 310 V, 65 W, Class 130 (B)	EN 60335-1 EN 60335-2-40	Tested with appliance
	Hefei City Tongdeli electric manufacturing co.,ltd.	T10WZ65-A02	DC 310 V, 65 W, Class 120 (E)	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	WOLONG ELECTRIC GROUP CO.,LTD.	ZWB2710L11A L	DC 310 V, 60 W, Class 120 (E)	EN 60335-1 EN 60335-2-40	Tested with appliance
Outdoor fan motor for 36/42 series	WOLONG ELECTRIC GROUP CO., LTD.	ZWB278D60A	DC 310 V, 120 W, Class 120 (E)	EN 60335-1 EN 60335-2-40	Tested with appliance
Reactor for 42 series	yunlu energy technology co., ltd	DK25 series	25 A, 5,0 mH	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	Dongguan City Dazhong Electronic Co., Ltd.	DK25 series	25 A, 5,0 mH	EN 60335-1 EN 60335-2-40	Tested with appliance

Alt.	Zhenjiang Honglian Electrician Co., Ltd.	DK25 series	25 A, 5,0 mH	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	Zhenjiang Honglian Electrician Co., Ltd.	LE96series	25 A, 5,0 mH	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	qingdaoyunlu energy technology co., ltd	DK25-5-50	25 A, 5,0 mH	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	Dongguan City Dazhong Electronic Co., Ltd.	DK25-5-50	25 A, 5,0 mH	EN 60335-1 EN 60335-2-40	Tested with appliance
Reactor for 36 series	Zhenjiang Honglian Electrical Engineering Co., Ltd.	LE85.8-2050A	20 A, 5,0 mH	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	ZHENGLIANG ELECTRONIC CO., LTD	DK20-5d2-50	20 A, 5,2 mH	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	Qingdao yunlu energy technology co., ltd	DK20-5d2-50	20 A, 5,2 mH	EN 60335-1 EN 60335-2-40	Tested with appliance
4-way valve	Zhejiang Sanhua Climate and Appliance Controls Group Co., Ltd.	SHF series	AC 220-240 V, 50/60 Hz, Class 120(E)	EN 60730-1	VDE 40027860
Alt.	Zhejiang Dun'an Artificial Environment Co., Ltd.	DSF series	AC 220-240 V, 50/60 Hz, 5-7 W	EN 60730-1	VDE 40013212
Alt.	Zhejiang Dun'an Artificial Environment Co., Ltd.	DSF-4-R410A	AC 220-240 V, 50/60 Hz, 5-7 W	EN 60730-1	VDE 40013212
	ZHEJIANG SANHUA INTELLIGENT CONTROLS CO.,LTD	SHF-4H-23U-P	220-240 V,50/60 Hz,4,5/3,5 W	EN 60730-1	VDE 40048077
Alt.	Zhejiang Dun'an Artificial Environment Co., Ltd.	DSF-9-R410A DSF-9 DSF-9F	AC 220-240 V, 50/60 Hz, 5-7 W	EN 60730-1	VDE 40013212

Alt.	Zhongshan City Gangli Refrigeration Fittings Co., Ltd.	SHF-7 R410A	AC 220-240 V, 50/60 Hz, 4,5/3,5 W	EN 60730-1	VDE 40026249
Alt.	Zhejiang Sanhua Climate and Appliance Controls Group Co., Ltd	SHF-7H-34U-P SHF-7-34U-P	AC 220-240 V, 50/60 Hz, 3,5/4,5 W	EN 60730-1	VDE 40003240
Alt.	Zhejiang Dun'an Artificial Environment Co., Ltd.	DSF-11-R410A DSF-11E-R410A	AC 220-240 V, 50/60 Hz, 5-7 W	EN 60730-1	VDE 40013212
Alt.	Zhejiang Sanhua Climate and Appliance Controls Group Co., Ltd	SHF-9H-35U-P	AC 220-240 V, 50/60 Hz, 3,5/4,5 W	EN 60730-1	VDE 40003240
Terminal block	Yuqing City Hua Chen Electronic Component Factory	JXO series JXO-B Series	600 V, 4 mm ² or 6 mm ²	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	Changzhou ChanghengKaidu Electric Products Co., Ltd.	JX Series JX* ** Series	600 V, 4 mm ² or 6 mm ²	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	Changzhou Kaidu Electrical Co., Ltd.	JXG Series	600 V, 4 mm ²	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	Nantong Huaguan Electric Co., Ltd	JXW Series	600 V, 4 mm ²	EN 60335-1 EN 60335-2-40	VDE 40013197 + Tested with appliance
Alt.	Zhenjiang Honglian Electrician Co., Ltd.	JX044	600 V, 4 mm ²	EN 60335-2-40 EN 60335-1	Tested with appliance
Alt.	Yuqing City Hua Chen Electronic Component Factory	JXO-B3-1a	600 V, 6 mm ²	EN 60335-2-40 EN 60335-1	Tested with appliance
Pressure Operating Control	Changzhou Match-well Pressure Control Technique Co.,Ltd.	YK series	AC250V,3A	IEC 60730-2-6	VDE 40000571 CQC04002010595
Alt.	Zhenjiang Honglian Electrician Co., Ltd.	YK series	AC250V,3A	IEC 60730-2-6	TUV R 50246886 TUV R 50302525

For indoor unit BRAC-FM-IASP2-7-R3-I, BRAC-FM-IASP2-9-R3-I, BRAC-FM-IASP2-12-R3-I, BRAC-FM-IASP2-18-R3-I, BRAC-FM-IASP2-24-R3-I					
Indoor fan motor (for 07/09/12 series)	Jiangmen LT Motor Co.,Ltd.	RD(AL)N13HA10	DC310V,13W,Class E	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	GUANGDONG WELLING MOTOR MANUFACTURING CO.,LTD.	ZKFN-13-10-2L	DC310V,13W,Class E	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	Hefei City Tongdeli electric manufacturing co.,Ltd.	T10WZ13-A03	DC310V,13W,Class E	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	JEAMO MOTOR CO.,LTD	YMA013BB02N3	DC310V,13W,Class B	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	GREEN-INTELLIGENCE ELECTRICAL EQUIPMENT CO.,LTD. NANHAI DISTRICT FOSHAN CITY	ZWR13-10A1(L)	DC310V,13W,Class E	EN 60335-1 EN 60335-2-40	Tested with appliance
Indoor fan motor (for 18 series)	SHISHISHI TONGDA MOTOR CO.,LTD.	ZYTM93-3100030B01330	DC 310 V, 30 W, Class B	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	GUANGDONG WELLING MOTOR MANUFACTURING CO.,LTD.	ZKFP-30-8-303L	DC 310 V, 30 W, Class C	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	WOLONG ELECTRIC GROUP CO.,LTD.	ZWA138DD1BL	DC 310 V, 30 W, Class C	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	JEAMO MOTOR CO.,LTD	YMAP030BA01N3	DC 310 V, 30 W, Class B	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	GREEN-INTELLIGENCE ELECTRICAL EQUIPMENT CO.,LTD. NANHAI DISTRICT FOSHAN CITY	ZWR30-8X(L)	DC 310 V, 30 W, Class C	EN 60335-1 EN 60335-2-40	Tested with appliance

Indoor fan motor (for 24 series)	GUANGDONG WELLING MOTOR MANUFACTURING CO.,LTD.	ZKFP-50-10-1L	DC310V,50W,C lassE	EN 60335-1 EN 60335-2-40	Tested with appliance
Capacitor for indoor AC fan motor (for all series except 18/24 series)	Guangdong Fengming Electronic Tech. Co., Ltd.	CBB61	1.5 μ F,AC450V, 50/60Hz,T70 or T85,S0	EN 60252-1	VDE 40006835
Alt.	Anhui Tongfeng Electronics Co., Ltd.	CBB61	1.5 μ F,AC450V, 50/60Hz,T70 or T85,S0	EN 60252-1	TUV R 50238478
Alt.	Guangdong Fengming Electronic Tech. Co., Ltd.	CBB61-P2	1.5 μ F,AC450V, 50/60Hz, T70 or T85,S3	EN 60252-1	TUV R 50163114/ TUV R 50274996
Alt.	Anhui Tongfeng Electronics Co., Ltd.	CBB61	1.5 μ F,AC450V, 50/60Hz, T85 or T70,S3	EN 60252-1	TUV R 50238482
Alt.	Foshan City Xin Yuan Electronic Co.,Ltd	CBB61	1.5 μ F,450V,50/ 60Hz,40/85/21 S3	EN 60252-1	TUV R 50303523
Alt.	Foshan ShunDe Beijiao Hua Da Electric Industrial Co.,Ltd.	CBB61	1.5 μ F,450V,50/ 60Hz,40/70/21 S3	EN 60252-1	TUV R 50033889
Alt.	SHUNDE KESHENG ELECTRONIC CO., LTD	CBB61S	1.5 μ F,AC450V, 50/60Hz,S3, 40/85/21, 40/70/21	EN/IEC 60252-1	TUV R 50276081
Alt.	Ningguo shuangjie electric appliance co. LTD	CBB61	1.5 μ F,AC450V, 50/60Hz,S3, 40/70/21	EN/IEC 60252-1	TUV R 50456490
Alt.	Ningbo Shine Electrical Co.,Ltd	CBB61S	1.5 μ F,/450VAC 50/60Hz 40/70/21 S3	EN 60252-1	TUV R 50076953
Capacitor for indoor AC fan motor	Guangdong Fengming Electronic Tech. Co., Ltd.	CBB61	3 μ F,AC450V,50 /60Hz,T70 or T85,S0	EN 60252-1	VDE 40006835
Alt.	Anhui Tongfeng Electronics Co., Ltd.	CBB61	3 μ F,AC450V,50 /60Hz,T70 or T85,S0	EN 60252-1	TUV R 50238478
Alt.	Guangdong Fengming Electronic Tech. Co., Ltd.	CBB61-P2	3 μ F,AC450V,50 /60Hz, T70 or T85,S3	EN 60252-1	TUV R 50163114/ TUV R 50274996

Alt.	Anhui Tongfeng Electronics Co., Ltd.	CBB61	3 μ F, AC450V, 50/60Hz, T85 or T70, S3	EN 60252-1	TUV R 50238482
Alt.	Foshan City Xin Yuan Electronic Co., Ltd	CBB61	1.5 μ F, 450V, 50/60Hz, 40/85/21 S3	EN 60252-1	TUV R 50303523
Alt.	Foshan ShunDe Beijiao Hua Da Electric Industrial Co., Ltd.	CBB61	3 μ F, 450V, 50/60 Hz, 40/70/21 S3	EN 60252-1	TUV R 50033889
Alt.	SHUNDE KESHENG ELECTRONIC CO., LTD	CBB61S	3 μ F, AC450V, 50/60Hz, S3, 40/85/21, 40/70/21	EN/IEC 60252-1	TUV R 50276081
Alt.	Ningguo shuangjie electric appliance co. LTD	CBB61	3 μ F, AC450V, 50/60Hz, S3, 40/70/21	EN/IEC 60252-1	TUV R 50456490
Alt.	Ningbo Shine Electrical Co., Ltd	CBB61S	3 μ F, /450VAC 50/60Hz 40/70/21 S3	EN 60252-1	TUV R 50076953
Alt.	Guangdong Fengming Electronic Tech. Co., Ltd.	CBB61	3 μ F, AC450V, 50/60Hz, T70 or T85, S0	EN 60252-1	VDE 40006835
Alt.	Anhui Tongfeng Electronics Co., Ltd.	CBB61	3 μ F, AC450V, 50/60Hz, T70 or T85, S0	EN 60252-1	TUV R 50238478
Step motor for 07/09/12 series	CixiHuaxia Electrical Appliance Co., Ltd./HUACHENG	24BYJ48	DC 12 V	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	Jiangsu Huayang Electric Co., Ltd	24BYJ48	DC 12 V	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	CHANGZHOU OUCK ELECTRIC CO., LTD	24BYJ48	DC 12 V	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	Jiangsu Leili motor Co., Ltd	24BYJ48	DC 12 V	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	Hefei Huilipu Motor Co., Ltd.	24BYJ48	DC 12 V	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	Minzhuo Electric Co., Ltd	24BYJ48	DC 12 V	IEC 60335-1 IEC 60335-2-41	Tested with appliance
Alt.	Hefei Rishang Electrical Appliance Co., Ltd.	24BYJ48	12VDC	IEC 60335-1 IEC 60335-2-40	Tested with appliance

Step motor for 18series	CixiHuaxia Electrical Appliance Co., Ltd./HUACHENG	28BYJ48	DC 12 V	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	Jiangsu Huayang Electric Co., Ltd	28BYJ48	DC 12 V	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	CHANGZHOU OUCK ELECTRIC CO., LTD	28BYJ48	DC 12 V	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	Hefei Huilipu Motor Co., Ltd.	28BYJ48	DC 12 V	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	Jiangsu Leili motor Co., Ltd	28BYJ48	DC 12 V	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	Minzhuo Electric Co., Ltd	28BYJ48	12VDC	IEC 60335-1 IEC 60335-2-40	Tested with appliance
Alt.	Hefei Rishang Electrical Appliance Co.,Ltd.	28BYJ48	12VDC	IEC 60335-1 IEC 60335-2-40	Tested with appliance
Step motor for 24 series	CixiHuaxia Electrical Appliance Co., Ltd./HUACHENG	35BYJ46	DC 12 V	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	Jiangsu Huayang Electric Co., Ltd	35BYJ46	DC 12 V	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	CHANGZHOU OUCK ELECTRIC CO., LTD	35BYJ46	DC 12 V	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	Hefei Huilipu Motor Co., Ltd.	35BYJ46	DC 12 V	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	Jiangsu Leili motor Co., Ltd	35BYJ46	DC 12 V	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	Minzhuo Electric Co., Ltd	35BYJ46	12VDC	IEC 60335-1 IEC 60335-2-40	Tested with appliance
Alt.	Hefei Rishang Electrical Appliance Co.,Ltd.	35BYJ46	12VDC	IEC 60335-1 IEC 60335-2-40	Tested with appliance
Terminal block	Yuqing City Hua Chen Electronic Component Factory	JXO series JXO-B Series	600 V, 4 mm ² or 6mm ²	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	Changzhou ChanghengKaidu Electric Products Co., Ltd.	JX Series JX* _ ** Series	600 V, 4 mm ² or 6mm ²	EN 60335-1 EN 60335-2-40	Tested with appliance

Alt.	Changzhou Kaidu Electrical Co., Ltd.	JXG Series	600 V, 4 mm ²	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	Nantong Huaguan Electric Co., Ltd	JXW Series	600 V, 4 mm ²	EN 60335-1 EN 60335-2-40	VDE 40013197 + Tested with appliance
Alt.	Zhejiang HongLian Electric Co., Ltd.	JXO series	600 V, 4 mm ²	EN 60335-1 EN 60335-2-40	TUV R 50096041
Alt.	Changzhou Changheng Kaidu Electric Products Co., Ltd.	JX-B5	600 V, 4 mm ²	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	Changzhou Changheng Kaidu Electric Products Co., Ltd.	JXW-5-S	600 V, 4 mm ²	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	Nantong Huaguan Electric Co. Ltd.	JXW-5-S	600 V, 4 mm ²	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	Foshan Shunde Yuanfeng Metal Electrical Appliances Co.,Ltd	YF series	600V 4mm ²	EN 60998-1 EN 60998-2-1	Tested with appliance
Enclosure	Ningbo AUX Air Conditioner Co., Ltd.	ABS	Min. thickness: 2,0 mm	EN 60335-1 EN 60335-2-40	Tested with appliance
Negative Lon generator (optional)	Zhenjiang Hanbang Technology Co., Ltd.	HB-111 HB-113 HB-115	DC 12 V, ≤ 1 W	EN60335-1, EN60335-2-65	TUV B 13 06 41319 026
Plasma Lon generator(option al)	Shandong Xuesheng Electric Appliance Co., Ltd	XS-PL-13	DC 12 V	EN60335-1, EN60335-2-65	TUV R 50406409
Indoor Unit PCB for BRAC-FM-IASP2-7-R3-I, BRAC-FM-IASP2-9-R3-I, BRAC-FM-IASP2-12-R3-I, BRAC-FM-IASP2-18-R3-I, BRAC-FM-IASP2-24-R3-I					
X2 Capacitor	Ningbo Jiangbei Zhenhua Electronic Co, Ltd	CBB62	0,01 μF, 0,1 μF, 0,22 μF, 0,47 μF, 2,2 μF, 1,0 μF, X2, T85/T100	IEC/EN 60384-14	VDE 40006458

Alt.	Guangdong Fengming Electronic Tech. Co., Ltd	MKP-X2	0,01 μ F, 0,1 μ F, 0,22 μ F, 0,47 μ F, 2,2 μ F, 1,0 μ F, 275 V, X2, T85/T105/T110	IEC/EN 60384-14	VDE 40025702
Alt.	Foshan City Xinyuan Electronic Co., Ltd	MKP-X2	0,01 μ F, 0,1 μ F, 0,22 μ F, 0,47 μ F, 2,2 μ F, 1,0 μ F, 275 V, T105	IEC/EN 60384-14	VDE 40027433
Alt.	CHANGZHOU JIAGUAN ELECTRONICS CO., LTD	MKP	0,01 μ F, 0,1 μ F, 0,22 μ F, 0,47 μ F, 2,2 μ F, 1,0 μ F, AC 275/300V, 40/110/21	IEC/EN 60384-14	VDE 40037250
Alt	CHANGZHOU JIAGUAN ELECTRONICS CO., LTD	MKP	0,01 μ F, 0,1 μ F, 0,22 μ F, 0,47 μ F, 2,2 μ F, 1,0 μ F, AC 275/300V, 40/110/56	IEC/EN 60384-14	VDE 40052871
Alt.	Huizhou City Yuxinyuan Electronics Co., Ltd	MKP-X2	0,1 μ F, 0,22 μ F, 0,47 μ F, 1,0 μ F, 2,2 μ F, AC 275V, X2, 40/105/56, 40/110/56	IEC/EN 60384-14	VDE 40045442
Alt.	SICHUAN SINCERITY TECHONOGY CO.,LTD	MPX/MKP	0,1 μ F, 0,22 μ F, 0,47 μ F, 1,0 μ F, 2,2 μ F, AC320V,X2, 40/110/56	IEC/EN 60384-14	VDE:40052140
Alt.	Zhejiang Qixing Electronics Co.,Ltd	MPX/MKP	0,1 μ F, 0,22 μ F, 0,47 μ F, 1,0 μ F, 2,2 μ F, AC275V,X2, 40/110/56	IEC/EN 60384-14	VDE40049209
Alt.	SICHUAN SINCERITY TECHNOLOGY CO.,LTD.	MPX/MKP	0,1 μ F, 0,22 μ F, 0,47 μ F, 1,0 μ F, 2,2 μ F, AC275V,X2, 40/110/56	IEC/EN 60384-14	VDE:40052140
Fuse	Sun Electric Co., Ltd.	5B	T3, 15 AL, 250 V	IEC/EN 60127	VDE 40011342
Alt.	HANGZHOU SHENGDA ELECTRONICS CO., LTD	50T	T3, 15 AL, 250 V	IEC/EN 60127	VDE 40014460
Alt.	Hollyland Company Limited	50CT	AC250 V, T, 3,15A, H	IEC/EN 60127	VDE 40014896
Alt.	Sun Electric Co	5H	250 V, 3,15 A,T	EN 60127-2 EN 60127-1	TUV R50220933

Alt.	Walter Electronic Co., Ltd.	TSC	250 V, 3,15 A,T	EN 60127-2 EN 60127-1	VDE 40016670
Alt.	XC Electronics(shenzhen)Corp,Ltd.	5H	AC250V,3.15A,T	EN 60127-2 EN 60127-1	VDE 40037020
Alt.	Sun Electric Co.	5H	AC250V,5A,T	EN 60127-2 EN 60127-1	TUV J 50220933
Alt.	Sun Electric Co. O/B Heroday Ltd.	5B	AC250V,5A,T	EN 60127-2 EN 60127-1	VDE 40011342
Alt.	Hollyland Company Limited	50CT	AC250V,5A,T	EN 60127-2 EN 60127-1	VDE 40014896
Alt.	Hollyland Company Limited	50T	AC250V,5A,T	EN 60127-2 EN 60127-1	VDE 40014460
Alt.	Walter Electronic Co.,Ltd.	TSC	AC250V,5A,T	EN 60127-2 EN 60127-1	VDE 40016670
Alt.	XC Electronics(shenzhen)Corp,Ltd.	5H	AC250V,5A,T	EN 60127-2 EN 60127-1	VDE 40037020
Alt.	Dongguan Better Electronics Technology Co., Ltd.	524	AC250V, 5A, 5A, T	IEC/EN 60127-2 IEC/EN 60127-1	VDE 40025424
Alt.	Honghu Bluelight Electronic Co.Ltd.	L5CT	AC250V,5A	EN 60127-2 EN 60127-1	VDE 40034207
Optocoupler	Sharp Corporation Electronic	PC817	>=6,4mm, 9000V, 55/100/21	IEC/EN 60747-5-5	VDE 40008087
Alt.	Lite-On Technology Corporation	MOC3021 MOC3022 MOC3023	>=7mm,6000V, 25/110/21	IEC/EN 60747-5-5	VDE 40015248
Alt.	Toshiba Corporation	TLP185	>=5mm,6000V, 30/110/21	IEC/EN 60747-5-5	VDE 40009347
Alt.	Toshiba Corporation	TLP785	>=7mm, 8000V, 55/115/21	IEC/EN 60747-5-5	VDE 40031808
Alt.	VISHAY SEMICONDUCT GmbH	VOM617A	>=5mm, 6000V, 55/110/21	IEC/EN 60747-5-5	VDE 40034600
Alt.	LITEON Technology Corporation	LTV-356T	>=5mm, 6000V, 55/110/21	IEC/EN 60747-5-5	VDE 138213
Alt.	Fairchild Semiconductor Pte Ltd	FODM121	>=5mm, 6000V, 55/110/21	IEC/EN 60747-5-5	VDE 40019875
Alt.	Toshiba Corporation Semiconductor & Storage Products Company	TLP109	≥5mm,6000V, 55/125/21	IEC/EN 60747-5-5	VDE 40009347

Alt.	EVERLIGHT ELECTRONICS CO., LTD.	EL816	≥7,6mm,6000V, 55/110/21	IEC/EN 60747-5-5	VDE 132249
Alt.	EVERLIGHT ELECTRONICS CO., LTD.	EL357N	≥5mm,6000V,5 5/110/21	IEC/EN 60747-5-5	VDE 132249
Alt.	Lite-On Technology Corporation	MOC3021 MOC3022 MOC3023	≥7,0mm,8000 V, 25/110/21	IEC/EN 60747-5-5	VDE 40015248
Alt.	SHENZHEN ORIENT COMPONENTS CO., LTD	OR-357C	≥5,0mm,5000 V, 55/115/21	IEC/EN 60747-5-5	VDE 40029733
Alt.	NingBo Qunxin Microelectronics Co., LTD	QX3021	≥7,0mm,7000 V, 55/100/21	IEC/EN 60747-5-5	VDE 40051490
Alt.	NingBo Qunxin Microelectronics Co., LTD	QX357C	≥5,0mm,5000 V, 55/110/21	IEC/EN 60747-5-5	VDE 40053982
Alt.	Everlight Electronics., Ltd.	EL357N	≥5,0mm,4800 V, 55/110/21	IEC/EN 60747-5-5	VDE 132249
Alt.	Everlight Electronics., Ltd.	EL3021	≥7,6mm,6000 V, 55/100/21	IEC/EN 60747-5-5	VDE 132249
Alt.	Xiamen Hualian Semiconductor Technology Co., Ltd.	HPC357C	≥5,0mm,6000 V, 55/110/21	IEC/EN 60747-5-5	VDE 40004708
Alt.	Xiamen Hualian Semiconductor Technology Co., Ltd.	HPC3053-3	≥7,0mm,6000 V, 30/100/21	IEC/EN 60747-5-5	VDE 40004708
Alt.	NingBo Qunxin Microelectronics Co., LTD	QXM511	L≥5mm 5000V 55/110/21	IEC/EN 60747-5-5	VDE 40053982
Alt.	NingBo Qunxin Microelectronics Co., LTD	QX8817	L≥7mm 7000V 55/110/21	IEC/EN 60747-5-5	VDE 40051490
Alt.	Cosmo Electronics Corporation	KPC357NT	≥5mm, 3750V, 55/115/21	IEC/EN 60747-5-5	VDE 40014684
Relay1	Xiamen Hongfa Electroacoustic Co.,Ltd	HF2160-1A-12DE	AC250V,15A,cosφ=0.4,12VDC, T85,10E4	IEC/EN 61810-1	TUV R 50153835
Alt.	Zhejiang Meishuo Electric Technology Co.,LTD	MPQ4-S-112D-A	AC240V,30A,12 VDC,T85,10E4	IEC/EN 61810-1	TUV R 50184977
Alt.	Wangrong Electronics (Shenzhen) Co., Ltd.	RA2-112LM	AC250V,30A,12 VDC,T85,10E4	IEC/EN 61810-1	TUV R 50228669

Alt.	Dongguan Churod Electronics Co., Ltd.	CHS02-V-112LA	AC277V,30A,12VDC,T85,10E4	IEC/EN 61810-1	TUV R 50271657
Alt.	DongGuan Churod Electronics Co., Ltd.	CHS02-S-112LA2	277VAC,30A,12VDC,T85,100000	IEC/EN 61810-1	TUV R 50271657
Alt.	Shenzhen Yuanze Electric Co.,Ltd.	Y90-SS-112DM	250VAC,30A,12VDC,T85,100000	IEC/EN 61810-1	TUV R 501984733
Alt.	NingBo Zettler Electronics Co., Ltd.	JT2160-1A-12DE	240VAC,30A,12VDC,T85,100000	IEC/EN 61810-1	TUV R 50266582
Alt.	NINGBO TIANBO GANGLIAN ELECTRONICS CO.,LTD	HJQ-15F-2-S-H	240VAC,30A,12VDC,T85,10E4	IEC/EN 61810-1	TUV R 50116174
Alt.	DONGGUAN SANYOU ELECTRICAL APPLIANCES CO., LTD.	SFD-112DM	30A 250VAC	IEC 61810-1	VDE 40007793
Alt.	Sanyou Corporation Limited	SLI-SH-112DMK SLI-SH-112DM	AC240V,30A,12VDC	IEC/EN 61810-1 IEC 60079-15	TUV R 50143450
Alt.	Wangrong Electronics (Shenzhen) Co., Ltd.	RA2-112LM-S	AC250V,30A,12VDC,T85,10E4	IEC/EN 61810-1 IEC 60079-15	TUV R 50228669
Alt.	Zhejiang Meishuo Electric Technology Co.,LTD	MPQ4-S-112D-A	AC240V,30A,12VDC,T85,10E4	IEC/EN 61810-1 IEC 60079-15	TUV R 50184977
Alt.	Dongguan Churod Electronics Co., Ltd.	CHS02-S-112LA	AC277V,30A,12VDC,T85,10E4	IEC/EN 61810-1 IEC 60079-15	TUV R 50271657
Alt.	Xiamen Hongfa Electroacoustic Co.,Ltd.	HF2160-1A-12DE	240VAC,30A,250AC,30A,12VDC,T85,10E4	IEC/EN 61810-1 IEC 60079-15	TUV R 50153835
Alt.	DongGuan Churod Electronics Co., Ltd.	CHS02-S-112LA2	277VAC,30A,12VDC,T85,100000	IEC/EN 61810-1 IEC 60079-15	TUV R 50271657
Alt.	NingBo Zettler Electronics Co., Ltd.	JT2160-1A-12DE	240VAC,30A,12VDC,T85,100000	IEC/EN 61810-1 IEC 60079-15	TUV R 50266582
Alt.	NINGBO TIANBO GANGLIAN ELECTRONICS CO.,LTD	HJQ-15F-2-S-H	240VAC,30A,12VDC,T85,100000	IEC/EN 61810-1	TUV R 50116174
Relay2	Sanyou Corporation Limited	SFK-112DM	AC250V,20A,12VDC,T85,10E4	IEC/EN 61810-1	VDE40007481

Alt.	Xiamen Hongfa Electroacoustic Co.,Ltd	JQX-102F	AC250V,20A,12VDC,T85,10E4	IEC/EN 61810-1	VDE 40024142
Alt.	Wangrong Electronics (Shenzhen) Co., Ltd.	RF-SS-112DMF	AC250V,20A,12VDC,T85,10E4	IEC/EN 61810-1	TUV R 50194013
Alt.	Dongguan Churod Electronics Co., Ltd.	CHF-V-112DA2	AC250V,20A,12VDC,T85,10E4	IEC/EN 61810-1	TUV R 50220099
Alt.	Zhejiang Meishuo Electric Technology Co.,LTD	MPY-S-112-A	AC250V,20A,12VDC,T85,10E4	IEC/EN 61810-1	TUV R 50204088
Alt.	NingBO Zettler Electronics Co., Ltd.	JT102FT-12VDC	250VAC 20A 12VDC (- 40,+85°C)	IEC/EN 61810-1	TUV R 50276259
Alt.	DongGuan Churod Electronics Co., Ltd.	CHE-S-112DA2	277VAC,20A,12VDC,T85,100000	IEC/EN 61810-1	TUV R 50366268
Alt.	Dongguan Yongneng Electronics Co.,Ltd	YX212-S-112DM	AC250V,20A,12VDC,T105,10E4	IEC/EN 61810-1	TUV R 50457124
Alt.	Dongguan Churod Electronics Co., Ltd.	CHF-S-112DA2	AC250V,20A,12VDC	IEC/EN 61810-1 IEC 60079-15	TUV R50220099
Alt.	Xiamen Hongfa Electroacoustic Co.,Ltd.	JQX-102F	AC250V,20A,12VDC,10E4, T85	IEC/EN 61810-1 IEC 60079-15	VDE 40024142
Alt.	Zhejiang Meishuo Electric Technology Co.,LTD	MPY-S-112-A	AC250V,20A,12VDC,T85,2E4	IEC/EN 61810-1 IEC 60079-15	TUV R 50204088
Alt.	Sanyou Corporation Limited	SFK-112DM	250VAC 20A,cos phi=0.9, 12VDC, ,T85,10E4	IEC/EN 61810-1 IEC 60079-15	TUVR50138321
Alt.	Wangrong Electronics (Shenzhen) Co., Ltd.	RF-SS-112DM	AC250V,20A,cos phi=0.9,12VDC, T85,10E4	IEC/EN 61810-1 IEC 60079-15	TUV R 50194013
Alt.	Sanyou Corporation Limited	SFK-112DMP	250VAC 20A,12VDC, ,T85,10E4	IEC/EN 61810-1 IEC 60079-15	TUV R 50138321
Alt.	Xiamen Hongfa Electroacoustic Co.,Ltd.	HF161F/012-HT(310)	12VDC;160Ω, 900mW;20A 250VAC	IEC/EN 61810-1 IEC 60079-15	VDE 40031410
Alt.	Zhejiang Meishuo Electric Technology Co.,LTD	MPY-S-112-A-P	AC250V,20A,12VDC,T85,2E4	IEC/EN 61810-1 IEC 60079-15	TUV R 50204088

Alt.	DongGuan Churod Electronics Co., Ltd.	CHE-S-112DA2 CHEN-S-112DA2	277VAC,20A,12 VDC,T85,100000	IEC/EN 61810-1 IEC 60079-15	TUV R 50366268
Alt.	NingBo Zettler Electronics Co., Ltd.	JT102FT-12VDC(310)	250VAC,20A,12 VDC,T85,100000	IEC/EN 61810-1 IEC 60079-15	TUV R 50276259
Alt.	NingBo Zettler Electronics Co., Ltd.	JT102F-PT-12VDC(310)	250VAC,20A,12 VDC,T85,100000	IEC/EN 61810-1 IEC 60079-15	TUV R 50276259
Alt.	Dongguan Yongneng Electronics Co.,Ltd	YX212-S-112DM	250VAC,20A,12 VDC,T105,100000	IEC/EN 61810-1 IEC 60079-15	TUV R 50457124
Switch transformer	Dongguan City Dazhong Electronic Co., Ltd.	CE-625-HB	DC 200-380 V, 120 kHz; DC 12V, 800 mA, Class 120(E)	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	Dandong Zhongding Electron Co., Ltd.	CE-625-HB	DC 200-380 V, 120 kHz; DC 12 V, 800 mA, Class 120(E)	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	Jiayang Electronics Core New-tech Co., Ltd.	CE-625-HB	DC 200-380 V, 120 kHz; DC 12 V, 800 mA, Class 120(E)	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	Shenzhen Yamaxi Electronics Co., Ltd.	CE-625-HB	DC 200-380 V, 120 kHz; DC 12 V, 800 mA, Class 120(E)	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	WU HAN CHEN YANG CORE NEW-TECH CO., LTD	CE-625-HB	DC200-380V, 120kHz, DC12V, 800mA	IEC/EN 60335-1 IEC/EN 60335-2-40	Tested with appliance
Alt.	FOSHAN SHUNDE QIANGLI ELECTRICAL CO.,LTD	CE-625-HB	DC200-380V,120kHz; DC12V,800mA	IEC 60335-2-40	Tested with appliance
Alt.	DONGGUAN CITY KOREYOSHI ELECTRONICS CO LTD.	CE-625-HB	DC200-380V,120kHz; DC12V,800mA	IEC 60335-2-40	Tested with appliance
Alt.	GUANGZHOU DELOOP ELECTRONIC DECICE LTD	CE-625-HB	DC200-380V,120kHz; DC12V,800mA	IEC 60335-2-40	Tested with appliance
Alt.	Haining Qilianshan Electronics Co.,Ltd	CE-625-HB	DC200-380V,120kHz; DC12V,800mA	IEC 60335-2-40	Tested with appliance

Alt.	WU HAN CHEN YANG CORE NEW-TECH CO., LTD	EE20-06PA	85~265V, 15.6V/5.6V, 0.9/0.2	IEC/EN 60335-1 IEC/EN 60335-2- 40	Tested with appliance
Alt.	WU HAN CHEN YANG CORE NEW-TECH CO., LTD	ECO2123	170VDC- 380VDC, 100KHZ, DC15V/12V/5V, 1000mA	IEC/EN 60335-1 IEC/EN 60335-2- 40	Tested with appliance
Y Capacitor	Handan Aoneng Electronic Co., Ltd.	CT7	AC 400 V, Y1, 25/125/21	IEC/EN 60384-14	VDE 40041436
Alt.	Handan Aoneng Electronic Co., Ltd.	CT7	AC250V, Y1,25/125/21	IEC/EN 60384-14	VDE 40041436
Alt.	CHANGZHOU JIAGUAN ELECTRONICS CO., LTD	X1Y1	AC 400 V, 25/125/21	IEC/EN 60384-14	VDE 40044434
Alt.	ZHAOQING INFORMED ELECTRONICS FACTORY CO., LTD	CD	AC400V,25/125 /21	IEC/EN 60384-14	VDE 40048059
Alt.	ZHAOQING INFORMED ELECTRONICS FACTORY CO., LTD	CE	AC250V,25/125 /21	IEC/EN 60384-14	VDE 40048053
Varistor	Chengdu Tieda Electronic Co., Ltd	MYN15-331K	330V	IEC 61051-1 IEC 61051-2-2	VDE4000857 1
Alt.	Chengdu Tieda Electronic Co., Ltd	MYN15-331KM	330V	IEC 61051-1 IEC 61051-2-2	VDE4004559 7
Alt.	Ceramate Techn. Co.,Ltd.	GNR14D331K	330V	IEC 61051-1 IEC 61051-2-2	VDE 5938
Alt.	Fenghua Adv. Tech.(Holding) Co.,Ltd.	FNR-14K331	330V	IEC 61051-1 IEC 61051-2-2	VDE 40008242
Alt.	Guizhou Kaili Economic Development Zone Zhonghao Electronics Co., LTD	WLR- 14D331KH	330V	IEC 61051-1 IEC 61051-2-2	VDE 40050367
Alt.	GUANGXI NEW FUTURE INFORMATION INDUSTRY CO.,LTD	14D331K	330V	IEC 61051-1 IEC 61051-2-2	VDE 40030322

Alt.	Shenzhen Chenju Electronic Technology Co.,Ltd	CNJU 14D331K	330V	IEC 61051-1 IEC 61051-2-2	VDE 40034186
Alt.	Fujian Qiaoguang Electronic Technology Co.,Ltd	FTR14D331K	330V	IEC 61051-1 IEC 61051-2-2	VDE 40051843
Alt.	Haohua Electronic Co.	HVR14K331	330V	IEC 61051-1 IEC 61051-2-2	VDE 40031718
Alt.	Chengdu Tieda Electronic Co., Ltd	MYN15-621K	620V	IEC 61051-1 IEC 61051-2-2	VDE4000857 1
Alt.	Chengdu Tieda Electronic Co., Ltd	MYN15-621KM	620V	IEC 61051-1 IEC 61051-2-2	VDE4004559 7
Alt.	Ceramate Techn. Co.,Ltd.	GNR14D621K	620V	IEC 61051-1 IEC 61051-2-2	VDE 5938
Alt.	Fenghua Adv. Tech.(Holding) Co.,Ltd.	FNR-14K621	620V	IEC 61051-1 IEC 61051-2-2	VDE 40008242
Alt.	GUANGXI NEW FUTURE INFORMATION INDUSTRY CO.,LTD	14D621K	620V	IEC 61051-1 IEC 61051-2-2	VDE 40030322
Alt.	GUANGXI NEW FUTURE INFORMATION INDUSTRY CO.,LTD	14D621KMS	620V	IEC 61051-1 IEC 61051-2-2	VDE 40053795
Alt.	Guizhou Kaili Economic Development Zone Zhonghao Electronics Co., LTD	WLR- 14D621KH	620V	IEC 61051-1 IEC 61051-2-2	VDE 40050367
Alt.	Shenzhen Chenju Electronic Technology Co.,Ltd	CNJU 14D621K	620V	IEC 61051-1 IEC 61051-2-2	VDE 40034186
Alt.	Fujian Qiaoguang Electronic Technology Co.,Ltd	FTR14D621K	620V	IEC 61051-1 IEC 61051-2-2	VDE 40051843
Alt.	Haohua Electronic Co.	HVR14K621 HVR14K621T	620V	IEC 61051-1 IEC 61051-2-2	VDE 40031718
Alt.	Chengdu Tieda Electronic Co., Ltd	MYN15-681K	680V	IEC 61051-1 IEC 61051-2-2	VDE4000857 1

Alt.	Chengdu Tieda Electronic Co., Ltd	MYN15-681KM	680V	IEC 61051-1 IEC 61051-2-2	VDE4004559 7
Alt.	Ceramate Techn. Co.,Ltd.	GNR14D681K	680V	IEC 61051-1 IEC 61051-2-2	VDE 5938
Alt.	Fenghua Adv. Tech.(Holding) Co.,Ltd.	FNR-14K681	680V	IEC 61051-1 IEC 61051-2-2	VDE 40008242
Alt.	Guizhou Kaili Economic Development Zone Zhonghao Electronics Co., LTD	WLR-14D681KH	680V	IEC 61051-1 IEC 61051-2-2	VDE 40050367
Alt.	GUANGXI NEW FUTURE INFORMATION INDUSTRY CO.,LTD	14D681KMS	680V	IEC 61051-1 IEC 61051-2-2	VDE 40053795
Alt.	Shenzhen Chenju Electronic Technology Co.,Ltd	CNJU 14D681K	680V	IEC 61051-1 IEC 61051-2-2	VDE 40034186
Alt.	Fujian Qiaoguang Electronic Technology Co.,Ltd	FTR14D681K	680V	IEC 61051-1 IEC 61051-2-2	VDE 40051843
Alt.	Haohua Electronic Co.	HVR14K681	680V	IEC 61051-1 IEC 61051-2-2	VDE 40031718
For indoor unit BRAC-FM-IACA-9-R3-I, BRAC-FM-IACA-12-R3-I, BRAC-FM-IACA-18-R3-I, BRAC-FM-IACA-24-R3-I					
Indoor fan motor	CHANGZHOU SINJUN MOTOR CO., LTD.	YDK-30W-6 (DA26)	220-240 V, 50 Hz, 30 W, Class(B)	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	CHANGZHOU SINJUN MOTOR CO., LTD.	YDK-30W-6 (DA44)	220-240 V, 50/60 Hz, 30 W, Class(B)	EN 60335-1 EN 60335-2-40	Tested with appliance
Thermal cut-out for indoor fan motors	Jiangsu Changsheng Electric Appliance Co., Ltd.	BR-A BR-A2D BR-A series BR-A2D series	AC 250 V, 130 °C	IEC/EN 60730	VDE 40015893
Alt.	Jiangsu Changsheng Electric Appliance Co., Ltd.	BR-A1D BR series BR-A1D series BR-A2D series BR-A3D series BR-A4D series	AC 250 V, 130 °C	IEC/EN 60730	VDE 132813

Alt.	Jiangsu Changsheng Electric Appliance Co., Ltd.	17AM-D	AC 250 V, 130 °C	IEC/EN 60730	VDE 40016509
Alt.	Changzhou ChanghongTongli Electric Appliance Co., Ltd.	KW-A KW-A2 KW-A series	AC 250 V, 130 °C	IEC/EN 60730	VDE 40020906
Alt.	Sensata Technologies Changzhou Co., Ltd.	8CM series	AC 250 V, 130 °C	IEC/EN 60730	DEKRA 2014531.02
Alt.	Zhejiang Dongyang Hengdian Thermal Protector Factory	KSD- II	AC 250 V, 130 °C	IEC/EN 60730	VDE 139430
Capacitor for indoor fan motor	Guangdong Fengming Electronic Tech. Co., Ltd.	CBB61-P2	2 µF, AC 450 V, 50/60 Hz, T70 or T85, S3	EN 60252-1	TUV 50163114 / TUV 50274996
Alt.	Shengye Electrical Co., Ltd.	C61-P2-32	2 µF, AC 450 V, 50/60 Hz, T85, S3	EN 60252-1	TUV PS B 16 01 73204 021
Alt.	Anhui Tongfeng Electronics Co., Ltd.	CBB61	2 µF, AC 450 V, 50/60 Hz, T85 or T70, S3	EN 60252-1	TUV R 50238482
Alt.	Foshan City Xin Yuan Electronic Co., Ltd	CBB61	2 µF, 450 V, 50/60 Hz, 40/85/21, S3	EN 60252-1	TUV R 50303523
Alt.	Foshan ShunDe Beijiao Hua Da Electric Industrial Co., Ltd.	CBB61	2 µF, 450 V, 50/60 Hz, 40/70/21, S3	EN 60252-1	TUV R 50033889
Alt.	SHUNDE KESHENG ELECTRONIC CO., LTD	CBB61S	2 µF, AC 450 V, 50/60 Hz, S3, 40/85/21	EN 60252-1	TUV R 50276081
Alt.	Ningbo Shine Electrical Co., Ltd	CBB61S	2 µF, 450 VAC 50/60 Hz, 40/70/21, S3	EN 60252-1	TUV 50076953
Step motor	Jiangsu Huayang Electric co., Ltd	24BYJ48	12 VDC	IEC/EN 60335-1 IEC/EN 60335-2-40	Tested with appliance
Alt.	CHANGZHOU OUCK ELECTRIC CO., LTD	24BYJ48	12 VDC	IEC/EN 60335-1 IEC/EN 60335-2-40	Tested with appliance

Alt.	CIXI HUAXIA ELECTRICAL APPLIANCE CO., LTD./HUACHEN G	24BYJ48	12 VDC	IEC/EN 60335-1 IEC/EN 60335-2- 40	Tested with appliance
Alt.	Hefei Huilipu Motor Co., Ltd.	24BYJ48	12 VDC	IEC/EN 60335-1 IEC/EN 60335-2- 40	Tested with appliance
Alt.	Jiangsu Leili Motor Co., Ltd	24BYJ48	12 VDC	IEC/EN 60335-1 IEC/EN 60335-2- 40	Tested with appliance
Alt.	Minzhuo Electric Co., Ltd	24BYJ48	12 VDC	IEC 60335-1 IEC 60335-2-41	Tested with appliance
Drain pump	Shengzhou Huike Auto-Control Component Co., Ltd.	PSB7	AC 220-240, 50/60 Hz, Max.: 10,8/9,6 W	IEC/EN 60335-1 IEC/EN 60335-2- 40	TUV R 50138680
Alt.	Jiangsu Huayang Electric Co., Ltd	PSB-7	AC 220-240 V, 50/60 Hz, Max. 10,8/9,6 W	IEC/EN 60335-1 IEC/EN 60335-2- 40	Tested with appliance
Alt.	ZHEJIANG SANHUA INTELLIGENT CONTROLS CO., LTD.	PSB-7A PSB-7	AC 220-240 V, 50/60 Hz, Max 10,8/9,6 W	IEC/EN 60335-1 IEC/EN 60335-2- 40	CQC 02002001155 Tested with appliance
Alt.	Zhejiang Zhongbao Auto- Control Component Co., Ltd.	PSB7	AC 220-240 V, 50/60 Hz, Max 10,8/9,6 W, Class 120(E)	IEC/EN 60335-1 IEC/EN 60335-2- 40	Tested with appliance
Alt.	UK Melwood Advanced Limited	MP-30700	AC 220-240 V, 50/60 Hz, 6,5 W	IEC/EN 60335-1 IEC/EN 60335-2- 40	TUV R50130353
Alt.	Shanghai Xiyu Refrigerative Equipment Co., Ltd.	PSB-7	AC 220-240, 50/60 Hz, Max.10,8/9,6 W	IEC/EN 60335-1 IEC/EN 60335-2- 40	Tested with appliance
Alt.	xinchang fushi precision technology Co., Ltd	DP-07230	AC 220-240 V, 50/60 Hz, Max 7/6 W, Class 120(E)	IEC/EN 60335-1 IEC/EN 60335-2- 40	Tested with appliance
Alt.	Shengzhou Huike Auto-Control Component Co., Ltd.	PSB12	AC 220-240, 50/60 Hz, Max.12/10,8 W	IEC/EN 60335-1 IEC/EN 60335-2- 40	TUV 50138680

Alt.	ZHEJIANG SANHUA INTELLIGENT CONTROLS CO., LTD.	PSB-12A PSB12	AC 220-240, 50/60 Hz, Max.12/10,8 W	IEC/EN 60335-1 IEC/EN 60335-2-40	CQC 02002001155 Tested with appliance
Alt.	Zhejiang Zhongbao Auto-Control Component Co., Ltd.	PSB12	AC 220-240, 50/60 Hz, Max.12/10,8 W	IEC/EN 60335-1 IEC/EN 60335-2-40	TUV 50134170
Alt.	Zhejiang Zhongbao Auto-Control Component Co., Ltd.	PSB12	AC 220-240, 50/60 Hz, Max.12/10,8 W	IEC/EN 60335-1 IEC/EN 60335-2-40	TUV 50134169
Alt.	Xinchang fushi precision technology Co., Ltd.	DP-12230	AC 220-240, 50/60 Hz, Max. 9,6/9,8 W	IEC/EN 60335-1 IEC/EN 60335-2-40	CQC 10008047809 Tested with appliance
Alt.	UK Melwood Advanced Limited	MP-30700-B	AC 220-240 V, 50/60 Hz, 12W	IEC/EN 60335-1 IEC/EN 60335-2-40	TUV 50130353
Alt.	CHANGZHOU OUCK ELECTRIC CO., LTD	PSB-12-4 PSB-12-5 PSB-12-6	AC220-240 V, 50/60 Hz, 12 W	IEC/EN 60335-1 IEC/EN 60335-2-40	Tested with appliance
Terminal block	YUEQING HUACHEN ELECTRICAL EQUIPMENT CO., LTD.	JXO series JXO-B Series	600 V, 4 mm ² or 6 mm ²	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	Changzhou Desheng Electric Co., Ltd.	JXO series	600 V, 4 mm ²	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	CHANGZHOU KAIDU ELECTRICAL CO., LTD.	JX series JX*_** series	600 V, 4 mm ² or 600 V, 6 mm ²	IEC/EN 60335-2-40 IEC/EN 60335-1	VDE 40042595
Alt.	Zhenjiang Honglian Electrician Co., Ltd.	JXO44	600 V, 4 mm ²	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	Nantong Huaguan Electric Co., Ltd	JXW Series	600 V, 4 mm ²	EN 60998-1 EN 60998-2-1	VDE 40013197
Alt.	Zhenjiang Honglian Electrician Co., Ltd.	JXO series	600 V, 4 mm ²	IEC/EN 60335-2-40 IEC/EN 60335-1	Tested with appliance

Safety isolating transformer only for 09,12,18 series	Dongguan Dazhong Electronic Co., Ltd.	TDB-8-B(PTC)	AC 220 V, 50/60 Hz, Output: 11,5 VAC/800 mA, Class 130 (B)	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	Zhejiang Honglian Electrician Co., Ltd.	TDB-8-B(PTC)	AC 220 V, 50 Hz, 11,5 VAC/800 mA, Class 130 (B)	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	WUHU ZHANLIANG ELECTRON CO., LTD	TDB-8-B TDB-8-B-PTC	AC 220-240 V, 50 Hz; 208-230 V, 60 Hz; AC 11,5 V, 450 mA	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	JINMEIJIA ELECTRONIC (SHENZHEN) CO., LTD	TDB-8-B	AC 220-240 V, 50 Hz, 208-230 V, 60 Hz; AC 11,5 V, 450 mA	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	SHENZHEN JINGQUANHUA ELECTRONICS CO., LTD	TDB-8-B TDB-8-B-PTC	AC 220-240 V, 50 Hz; 208-230 V, 60 Hz; AC 11,5 V, 450 mA	EN 60335-1 EN 60335-2-40	Tested with appliance
-PTC thermistor for transformer	Dandong Guotong Electronic Components Co., Ltd.	MZ62-200M MZ62-500M MZ62-300M	AC 270 V, Max. 2 A, Non-tripping: 0,11 A, Tripping: 0,22 A	IEC 60738-1 IEC 60738-1-1	TUV SUD B 17 07 67733 002
-Alt.	Shenzhen AMPRON Sensitive Components Co., Ltd.	MZ11-07N35RH265 MZ11-07N35RH265(08) MZ11-07N50RH265 MZ11-08P45RH265 MZ11-08N25RH265 MZ11-10N18RH265 MZ11-10N12RH250 MZ11-10P15RH265 MZ11-10N12RH265	AC 265, 2 A, T105	IEC 60738-1 IEC 60738-1-1	TUV R 50187698
Alt.	Dandong Guotong Electronic Components Co., Ltd.	MZ62-600M	AC 270 V, Max. 2 A, Non-tripping: 0,11 A, Tripping: 0,22 A	IEC/EN 60738-1 IEC/EN 60738-1-1	TUV B 080967733 001

Thermal link for transformer	Aupo Electronics Ltd.	A5-F	AC 250 V, 2 A, 135°C	IEC 60691	VDE 40008720
Alt.	Xiamen Set Electronics Co., Ltd.	K5	AC 250 V, 2 A, 135°C	IEC 60691	VDE 40017055
Enclosure	Ningbo AUX Air Conditioner Co., Ltd.	ABS	Min. thickness: 2,0 mm	EN 60335-1 EN 60335-2-40	Tested with appliance
For indoor unit BRAC-FM-IADU-9-R3-I					
Indoor fan motor	ZHUHAI KAIBANG MOTOR MANUFACTURING CO., LTD.	ZWS40-I	DC 310 V, 40 W, Class 120 (E)	IEC/EN 60335-1 IEC/EN 60335-2-40	Tested with appliance
Alt.	JEAMO MOTOR CO., LTD	YMAP040AL01 N3	DC 310 V, 40 W, Class 130 (B)	IEC/EN 60335-1 IEC/EN 60335-2-40	Tested with appliance
Alt.	wolong electric group co., ltd	ZWB178D91A	DC 310 V, 40 W, Class 120 (E)	EN 60335-1 EN 60335-2-40	Tested with appliance
Drain pump (optional)	Shengzhou Huike Auto-Control Component Co., Ltd.	PSB12	AC 220-240, 50/60 Hz, Max. 12/10,8 W	IEC/EN 60335-1	TUV R 50138680
Alt.	ZHEJIANG SANHUA INTELLIGENT CONTROLS CO., LTD.	PSB-12A PSB12	AC 220-240, 50/60 Hz, Max.12/10,8 W	IEC/EN 60335-1 IEC/EN 60335-2-40	CQC 02002001155 Tested with appliance
Alt.	Zhejiang Zhongbao Auto-Control Component Co., Ltd.	PSB12	AC 220-240, 50/60 Hz, Max.12/10,8 W	IEC/EN 60335-1 IEC/EN 60335-2-40	TUV 50134170
Alt.	Zhejiang Zhongbao Auto-Control Component Co., Ltd.	PSB12	AC 220-240, 50/60 Hz, Max.12/10,8 W	IEC/EN 60335-1 IEC/EN 60335-2-40	TUV 50134169
Alt.	Xinchang fushi precision technology Co., Ltd.	DP-12230	AC 220-240, 50/60 Hz, Max.9,6/9,8 W	IEC/EN 60335-1 IEC/EN 60335-2-40	CQC 10008047809 Tested with appliance
Alt.	UK Melwood Advanced Limited	MP-30700-B	AC 220-240 V, 50/60 Hz, 12 W	IEC/EN 60335-1 IEC/EN 60335-2-40	TUV 50130353
Alt.	CHANGZHOU OUCK ELECTRIC CO., LTD	PSB-12-4 PSB-12-5 PSB-12-6	AC 220-240 V, 50/60Hz, 12W	IEC/EN 60335-1 IEC/EN 60335-2-40	Tested with appliance

Reactor	Qing Dao Yun Lu Energy Technology Co., Ltd	DK02-8D5-50	2 A, 8,5mH	IEC/EN 60335-1 IEC/EN 60335-2-40	Tested with appliance
Indoor Unit PCB for BRAC-FM-IACA-9-R3-I, BRAC-FM-IACA-12-R3-I, BRAC-FM-IACA-18-R3-I, BRAC-FM-IACA-24-R3-I, BRAC-FM-IAFC-9-R3-I, BRAC-FM-IAFC-12-R3-I, BRAC-FM-IAFC-18-R3-I, BRAC-FM-IADU-9-R3-I					
X2 Capacitor	Dain Electronics Co., Ltd.	MPX	275 VAC, 0,01 μ F, 0,1 μ F, 0,22 μ F, 0,47 μ F, 2,2 μ F, 1,0 μ F, 40/110/21/C	IEC/EN 60384-14	VDE 40018798
Alt.	Ultra Tech Xiphi Enterprise Co., Ltd.	HQX	275 VAC, 0,01 μ F, 0,1 μ F, 0,22 μ F, 0,47 μ F, 2,2 μ F, 1,0 μ F, 40/100/21/C	IEC/EN 60384-14	VDE 40015608
Alt.	Tenta Electric Industrial Co., Ltd.	MEX	275 VAC, 0,01 μ F, 0,1 μ F, 0,22 μ F, 0,47 μ F, 2,2 μ F, 1,0 μ F, 40/100/21/C	IEC/EN 60384-14	VDE 119119
Alt.	XIAMEN FARATRONIC CO., LTD.	MKP62	275 VAC, 0,01 μ F, 0,1 μ F, 0,22 μ F, 0,47 μ F, 2,2 μ F, 1,0 μ F, 40/110/56/B	IEC/EN 60384-14	VDE 40000358
Alt.	Shantou High-New Technology Dev. Zone Songtian Enterprise Co., Ltd.	MPX	275 VAC, 0,01 μ F, 0,1 μ F, 0,22 μ F, 0,47 μ F, 2,2 μ F, 1,0 μ F, 40/110/56/C	IEC/EN 60384-14	VDE 40034679
Alt.	Ningbo Jiangbei Zhenhua Electronic Co., Ltd.	CBB62	0,01 μ F, 0,1 μ F, 0,22 μ F, 0,47 μ F, 2,2 μ F, 1,0 μ F, AC 275V, X2, T85 or T100	IEC/EN 60384-14	VDE 40006458
Alt.	Anhui Xinyang Electronics Co., Ltd.	MPX	275 VAC, 0,01 μ F, 0,1 μ F, 0,22 μ F, 0,47 μ F, 2,2 μ F, 1,0 μ F, X2	IEC/EN 60384-14	VDE 40024537
Alt.	Guangdong Fengming Electronic Tech. Co., Ltd	MKP-X2	0,01 μ F, 0,1 μ F, 0,22 μ F, 0,47 μ F, 2,2 μ F, 1,0 μ F, AC275V, X2, T85/T105/T110	IEC/EN 60384-14	VDE 40025702
Alt.	Foshan City Nanhai District Xinyuan Electronic Co., Ltd	MKP-X2	0,1-10 μ F, AC 275 V, X2, T105	IEC/EN 60384-14	VDE 40027433

Alt.	CHANGZHOU JIAGUAN ELECTRONICS CO., LTD	MKP	0,01 μ F, 0,1 μ F, 0,22 μ F, 0,47 μ F, 2,2 μ F, 1,0 μ F, AC 275/300 V, T110	IEC/EN 60384-14	VDE 40037250
Alt	CHANGZHOU JIAGUAN ELECTRONICS CO., LTD	MKP	0,01 μ F, 0,1 μ F, 0,22 μ F, 0,47 μ F, 2,2 μ F, 1,0 μ F, AC 275/300V, 40/110/56	IEC/EN 60384-14	VDE 40052871
Fuse	Sun Electric Co.	5H	AC 250 V, 3,15 A, T	EN 60127-2 EN 60127-1	TUV J 50220933
Alt.	Sun Electric Co. O/B Heroday Ltd.	5B	AC 250 V, 3,15 A, T,L	EN 60127-2 EN 60127-1	VDE 40011342
Alt.	Hollyland Company Limited	50CT	AC 250 V, 3,15 A, T,H	EN 60127-2 EN 60127-1	VDE 40014896
Alt.	Hollyland Company Limited	50T	AC 250 V, 3,15 A, T,L	EN 60127-2 EN 60127-1	VDE 40014460
Alt.	Walter Electronic Co., Ltd.	TSC	AC 250 V, 3,15 A, T,H	EN 60127-2 EN 60127-1	VDE 40016670
Alt.	XC Electronics (shen zhen)Corp,Ltd.	5H	AC 250 V, 3,15 A,T	EN 60127-2 EN 60127-1	VDE 40037020
Alt.	Sun Electric Co.	5H	AC 250 V, 5 A, T	EN 60127-2 EN 60127-1	TUV J 50220933
Alt.	Sun Electric Co. O/B Heroday Ltd.	5B	AC 250 V, 5 A, T	EN 60127-2 EN 60127-1	VDE 40011342
Alt.	Hollyland Company Limited	50CT	AC 250 V, 5 A, T	EN 60127-2 EN 60127-1	VDE 40014896
Alt.	Hollyland Company Limited	50T	AC 250 V, 5 A, T	EN 60127-2 EN 60127-1	VDE 40014460
Alt.	Walter Electronic Co.,Ltd.	TSC	AC 250 V, 5 A, T	EN 60127-2 EN 60127-1	VDE 40016670
Alt.	XC Electronics (shen zhen)Corp,Ltd.	5H	AC 250 V, 5 A, T	EN 60127-2 EN 60127-1	VDE 40037020
Optocoupler	Sharp Corporation Electronic	PC817	\geq 6,4 mm, 9000 V, 55/100/21	IEC/EN 60747-5- 5	VDE 40008087
Alt.	Lite-On Technology Corporation	MOC3021 MOC3022 MOC3023	\geq 7,0 mm, 6000 V, 25/110/21	IEC/EN 60747-5- 5	VDE 40015248
Alt.	Toshiba Corporation	TLP185	\geq 5 mm, 6000 V, 30/110/21	IEC/EN 60747-5- 5	VDE 40009347
Alt.	Toshiba Corporation	TLP785	\geq 7,0 mm, 8000 V, 55/115/21	IEC/EN 60747-5- 5	VDE 40031808

Alt.	VISHAY SEMICONDUCT GmbH	VOM617A	≥ 5 mm, 6000 V, 55/110/21	IEC/EN 60747-5-5	VDE 40034600
Alt.	LITEON Technology Corporation	LTV-356T	≥ 5 mm, 6000 V, 55/110/21	IEC/EN 60747-5-5	VDE 138213
Alt.	Fairchild Semiconductor Pte Ltd	FODM121	≥ 5 mm, 6000 V, 55/110/21	IEC/EN 60747-5-5	VDE 40019875
Alt.	Toshiba Corporation Semiconductor & Storage Products Company	TLP109	≥ 5 mm, 6000 V, 55/125/21	IEC/EN 60747-5-5	VDE 40009347
Alt.	EVERLIGHT ELECTRONICS CO., LTD.	EL816	≥ 7,6 mm, 6000 V, 55/110/21	IEC/EN 60747-5-5	VDE 132249
Alt.	EVERLIGHT ELECTRONICS CO., LTD.	EL357N	≥ 5 mm, 6000 V, 55/110/21	IEC/EN 60747-5-5	VDE 132249
Alt.	Lite-On Technology Corporation	MOC3021 MOC3022 MOC3023	≥ 7,0 mm, 8000 V, 25/110/21	IEC/EN 60747-5-5	VDE 40015248
Alt.	SHENZHEN ORIENT COMPONENTS CO., LTD	OR-357C	≥ 5,0 mm, 5000 V, 55/115/21	IEC/EN 60747-5-5	VDE 40029733
Relay1	Dongguan Churod Electronics Co., Ltd.	A1-S-112DA A1-V-112DA	250 VAC, 5 A, T85, 10E4	IEC/EN 61810-1 IEC/EN 60079-15	TUV R 50174892 CNEx19.2486 U
Alt.	Zhejiang Meishuo Electric Technology Co., LTD	MPD-S-112-A	250 VAC, 5A, 12 VDC, T105orT70, 10E4	IEC/EN 61810-1 IEC/EN 60079-15	TUV R 50184948 AK 50396767 0002
Alt.	XIAMEN HONGFA ELECTOACOUSTIC CO., LTD	JZC-32F series	250 VAC, 5 A, T85, 10E4	IEC/EN 61810-1 IEC/EN 60079-15	VDE 40012204 CNEx20.5150 U
Alt.	Xiamen Hongfa Electroacoustic Co., Ltd	HF46F series	250 VAC, 5 A, T85, 10E4	IEC/EN 61810-1 IEC/EN 60079-15	VDE 40025215 DE/TPS/ExT R19.0032/00
Alt.	Zhejiang Meishuo Electric Technology Co., LTD	MPR-S-112-A	250 VAC, 5 A, T85orT70, 10E4	IEC/EN 61810-1 IEC/EN 60079-15	TUV R 50217035 AK 50396773 0002

Alt.	Sanyou Corporation Limited	SJ-SH-112DM2	250V AC, 5 A, T85, 10E4	IEC/EN 61810-1 IEC/EN 60079-15	TUV R 50142420
Alt.	Dongguan Churod Electronics Co., Ltd.	CHM-S-112DA3	250 VAC, 5 A, T90, 10E4	IEC/EN 61810-1 IEC/EN 60079-15	TUV R 50196152 CNEx20.0688 U
Alt.	Ningbo Zettler Electronics Co., Ltd.	JT32F012-HS	250 VAC, 5 A, T85, 10E4	IEC/EN 61810-1 IEC/EN 60079-15	TUV R 50265552 VDE 40049146 CNEx21.1491 U
Alt.	DongGuan Churod Electronics Co., Ltd.	CHM-S-112DA3	250 VAC, 5 A, 12 VDC, T85, 10E4	IEC/EN 61810-1 IEC/EN 60079-15	TUV R 50196152 CNEx20.0688 U
Varistor	Brightking(Shenzhen) CO.,LTD.	561KD14	560 V	IEC 61051-1 IEC 61051-2-2	VDE 40027827
Alt.	Brightking Inc.	561KD14	560 V	IEC 61051-1 IEC 61051-2-2	VDE 40022070
Alt.	Chengdu Tieda Electronic Co., Ltd	MYN15-561K	560 V	IEC 61051-1 IEC 61051-2-2	VDE 40008571
Alt.	Ceramate Techn. Co., Ltd.	GNR14D561K	560 V	IEC 61051-1 IEC 61051-2-2	VDE 005938
Alt.	Fenghua Adv. Tech.(Holding) Co.,Ltd.	FNR-14K561	560 V	IEC 61051-1 IEC 61051-2-2	VDE 40008242
Alt.	Chengdu Tieda Electronic Co., Ltd	MYN15-621K	620 V	IEC 61051-1 IEC 61051-2-2	VDE 40008571
Alt.	Chengdu Tieda Electronic Co., Ltd	MYN15-621KM	620 V, 385 V r.m.s	IEC 61051-1 IEC 61051-2-2	VDE 40045597
Alt.	Ceramate Techn. Co., Ltd.	GNR14D621K	620 V	IEC 61051-1 IEC 61051-2-2	VDE 005938
Alt.	Fenghua Adv. Tech. (Holding) Co., Ltd.	FNR-14K621	620 V	IEC 61051-1 IEC 61051-2-2	VDE 40008242
Alt.	GUANGXI NEW FUTURE INFORMATION INDUSTRY CO., LTD	14D621K	620 V	IEC 61051-1 IEC 61051-2-2	VDE 40030322
Alt.	Chengdu Tieda Electronic Co., Ltd	MYN15-681K	680 V	IEC 61051-1 IEC 61051-2-2	VDE 40008571

Alt.	Chengdu Tieda Electronic Co., Ltd	MYN15-681KM	680 V, 420 V r.m.s	IEC 61051-1 IEC 61051-2-2	VDE 40045597
Alt.	Ceramate Techn. Co., Ltd.	GNR14D681K	680 V	IEC 61051-1 IEC 61051-2-2	VDE 005938
Alt.	Fenghua Adv. Tech. (Holding) Co., Ltd.	FNR-14K681	680 V	IEC 61051-1 IEC 61051-2-2	VDE 40008242
Alt.	Chengdu Tieda Electronic Co., Ltd	MYN15-331K	330 V	IEC 61051-1 IEC 61051-2-2	VDE 40008571
Alt.	Ceramate Techn. Co., Ltd.	GNR14D331K	330 V	IEC 61051-1 IEC 61051-2-2	VDE 005938
Alt.	Fenghua Adv. Tech. (Holding) Co., Ltd.	FNR-14K331	330 V	IEC 61051-1 IEC 61051-2-2	VDE 40008242
Alt.	GUANGXI NEW FUTURE INFORMATION INDUSTRY CO., LTD	14D621KMS	620 V	IEC 61051-1 IEC 61051-2-2	VDE 40053795
Switch transformer	Dongguan City Dazhong Electronic Co., Ltd.	CE-625-HB	DC 200-380 V, 120 kHz; DC 12V, 800 mA, Class 120(E)	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	Dandong Zhongding Electron Co., Ltd.	CE-625-HB	DC 200-380 V, 120 kHz; DC 12 V, 800 mA, Class 120(E)	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	Shenzhen Yamaxi Electronics Co., Ltd.	CE-625-HB	DC 200-380 V, 120 kHz; DC 12 V, 800 mA, Class 120(E)	EN 60335-1 EN 60335-2-40	Tested with appliance
Indoor Unit PCB for BRAC-FM-IACO-9-R3-I, BRAC-FM-IACO-12-R3-I, BRAC-FM-IACO-18-R3-I					
Transformer	Wuhan Chengyang Electronic Core New-Tech Co., Ltd	ECO20	ECO20(5+5)3/P 5-(5+12)V-A1	IEC/EN 60335-1 IEC/EN 60335-2-40	Tested with appliance
Alt.	Guangzhou Shiyuan Electronic Technology Company Limited	SYEE16-T012F	165-264 VAC 50/60 Hz 12 V,0,447 A 18 V,0,0057 A	IEC 60335-1	Tested within appliance
X2 Capacitor	Ningbo Jiangbei Zhenhua Electronic Co, Ltd	CBB62	275 V, 0,1 µF, 0,22 µF, 0,47 µF, 2,2 µF, 1,0 µF, X2, T85/T100	IEC/EN 60384-14	VDE 40006458

Alt.	Guangdong Fengming Electronic Tech. Co., Ltd	MKP-X2	0,1 µF, 0,22 µF, 0,47 µF, 2,2 µF, 1,0 µF, 275 V, X2, T85/T105/T110	IEC/EN 60384-14	VDE 40025702
Alt.	Foshan City Xinyuan Electronic Co., Ltd	MKP-X2	0,1 µF, 0,22 µF, 0,47 µF, 2,2 µF, 1,0 µF, 275 V, T105	IEC/EN 60384-14	VDE 40027433
Alt	CHANGZHOU JIAGUAN ELECTRONICS CO., LTD	MKP	0,1 µF, 0,22 µF, 0,47 µF, 2,2 µF, 1,0 µF, AC 275/300 V, 40/110/21	IEC/EN 60384-14	VDE 40037250
Alt	CHANGZHOU JIAGUAN ELECTRONICS CO., LTD	MKP	0,1 µF, 0,22 µF, 0,47 µF, 2,2 µF, 1,0 µF, AC 275/300 V, 40/110/56	IEC/EN 60384-14	VDE 40052871
Alt	Carli Electronics Co., Ltd.	MPX	0,33 uF, 275 Va.c., 100°C	IEC 60384-14	VDE 40008520
Alt	Shenzhen Jinghao Capacitor Co., Ltd.	CBB62B	0,33 uF, 280 Va.c., 110 °C	IEC 60384-14	VDE 40018690
Alt	Europtronic (Taiwan) Industrial Corp (UL) Europtronic (SuZhou) Co. Ltd. (VDE)	MPX2	0,33 uF, 305 Va.c., 110 °C	IEC 60384-14	VDE 40025981
Alt	Guangdong Fengming Electronic Tech Co., Ltd.	MKP-X2	0,33 uF, 275/305/310 Va.c., 105 °C /110 °C	IEC 60384-14	VDE 40025702
Alt	Xiamen Faratronic Co. Ltd.	MKP62	0,33 uF, 305 Va.c., 110°C	IEC 60384-14	VDE 40000358
Alt	ZhuHai Sung Ho Electronics Co. Ltd.	CMPP series	0,33 uF, 275/310 Va.c., 105 °C or 110 °C	IEC 60384-14	ENEC ENEC-02976-A1
Alt	Shantou High-New Technology Dev. Zone Songtian Enterprise Co., Ltd.	MPX	0,33 uF, 275/305/310 Va.c., 110 °C	IEC60384-14	VDE 40034679

Alt	NANJING TENGEN RONG GUANG DA ELECTRONIC SALES CO., LTD.	MKP	0,33 uF, 27 /280/300/305/3 10 Va.c.,110 °C	IEC 60384-14	VDE 40049725
Alt	KEMET ELECTRONICS ITALIA SRL(UL) KEMET Electronics Corporation (ENEC)	R.46	0,33 uF,2 75 Va.c. / 300 Va.c. / 310 Va.c., 110 °C	IEC 60384-14	ENEC DAT9700014 1
Alt	Nistronics (Jiangxi) Co., Ltd.	MER	0,33 uF, 310 Va.c., 105 °C	IEC 60384-14 EN 60384-14	VDE 40047423
Alt	Sichuan Zhongxing Electr. Co. Ltd.	MKP61	0,33 uF, 275 VAC, 110 °C	EN 60384-14 IEC 60384-14	VDE 40032626
Alt	Nistronics (Jiangxi) Co., Ltd.	MPR	0,33 uF,310 Va.c. / 275 Va.c., 100 °C or 110 °C	EN 60384-14 IEC 60384-14	VDE 40032056
Y2 Capacitor	Nanjing Yuyue Electronic Co., Ltd.	CT7	AC 250 V, T125, 1nF; 4,7 nF; 2.2nF; 0,47 nF	IEC/EN 60384-14	VDE 40008013
Alt.	Kunshan Wansheng Electronic Co., Ltd	CT7	AC 250 V, T125,1 nF; 4,7 nF ;2,2 nF;0,47 nF	EN 60384-14	VDE 40017735
Alt.	TDK Corporation	CD	2200 pF, 250 Va.c., 125 °C	IEC 60384-14	VDE 40029780
Alt.	TDK Corporation	CD	2200 pF, 400 Va.c., 125 °C	IEC 60384-14	VDE 40017931
Alt.	Yinan Don's Electronic Component Co., Ltd.	CT81	2200 pF,250 Va.c. or 400 Va.c., 125 °C	IEC 60384-14	VDE 135256
Alt.	Walsin Technology Corp	AH	2200pF, 400 Va.c., 125°C	IEC 60384-14	VDE 40001804
Alt.	TDK CORPORATION	CD series	2200 pF, 400 Va.c., 125°C	IEC 60384-14	ENEC ENEC-01048- A3
Alt.	Murata Mfg. Co., Ltd.	KX	2200 pF, 250/300 Va.c., 125 °C	IEC 60384-14	VDE 40002831
Alt.	Kunshan Wansheng Electronics Co., Ltd	CT7	2200 pF, AC 500/400/300/25 0 V, 125 °C	IEC60384-14	VDE 40012143

Alt.	Guangdong South Hongming Electronic Science and Technology Co., Ltd.	F	2200 pF, 250 Va.c. or 400 Va.c., 125 °C	IEC60384-14	VDE 40036393
Alt.	Guangdong South Hongming Electronic Science and Technology Co., Ltd.	F(SMD)	2200 pF, 250 Va.c. or 400 Va.c., 125 °C	IEC60384-14	VDE 40036246
Alt.	Sichuan Teruixiang Electronics Co Ltd	TRX series	2200 pF, 250 Va.c. or 400 Va.c., 125 °C	IEC60384-14	ENEC-02084
Alt.	JYH HSU (JEC) ELECTRONICS LTD	JD	2200 pF, 400 VAC, 125°C	IEC/EN 60384-14, IEC 60384-14	VDE 40038642
Alt.	SICHUAN TERUIXIANG TECHNOLOGY INTERNATIONAL CO LTD (UL) Shenzhen Teruixiang Electronic Co, Ltd. (VDE)	TY-Series	2200 pF, 500 Va.c. or 400 Va.c., 125 °C	IEC 60384-14	VDE 40031733
Alt.	SHANTOU HIGH-NEW TECHNOLOGY DEVELOPMNT ZONE SONGTIAN ENTERPRISE CO LTD	CD-Series	2200 pF, AC 250 V; AC 400 V, 125 °C	IEC60384-14	VDE 40025754
Varistor	Brightking(Shenzhen) CO., LTD.	561KD14	560 V	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 40027827
Alt.	Brightking Inc.	561KD14	560 V	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 40022070
Alt.	Chengdu Tieda Electronic Co., Ltd	MYN15-561K	560 V	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 40008571
Alt.	Ceramate Techn. Co., Ltd.	GNR14D561K	560 V	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 005938
Alt.	Fenghua Adv. Tech. (Holding) Co., Ltd.	FNR-14K561	560 V	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 40008242

Alt.	Chengdu Tieda Electronic Co., Ltd	MYN15-621K	620 V	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 40008571
Alt.	Chengdu Tieda Electronic Co., Ltd	MYN15-621KM	620 V, 385 V r.m.s	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 40045597
Alt.	Ceramate Techn. Co., Ltd.	GNR14D621K	620 V	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 005938
Alt.	Fenghua Adv. Tech. (Holding) Co., Ltd.	FNR-14K621	620 V	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 40008242
Alt.	GUANGXI NEW FUTURE INFORMATION INDUSTRY CO., LTD	14D621K	620 V	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 40030322
Alt.	Chengdu Tieda Electronic Co., Ltd	MYN15-681K	680 V	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 40008571
Alt.	Chengdu Tieda Electronic Co., Ltd	MYN15-681KM	680 V, 420 V r.m.s	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 40045597
Alt.	Ceramate Techn. Co., Ltd.	GNR14D681K	680 V	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 005938
Alt.	Fenghua Adv. Tech. (Holding) Co., Ltd.	FNR-14K681	680 V	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 40008242
Alt.	Chengdu Tieda Electronic Co., Ltd	MYN15-331K	330 V	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 40008571
Alt.	Ceramate Techn. Co., Ltd.	GNR14D331K	330 V	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 005938
Alt.	Fenghua Adv. Tech. (Holding) Co., Ltd.	FNR-14K331	330 V	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 40008242
Alt.	GUANGXI NEW FUTURE INFORMATION INDUSTRY CO., LTD	14D621KMS	620 V	IEC 61051-1 IEC 61051-2-2	VDE 40053795
Alt.	Thinking Electronic Industrial Co., Ltd.	TVR14681	680 V	IEC 61051	VDE 005944

Alt.	Thinking Electronic Industrial Co., Ltd.	TVR14681-D	680 V	IEC 61051	VDE 40021243
Alt.	TDK (ZHUHAI FTZ) CO., LTD. (UL) TDK Electronics GmbH & Co OG (VDE)	S14K420	680 V	IEC 61051	VDE 40027582
Alt.	Centra Science Corp	CNR-14D681K	680 V	IEC 61051	VDE 40008220
Alt.	GUANGDONG FENGHUA ADVANCED TECHNOLOGY HOLDING CO LTD. XIANHUA NEW SENSITIVE COMPONENTS BRANCH (UL) Fenghua Adv. Tech. (Holding) Co., Ltd. (VDE)	FNR-14K681	680 V	IEC 61051	VDE 40008242
Alt.	DONGGUAN JOYIN ELECTRONICS CO., LTD.	14N681K	680 V	IEC/EN 61051	VDE 005937
Opto-coupler	EVERLIGHT ELETCRONICS CO., LTD	EL817	VCEO 35 V Viso, 5000 V rms	IEC/EN 60384-14	VDE 132249
Alt.	Toshiba Electronic Devices & Storage Corporation	TLP185	VECO 7 V Viso 3750 Vrms	IEC/EN 60384-14	VDE 40009347
Alt.	Lite-On Technology Corp (UL) Lite-On Technology Corporation (VDE)	LTV-817	Di ≥ 0,4 mm, Ex ≥ 7,0 mm	EN 60747-5-5	VDE 40015248
Alt.	Everlight Electronics Co., Ltd.	EL817	Di ≥ 0,4 mm, Ex ≥ 7,6 mm	EN 60747-5-5	VDE 132249
Alt.	COSMO Electronics Corporation (VDE) Cosmo Electronics Corp (UL)	K1010	Di ≥ 0,4 mm, Ex ≥ 6,5 mm	EN 60747-5-5	VDE 101347

Alt.	CT Micro International Corporation (VDE) CT MICROELECTRONICS FAR EAST LTD (UL)	CT817	Di ≥ 0,4 mm, Ex ≥ 7,0 mm	EN 60747-5-5 UL1577	VDE 40039590
Alt.	Shenzhen Orient Components Co. Ltd.	ORPC817	Di ≥ 0,4 mm, Ex ≥ 7,0 mm	EN 60747-5-5	VDE 40029733
Alt.	Everlight Electronics Co., Ltd.	EL851 V	Di ≥ 0,4 mm, Ex ≥ 7,6 mm	IEC 60747-5-5	VDE 132249
Fuse	FULLNESS ELECTRICAL CO., LTD	TSP203150-250V3.15A	250 mA - 6,3 A 250 V AC@50A	IEC/EN 60384-14	VDE 40027173
Alt.	Shenzhen Lanson Electronics Co., Ltd.	5N-Series	T5 AH, 250 VAC	IEC 60127-1 IEC 60127-2	VDE 40019482
Alt.	Suzhou Walter Electronic Co. Ltd.	TSC	T5 AH, 250 VAC	IEC 60127-1 IEC 60127-2	VDE 40016670
Alt.	Suzhou Walter Electronic Co. Ltd.	TSC+P	T5 AH, 250 VAC	IEC 60127-1, IEC 60127-2	VDE 40016670
Alt.	Xc Electronics (Shenzhen) Corp. Ltd	5H(UL) 5H-Serie(s)(VDE)	T5 AH, 250 VAC	IEC 60127-1 IEC 60127-2	VDE 40037020
Alt.	Dongguan Better Electronics Technology Co., Ltd.	524	T5 AH, 250 VAC	IEC 60127-1 IEC 60127-2	VDE 40025424
Alt.	HOLLYLAND CO LTD(UL) Hollyland Company Limited(VDE)	50CT	T5 AH, 250 VAC	IEC 60127-1 IEC 60127-2	VDE 40014896
Indoor Unit for BRAC-FM-IACO-9-R3-I, BRAC-FM-IACO-12-R3-I, BRAC-FM-IACO-18-R3-I					
Indoor fan motor	ZHUHAI KAIBANG MOTOR MANUFACTURE CO., LTD	ZWR30-A52	DC 310 V, 30 W 900 r/min, E 8P, IP20	GB/T 12350 IEC/EN 60335-1 IEC/EN 60335-2-40	CQC 20100104013 85512
Step motor	Ningbo Mingsheng Motor Technology Co., LTD	MST24-0096	12 VDC, Class 120(E)	IEC/EN 60335-1 IEC/EN 60335-2-40	CE M.2016.201.Y 1714

Alt.	Ningbo Mingsheng Motor Technology Co., LTD	MST24-0097	12 VDC, Class 120(E)	IEC/EN 60335-1 IEC/EN 60335-2-40	CE M.2016.201.Y 1714
Terminal block	Yueqing Huachen Electrical Appliance Co., Ltd.	JXO-B4-F	600 V, 4,0 mm ²	IEC/EN 60335-1 IEC/EN 60335-2-40	Tested with appliance
Alt.	Changzhou Kaidu Electric Co., Ltd.	JXG-4D	450 V, 2,5 mm ²	IEC/EN 60335-1 IEC/EN 60335-2-40	Tested with appliance
Indoor Unit for BRAC-FM-IADU-12-R3-I, BRAC-FM-IADU-18-R3-I, BRAC-FM-IADU-24-R3-I					
Indoor fan motor for 12/18 series	WOLONG ELECTRIC GROUP CO.,LTD.	ZWB2010L01A L	DC310V, 120W, Class 120 (E)	IEC/EN 60335-1 IEC/EN 60335-2-40	Tested with appliance
Indoor fan motor for 24 series	ZHONGSHAN BROAD-OCEAN MOTOR CO.,LTD.	ZW511B500027	DC310V, 200W, Class 130 (B)	IEC/EN 60335-1 IEC/EN 60335-2-40	Tested with appliance
Terminal block	Nantong Huaguan Electric Co., Ltd	JXW-4-A	450V,4mm ²	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	Zhenjiang Honglian Electrician Co., Ltd.	JX044	600V,4mm ²	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	YUEQING HUACHEN ELECTRICAL EQUIPMENT CO., LTD.	JXO-B Series	600V 4mm ² or 6mm ²	EN 60998-1 EN 60998-2-1	TUV R50311527 TUV R50311529
Alt.	Changzhou Kaidu Electrical Co., Ltd.	JX Series	600V 4mm ² or 6mm ²	EN 60998-1 EN 60998-2-1	VDE 40020936
Alt.	Changzhou Kaidu Electrical Co., Ltd.	JX*_* Series	600V 4mm ² or 6mm ²	EN 60998-1 EN 60998-2-1	VDE 40042595
Alt.	Nantong Huaguan Electric Co., Ltd	JXW Series	600V 4mm ²	EN 60998-1 EN 60998-2-1	VDE 40013197
Alt.	Zhenjiang Honglian Electrician Co., Ltd.	JXO series	600V 4mm ²	IEC/EN 60335-2-40 IEC/EN 60335-1	Tested with appliance
Drain pump (optional)	Shengzhou Huike Auto-Control Component Co., Ltd.	PSB12	AC220-240, 50/60 Hz, Max. 12/10,8 W	IEC/EN 60335-1	TUV R 50138680

Alt.	ZHEJIANG SANHUA INTELLIGENT CONTROLS CO., LTD.	PSB-12A PSB12	AC220-240, 50/60 Hz, Max.12/10,8 W	IEC/EN 60335-1 IEC/EN 60335-2-40	CQC 02002001155 Test with appliance
Alt.	Zhejiang Zhongbao Auto-Control Component Co., Ltd.	PSB12	AC220-240, 50/60 Hz, Max.12/10,8 W	IEC/EN 60335-1 IEC/EN 60335-2-40	TUV 50134170
Alt.	Zhejiang Zhongbao Auto-Control Component Co., Ltd.	PSB12	AC220-240, 50/60 Hz, Max.12/10,8 W	IEC/EN 60335-1 IEC/EN 60335-2-40	TUV 50134169
Alt.	Xinchang fushi precision technology Co., Ltd.	DP-12230	AC220-240, 50/60 Hz, Max.9,6/9,8 W	IEC/EN 60335-1 IEC/EN 60335-2-40	CQC 10008047809 Test with appliance
Alt.	UK Melwood Advanced Limited	MP-30700-B	AC220-240 V, 50/60 Hz, 12 W	IEC/EN 60335-1 IEC/EN 60335-2-40	TUV 50130353
Alt.	CHANGZHOU OUCK ELECTRIC CO., LTD	PSB-12-4 PSB-12-5 PSB-12-6 PSB-12-16	AC220-240V, 50/60Hz, 12W	IEC/EN 60335-1 IEC/EN 60335-2-40	Tested with appliance
Alt.	CHANGZHOU OUKAI ELECTRICAL APPLIANCE CO., LTD	PSB-7-12 PSB-7-13 PSB-7-14 PSB-7-15	220-240VAC, 50/60Hz	IEC/EN 60335-1 IEC/EN 60335-2-40	TUV R 0846460007
Alt.	Shengzhou HuikeAuto-Control Component Co., Ltd.	PSB7	AC220-240 V, 50/60 Hz, Max.10,8/9,6 W	IEC/EN 60335-1 IEC/EN 60335-2-40	TUV 50138680
Alt.	Jiangsu Huayang Electric Co., Ltd	PSB-7	AC 220-240 V, 50/60 Hz, Max. 10,8/9,6 W	IEC/EN 60335-1 IEC/EN 60335-2-40	Tested with appliance
Alt.	ZHEJIANG SANHUA INTELLIGENT CONTROLS CO., LTD.	PSB-7A PSB7	AC 220-240 V, 50/60 Hz, Max 10,8/9,6 W	IEC/EN 60335-1 IEC/EN 60335-2-40	CQC 02002001155 Tested with appliance
Alt.	Zhejiang Zhongbao Auto-Control Component Co., Ltd.	PSB7	AC220-240 V, 50/60 Hz, Max 10,8/9,6 W,Class 120(E)	IEC/EN 60335-1 IEC/EN 60335-2-40	Tested with appliance

Alt.	xinchang fushi precision technology Co., Ltd	DP-07230	AC 220-240 V, 50/60 Hz, Max 7/6 W, Class 120(E)	IEC/EN 60335-1 IEC/EN 60335-2-40	Tested with appliance
Alt.	UK Melwood Advanced Limited	MP-30700	AC220-240V, 50/60Hz, 6,5W	IEC/EN 60335-1 IEC/EN 60335-2-40	TUV 50130353
Alt.	Shanghai Xiyu Refrigerative Equipment Co., Ltd.	PSB-7	AC220-240 V, 50/60Hz, Max.10,8/9,6W	IEC/EN 60335-1 IEC/EN 60335-2-40	Tested with appliance
Reactor	Qing Dao Yun Lu Energy Technology Co., Ltd	DK05-9D4-50	5A, 9.4mH	IEC/EN 60335-1 IEC/EN 60335-2-40	Tested with appliance
Alt.	Zhejiang Zhengliang Electronic Co., Ltd.	DK05-9D4-50	5A, 9.4mH	IEC/EN 60335-1 IEC/EN 60335-2-40	Tested with appliance
Indoor Unit PCB for AUMD-H**/NDR3HM2B (**=12,18,24)					
X2 Capacitor	Dain Electronics Co., Ltd.	MPX	275 VAC, 0,01 μ F, 0,1 μ F, 0,22 μ F, 0,47 μ F, 2,2 μ F, 1,0 μ F, 40/110/21/C	IEC/EN 60384-14	VDE 40018798
Alt.	Ultra Tech Xiphi Enterprise Co., Ltd.	HQX	275 VAC, 0,01 μ F, 0,1 μ F, 0,22 μ F, 0,47 μ F, 2,2 μ F, 1,0 μ F, 40/100/21/C	IEC/EN 60384-14	VDE 40015608
Alt.	Tenta Electric Industrial Co., Ltd.	MEX	275 VAC, 0,01 μ F, 0,1 μ F, 0,22 μ F, 0,47 μ F, 2,2 μ F, 1,0 μ F, 40/100/21/C	IEC/EN 60384-14	VDE 119119
Alt.	XIAMEN FARATRONIC CO., LTD.	MKP62	275 VAC, 0,01 μ F, 0,1 μ F, 0,22 μ F, 0,47 μ F, 2,2 μ F, 1,0 μ F, 40/110/56/B	IEC/EN 60384-14	VDE 40000358
Alt.	Shantou High-New Technology Dev. Zone Songtian Enterprise Co., Ltd.	MPX	275 VAC, 0,01 μ F, 0,1 μ F, 0,22 μ F, 0,47 μ F, 2,2 μ F, 1,0 μ F, 40/110/56/C	IEC/EN 60384-14	VDE 40034679
Alt.	Ningbo Jiangbei Zhenhua Electronic Co., Ltd.	CBB62	0,01 μ F, 0,1 μ F, 0,22 μ F, 0,47 μ F, 2,2 μ F, 1,0 μ F, AC 275V, X2, T85 or T100	IEC/EN 60384-14	VDE 40006458

Alt.	Anhui Xinyang Electronics Co., Ltd.	MPX	275 VAC, 0,01 μ F, 0,1 μ F, 0,22 μ F, 0,47 μ F, 2,2 μ F, 1,0 μ F, X2	IEC/EN 60384-14	VDE 40024537
Alt.	Guangdong Fengming Electronic Tech. Co., Ltd	MKP-X2	0,01 μ F, 0,1 μ F, 0,22 μ F, 0,47 μ F, 2,2 μ F, 1,0 μ F, AC275V, X2, T85/T105/T110	IEC/EN 60384-14	VDE 40025702
Alt.	Foshan City Nanhai District Xinyuan Electronic Co., Ltd	MKP-X2	0,1-10 μ F, AC275V, X2, T105	IEC/EN 60384-14	VDE 40027433
Alt.	CHANGZHOU JIAGUAN ELECTRONICS CO., LTD	MKP	0,01 μ F, 0,1 μ F, 0,22 μ F, 0,47 μ F, 2,2 μ F, 1,0 μ F, AC 275/300 V, T110	IEC/EN 60384-14	VDE 40037250
Alt	CHANGZHOU JIAGUAN ELECTRONICS CO., LTD	MKP	0,01 μ F, 0,1 μ F, 0,22 μ F, 0,47 μ F, 2,2 μ F, 1,0 μ F, AC 275/300V, 40/110/56	IEC/EN 60384-14	VDE 40052871
Alt.	Huizhou City Yuxinyuan Electronics Co., Ltd	MKP-X2	0,1 μ F, 0,22 μ F, 0,47 μ F, 1,0 μ F, 2,2 μ F, AC 275V, X2, 40/105/56, 40/110/56	IEC/EN 60384-14	VDE 40045442
Fuse	Sun Electric Co.	5H	AC250V, 3,15A, T	EN 60127-2 EN 60127-1	TUV J 50220933
Alt.	Sun Electric Co. O/B Heroday Ltd.	5B	AC250V, 3,15A, T,L	EN 60127-2 EN 60127-1	VDE 40011342
Alt.	Hollyland Company Limited	50CT	AC250V, 3,15A, T,H	EN 60127-2 EN 60127-1	VDE 40014896
Alt.	Hollyland Company Limited	50T	AC250V, 3,15A, T,L	EN 60127-2 EN 60127-1	VDE 40014460
Alt.	Walter Electronic Co., Ltd.	TSC	AC250V, 3,15A, T,H	EN 60127-2 EN 60127-1	VDE 40016670
Alt.	XC Electronics(shenzhen)Corp,Ltd.	5H	AC250V, 3.15A, T	EN 60127-2 EN 60127-1	VDE 40037020
Alt.	Sun Electric Co.	5H	AC250V, 5A, T	EN 60127-2 EN 60127-1	TUV J 50220933
Alt.	Sun Electric Co. O/B Heroday Ltd.	5B	AC250V, 5A, T	EN 60127-2 EN 60127-1	VDE 40011342
Alt.	Hollyland Company Limited	50CT	AC250V, 5A, T	EN 60127-2 EN 60127-1	VDE 40014896

Alt.	Hollyland Company Limited	50T	AC250V, 5A, T	EN 60127-2 EN 60127-1	VDE 40014460
Alt.	Walter Electronic Co.,Ltd.	TSC	AC250V, 5A, T	EN 60127-2 EN 60127-1	VDE 40016670
Alt.	XC Electronics(shenzhen)Corp,Ltd.	5H	AC250V,5A,T	EN 60127-2 EN 60127-1	VDE 40037020
Alt.	Dongguan Better Electronics Technology Co., Ltd.	524	AC250V, 3,15A, 5A, T	IEC/EN 60127-2 IEC/EN 60127-1	VDE 40025424
Optocoupler	Sharp Corporation Electronic	PC817	>=6,4mm, 9000V, 55/100/21	IEC/EN 60747-5-5	VDE 40008087
Alt.	Lite-On Technology Corporation	MOC3021 MOC3022 MOC3023	>=7,0mm,6000 V, 25/110/21	IEC/EN 60747-5-5	VDE 40015248
Alt.	Toshiba Corporation	TLP185	>=5mm,6000V, 30/110/21	IEC/EN 60747-5-5	VDE 40009347
Alt.	Toshiba Corporation	TLP785	>=7,0mm, 8000V, 55/115/21	IEC/EN 60747-5-5	VDE 40031808
Alt.	VISHAY SEMICONDUCT GmbH	VOM617A	>=5mm, 6000V, 55/110/21	IEC/EN 60747-5-5	VDE 40034600
Alt.	LITEON Technology Corporation	LTV-356T	>=5mm, 6000V, 55/110/21	IEC/EN 60747-5-5	VDE 138213
Alt.	Fairchild Semiconductor Pte Ltd	FODM121	>=5mm, 6000V, 55/110/21	IEC/EN 60747-5-5	VDE 40019875
Alt.	Toshiba Corporation Semiconductor & Storage Products Company	TLP109	≥5mm,6000V, 55/125/21	IEC/EN 60747-5-5	VDE 40009347
Alt.	EVERLIGHT ELECTRONICS CO., LTD.	EL816	≥7,6mm,6000V, 55/110/21	IEC/EN 60747-5-5	VDE 132249
Alt.	EVERLIGHT ELECTRONICS CO., LTD.	EL357N	≥5mm,6000V,5 5/110/21	IEC/EN 60747-5-5	VDE 132249
Alt.	Lite-On Technology Corporation	MOC3021 MOC3022 MOC3023	>=7,0mm,8000 V, 25/110/21	IEC/EN 60747-5-5	VDE 40015248
Alt.	SHENZHEN ORIENT COMPONENTS CO., LTD	OR-357C	>=5,0mm,5000 V, 55/115/21	IEC/EN 60747-5-5	VDE 40029733

Relay 1	Sanyou Corporation Limited	SJ-S-112DM	250VAC,5A, T85,10E4	IEC/EN 61810-1	VDE 40002146
Alt.	Wangrong Electronics (Shenzhen) Co., Ltd.	RJ-SS-112DM	250VAC,5A, T85,10E4	IEC/EN 61810-1	TUV R 50222701
Alt.	Dongguan Churod Electronics Co., Ltd.	A1-S-112DA A1-V-112DA	250VAC,5A, T85,10E4	IEC/EN 61810-1	TUV R 50174892
Alt.	Tyco Electronics(shenzhen) Co., Ltd.	OJE-SS-112DM	250VAC,5A, T70,10E4	IEC/EN 61810-1	TUV R 50139166
Alt.	Zhejiang Meishuo Electric Technology Co., LTD	MPD-S-112-A	250VAC,5A,12 VDC,T105orT70,10E4	IEC/EN 61810-1	TUV R 50184948
Alt.	XIAMEN HONGFA ELECTOACOUSTIC CO., LTD	JZC-32F series	250VAC 5A, T85,10E4	IEC/EN 61810-1	VDE 40012204
Alt.	Xiamen Hongfa Electroacoustic Co., Ltd	HF46F series	250VAC,5A, T85,10E4	IEC/EN 61810-1	VDE 40025215
Alt.	Sanyou Corporation Limited	SRB-S-112DM2	250VAC, 5A, T85,10E4	IEC/EN 61810-1	TUV R 50138320
Alt.	Wangrong Electronics (Shenzhen) Co., Ltd.	RC-112DM1	250VAC,5A, T85,10E4	IEC/EN 61810-1	TUV R 50249912
Alt.	Zhejiang Meishuo Electric Technology Co., LTD	MPR-S-112-A	250VAC,5A, T85 or T70,10E4	IEC/EN 61810-1	TUV R 50217035
Alt.	Dongguan Churod Electronics Co., Ltd.	CHM-V-112DA3	250VAC,5A, 10E4,T85	IEC/EN 61810-1	TUV R 50196152
Alt.	Tyco Electronics(shenzhen) Co., Ltd.	PCJ-112D3MH	250VAC,5A, T85,10E4	IEC/EN 61810-1	TUV R 50419522
Alt.	Sanyou Corporation Limited	SJ-SH-112DM2	250VAC,5A, T85,10E4	IEC/EN 61810-1 IEC/EN 60079-15	TUV R 50142420
Alt.	Tyco Electronics (Shenzhen) Co., Ltd	OJE-SH-112DM	250VAC,5A, T70,10E4	IEC/EN 61810-1 IEC/EN 60079-15	TUV R 50139166

Alt.	Zhejiang Meishuo Electric Technology Co., LTD	MPR-S-105-A	250VAC,5A, T105,10E4	IEC/EN 61810-1	TUV R 50217035
Alt.	Sanyou Corporation Limited	SRB-S-105DM2	250V AC,5A, T85,10E4	IEC/EN 61810-1	TUV R 50138320
Alt.	Dongguan Churod Electronics Co., Ltd.	CHM-S-112DA3	250V AC,5A, T90,10E4	IEC/EN 61810-1	TUV R 50196152
Alt.	Tyco Electronics(shenzhen) Co., Ltd.	PCJ-105D3MH	250V AC,5A, T85,10E4	IEC/EN 61810-1	TUV R 50419522
Alt.	Dongguan Churod Electronics Co., Ltd.	CHM-V-105DA3	250V AC,5A, T90,10E4	IEC/EN 61810-1	TUV R 50196152
Alt.	Ningbo Zettler Electronics Co., Ltd.	JT32F012-HS	250VAC,5A, T85,10E4	IEC/EN 61810-1	TUV R 50265552 VDE 40049146
Alt.	Shenzhen Yuanze Electric Co.,Ltd.	Y32F-SS-112DM	250VAC,5A,12 VDC,T105, 10E4	IEC/EN 61810-1	TUV R50198475
Alt.	NingBo Zettler Electronics Co., Ltd.	JT32F012-HS	250VAC,5A,12 VDC,T85, 10E4	IEC/EN 61810-1	TUV R 50265552 VDE 40049146
Alt.	Shenzhen Yuanze Electric Co.,Ltd.	Y46F-SH-112DM	250VAC,5A,12 VDC,T105, 10E4	IEC/EN 61810-1	TUV R50510682
Alt.	DongGuan Churod Electronics Co., Ltd.	CHM-S-112DA3	250VAC,5A,12 VDC,T85, 10E4	IEC/EN 61810-1	TUV R 50196152
Alt.	NingBo Zettler Electronics Co., Ltd.	JT46F012-HS1TF	250VAC,5A,12 VDC,T105, 10E4	IEC/EN 61810-1	TUV R 50459402
Alt.	NINGBO TIANBO GANGLIAN ELECTRONICS CO., LTD	TRG1 D-12VDC-S-H	240VAC, 5A	IEC/EN 61810-1	TUV R50108695
Alt.	Sanyou Corporation Limited	SRB-SH-112DM2	AC277V, 5A, 12VDC, T85, 10E4	IEC/EN 61810-1	VDE 40033402
Alt.	NINGBO TIANBO GANGLIAN ELECTRONICS CO., LTD	TRGB L-SS-112DM	250VAC, 5A	IEC/EN 61810-1	TUV R 50223753

Alt.	NingBo Zettler Electronics Co., Ltd.	JT46F012-HS1TF(310)	250VAC, 5A, 12VDC, T105, 100000	IEC/EN 61810-1	TUV R 50459402
Relay 2	Sanyou Corporation Limited	SJ-S-112DM	AC250V,10A,12VDC,T85,10E4	IEC/EN 61810-1	VDE 40002146
Alt.	Xiamen Hongfa Electroacoustic Co.,Ltd	HF32F-G	AC250V,10A,12VDC,T85,10E4	IEC/EN 61810-1	VDE 40012204
Alt.	Wangrong Electronics (Shenzhen) Co., Ltd.	RJ-SS-112DM1	AC250V,10A,12VDC,T85,10E4	IEC/EN 61810-1	TUV R 50222701
Alt.	Dongguan Churod Electronics Co., Ltd.	A1-V-112HA A1-S-112HA	AC250V,10A,12VDC,T85,10E4	IEC/EN 61810-1	TUV R 50174892
Alt.	Tyco Electronics(shenzhen) Co.,Ltd.	OJ-SH-112HM	AC250V,10A,12VDC,T70,10E4	IEC/EN 61810-1	TUV R 50139166
Alt.	Zhejiang Meishuo Electric Technology Co.,LTD	MPD-S-112-A	AC250V,10A,12VDC,T105,10E4	IEC/EN 61810-1	TUV R50184948
Alt.	Sanyou Corporation Limited	SJ-SH-112DMH2	AC250V,10A,12VDC,T85,10E4	IEC/EN 61810-1	TUV R 50142420
Alt.	Wangrong Electronics (Shenzhen) Co., Ltd.	RJ-SS-112DM14-S	AC250V,10A,12VDC,T85,10E4	IEC/EN 61810-1	TUV R 50222701
Alt.	Shenzhen Yuanze Electric Co.,Ltd.	Y32F-SS-112HM	250VAC,10A,12VDC,T105,100000	IEC/EN 61810-1	TUV R 50198475
Alt.	NingBo Zettler Electronics Co., Ltd.	JT32F-G012-HST	250VAC,10A,12VDC,T85,100000	IEC/EN 61810-1	TUV R 50265552
Alt.	NINGBO TIANBO GANGLIAN ELECTRONICS CO.,LTD	TRG1H D-12VDC-S-H	240VAC,10A	IEC/EN 61810-1	TUV R50108695
Alt.	NingBo Zettler Electronics Co., Ltd.	JQC-3FF 12VDC-1ZS(310)	250VAC,10A,12VDC,T85,100000	IEC/EN 61810-1	TUV R 50265555
Alt.	NingBo Zettler Electronics Co., Ltd.	JT32F-G012-HST(310)	250VAC,10A,12VDC,T85,100000	IEC/EN 61810-1 IEC 60079-15	TUV R 50265552
Varistor	Brightking(Shenzhen) CO.,LTD.	561KD14	560V	IEC 61051-1 IEC 61051-2-2	VDE 40027827

Alt.	Brightking Inc.	561KD14	560V	IEC 61051-1 IEC 61051-2-2	VDE 40022070
Alt.	Chengdu Tieda Electronic Co., Ltd	MYN15-561K	560V	IEC 61051-1 IEC 61051-2-2	VDE 40008571
Alt.	Ceramate Techn. Co., Ltd.	GNR14D561K	560V	IEC 61051-1 IEC 61051-2-2	VDE 005938
Alt.	Fenghua Adv. Tech.(Holding) Co.,Ltd.	FNR-14K561	560V	IEC 61051-1 IEC 61051-2-2	VDE 40008242
Alt.	Chengdu Tieda Electronic Co., Ltd	MYN15-621K	620V	IEC 61051-1 IEC 61051-2-2	VDE 40008571
Alt.	Chengdu Tieda Electronic Co., Ltd	MYN15-621KM	620V, 385Vr.m.s	IEC 61051-1 IEC 61051-2-2	VDE 40045597
Alt.	Ceramate Techn. Co., Ltd.	GNR14D621K	620V	IEC 61051-1 IEC 61051-2-2	VDE 005938
Alt.	Fenghua Adv. Tech.(Holding) Co., Ltd.	FNR-14K621	620V	IEC 61051-1 IEC 61051-2-2	VDE 40008242
Alt.	GUANGXI NEW FUTURE INFORMATION INDUSTRY CO., LTD	14D621K	620V	IEC 61051-1 IEC 61051-2-2	VDE 40030322
Alt.	Chengdu Tieda Electronic Co., Ltd	MYN15-681K	680V	IEC 61051-1 IEC 61051-2-2	VDE 40008571
Alt.	Chengdu Tieda Electronic Co., Ltd	MYN15-681KM	680V,420V r.m.s	IEC 61051-1 IEC 61051-2-2	VDE 40045597
Alt.	Ceramate Techn. Co., Ltd.	GNR14D681K	680V	IEC 61051-1 IEC 61051-2-2	VDE 005938
Alt.	Fenghua Adv. Tech.(Holding) Co., Ltd.	FNR-14K681	680V	IEC 61051-1 IEC 61051-2-2	VDE 40008242
Alt.	Chengdu Tieda Electronic Co., Ltd	MYN15-331K	330V	IEC 61051-1 IEC 61051-2-2	VDE 40008571
Alt.	Ceramate Techn. Co., Ltd.	GNR14D331K	330V	IEC 61051-1 IEC 61051-2-2	VDE 005938
Alt.	Fenghua Adv. Tech.(Holding) Co., Ltd.	FNR-14K331	330V	IEC 61051-1 IEC 61051-2-2	VDE 40008242

Alt.	GUANGXI NEW FUTURE INFORMATION INDUSTRY CO.,LTD	14D621KMS	620V	IEC 61051-1 IEC 61051-2-2	VDE 40053795
Alt.	Guizhou Kaili Economic Development Zone Zhonghao Electronics Co., LTD	WLR-14D621KH	620V	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 40050367
Alt.	Shenzhen Chenju Electronic Technology Co., Ltd	CNJU 14D621K	620V	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 40034186
Alt.	Fujian Qiaoguang Electronic Technology Co., Ltd	FTR14D621K	620V	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 40051843
Alt.	Guizhou Kaili Economic Development Zone Zhonghao Electronics Co., LTD	WLR-14D681KH	680V	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 40050367
Alt.	GUANGXI NEW FUTURE INFORMATION INDUSTRY CO., LTD	14D681KMS	680V	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 40053795
Alt.	Shenzhen Chenju Electronic Technology Co., Ltd	CNJU 14D681K	680V	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 40034186
Alt.	Fujian Qiaoguang Electronic Technology Co., Ltd	FTR14D681K	680V	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 40051843
Alt.	Guizhou Kaili Economic Development Zone Zhonghao Electronics Co., LTD	WLR-14D681KH	680V	IEC/EN 61051-1 IEC/EN 61051-2-2	VDE 40050367
Switch transformer only for SD/CF series	Dongguan City Dazhong Electronic Co., Ltd.	CE-625-HB	DC 200-380 V, 120 kHz; DC 12V, 800 mA, Class 120(E)	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	Dandong Zhongding Electron Co., Ltd.	CE-625-HB	DC 200-380 V, 120 kHz; DC 12 V, 800 mA, Class 120(E)	EN 60335-1 EN 60335-2-40	Tested with appliance

Alt.	Shenzhen Yamaxi Electronics Co., Ltd.	CE-625-HB	DC 200-380 V, 120 kHz; DC 12 V, 800 mA, Class 120(E)	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	WU HAN CHEN YANG CORE NEW-TECH CO., LTD	CE-625-HB	DC200-380V, 120kHz, DC12V, 800mA	IEC/EN 60335-1 IEC/EN 60335-2-40	Tested with appliance
For indoor unit BRAC-FM-IAFC-9-R3-I, BRAC-FM-IAFC-12-R3-I, BRAC-FM-IAFC-18-R3-I					
Indoor fan motor	ZHUHAI KAI BANG MOTOR MANUFACTURING, LTD	ZWS40-I	DC 310 V, 40 W, Class 120 (E)	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	wolong electric group co., ltd	ZWB178D91A	DC 310 V, 40 W, Class 120 (E)	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	Panasonic Motor (HangZhou) Co., Ltd.	EHDS85AAK	DC 310 V, 40 W, Class 120 (E)	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	wolong electric group co., ltd	ZWB178D89A	DC 310 V, 40 W, Class 120 (E)	EN 60335-1 EN 60335-2-40	Tested with appliance
Step motor	Jiangsu Huayang Electric co., Ltd	35BYJ46 35BYJ412	12 VDC	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	CHANGZHOU OUCK ELECTRIC CO., LTD	35BYJ46 35BYJ412	12 VDC	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	CIXI HUAXIA ELECTRICAL APPLIANCE CO., LTD./HUACHEN G	35BYJ46 35BYJ412	12 VDC	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	Hefei Huilipu Motor Co., Ltd.	35BYJ46 35BYJ412	12 VDC	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	Jiangsu Leili Motor Co., Ltd	35BYJ46 35BYJ412	12 VDC	EN 60335-1 EN 60335-2-40	Tested with appliance
Terminal block	Nantong Huaguan Electric Co., Ltd	JXW-4-A	450 V, 4 mm ²	EN 60335-1 EN 60335-2-40	Tested with appliance
Alt.	Zhenjiang Honglian Electrician Co., Ltd.	JX044	600 V, 4 mm ²	IEC/EN 60335-2-40 IEC/EN 60335-1	Tested with appliance

Alt.	YUEQING HUACHEN ELECTRICAL EQUIPMENT CO., LTD.	JXO-B Series	600 V, 4 mm ² or 6 mm ²	EN 60998-1 EN 60998-2-1	TUV R50311527 TUV R50311529
Alt.	Changzhou Kaidu Electrical Co., Ltd.	JX Series	600 V, 4 mm ² or 6 mm ²	EN 60998-1 EN 60998-2-1	VDE 40020936
Alt.	Changzhou Kaidu Electrical Co., Ltd.	JX* ** Series	600 V, 4 mm ² or 6 mm ²	EN 60998-1 EN 60998-2-1	VDE 40042595
Alt.	Nantong Huaguan Electric Co.,Ltd	JXW Series	600 V, 4 mm ²	EN 60998-1 EN 60998-2-1	VDE 40013197
Alt.	Zhenjiang Honglian Electrician Co., Ltd.	JXO series	600 V, 4 mm ²	IEC/EN 60335-2- 40 IEC/EN 60335-1	Tested with appliance

Supplementary information:

- 1) Provided evidence ensures the agreed level of compliance. See OD-CB2039.
- 2) License available upon request.

28.1	TABLE: Threaded part torque test			P
Threaded part identification	Diameter of thread (mm)	Column number (I, II, or III)	Applied torque (Nm)	
Screw for earthing terminal	3,9	II	1,2	
Supplementary information:				

29.1	TABLE: Clearances					P
	Overvoltage category	II				
		Type of insulation:				
Rated impulse voltage (V)	Min. cl (mm)	Basic	Functional	Supplementary	Reinforced	Verdict / Remark
330	0,5 ¹⁾	—	—	—	—	N/A
500	0,5 ¹⁾	—	—	—	—	N/A
800	0,5 ¹⁾	—	—	—	—	N/A
1500	0,5 ^{1), 2)}	—	—	—	—	N/A
2500	1,5 ²⁾	B1, B2	F1	S1	—	P
4000	3,0 ²⁾	—	—	—	R1	P
6000	5,5 ²⁾	—	—	—	—	N/A
8000	8,0 ²⁾	—	—	—	—	N/A
10000	11,0 ²⁾	—	—	—	—	N/A

- 1) Value is increased to 0,8 mm for pollution degree 3
 2) If the construction is affected by wear, by distortion, by movement of the parts or during assembly, the value is increased by 0,5 mm

Supplementary information:

Remark:

B1: Between the fan motor's winding and the iron core: Cl.=4,8 mm;

B2: Between the compressor winding and the earthed metal: Cl.=4,2 mm;(Pollution degree 1)

R1: Between live part and accessible plastic enclosure: Cl.=10,1 mm;

S1: Between internal wire and accessible plastic surface: Cl.=6,2 mm;

F1: Between the L and N poles on the indoor unit PCB: Cl.=5,5 mm (Pollution degree 2)

29.2	TABLE: Creepage distances, basic, supplementary and reinforced insulation										P
Working voltage (V)	Creepage distance (mm) Pollution degree							Type of insulation			Verdict
	1	2			3						
Material group			Material group			B*)	S*)	R*)			
I	II	IIIa/IIIb	I	II	IIIa/IIIb						
≤50	0,2	0,6	0,9	1,2	1,5	1,7	1,9		—	—	N/A
≤50	0,2	0,6	0,9	1,2	1,5	1,7	1,9	—		—	N/A
≤50	0,4	1,2	1,8	2,4	3,0	3,4	3,8	—	—		N/A
>50 and ≤125	0,3	0,8	1,1	1,5	1,9	2,1	2,4		—	—	N/A
>50 and ≤125	0,3	0,8	1,1	1,5	1,9	2,1	2,4	—		—	N/A
>50 and ≤125	0,6	1,6	2,2	3,0	3,8	4,2	4,8	—	—		N/A
>125 and ≤250	0,6	1,3	1,8	2,5	3,2	3,6	4,0		—	—	N/A
>125 and ≤250	0,6	1,3	1,8	2,5	3,2	3,6	4,0	—		—	N/A
>125 and ≤250	1,2	2,6	3,6	5,0	6,4	7,2	8,0	—	—		N/A
>250 and ≤400	1,0	2,0	2,8	4,0	5,0	5,6	6,3 (2,0 for motor)	B1	—	—	P
>250 and ≤400	1,0	2,0	2,8	4,0	5,0	5,6	6,3	B2	—	—	P
>250 and ≤400	1,0	2,0	2,8	4,0	5,0	5,6	6,3	—	S1	—	P
>250 and ≤400	2,0	4,0	5,6	8,0	10,0	11,2	12,6	—	—	R1	P
>400 and ≤500	1,3	2,5	3,6	5,0	6,3	7,1	8,0		—	—	N/A
>400 and ≤500	1,3	2,5	3,6	5,0	6,3	7,1	8,0	—		—	N/A
>400 and ≤500	2,6	5,0	7,2	10,0	12,6	14,2	16,0	—	—		N/A
>500 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0		—	—	N/A
>500 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	—		—	N/A
>500 and ≤800	3,6	6,4	9,0	12,6	16,0	18,0	20,0	—	—		N/A

>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5		—	—	N/A
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5	—		—	N/A
>800 and ≤1000	4,8	8,0	11,2	16,0	20,0	22,0	25,0	—	—		N/A

*), B=Basic, S=Supplementary and R=Reinforced

supplementary information:

B1: Between the fan motor's winding and the iron core: Cr.= 4,8 mm;

B2: Between the compressor winding and the earthed metal: Cr.= 4,2 mm;(Pollution degree 1)

R1: Between live part and accessible plastic enclosure: Cr.=13,1 mm;

S1: Between internal wire and accessible plastic surface: Cr.= 8,5 mm

29.2	TABLE: Creepage distances, functional insulation							P
Working voltage (V)	Creepage distance (mm) Pollution degree							Verdict / Remark
	1	2			3			
Material group			Material group					
I		II	IIIa/IIIb	I	II	IIIa/IIIb		
≤50	0,2	0,6	0,8	1,1	1,4	1,6	1,8	N/A
>50 and ≤125	0,3	0,7	1,0	1,4	1,8	2,0	2,2	N/A
>125 and ≤250	0,4	1,0	1,4	2,0	2,5	2,8	3,2	P: F1
>250 and ≤400	0,8	1,6	2,2	3,2	4,0	4,5	5,0	N/A
>400 and ≤500	1,0	2,0	2,8	4,0	5,0	5,6	6,3	N/A
>500 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	N/A
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5	N/A

Supplementary information:

F1: Between the L and N poles on the indoor unit PCB: Cr.= 5,5 mm; (Pollution degree 2)

30																					
TABLE: Resistance to heat and fire																					
Object/ part No.	Manufactu rer/ trademark	Type/ model	Ball pressure test °C				Glow wire test (GWT) °C						Glow-wire flammability index (GWFI) °C				Glow- wire ignition temp. (GWIT) °C		Needle - flame test (NFT)	Verdict	
			75	125	cl. 11 +40	cl. 19 +25	550	650		750		850	550	650	750	850	675	775			
								te	ti	te	ti										
Plastic enclosure	AUX	ABS	0,8	—	—	—	P	—	—	—	—	—	—	—	—	—	—	—	—	P	
PCB Connector	AUX	—	—	1,2	—	—	—	—	—	0 s	0 s	P	—	—	—	—	—	—	—	P	
Pressure switch	—	—	—	—	—	—	—	—	—	0 s	0 s	P	—	—	—	—	—	—	—	P	
Step motor bobbin	See table 24.1	See table 24.1	—	1,0	—	—	—	0 s	0 s	—	—	—	—	—	—	—	—	—	—	P	
Drain Pump	See table 24.1	See table 24.1	—	—	—	—	—	0 s	0 s	—	—	—	—	—	—	—	—	—	—	P	
Reactor bobbin	See table 24.1	See table 24.1	—	1,2	—	—	—	—	—	0 s	0 s	P	—	—	—	—	—	—	—	P	
Relay	See table 24.1	See table 24.1	—	—	—	—	—	—	—	0 s	0 s	P	—	—	—	—	—	—	—	P	
X2 capacitor	See table 24.1	See table 24.1	—	—	—	—	—	—	—	0 s	0 s	P	—	—	—	—	—	—	—	P	
Y capacitor	See table 24.1	See table 24.1	—	—	—	—	—	—	—	0 s	0 s	P	—	—	—	—	—	—	—	P	
Transformer	See table	See table	—	1,0	—	—	—	—	—	0 s	0 s	P	—	—	—	—	—	—	—	P	

bobbin	24.1	24.1																		
Indoor fan motor bobbin	See table 24.1	See table 24.1	—	1,0	—	—	—	—	—	0s	0s	P	—	—	—	—	—	—	—	P
Outdoor fan motor bobbin	See table 24.1	See table 24.1	—	1,2	—	—	—	—	—	0s	0s	P	—	—	—	—	—	—	—	P
Capacitor for indoor fan motor	See table 24.1	See table 24.1	—	—	—	—	—	—	—	0s	0s	P	—	—	—	—	—	—	—	P
4-way valve bobbin	See table 24.1	See table 24.1	—	—	—	—	—	0	0	—	—	—	—	—	—	—	—	—	—	P
Optocoupler	See table 24.1	See table 24.1	—	—	—	—	—	—	—	0 s	0 s	P	—	—	—	—	—	—	—	P
Varistor	See table 24.1	See table 24.1	—	—	—	—	—	—	—	0 s	0 s	P	—	—	—	—	—	—	—	P
Terminal block	See table 24.1	See table 24.1	—	0,8	—	—	—	—	—	0 s	0 s	P	—	—	—	—	—	—	—	P
PCB	See table 24.1	See table 24.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	P	P

Supplementary information:

- 1) Parts of material classified at least HB40 or if relevant HBF
- 2) Parts of material classified as V-0 or V-1
- 3) Flame persisting longer than 2 s (= te – ti) need only be reported for unattended appliances
- 4) Surrounding parts subjected to the needle-flame test of annex E
- 5) Base material classified as V-0 or if relevant VTM-0
- 6) The GWIT pre-selection option, the 850 °C GWF1 pre-selection option, and the 850 °C GWT are not applicable for attended appliances

- End of report -

Type of equipment, Split-type Air Conditioner
model: Model name see test report

Details of: Front of BRAC-FM-IA1-36-R3-O, BRAC-FM-IA1-42-R3-O

View:

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

A photograph showing the front view of a white outdoor air conditioning unit. The unit features a large, square grille on the left side and a vertical panel on the right side. It is mounted on a wooden deck.

Details of: Rear of BRAC-FM-IA1-36-R3-O

View:

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

A photograph showing the rear view of a white outdoor air conditioning unit. The unit is mounted on a wooden deck, and the back of the condenser coils is visible. The unit is supported by two white feet at the bottom.

Details of: Rear of BRAC-FM-IA1-42-R3-O

View:

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



Details of: Left of BRAC-FM-IA1-36-R3-O, BRAC-FM-IA1-42-R3-O

View:

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



Details of: Right of BRAC-FM-IA1-36-R3-O, BRAC-FM-IA1-42-R3-O

View:

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



Details of: Top of BRAC-FM-IA1-36-R3-O, BRAC-FM-IA1-42-R3-O

View:

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



Details of: Open view of BRAC-FM-IA1-36-R3-O

View:

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



Details of: Open view of BRAC-FM-IA1-36-R3-O, BRAC-FM-IA1-42-R3-O: fan motor

View:

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



Details of: Open view of BRAC-FM-IA1-36-R3-O: compressor

View:

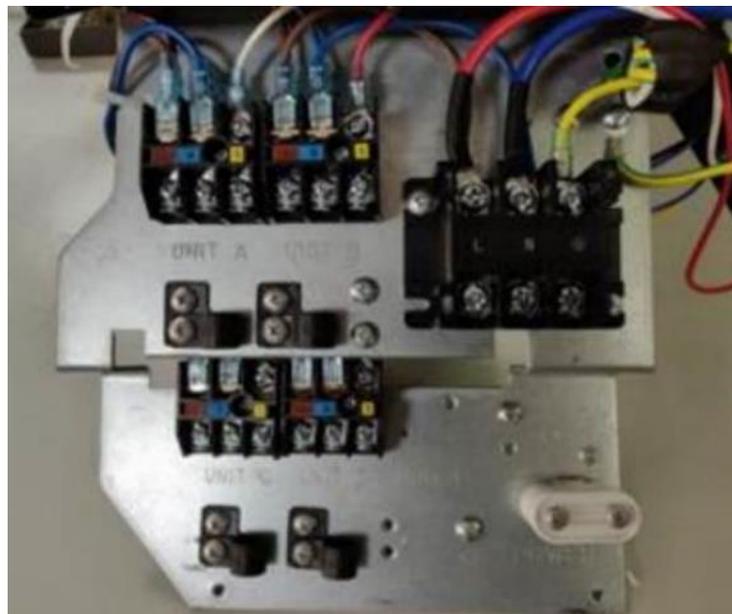
- general
- front
- rear
- right
- left
- top
- bottom



Details of: Open view of BRAC-FM-IA1-36-R3-O

View:

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



Details of: Open view of BRAC-FM-IA1-36-R3-O

View:

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



Details of: Open view of BRAC-FM-IA1-42-R3-O

View:

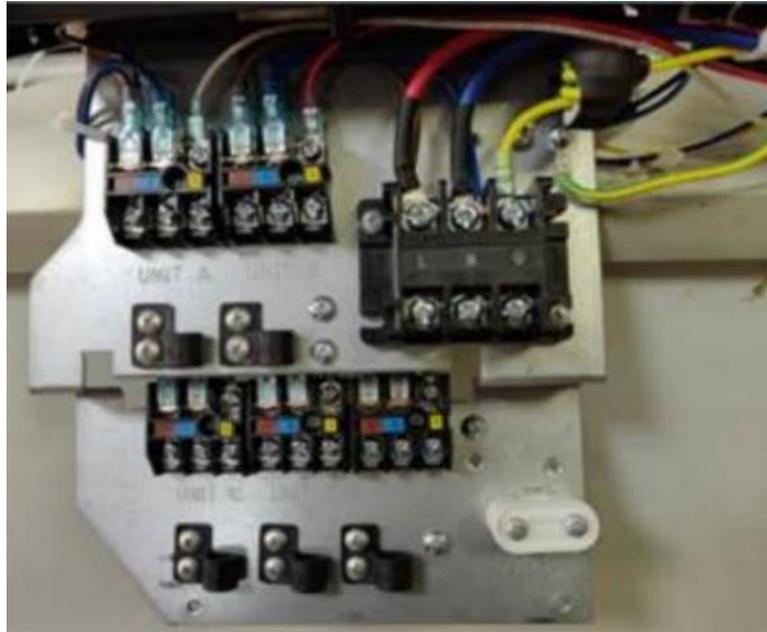
- general
- front
- rear
- right
- left
- top
- bottom



Details of: Open view of BRAC-FM-IA1-42-R3-O

View:

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



Details of: Open view of BRAC-FM-IA1-42-R3-O: earthing terminal

View:

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



Details of: Open view of BRAC-FM-IA1-42-R3-O: compressor

View:

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



Details of: Open view of BRAC-FM-IA1-42-R3-O

View:

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



Details of: Open view of BRAC-FM-IA1-36-R3-O, BRAC-FM-IA1-42-R3-O: main PCB 1

View:

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



Details of: Open view of BRAC-FM-IA1-36-R3-O, BRAC-FM-IA1-42-R3-O: main PCB 1

View:

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



Details of: Open view of BRAC-FM-IA1-36-R3-O, BRAC-FM-IA1-42-R3-O: main PCB 2

View:

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



Details of: Open view of BRAC-FM-IA1-36-R3-O, BRAC-FM-IA1-42-R3-O: main PCB 2

View:

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



Details of: BRAC-FM-IA1-14-R3-O



Details of: BRAC-FM-IA1-14-R3-O



Details of: BRAC-FM-IA1-14-R3-O

View:

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



Details of: BRAC-FM-IA1-14-R3-O

View:

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



Details of: BRAC-FM-IA1-14-R3-O

View:

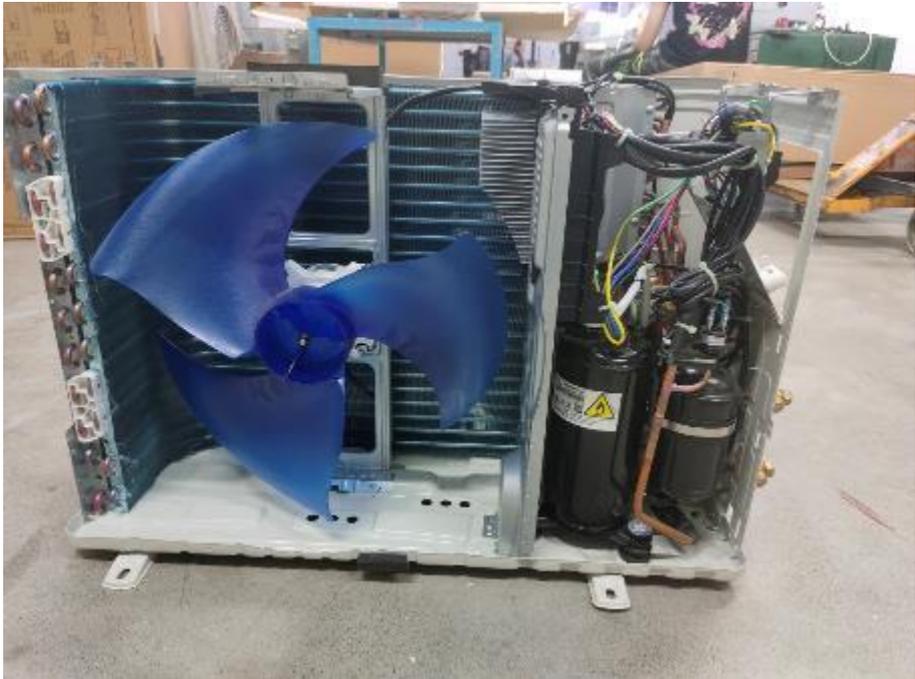
- general
- front
- rear
- right
- left
- top
- bottom

A top-down photograph of a white, rectangular, vertically oriented unit with a ribbed top surface, resting on a grey concrete floor. A yellow tool is partially visible in the bottom right corner.

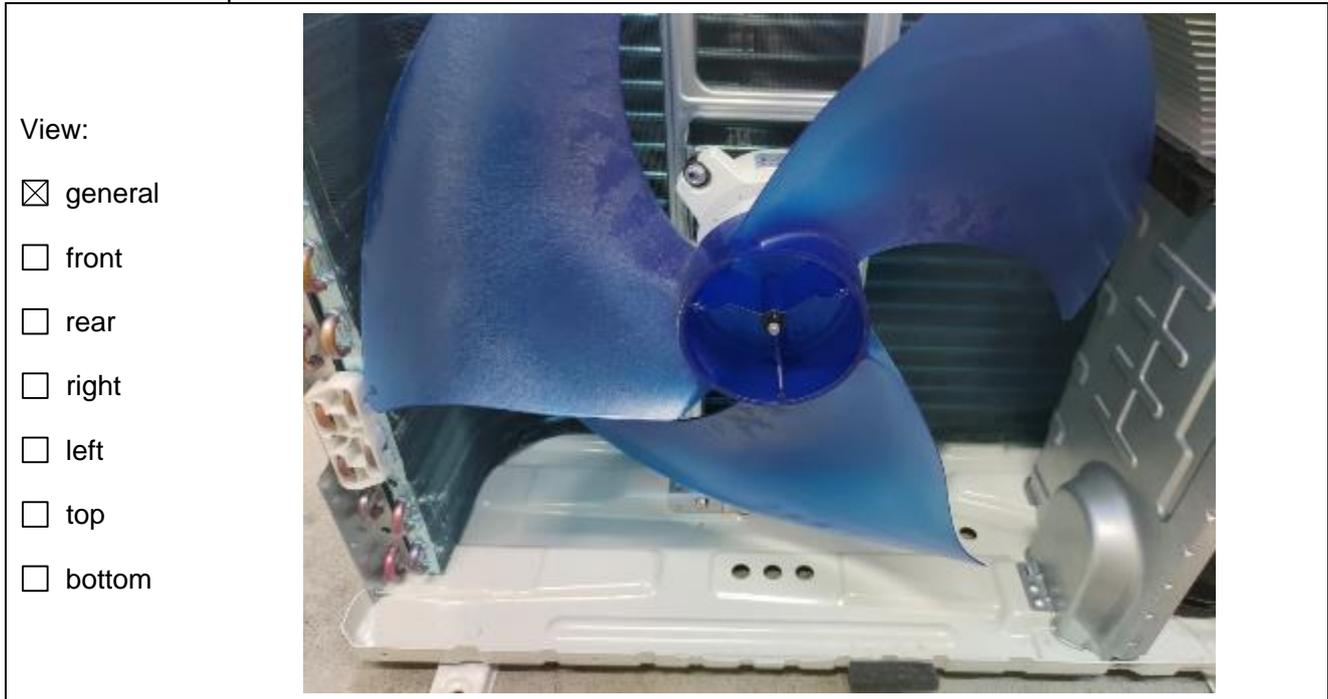
Details of: BRAC-FM-IA1-14-R3-O
Open view

View:

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

An open view of the unit showing its internal components. A large blue fan is prominent on the left side. To the right, there is a black cylindrical component, possibly a compressor, with various colored wires connected to it. The unit is mounted on a white base with feet.

Details of: BRAC-FM-IA1-14-R3-O
Open view: alternative construction



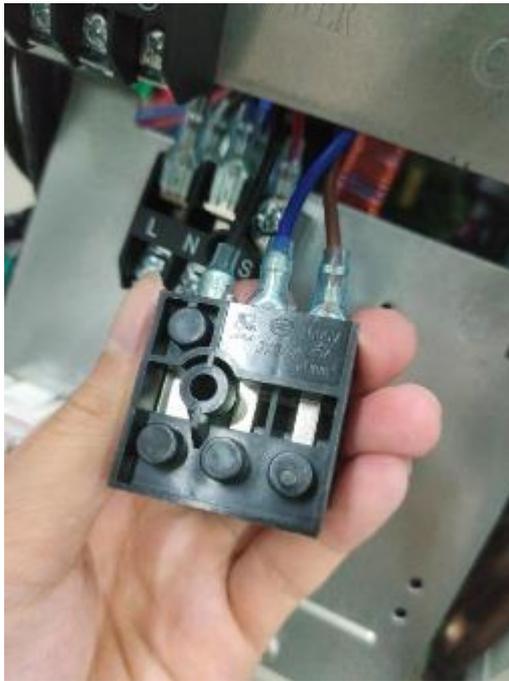
Details of: BRAC-FM-IA1-14-R3-O
Open view



Details of: BRAC-FM-IA1-14-R3-O
Open view

View:

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



Details of: BRAC-FM-IA1-14-R3-O: fan motor
Open view

View:

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



Details of: BRAC-FM-IA1-14-R3-O: 4-way valve
Open view

View:

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



Details of: BRAC-FM-IA1-14-R3-O: compressor
Open view

View:

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



Details of: Main PCB for 14, 18, 21, 27 series outdoor unit

View:

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

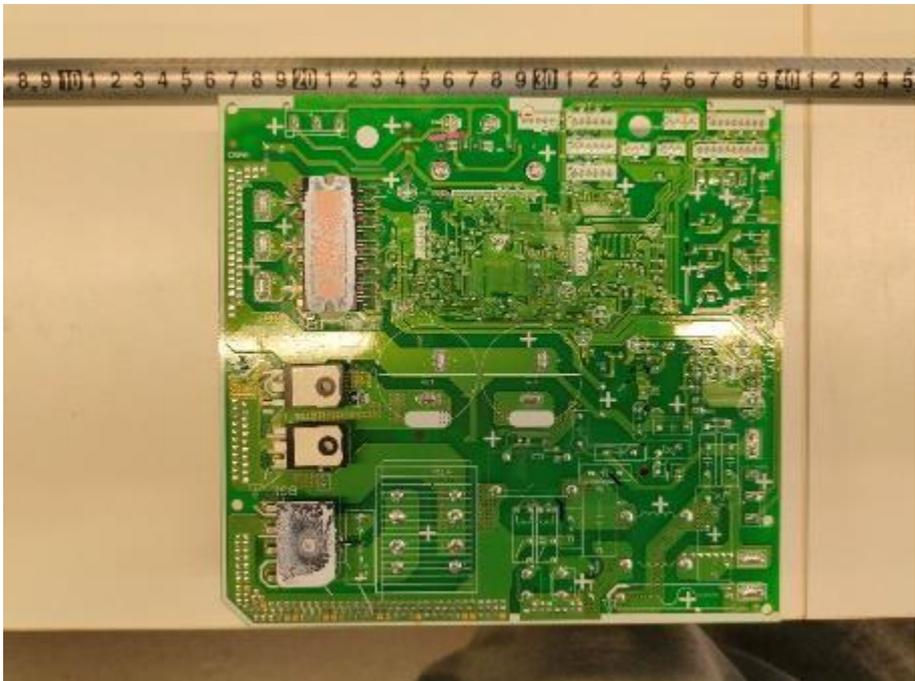


The image shows the top view of a green printed circuit board (PCB). It is populated with various electronic components including two large electrolytic capacitors in the center, two toroidal inductors at the top, several smaller capacitors, and a heat sink at the bottom. A metal ruler is placed vertically on the left side of the board for scale, showing measurements from 0 to 10 centimeters.

Details of: Main PCB for 14, 18, 21, 27 series outdoor unit

View:

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



The image shows the bottom view of the same green PCB. It displays the reverse side of the components, including the underside of the capacitors and inductors, and various surface-mount components. A metal ruler is placed horizontally at the top of the board for scale, showing measurements from 0 to 10 centimeters.

Details of: BRAC-FM-IA1-18-R3-O



Details of: BRAC-FM-IA1-18-R3-O



Details of: BRAC-FM-IA1-18-R3-O

View:

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



A photograph showing the left side of a white, rectangular fire-rated access panel. The panel is standing upright on a grey concrete floor. A blue mesh grille is visible on the left side. A red and white measuring tape is stretched across the floor in front of the panel. In the background, there are cardboard boxes and a fire extinguisher on a wall.

Details of: BRAC-FM-IA1-18-R3-O

View:

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



A photograph showing the right side of the same white, rectangular fire-rated access panel. The panel is standing upright on a grey concrete floor. A red and white measuring tape is stretched across the floor in front of the panel. In the background, a person's legs and feet are visible near a white door.

Details of: BRAC-FM-IA1-18-R3-O

View:

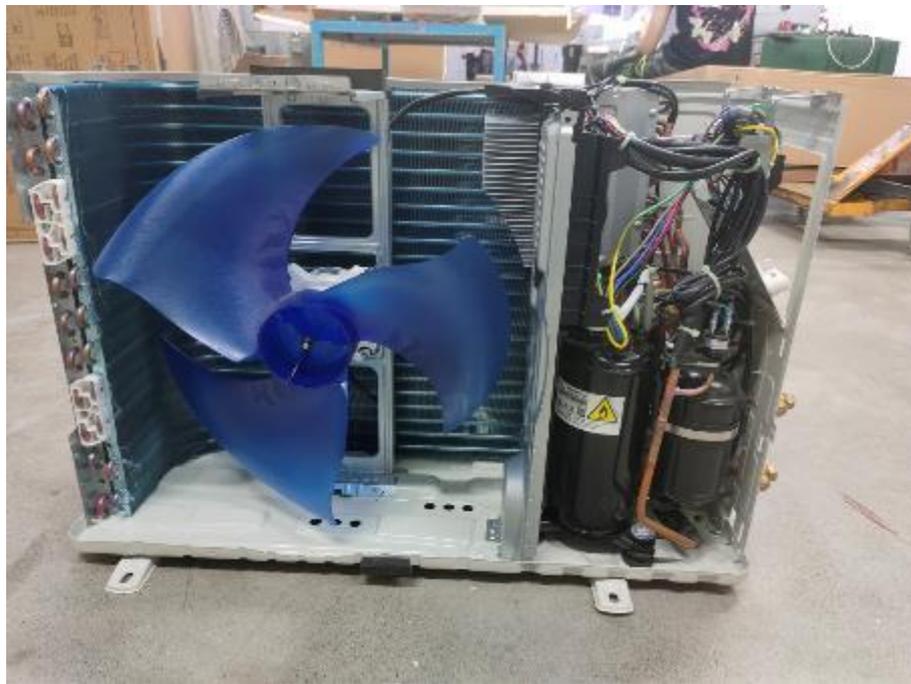
- general
- front
- rear
- right
- left
- top
- bottom



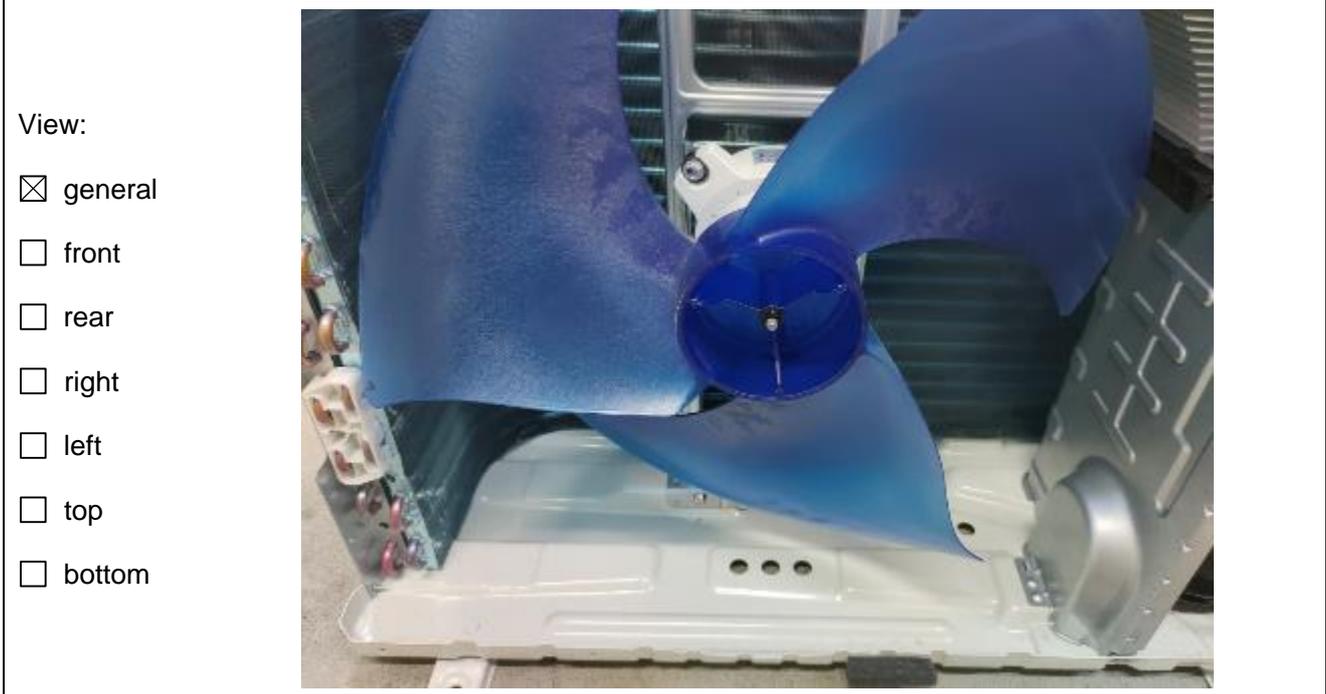
Details of: BRAC-FM-IA1-18-R3-O
Open view

View:

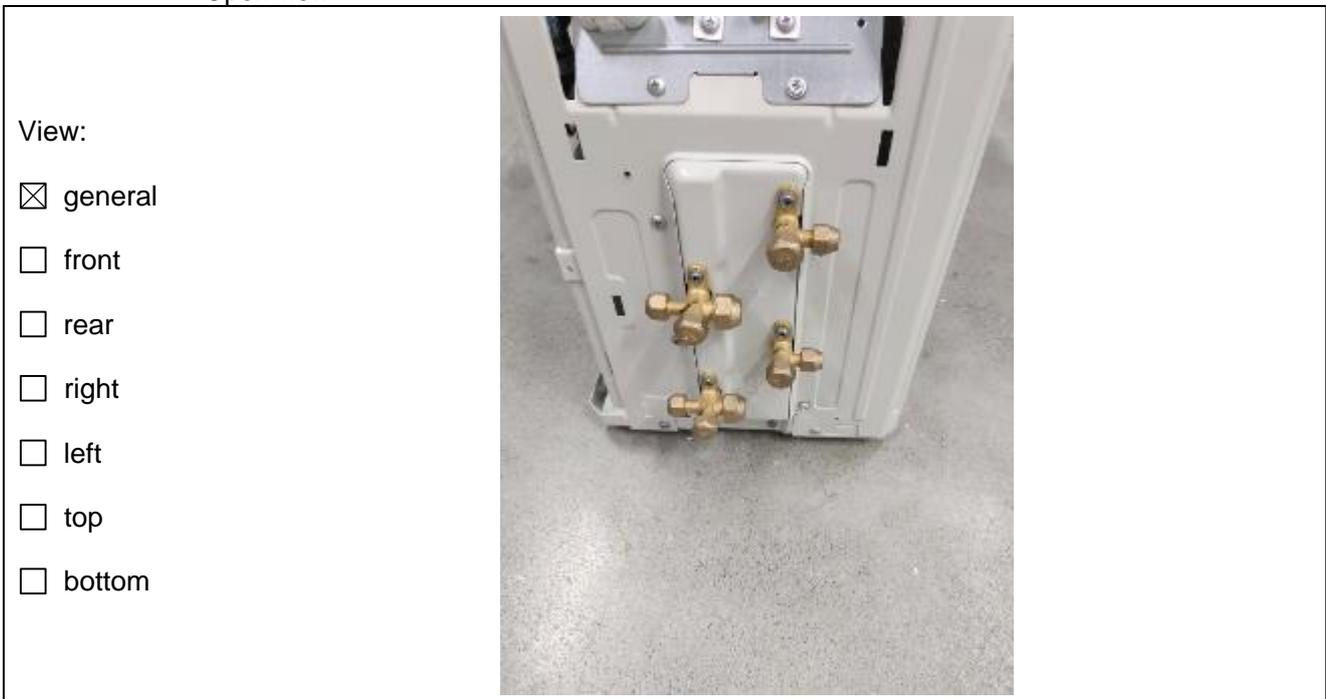
- general
- front
- rear
- right
- left
- top
- bottom



Details of: BRAC-FM-IA1-18-R3-O
Open view



Details of: BRAC-FM-IA1-18-R3-O
Open view



Details of: BRAC-FM-IA1-18-R3-O: outdoor unit fan motor



Details of: BRAC-FM-IA1-18-R3-O: 4-way valve



Details of: BRAC-FM-IA1-18-R3-O: compressor

View:

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



A close-up photograph of a black cylindrical compressor. A white label is affixed to the side, featuring a yellow triangular warning symbol with a black flame icon. The text on the label includes "Do not compress air" and "Caution : risk of fire R410A doesn't depend on ambient. Prio. refer to air-con's label." The compressor is connected to a copper pipe on the right side.

Details of: BRAC-FM-IA1-21-R3-O

View:

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



A photograph of a white outdoor air conditioning unit. The unit is rectangular and features a large circular fan grille on the front. A measuring tape is positioned vertically on the right side of the unit, indicating its height. The unit is mounted on a concrete floor.

Details of: BRAC-FM-IA1-21-R3-O



Details of: BRAC-FM-IA1-21-R3-O



Details of: BRAC-FM-IA1-21-R3-O

View:

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



Details of: BRAC-FM-IA1-21-R3-O

View:

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



Details of: BRAC-FM-IA1-21-R3-O



Details of: BRAC-FM-IA1-21-R3-O: compressor



Details of: BRAC-FM-IA1-21-R3-O
Open view

View:

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



The photograph shows the rear panel of a white electrical cabinet. It features several rows of gold-colored terminal blocks, likely for power distribution or signal routing. The cabinet is mounted on a light-colored floor.

Details of: BRAC-FM-IA1-21-R3-O
Open view

View:

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



The photograph shows the interior of an electrical cabinet. It features several rows of terminal blocks with blue and red wiring connected to them. The terminal blocks are labeled with 'L', 'N', and 'S'. There are also some white plastic components and a metal plate visible in the foreground.

Details of: BRAC-FM-IA1-27-R3-O



Details of: BRAC-FM-IA1-27-R3-O



Details of: BRAC-FM-IA1-27-R3-O

View:

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



Details of: BRAC-FM-IA1-27-R3-O

View:

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



Details of: BRAC-FM-IA1-27-R3-O

View:

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



The photograph shows the interior of a white electrical enclosure. A central metal terminal block is visible, featuring two columns of screw terminals. The left column is labeled 'L N G S' and the right column is labeled 'L N S'. Several blue Ethernet cables are plugged into the terminals. Below the terminal block, there are two white plastic components, possibly part of a surge protector or filter. The background shows other wiring and components within the enclosure.

Details of: BRAC-FM-IA1-27-R3-O

View:

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



The photograph shows a white, rectangular electrical component lying on a grey concrete floor. The component has a slightly raised, ribbed top surface and a recessed bottom surface. It appears to be a cover or a base for an electrical device. The lighting is even, highlighting the texture of the plastic and the floor.

Details of: BRAC-FM-IA1-27-R3-O
Open view



Details of: BRAC-FM-IA1-27-R3-O
Open view



Details of: BRAC-FM-IA1-27-R3-O
Open view



Details of: BRAC-FM-IA1-27-R3-O
Open view



Details of: BRAC-FM-IA1-27-R3-O: compressor

View:

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



Details of: BRAC-FM-IA1-27-R3-O: 4-way valve

View:

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



Details of: Front of BRAC-FM-IA1-28-R3-O



Details of: Rear of BRAC-FM-IA1-28-R3-O



Details of: Left of BRAC-FM-IA1-28-R3-O

View:

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

A photograph showing the left side of a grey metal cabinet. The cabinet has a door with a handle and a warning label. The cabinet is standing on a concrete floor with a red and white striped safety tape.

Details of: Right of BRAC-FM-IA1-28-R3-O

View:

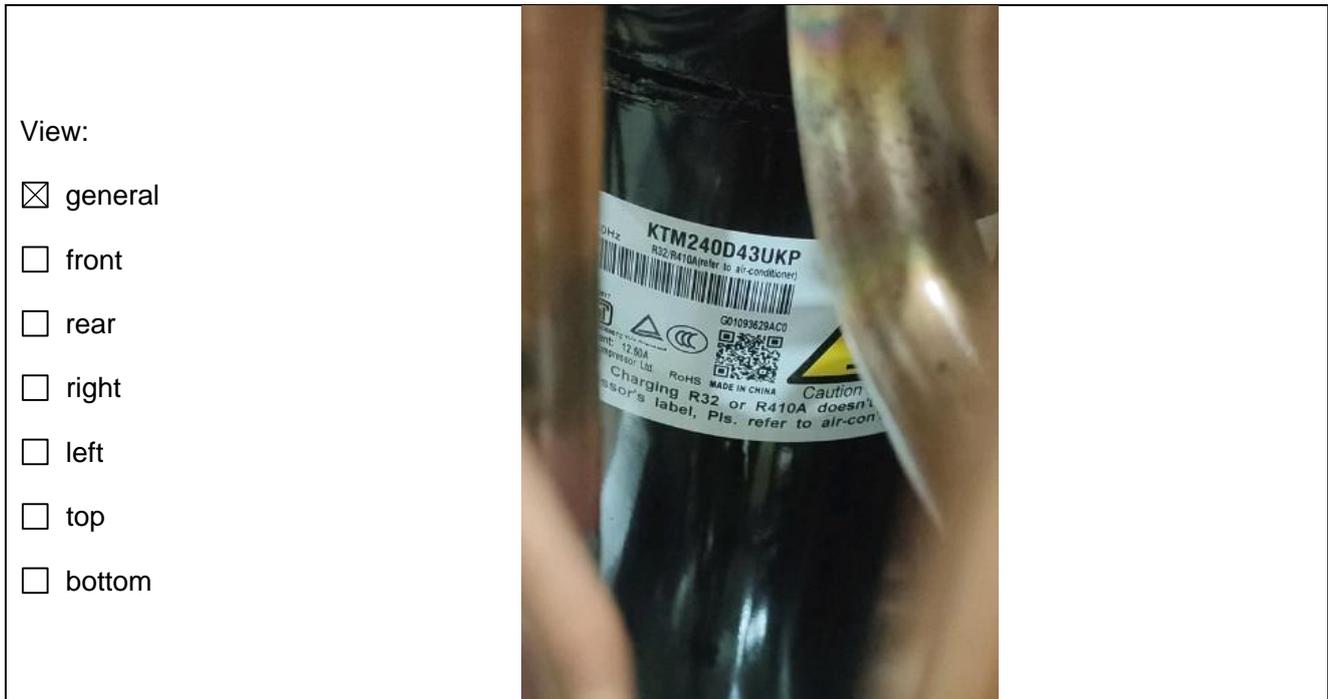
- general
- front
- rear
- right
- left
- top
- bottom

A photograph showing the right side of a grey metal cabinet. The cabinet features a grid of blue mesh panels. The cabinet is standing on a concrete floor with a red and white striped safety tape.

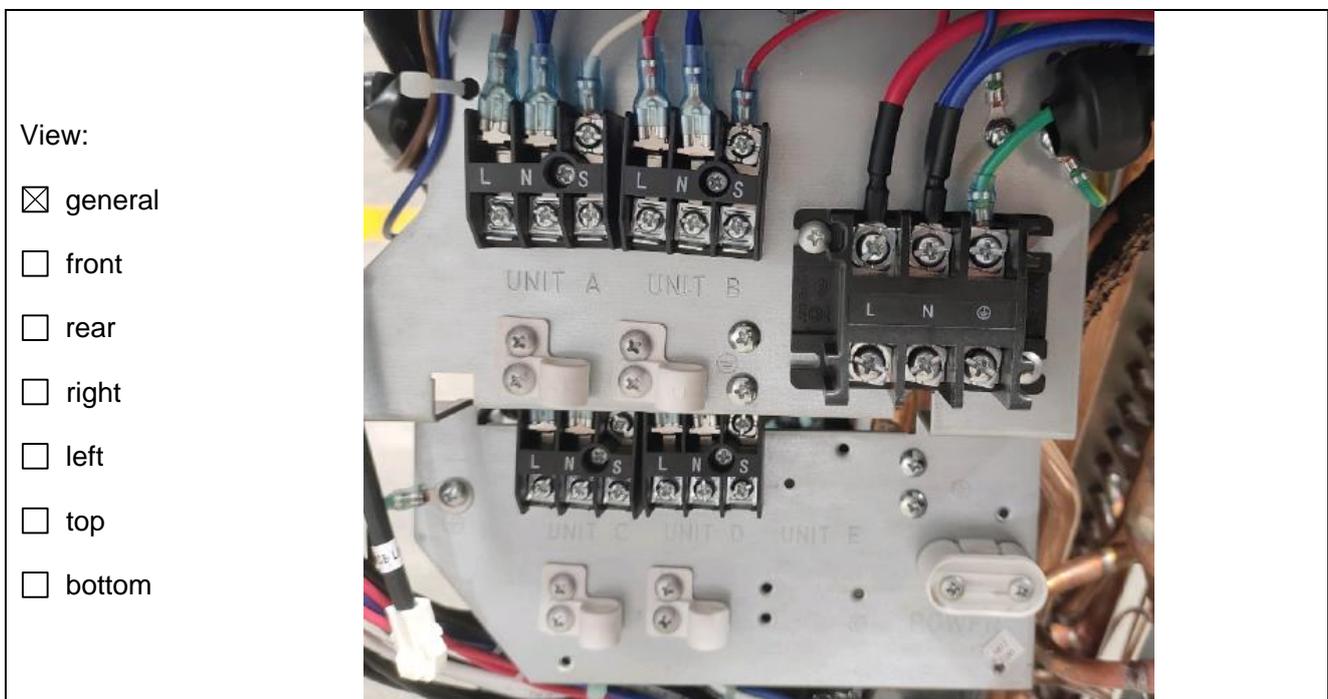
Details of: Open view of BRAC-FM-IA1-28-R3-O: fan motor



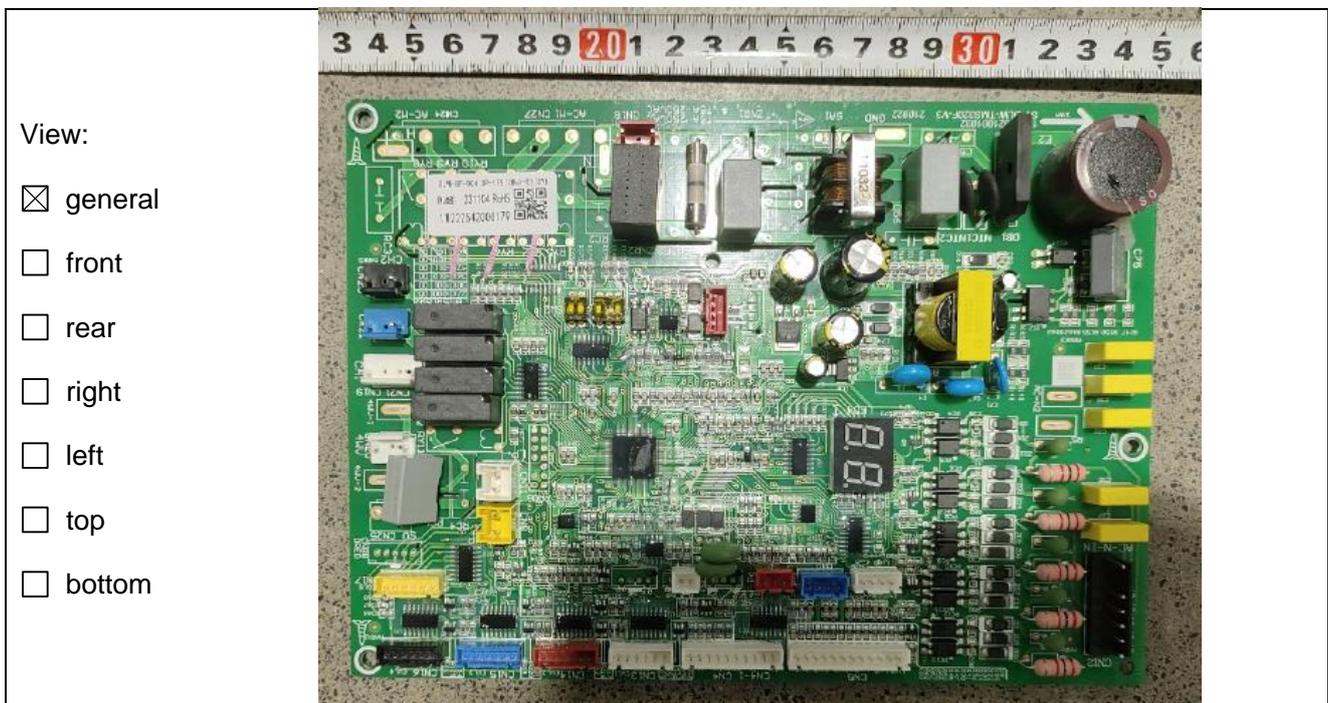
Details of: Open view of BRAC-FM-IA1-28-R3-O: compressor



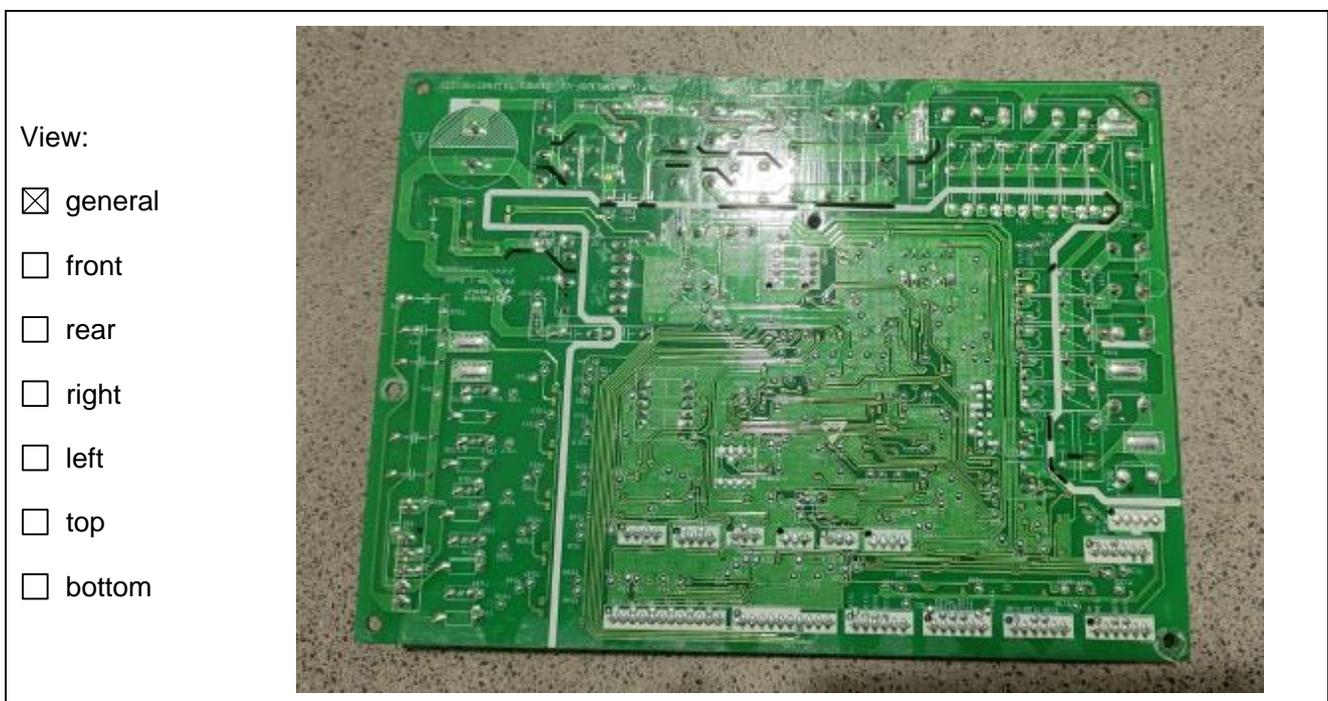
Details of: Open view of BRAC-FM-IA1-28-R3-O



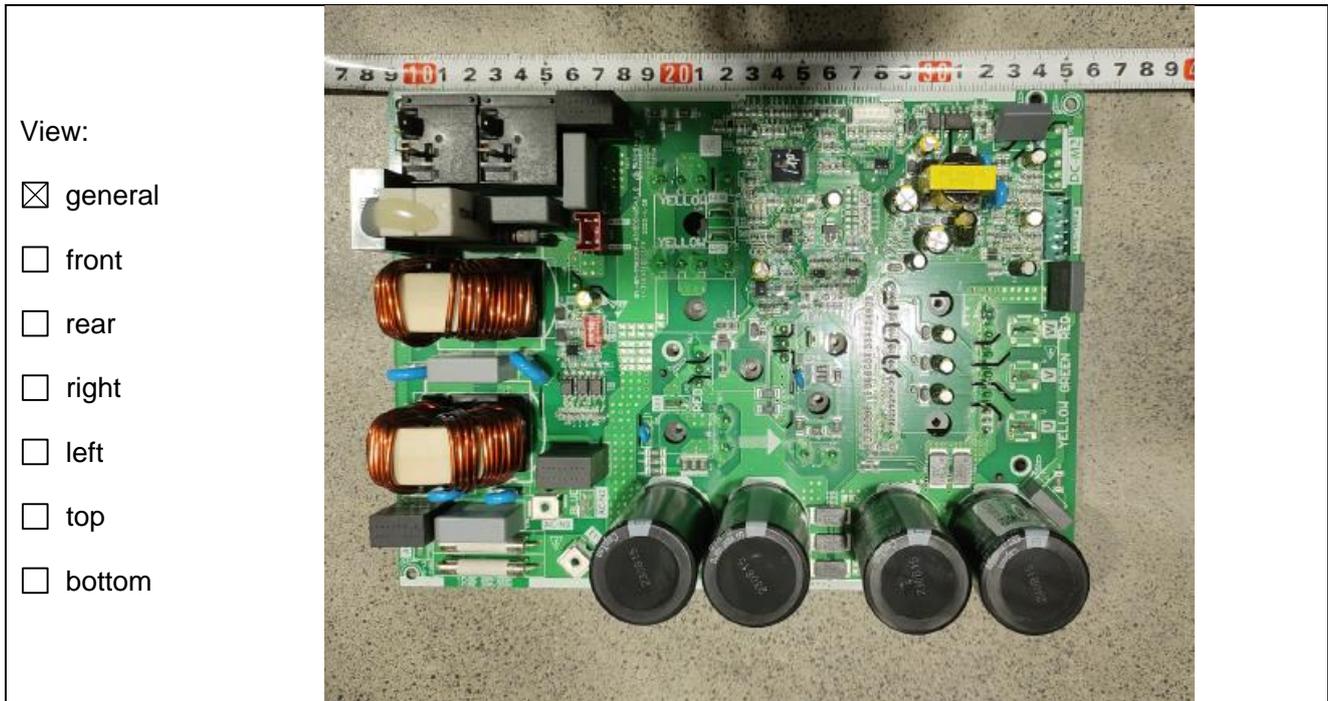
Details of: Open view of BRAC-FM-IA1-28-R3-O: main PCB 1



Details of: Open view of BRAC-FM-IA1-28-R3-O: main PCB 1



Details of: Open view of BRAC-FM-IA1-28-R3-O: main PCB 2



Details of: Open view of BRAC-FM-IA1-28-R3-O: main PCB 2



Details of: BRAC-FM-IACA-9-R3-I, BRAC-FM-IACA-12-R3-I, BRAC-FM-IACA-18-R3-I

View:

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



Details of: BRAC-FM-IACA-9-R3-I, BRAC-FM-IACA-12-R3-I, BRAC-FM-IACA-18-R3-I
Side view

View:

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



Details of: BRAC-FM-IACA-9-R3-I, BRAC-FM-IACA-12-R3-I, BRAC-FM-IACA-18-R3-I
Side view

View:

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



Details of: BRAC-FM-IACA-9-R3-I, BRAC-FM-IACA-12-R3-I, BRAC-FM-IACA-18-R3-I
Side view

View:

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



Details of: BRAC-FM-IACA-9-R3-I, BRAC-FM-IACA-12-R3-I, BRAC-FM-IACA-18-R3-I
Open view

View:

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



Details of: BRAC-FM-IACA-9-R3-I, BRAC-FM-IACA-12-R3-I, BRAC-FM-IACA-18-R3-I
Open view

View:

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



Details of: BRAC-FM-IACA-9-R3-I, BRAC-FM-IACA-12-R3-I, BRAC-FM-IACA-18-R3-I
Open view

View:

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



Details of: BRAC-FM-IACA-9-R3-I, BRAC-FM-IACA-12-R3-I, BRAC-FM-IACA-18-R3-I
Open view



Details of: BRAC-FM-IACA-9-R3-I, BRAC-FM-IACA-12-R3-I, BRAC-FM-IACA-18-R3-I
Open view



Details of: Front of BRAC-FM-IADU-9-R3-I

View:

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



Details of: Rear of BRAC-FM-IADU-9-R3-I

View:

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



Details of: Left of BRAC-FM-IADU-9-R3-I

View:

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



Details of: Right of BRAC-FM-IADU-9-R3-I

View:

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



Details of: Top of BRAC-FM-IADU-9-R3-I

View:

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



Details of: Bottom view of BRAC-FM-IADU-9-R3-I

View:

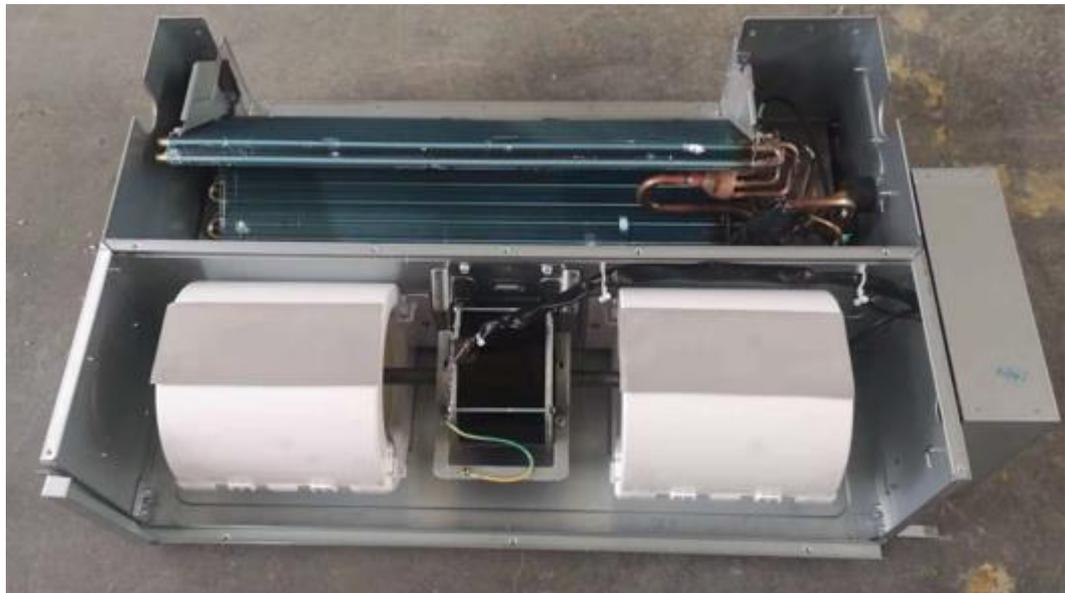
- general
- front
- rear
- right
- left
- top
- bottom



Details of: Open view of BRAC-FM-IADU-9-R3-I

View:

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



Details of: Open view of BRAC-FM-IADU-9-R3-I: fan motor

View:

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



Details of: Open view of BRAC-FM-IADU-9-R3-I

View:

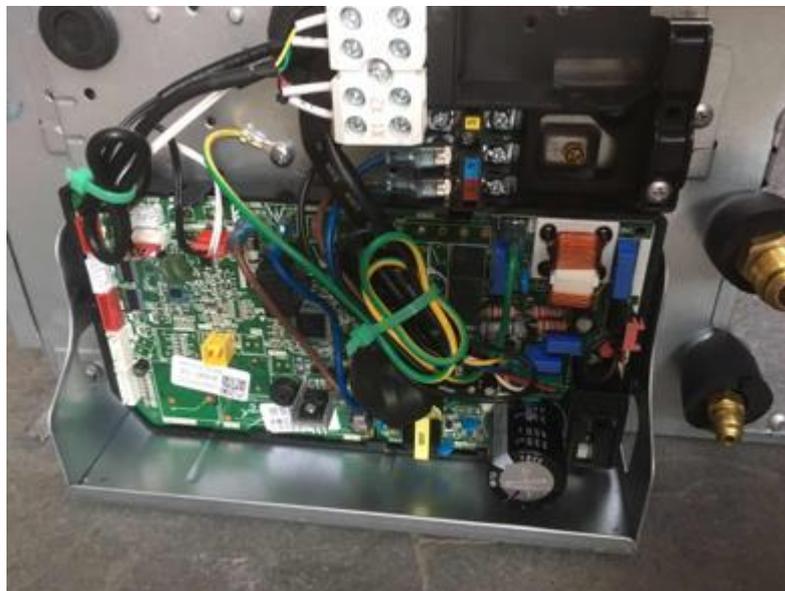
- general
- front
- rear
- right
- left
- top
- bottom



Details of: Open view of BRAC-FM-IADU-9-R3-I

View:

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



Details of: Front of BRAC-FM-IAFC-9-R3-I, BRAC-FM-IAFC-12-R3-I, BRAC-FM-IAFC-18-R3-I

View:

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



Details of: Rear of BRAC-FM-IAFC-9-R3-I, BRAC-FM-IAFC-12-R3-I, BRAC-FM-IAFC-18-R3-I

View:

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



Details of: Left of BRAC-FM-IAFC-9-R3-I, BRAC-FM-IAFC-12-R3-I, BRAC-FM-IAFC-18-R3-I

View:

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



Details of: Right of BRAC-FM-IAFC-9-R3-I, BRAC-FM-IAFC-12-R3-I, BRAC-FM-IAFC-18-R3-I

View:

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



Details of: Bottom view of BRAC-FM-IAFC-9-R3-I, BRAC-FM-IAFC-12-R3-I, BRAC-FM-IAFC-18-R3-I

View:

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



Details of: Open view of BRAC-FM-IAFC-9-R3-I, BRAC-FM-IAFC-12-R3-I, BRAC-FM-IAFC-18-R3-I

View:

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



Details of: Open view of BRAC-FM-IAFC-9-R3-I, BRAC-FM-IAFC-12-R3-I, BRAC-FM-IAFC-18-R3-I: fan motor

View:

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



Details of: Open view of BRAC-FM-IAFC-9-R3-I, BRAC-FM-IAFC-12-R3-I, BRAC-FM-IAFC-18-R3-I

View:

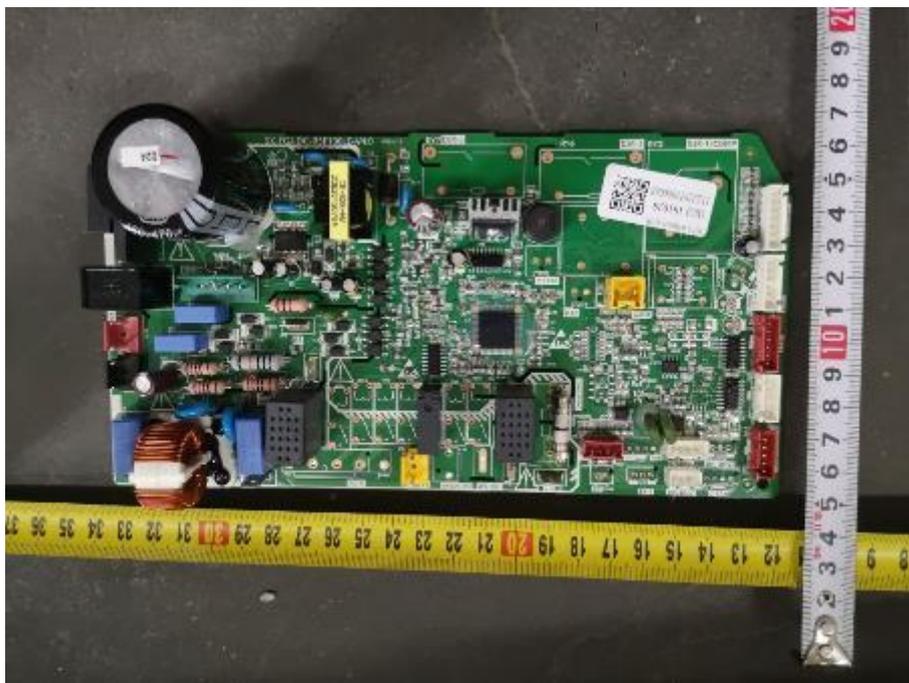
- general
- front
- rear
- right
- left
- top
- bottom



Details of: Open view of BRAC-FM-IAFC-9-R3-I, BRAC-FM-IAFC-12-R3-I, BRAC-FM-IAFC-18-R3-I:
main PCB

View:

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



Details of: Open view of BRAC-FM-IAFC-9-R3-I, BRAC-FM-IAFC-12-R3-I, BRAC-FM-IAFC-18-R3-I:
main PCB

View:

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



Details of: Front of BRAC-FM-IACA-24-R3-I

View:

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



Details of: BRAC-FM-IACA-24-R3-I



Details of: BRAC-FM-IACA-24-R3-I



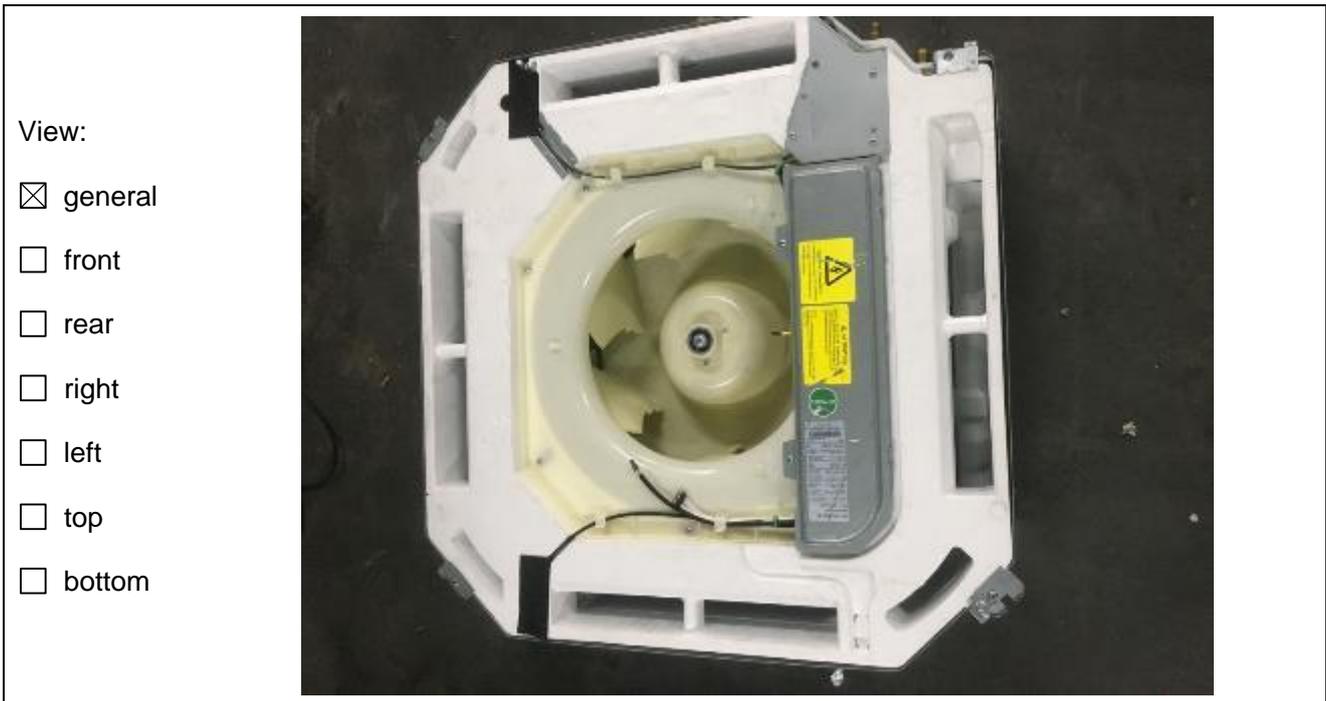
Details of: BRAC-FM-IACA-24-R3-I



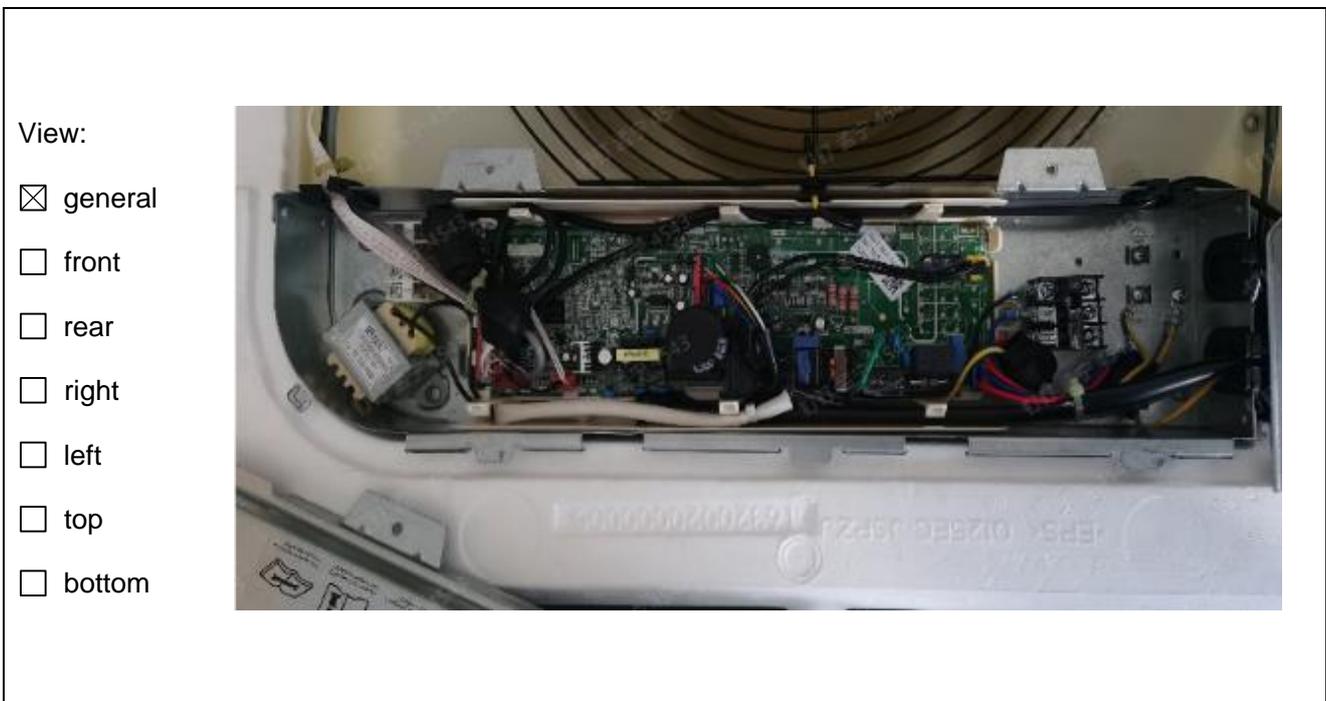
Details of: BRAC-FM-IACA-24-R3-I



Details of: Open view of BRAC-FM-IACA-24-R3-I



Details of: Open view of BRAC-FM-IACA-24-R3-I



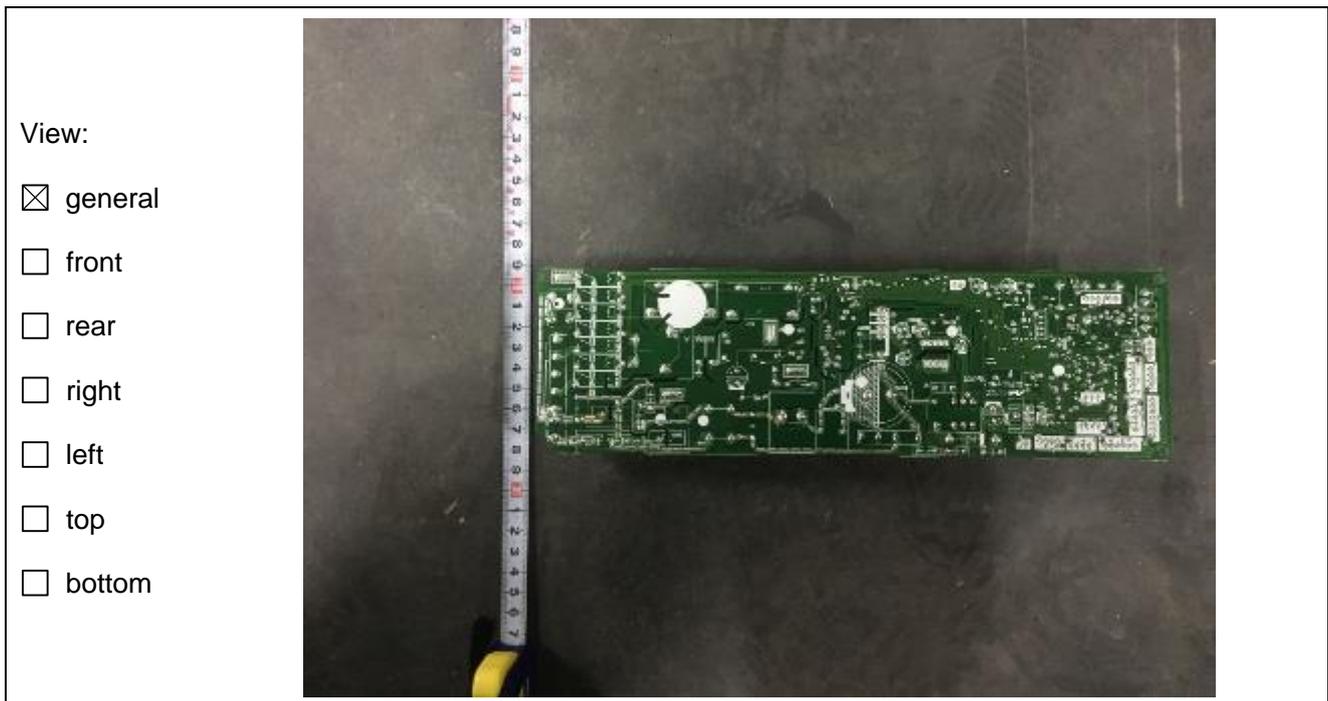
Details of: Open view of BRAC-FM-IACA-24-R3-I: fan motor



Details of: PCB of BRAC-FM-IACA-24-R3-I



Details of: PCB of BRAC-FM-IACA-24-R3-I



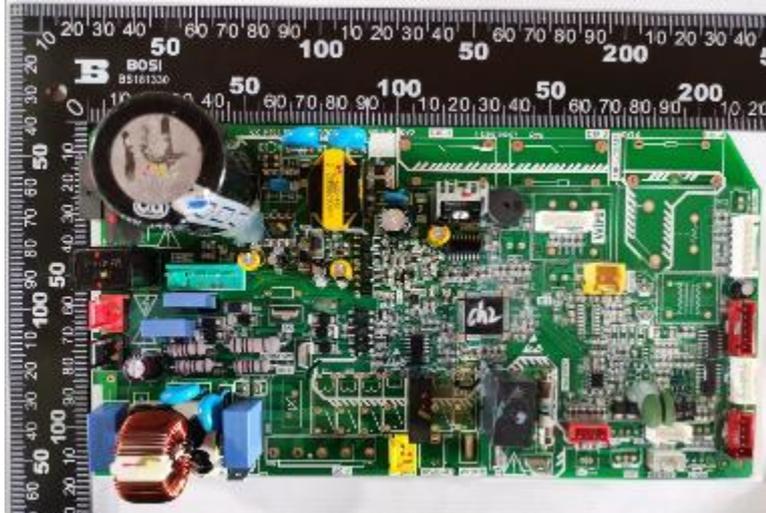
Details of: Indoor fan motor for BRAC-FM-IADU-9-R3-I



Details of: Alternative indoor unit main PCBs for models BRAC-FM-IADU-9-R3-I

View:

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



Details of: Alternative indoor unit main PCBs for models BRAC-FM-IADU-9-R3-I

View:

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



Details of: Alternative indoor unit main PCBs for models BRAC-FM-IAFC-9-R3-I, BRAC-FM-IAFC-12-R3-I, BRAC-FM-IAFC-18-R3-I



Details of: Alternative indoor unit main PCBs for models BRAC-FM-IAFC-9-R3-I, BRAC-FM-IAFC-12-R3-I, BRAC-FM-IAFC-18-R3-I



Details of: BRAC-FM-IACO-9-R3-I, BRAC-FM-IACO-12-R3-I, BRAC-FM-IACO-18-R3-I: Top view



Details of: BRAC-FM-IACO-9-R3-I, BRAC-FM-IACO-12-R3-I, BRAC-FM-IACO-18-R3-I: Left view

View:

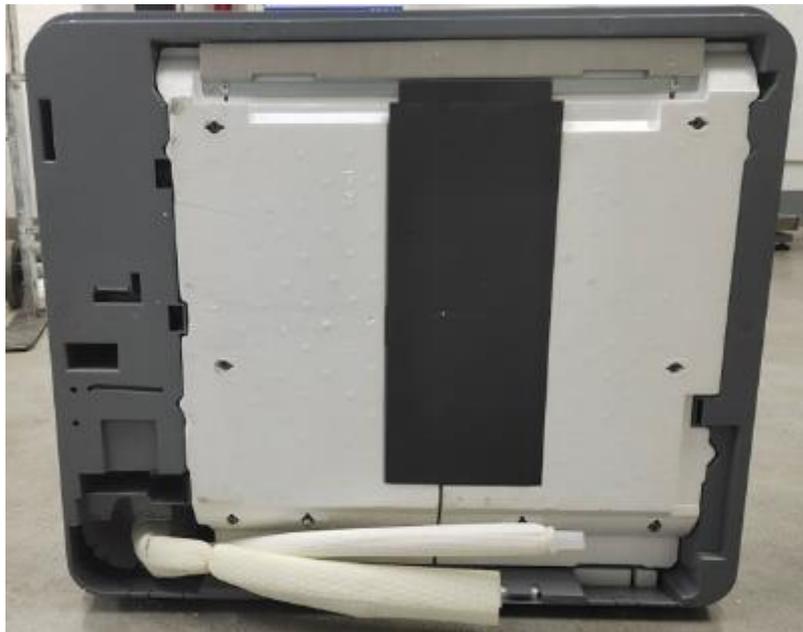
- general
- front
- rear
- right
- left
- top
- bottom



Details of: BRAC-FM-IACO-9-R3-I, BRAC-FM-IACO-12-R3-I, BRAC-FM-IACO-18-R3-I: Bottom view

View:

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



Details of: BRAC-FM-IACO-9-R3-I, BRAC-FM-IACO-12-R3-I, BRAC-FM-IACO-18-R3-I: Front view

View:

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



Details of: BRAC-FM-IACO-9-R3-I, BRAC-FM-IACO-12-R3-I, BRAC-FM-IACO-18-R3-I: Right view

View:

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



Details of: BRAC-FM-IACO-9-R3-I, BRAC-FM-IACO-12-R3-I, BRAC-FM-IACO-18-R3-I: Rear view

View:

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



Details of: BRAC-FM-IACO-9-R3-I, BRAC-FM-IACO-12-R3-I, BRAC-FM-IACO-18-R3-I: Open view

View:

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



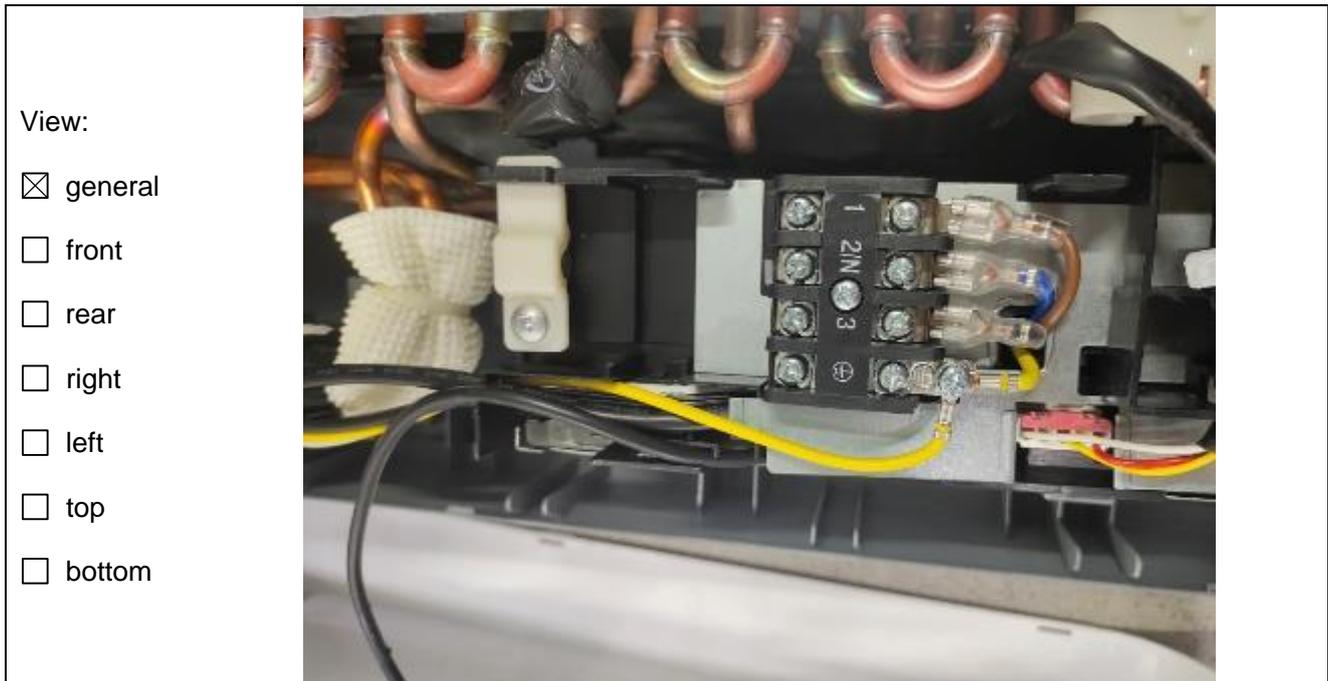
Details of: BRAC-FM-IACO-9-R3-I, BRAC-FM-IACO-12-R3-I, BRAC-FM-IACO-18-R3-I: Open view



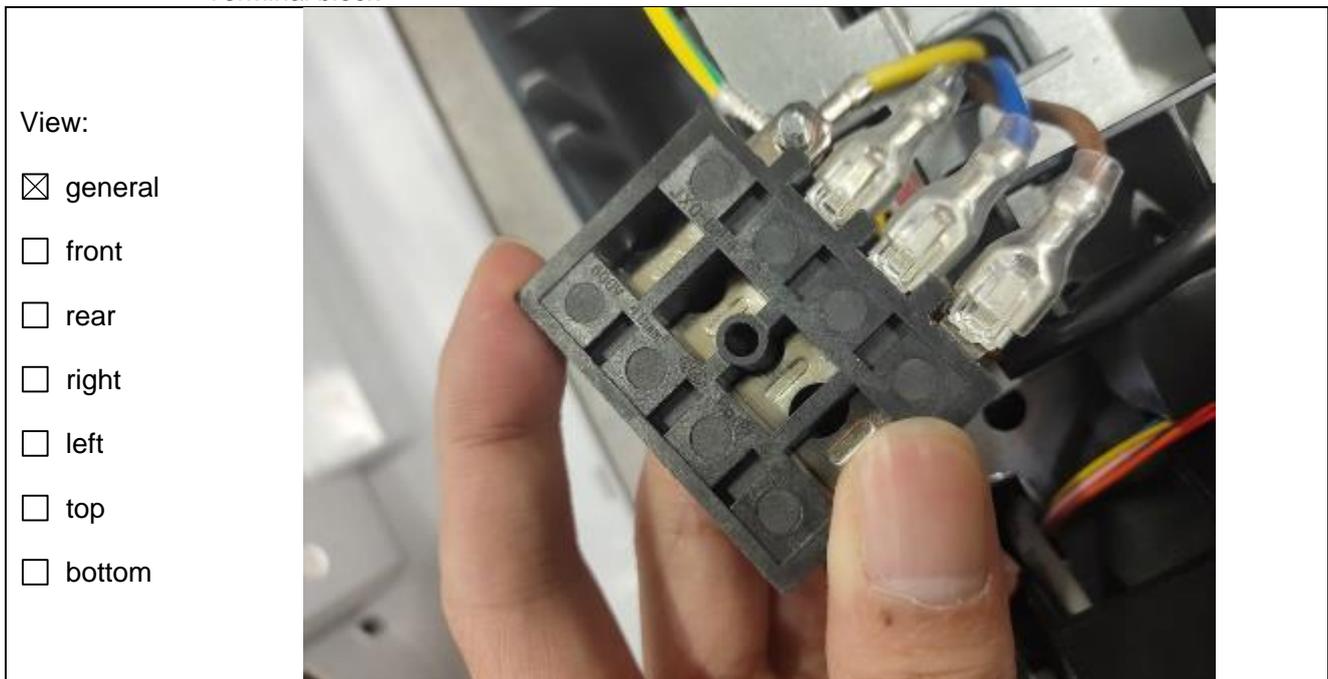
Details of: BRAC-FM-IACO-9-R3-I, BRAC-FM-IACO-12-R3-I, BRAC-FM-IACO-18-R3-I: Open view



Details of: BRAC-FM-IACO-9-R3-I, BRAC-FM-IACO-12-R3-I, BRAC-FM-IACO-18-R3-I: Open view



Details of: BRAC-FM-IACO-9-R3-I, BRAC-FM-IACO-12-R3-I, BRAC-FM-IACO-18-R3-I: Open view
Terminal block



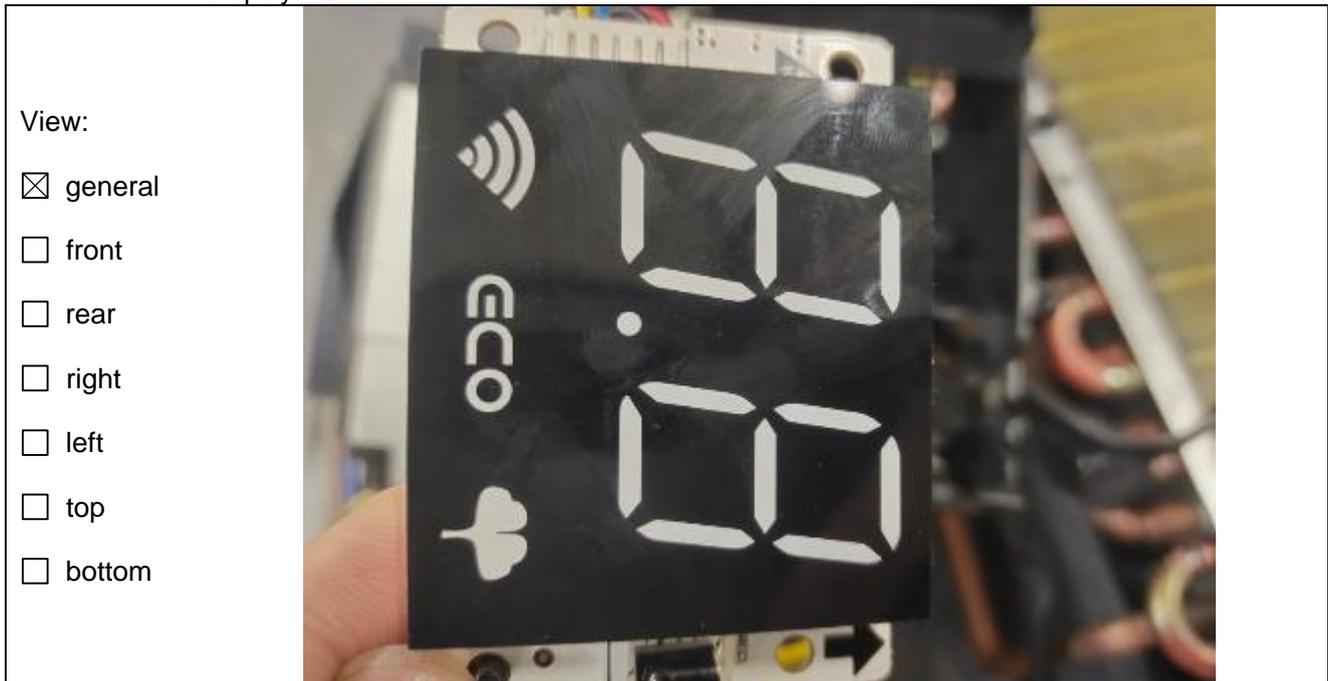
Details of: BRAC-FM-IACO-9-R3-I, BRAC-FM-IACO-12-R3-I, BRAC-FM-IACO-18-R3-I: Open view
Step motor



Details of: BRAC-FM-IACO-9-R3-I, BRAC-FM-IACO-12-R3-I, BRAC-FM-IACO-18-R3-I: Open view
Step motor



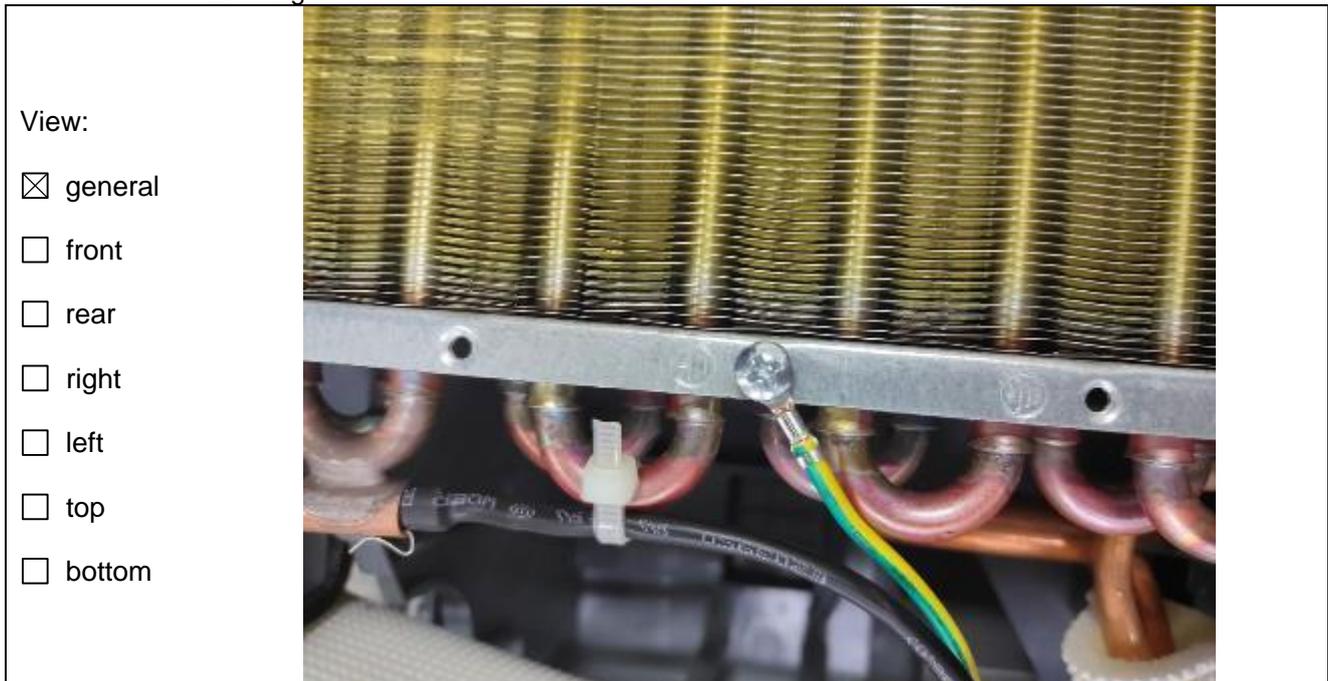
Details of: BRAC-FM-IACO-9-R3-I, BRAC-FM-IACO-12-R3-I, BRAC-FM-IACO-18-R3-I: Open view
Display PCB



Details of: BRAC-FM-IACO-9-R3-I, BRAC-FM-IACO-12-R3-I, BRAC-FM-IACO-18-R3-I: Open view
Display PCB



Details of: BRAC-FM-IACO-9-R3-I, BRAC-FM-IACO-12-R3-I, BRAC-FM-IACO-18-R3-I: Open view
Earthing



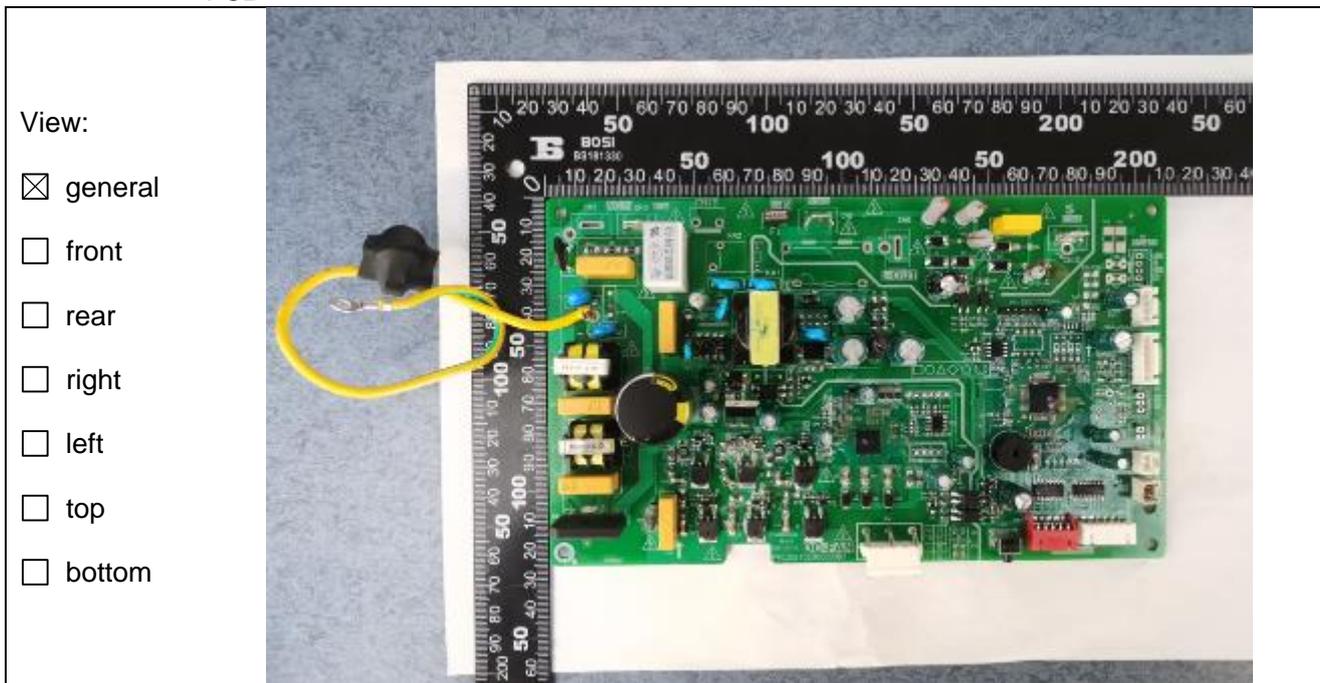
Details of: BRAC-FM-IACO-9-R3-I, BRAC-FM-IACO-12-R3-I, BRAC-FM-IACO-18-R3-I: Open view



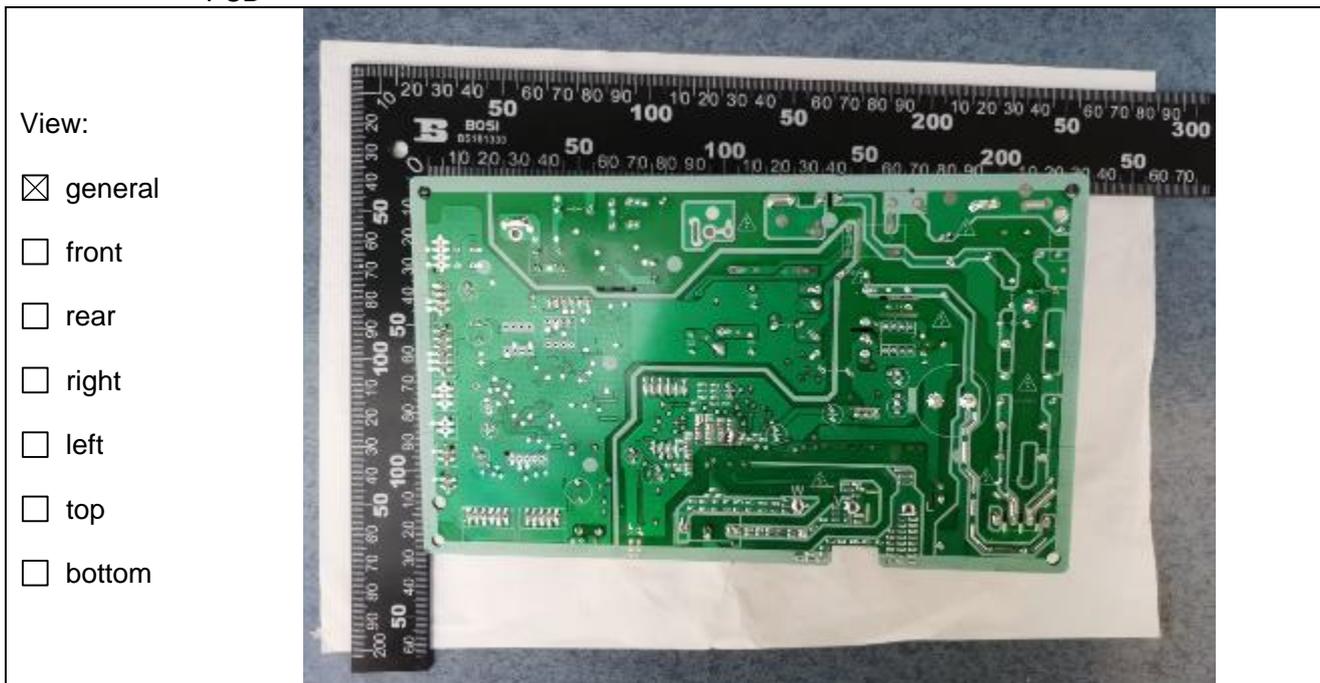
Details of: BRAC-FM-IACO-9-R3-I, BRAC-FM-IACO-12-R3-I, BRAC-FM-IACO-18-R3-I: Open view
PCB box



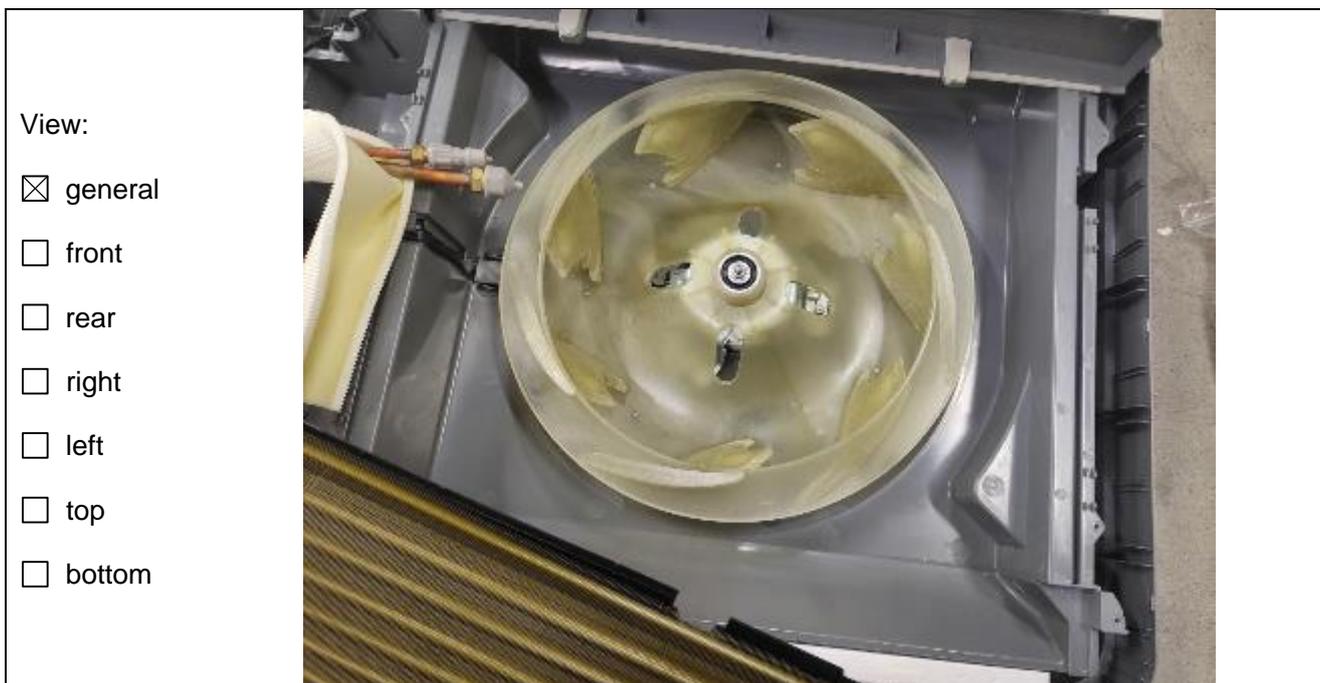
Details of: BRAC-FM-IACO-9-R3-I, BRAC-FM-IACO-12-R3-I, BRAC-FM-IACO-18-R3-I: Open view
PCB



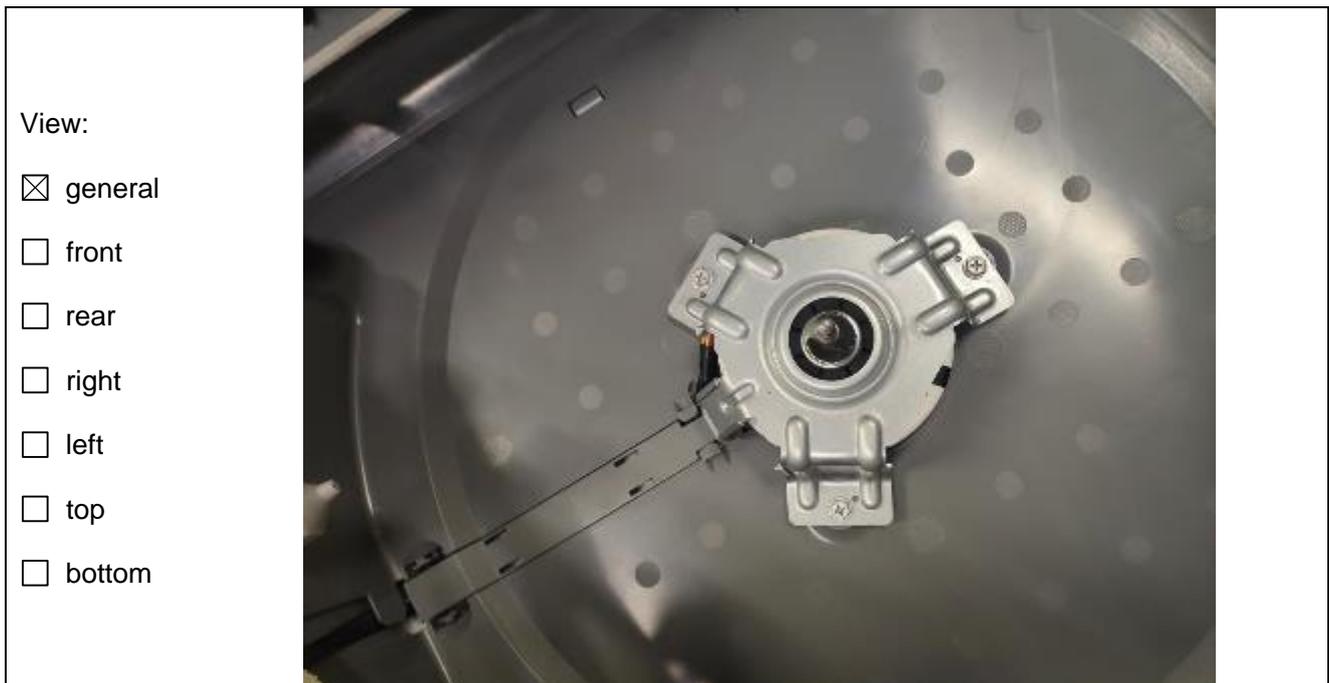
Details of: BRAC-FM-IACO-9-R3-I, BRAC-FM-IACO-12-R3-I, BRAC-FM-IACO-18-R3-I: Open view
PCB



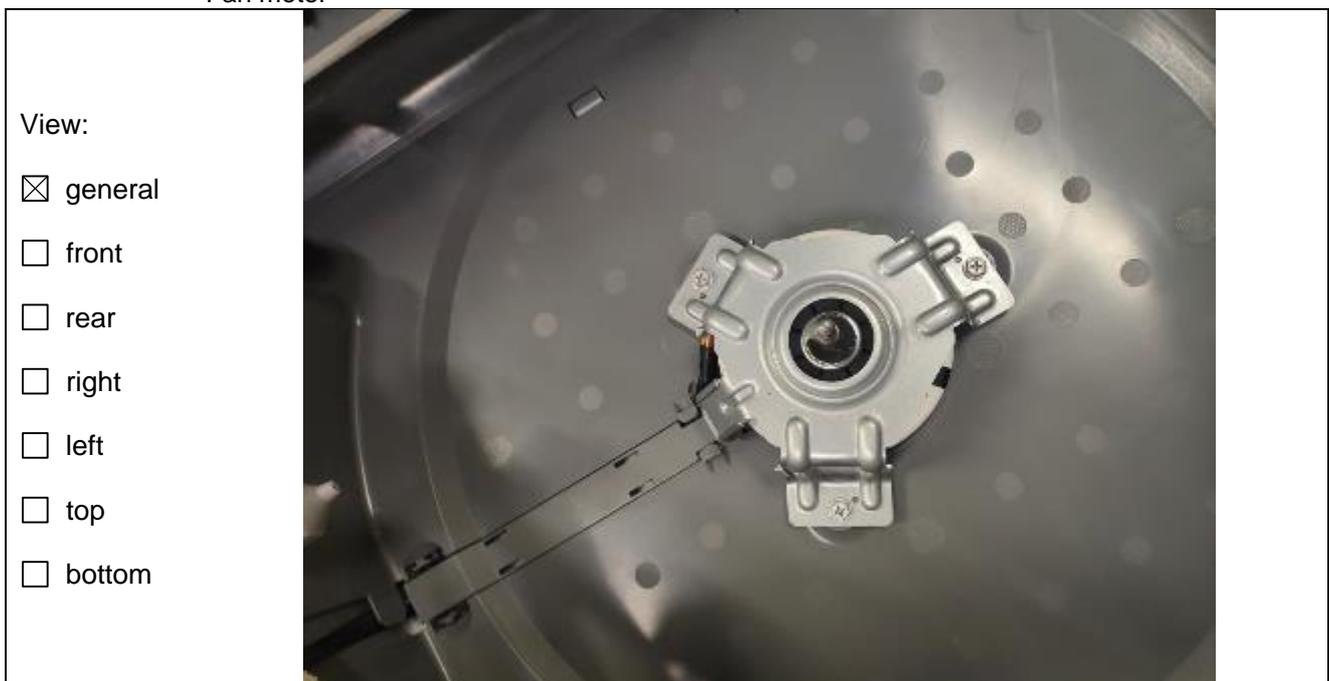
Details of: BRAC-FM-IACO-9-R3-I, BRAC-FM-IACO-12-R3-I, BRAC-FM-IACO-18-R3-I: Open view



Details of: BRAC-FM-IACO-9-R3-I, BRAC-FM-IACO-12-R3-I, BRAC-FM-IACO-18-R3-I: Open view



Details of: BRAC-FM-IACO-9-R3-I, BRAC-FM-IACO-12-R3-I, BRAC-FM-IACO-18-R3-I: Open view
Fan motor



Details of: Front of BRAC-FM-IADU-12-R3-I, BRAC-FM-IADU-18-R3-I



Details of: Rear of BRAC-FM-IADU-12-R3-I, BRAC-FM-IADU-18-R3-I



Details of: Left of BRAC-FM-IADU-12-R3-I, BRAC-FM-IADU-18-R3-I

View:

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



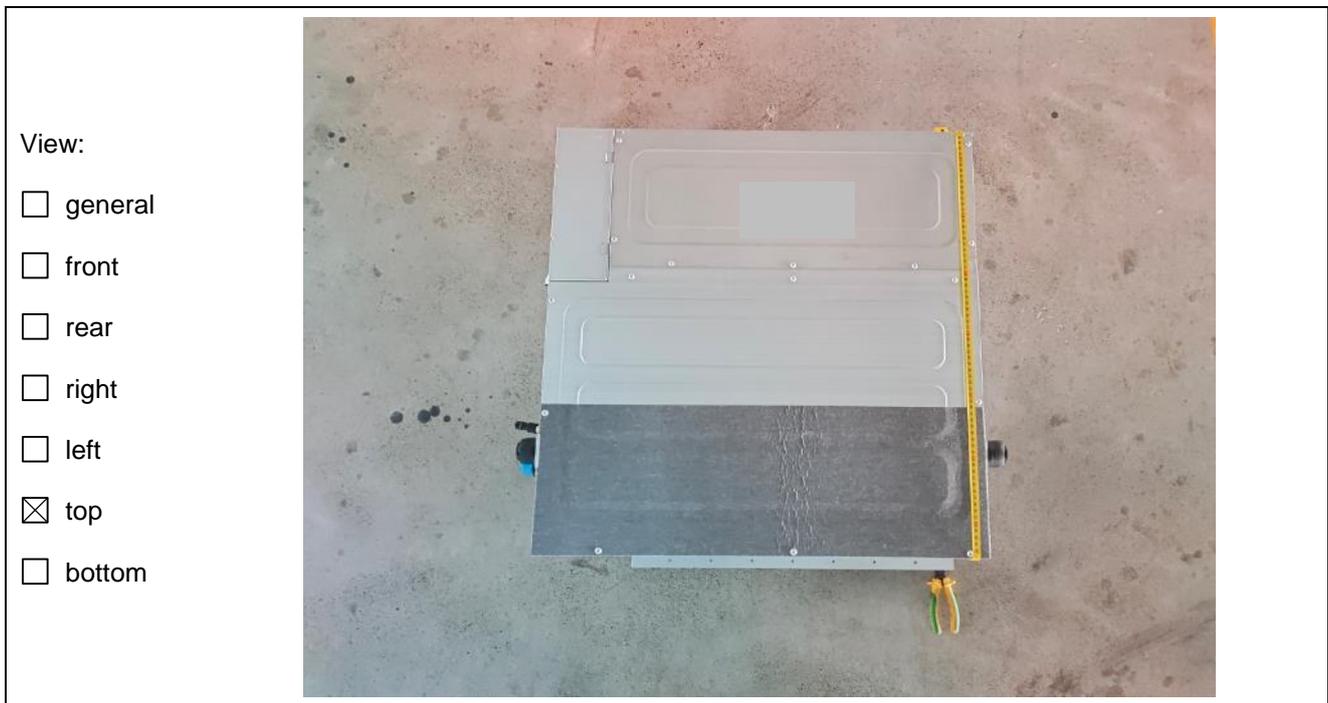
Details of: Right of BRAC-FM-IADU-12-R3-I, BRAC-FM-IADU-18-R3-I

View:

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



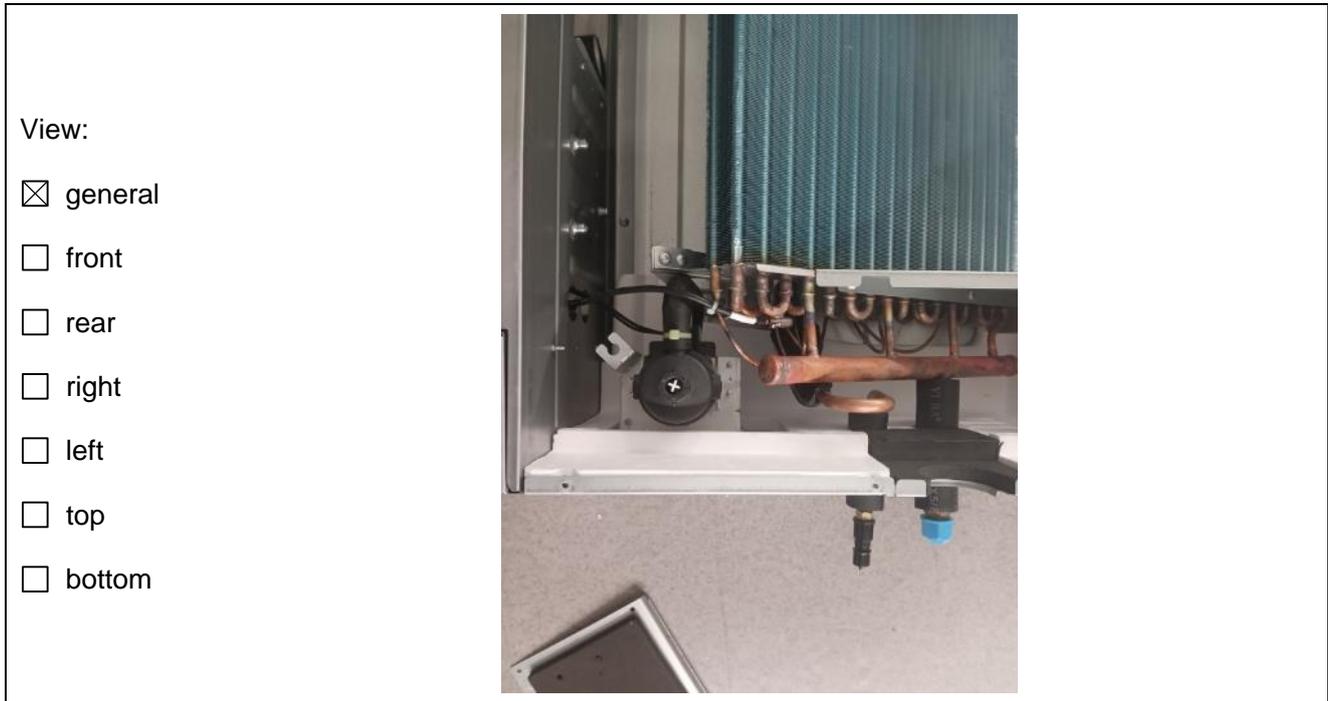
Details of: Top of BRAC-FM-IADU-12-R3-I, BRAC-FM-IADU-18-R3-I



Details of: Bottom view of BRAC-FM-IADU-12-R3-I, BRAC-FM-IADU-18-R3-I



Details of: Open view of BRAC-FM-IADU-12-R3-I, BRAC-FM-IADU-18-R3-I



Details of: Open view of BRAC-FM-IADU-12-R3-I, BRAC-FM-IADU-18-R3-I



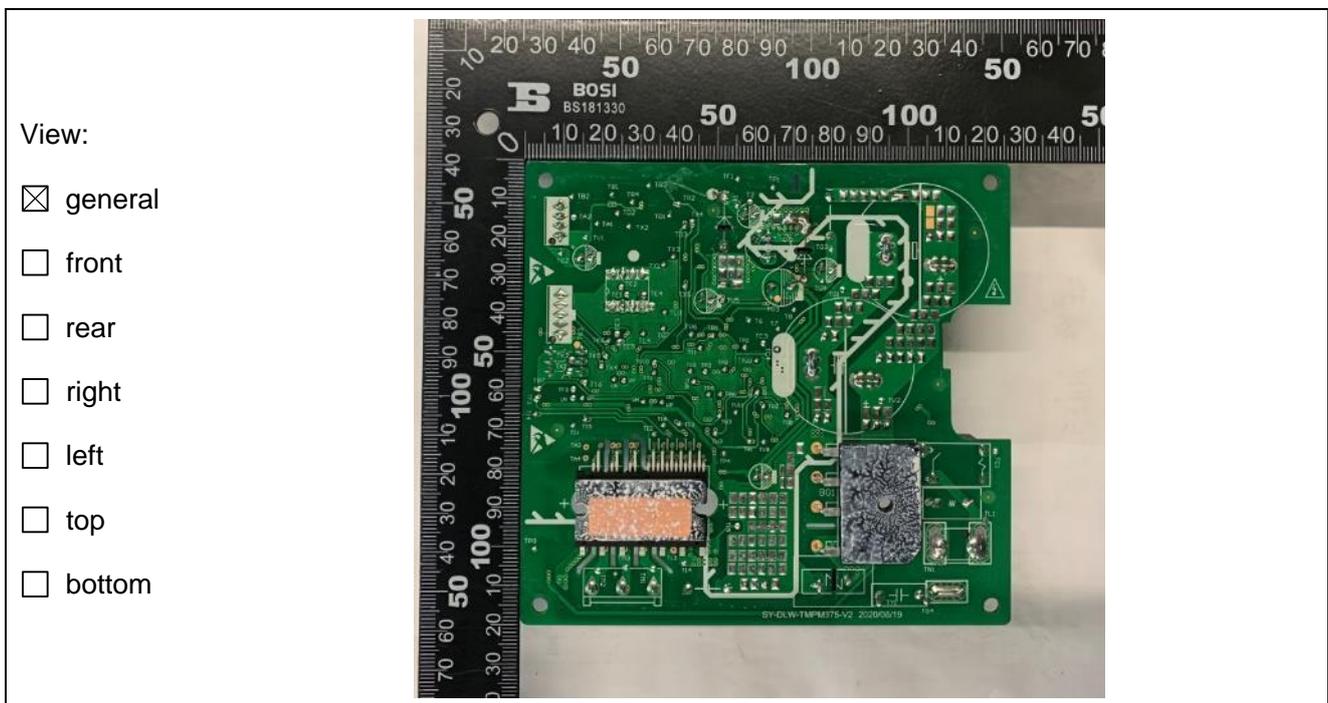
Details of: Open view of BRAC-FM-IADU-12-R3-I, BRAC-FM-IADU-18-R3-I



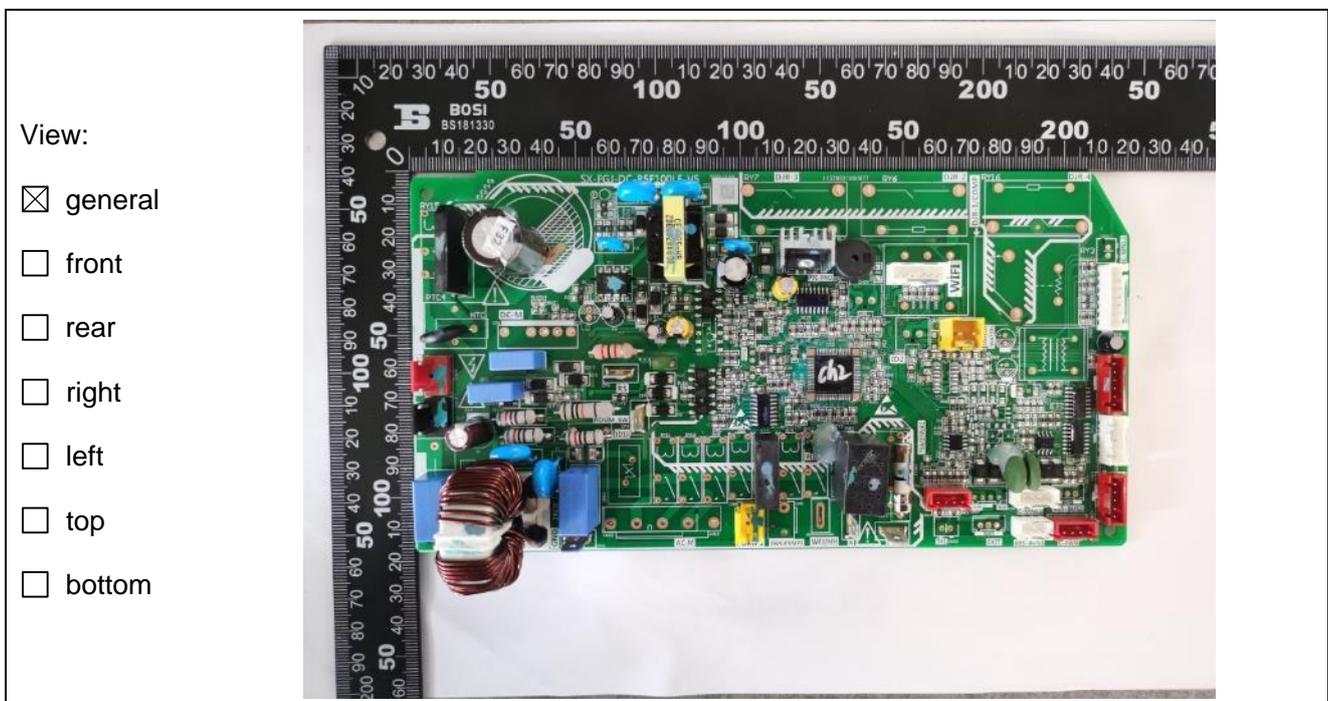
Details of: Open view of BRAC-FM-IADU-12-R3-I, BRAC-FM-IADU-18-R3-I: PCB 1



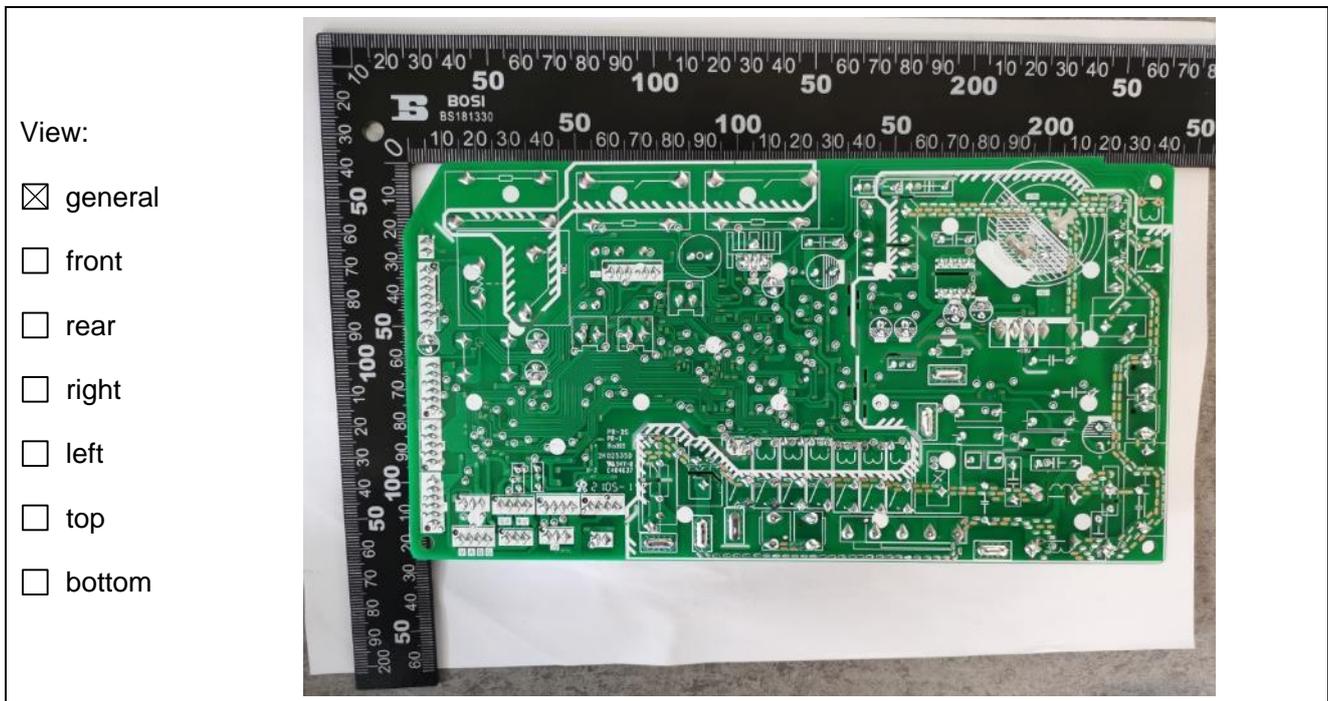
Details of: Open view of BRAC-FM-IADU-12-R3-I, BRAC-FM-IADU-18-R3-I: PCB 1



Details of: Open view of BRAC-FM-IADU-12-R3-I, BRAC-FM-IADU-18-R3-I: PCB 2



Details of: Open view of BRAC-FM-IADU-12-R3-I, BRAC-FM-IADU-18-R3-I: PCB 2



Details of: Front of BRAC-FM-IADU-24-R3-I



Details of: Rear of BRAC-FM-IADU-24-R3-I



Details of: Left of BRAC-FM-IADU-24-R3-I



Details of: Right of BRAC-FM-IADU-24-R3-I

View:

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



Details of: Top of BRAC-FM-IADU-24-R3-I

View:

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



Details of: Bottom view of BRAC-FM-IADU-24-R3-I



Details of: Open view of BRAC-FM-IADU-24-R3-I: fan motor



Details of: Open view of BRAC-FM-IADU-24-R3-I



Details of: BRAC-FM-IASP2-7-R3-I, BRAC-FM-IASP2-9-R3-I and BRAC-FM-IASP2-12-R3-I



Details of: BRAC-FM-IASP2-7-R3-I, BRAC-FM-IASP2-9-R3-I and BRAC-FM-IASP2-12-R3-I

View:

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



Details of: BRAC-FM-IASP2-7-R3-I, BRAC-FM-IASP2-9-R3-I and BRAC-FM-IASP2-12-R3-I

View:

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



Details of: BRAC-FM-IASP2-7-R3-I, BRAC-FM-IASP2-9-R3-I and BRAC-FM-IASP2-12-R3-I

View:

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



Details of: BRAC-FM-IASP2-7-R3-I, BRAC-FM-IASP2-9-R3-I and BRAC-FM-IASP2-12-R3-I

View:

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



Details of: Open view of indoor unit for BRAC-FM-IASP2-7-R3-I, BRAC-FM-IASP2-9-R3-I and BRAC-FM-IASP2-12-R3-I

View:

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



Details of: Open view of indoor unit for BRAC-FM-IASP2-7-R3-I, BRAC-FM-IASP2-9-R3-I and BRAC-FM-IASP2-12-R3-I

View:

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



Details of: Open view of indoor unit for BRAC-FM-IASP2-7-R3-I, BRAC-FM-IASP2-9-R3-I and BRAC-FM-IASP2-12-R3-I

View:

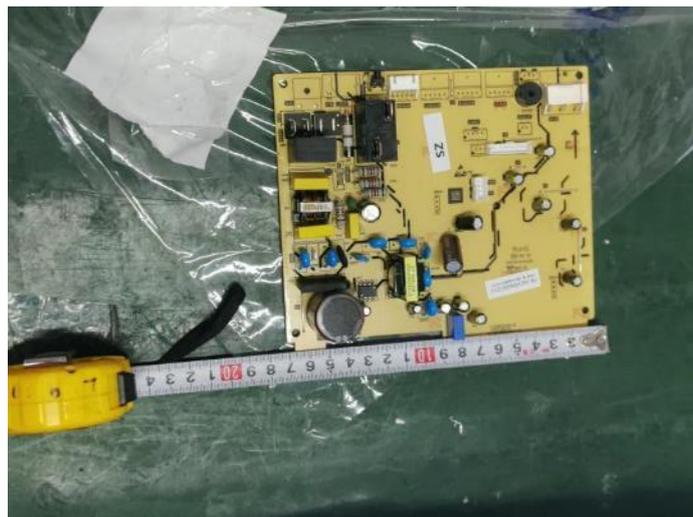
- general
- front
- rear
- right
- left
- top
- bottom



Details of: Open view of indoor unit for BRAC-FM-IASP2-7-R3-I, BRAC-FM-IASP2-9-R3-I and BRAC-FM-IASP2-12-R3-I

View:

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



Details of: Open view of indoor unit for BRAC-FM-IASP2-7-R3-I, BRAC-FM-IASP2-9-R3-I and BRAC-FM-IASP2-12-R3-I

View:

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



Details of: Open view of indoor unit for BRAC-FM-IASP2-7-R3-I, BRAC-FM-IASP2-9-R3-I and BRAC-FM-IASP2-12-R3-I

View:

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



Details of: WiFi module of indoor unit for BRAC-FM-IASP2-7-R3-I, BRAC-FM-IASP2-9-R3-I and BRAC-FM-IASP2-12-R3-I

View:

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



Details of: BRAC-FM-IASP2-18-R3-I

View:

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



Details of: BRAC-FM-IASP2-18-R3-I

View:

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



Details of: BRAC-FM-IASP2-18-R3-I

View:

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



Details of: BRAC-FM-IASP2-18-R3-I

View:

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



Details of: BRAC-FM-IASP2-18-R3-I

View:

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



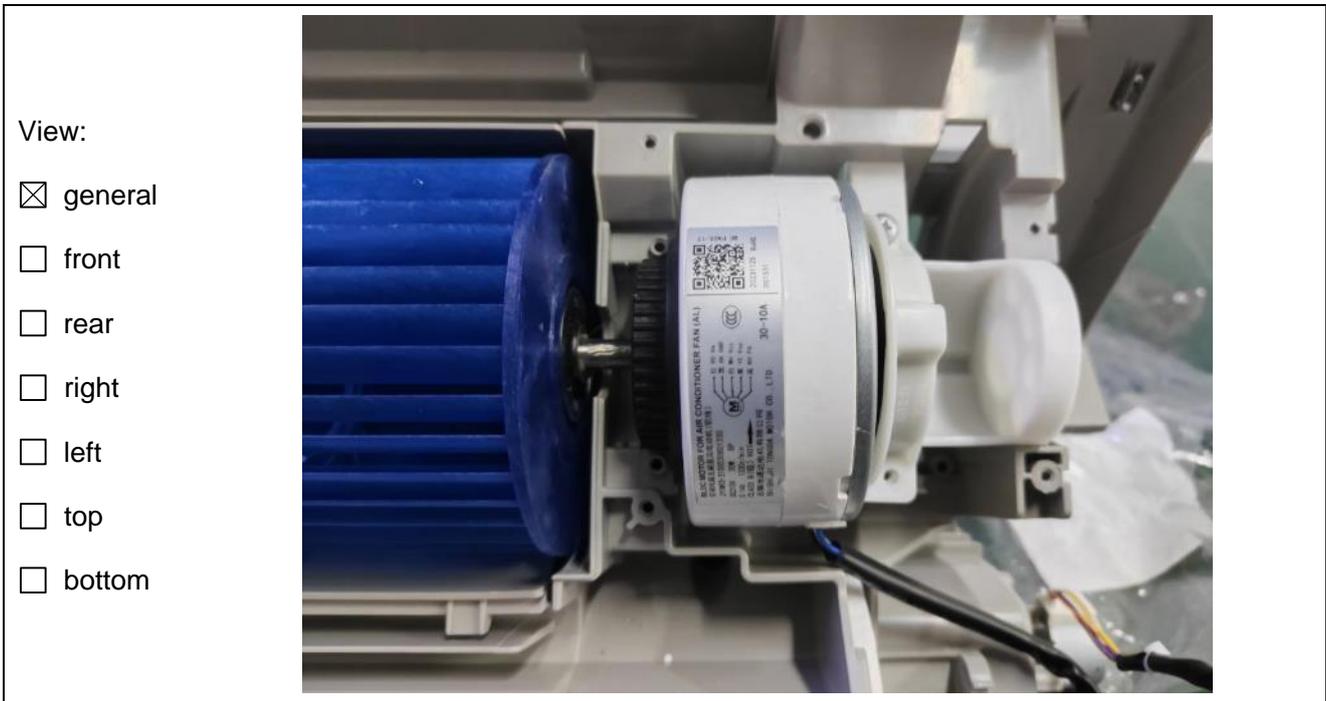
Details of: Open view of indoor unit for BRAC-FM-IASP2-18-R3-I



Details of: Open view of indoor unit for BRAC-FM-IASP2-18-R3-I



Details of: Open view of indoor unit for BRAC-FM-IASP2-18-R3-I



Details of: Open view of indoor unit for BRAC-FM-IASP2-18-R3-I



Details of: Open view of indoor unit for BRAC-FM-IASP2-18-R3-I

View:

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



Details of: Open view of indoor unit for BRAC-FM-IASP2-18-R3-I

View:

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



Details of: WiFi module of indoor unit for BRAC-FM-IASP2-18-R3-I

View:

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



Details of: BRAC-FM-IASP2-24-R3-I

View:

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



Details of: BRAC-FM-IASP2-24-R3-I

View:

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



Details of: BRAC-FM-IASP2-24-R3-I

View:

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



Details of: BRAC-FM-IASP2-24-R3-I

View:

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



Details of: BRAC-FM-IASP2-24-R3-I

View:

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



Details of: Open view of indoor unit for BRAC-FM-IASP2-24-R3-I



Details of: Open view of indoor unit for BRAC-FM-IASP2-24-R3-I



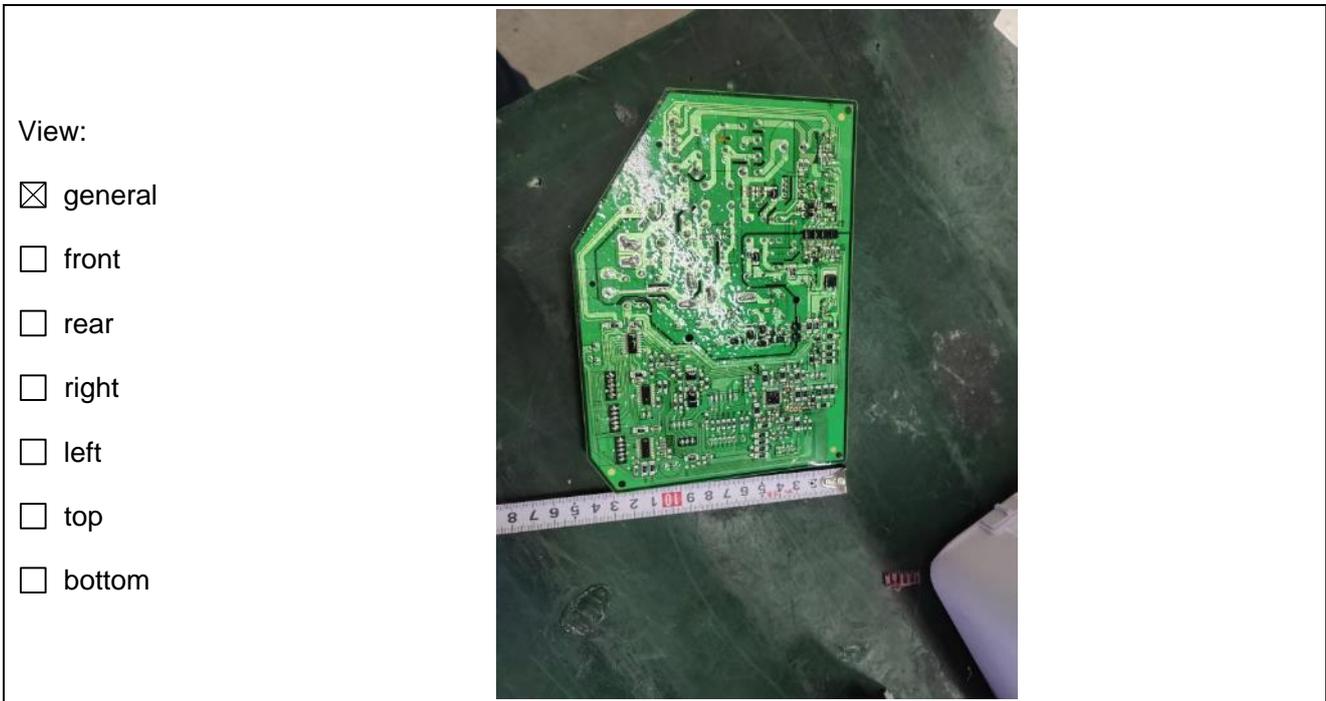
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Details of: Open view of indoor unit for BRAC-FM-IASP2-24-R3-I



Details of: Open view of indoor unit for BRAC-FM-IASP2-24-R3-I



Details of: Open view of indoor unit for BRAC-FM-IASP2-24-R3-I



Details of: WiFi module of indoor unit for BRAC-FM-IASP2-24-R3-I

View:

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



--- End of Attachment 1 ---

Attachment 2: European Group Differences and EMF test			
Clause	Requirement - Test	Result - Remark	Verdict

ATTACHMENT TO TEST REPORT IEC 60335-2-40 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES Part-2-40: Particular requirements for electrical heat pumps, air conditioners and dehumidifiers	
Differences according to :	EN 60335-2-40:2003 (incl. Corr.:2006) + A11:2004 + A12:2005 + A1:2006 + A2:2009 + A13:2012 EN 60335-1:2012
Attachment Form No. :	EU_GD_IEC60335_2_40G
Attachment Originator :	VDE
Master Attachment :	2013-05
Copyright © 2013 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved.	
Remark: EN 62233: 2008 was listed in the last page as appendix. EN 60335-1: 2012/A11: 2014 was evaluated.	

CENELEC COMMON MODIFICATIONS			
6.1	Delete "class 0" and "class 01"		P
7.1	Single-phase appliances to be connected to the supply mains: 230 V covered	220 V - 240 V~	P
	Multi-phase appliances to be connected to the supply mains: 400 V covered		N/A
7.10	Devices used to start/stop operational functions of the appliance distinguished from other manual devices by means of shape, size, surface texture, position, etc.		P
	An indication that the device has been operated is given by:		—
	- a tactile feedback, or		P
	- an audible and visual feedback		P
7.12	The instructions include the substance of the following:		—
	- this appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved		P
	- children shall not play with the appliance		P
	- cleaning and user maintenance shall not be made by children without supervision		P

Attachment 2: European Group Differences and EMF test			
Clause	Requirement - Test	Result - Remark	Verdict
7.12.1	Installation instructions for appliances intended to be permanently connected to fixed wiring, and have leakage current exceed 10 mA, state that installation of residual current device (RCD) having rated residual operating current not exceeding 30 mA is advisable (EN 60335-2-40)		P
	For appliances not accessible to the general public and which are intended to be permanently connected to fixed wiring and which may have leakage currents exceeding 10 mA, the installation instructions shall specify the rating of the residual current device (RCD) to be installed (EN 60335-2-40/A12)		N/A
7.12.Z1	The specific instructions related to the safe operation of this appliance is collated together in the front section of the user instructions		P
	The height of the characters, measured on the capital letters, is at least 3 mm		P
	These instructions are also available in an alternative format, e.g. on a website		P
8.1.1	Also test probe 18 of EN 61032 is applied		P
	The appliance being in every possible position during the test		P
	The force on the probe in the straight position is increased to 10 N when probe 18 is used		P
	When using test probe 18 the appliance is fully assembled as in normal use without any parts removed, and		P
	parts intended to be removed for user maintenance are also not removed		P
8.2	Compliance is checked by applying the test probes of EN 61032		P
	For built-in appliances and fixed appliances, the test probe B and probe 18 of EN 61032 are applied only after installation		N/A
11.8	Footnotes to "External enclosure of motor-operated appliances" to be taken into account		P
13.2	Leakage current measurements (EN 60335-2-40)	(See appended table)	P
15.1.2	Appliances with an automatic cord reel tested with the cord in the most unfavourable position so that the reeling of the wet cord may affect electrical insulation during operation, the cord not being dried before reeling		N/A

Attachment 2: European Group Differences and EMF test			
Clause	Requirement - Test	Result - Remark	Verdict
15.2	Drain pan filled to brim and subjected to continuous overflow and fan(s) switched on (EN 60335-2-40)		N/A
16.2	Leakage current measurements (EN 60335-2-40)	(See appended table)	P
20.2	When using the test probe similar to test probe B with a circular stop face, the accessories and detachable covers are removed		P
	Test probe 18 applied with a force of 2,5 N on the appliance fully assembled		P
24.1	Components comply with the safety requirements specified in the relevant standards as far as they reasonably apply		P
	The requirements of clause 29 of this standard apply between live parts of components and accessible parts of the appliance.		P
	The requirements of 30.2 of this standard apply to parts of non-metallic material in components including parts of non-metallic material supporting current-carrying connections inside components		P
	Components that have not been previously tested or do not comply with the standard for the relevant component are tested according to the requirements of 30.2		P
	Components that have been previously tested and shown to comply with the resistance to fire requirements in the standard for the relevant component need not be retested provided that:		—
	- the severity specified in the component standard is not less than the severity specified in 30.2, and		N/A
	- the test report for the component states whether it complied with the standard for the relevant component with or without flame, flames not exceeding 2 s during the test are ignored		N/A
	Unless components have been previously tested and found to comply with the relevant standard for the number of cycles specified, they are tested in accordance with 24.1.1 to 24.1.9		N/A
	For components mentioned in 24.1.1 to 24.1.9, no additional tests specified in the relevant standard for the component are necessary other than those specified in 24.1.1 to 24.1.9		P
	Components that have not been separately tested and found to comply with the relevant standard, and		N/A
	components that are not marked or not used in accordance with their marking,		N/A

Attachment 2: European Group Differences and EMF test			
Clause	Requirement - Test	Result - Remark	Verdict
	are tested in accordance with the conditions occurring in the appliance, the number of samples being that required by the relevant standard		N/A
	Lamp holders and starter holders that have not been previously tested and found to comply with the relevant standard are tested as a part of the appliance and additionally comply with the gauging and interchangeability requirements of the relevant standard under the conditions occurring in the appliance		N/A
	Where the relevant standard specifies these gauging and interchangeability requirements at elevated temperatures, the temperatures measured during the tests of clause 11 are used		N/A
	Plugs and socket-outlets and other connecting devices of interconnection cords are not interchangeable with plugs and socket-outlets listed in IEC/TR 60083 or IEC 60906-1, or		P
	with connectors and appliance inlets complying with the standard sheets of IEC 60320-1,		N/A
	if direct supply to these parts from the supply mains gives rise to a hazard		N/A
24.1.7	If the remote operation of the appliance is via a telecommunication network, the relevant standard for the telecommunication interface circuitry in the appliance is EN 41003		N/A
	Compliance with clause 8 of this standard is not impaired by connecting the appliance to a device covered by EN 41003		N/A
24.Z1	For motor running capacitors (IEC 60252-1 type P2) with a metallic enclosure having an overpressure fuse the flame testing of internal plastic parts supporting current carrying connections as required in 30.2.2 and 30.2.3.1 is not necessary		N/A
25.6	Supply cords of single-phase portable appliances having a rated current not exceeding 16 A, fitted with a plug complying with the following standard sheets of IEC/TR 60083:		—
	- for class I appliances: standard sheet C2b, C3b or C4		N/A
	- for class II appliances: standard sheet C5 or C6		N/A
25.7	Rubber sheathed cords (60245 IEC 53) are not suitable for appliances intended to be used outdoors or when they are liable to be exposed to significant amount of ultraviolet radiation		P

Attachment 2: European Group Differences and EMF test			
Clause	Requirement - Test	Result - Remark	Verdict
	Halogen-free thermoplastic compound sheathed supply cords have properties at least those of:		—
	- 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
26.11	Conductors connected by soldering are not considered to be positioned or fixed so that reliance is not placed upon the soldering alone to maintain them in position unless they are held in place near the terminals independently of the solder		N/A
29.3.Z1	Appliance constructed so that if there is a possibility of damaging the insulation during installation, the insulation withstands the scratch and penetration test of 21.2		N/A
32	Compliance regarding electromagnetic fields is checked according to EN 62233		P
GG.2	Requirements for charge limits in unventilated areas (EN 60335-2-40/A1)		N/A
GG.Z1	Non fixed factory sealed single package units with a charge amount of $m_1 < M \leq 2 \times m_1$ (EN 60335-2-40/A1)		N/A
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 the test is as specified in 19.7		N/A
ZA	ANNEX ZA (NORMATIVE) SPECIAL NATIONAL CONDITIONS		—
	Norway		—
19.5	The test is also applicable to appliances intended to be permanently connected to fixed wiring		N/A
	Norway		—

Attachment 2: European Group Differences and EMF test			
Clause	Requirement - Test	Result - Remark	Verdict
22.2	The second paragraph of this subclause, dealing with single-phase, permanently connected class I appliances having heating elements, is not applicable due to the supply system		N/A
	All CENELEC countries		—
25.6 and 25.25	Information concerning National plug and socket-outlets is available from the CENELEC website. Normative national requirements concerning plug and socket-outlets are shown in the relevant National standard		N/A
	Ireland and United Kingdom		—
25.8	In the table, the lines for 10 A and 16 A are replaced by:		—
	> 10 and ≤ 13 1,25		N/A
	> 13 and ≤ 16 1,5		N/A
ZB	ANNEX ZB (INFORMATIVE) A-DEVIATIONS		—
	Ireland		—
25.6	These regulations apply to all plugs for domestic use at a voltage of not less than 200 V and in general allow only plugs complying with I.S. 401:1997, or equivalent, to be fitted to domestic appliances		N/A
	United Kingdom		—
25.6	These regulations apply to all plugs for domestic use at a voltage of not less than 200 V and in general allow only plugs to BS 1363 to be fitted to domestic appliances. It also allows plugs to BS 4573 and EN 50075 to be fitted to shavers and toothbrushes		N/A
ZC	ANNEX ZC (NORMATIVE) NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH THEIR CORRESPONDING EUROPEAN PUBLICATIONS		—
	A list of referenced documents in this standard		N/A

Attachment 2: European Group Differences and EMF test			
Clause	Requirement - Test	Result - Remark	Verdict

ZD	ANNEX ZD (INFORMATIVE) IEC and CENELEC CODE DESIGNATIONS FOR FLEXIBLE CORDS		—
	A table with IEC and CENELEC code designations for flexible cords		P
ZE	ANNEX ZE (INFORMATIVE) SPECIFIC ADDITIONAL REQUIREMENTS FOR APPLIANCES AND MACHINES INTENDED FOR COMMERCIAL USE		—
7.1	Business name and full address of the manufacturer and, where applicable, his authorized representative.....:		N/A
	Model or type reference		N/A
	Serial number, if any		N/A
	Production year		N/A
	Designation of the appliance		N/A
7.12	Instructions provided with the appliance so that the appliance can be used safely		N/A
	The instructions contain at least the following information:		—
	- 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 if 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

Attachment 2: European Group Differences and EMF test			
Clause	Requirement - Test	Result - Remark	Verdict
	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		N/A
	"This appliance is intended to be used by expert or trained users in shops, in light industry and on farms, or for commercial use by lay persons". (EN 60335-2-40/A13)		N/A
7.12.Z1	Replace in the sixth dashed item: - the words "the relevant Part 2" by "Annex ZAB" (EN 60335-2-40/A13)		N/A
	Replace the first sub dashed item by: - the A-weighted emission sound pressure level at workstations, where this exceeds 70 dB(A). If the A-weighted sound pressure level is below 70 dB, no value needs to be given, but the instructions shall state that the A-weighted sound pressure level is below 70 dB. (EN 60335-2-40/A13)		N/A
7.12.ZE1	If needed for specific appliances, the following information to be given:		—
	- 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

Attachment 2: European Group Differences and EMF test			
Clause	Requirement - Test	Result - Remark	Verdict
	- 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 declared in accordance with the relevant Part 2, which includes:		—
	- 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 includes a warning to disconnect the appliance from its power source during service and when replacing parts		N/A
	If the removal of the plug is foreseen, it is clearly indicated that the removal of the plug has to be such that an operator can check from any of the points to which he has access that the plug remains removed		N/A
	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		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		N/A
	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		N/A

Attachment 2: European Group Differences and EMF test			
Clause	Requirement - Test	Result - Remark	Verdict
	When guards are used, they are fixed guards, interlocking movable guards or protective devices		N/A
	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
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

Attachment 2: European Group Differences and EMF test			
Clause	Requirement - Test	Result - Remark	Verdict
	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:		—
	- 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
	they are designed and constructed in such a way that they can be adjusted only by means of an intentional action		N/A
	Replace the tenth paragraph by: The guard is opened at the extent needed to cause the interlocking to operate and is then closed. This operation is carried out for 5 000 cycles at a rate of 5 cycles per min. (EN 60335-2-40/A13)		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

Attachment 2: European Group Differences and EMF test			
Clause	Requirement - Test	Result - Remark	Verdict
	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 moving parts strictly necessary for the work are:		—
	- 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 PRODUCTS COVERED BY STANDARDS IN THE EN 60335 SERIES UNDER LVD OR MD		—
	List of standards under CENELEC/TC61 with the allocation under the LVD (Low Voltage Directive) or the MD (Machinery Directive).....	LVD	N/A
ZG	ANNEX ZG (NORMATIVE) UV APPLIANCES		—

Attachment 2: European Group Differences and EMF test			
Clause	Requirement - Test	Result - Remark	Verdict
	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
ZZ	ANNEX ZZ (INFORMATIVE) COVERAGE OF ESSENTIAL REQUIREMENTS OF EC DIRECTIVES		—
	Description of the relation between this European standard and the LVD (Low Voltage Directive, 2006/95/EC) and the MD (Machinery Directive, 2006/42/EC)		N/A
ZAA	ANNEX ZAA (INFORMATIVE) (EN 60335-2-40/A11) THE RELEVANCE OF THE PRESSURE EQUIPMENT DIRECTIVE		—
	Refrigerating systems having a pressure greater than 0,05 MPa are considered to be assemblies falling within the scope of the Pressure Equipment Directive, 97/23/EC. However, according to Article 1, item 3.6 of the directive, equipment classified no higher than category I and covered by the low voltage directive is excluded from its scope. (EN 60335-2-40/A11)		N/A
	According to guideline 1/39 of the directive, this exclusion applies to both components and assemblies (refrigerant circuits). This applies to appliances containing vessels (e.g. compressors, receivers) or piping with limits in accordance with the following (EN 60335-2-40/A11):		N/A
	Vessels (EN 60335-2-40/A11)		—
	- dangerous refrigerants (Annex II, Table 1) (EN 60335-2-40/A11):		—
	- volume not exceeding 1 l, or (EN 60335-2-40/A11)		N/A
	- pressure x volume not exceeding 5 MPa l (EN 60335-2-40/A11)		N/A
	- non-dangerous refrigerants (Annex II, Table 2) (EN 60335-2-40/A11):		—

Attachment 2: European Group Differences and EMF test			
Clause	Requirement - Test	Result - Remark	Verdict
	- volume not exceeding 1 l, or (EN 60335-2-40/A11)		N/A
	- pressure x volume not exceeding 20 MPa l (EN 60335-2-40/A11)		N/A
	Piping (EN 60335-2-40/A11)		—
	- dangerous refrigerants (Annex II, Table 6) (EN 60335-2-40/A11):		—
	- numerical designation not exceeding 25, or (EN 60335-2-40/A11)		N/A
	- pressure not exceeding 1 MPa and numerical designation not exceeding 100, or (EN 60335-2-40/A11)		N/A
	- pressure exceeding 1 MPa and pressure x numerical designation not exceeding 100 MPa (EN 60335-2-40/A11).		N/A
	- non-dangerous refrigerants (Annex II, Table 7) (EN 60335-2-40/A11):		—
	- numerical designation not exceeding 100, or (EN 60335-2-40/A11)		N/A
	- pressure x numerical designation not exceeding 350 MPa (EN 60335-2-40/A11).		P
	For other components, the most onerous limit of the two applies (EN 60335-2-40/A11)		N/A
	The volume is the internal volume of the vessel and includes the volume of pipework up to the first connection. It excludes the volume of fixed internal parts (EN 60335-2-40/A11)		N/A
	The pressure is the maximum pressure the vessel or piping system is exposed to, as specified by the manufacturer of the appliance (EN 60335-2-40/A11)		N/A
	The numerical designation designates the size common to all components in the piping system (EN 60335-2-40/A11)		N/A
	If any component exceeds the limits given above, the appliance has to comply with the directive. The technical requirements are given in Annex I and the conformity assessment tables and procedures in Annexes II and III of the directive (EN 60335-2-40/A11)		N/A
	Commonly used dangerous refrigerants, identified as Group 1 in the directive, are listed in table ZAA.1 (EN 60335-2-40/A11)		N/A
	Commonly used non-dangerous refrigerants, identified as Group 2 in the directive, are listed in table ZAA.2 (EN 60335-2-40/A11)		N/A

Attachment 2: European Group Differences and EMF test			
Clause	Requirement - Test	Result - Remark	Verdict

ZAB	ANNEX ZAA (NORMATIVE) (EN 60335-2-40/A13) EMISSION OF ACOUSTICAL NOISE FROM APPLIANCES COVERED BY ANNEX ZE		—
ZAB.1	Noise reduction is an integral part of the design process and achieved by particularly applying measures at source to control noise, see for example EN ISO 11688-1. (EN 60335-2-40/A13)		N/A
	Success of the applied noise reduction measures is assessed on the basis of the actual noise emission values in relation to other machines of the same type with comparable non-acoustical technical data. (EN 60335-2-40/A13)		N/A
ZAB.2.1	A-weighted emission sound pressure level determined in accordance with EN 11203:2009, 6.2.3 d) with the surface S being the measurement surface used for the sound power level determination. (EN 60335-2-40/A13)		N/A
	If the sound power level determination is based on a measurement method requiring a reverberant sound field, the surface S to define Q, shall be a parallelepiped measurement surface at a distance of 1 m from the reference box enclosing the source and assuming only one reflecting surface. (EN 60335-2-40/A13)		N/A
ZAB.2.2	A-weighted sound power level determined in accordance with EN 12102 applying a measurement method of at least grade 2. (EN 60335-2-40/A13)		N/A
	If a grade 3 measurement method used for determining the A-weighted sound power level, the reasons are explicitly mentioned (EN 60335-2-40/A13)		N/A
ZAB.2.3	Total measurement uncertainty is depending on the standard deviation of reproducibility σ_{R0} of the measurement method and the standard deviation σ_{omc} representing the instability of the operating and mounting conditions. (EN 60335-2-40/A13)		N/A
	σ_{R0} has an upper value for a grade 2 measurement method of about 1,5 dB, whereas σ_{omc} may have values between 0,5 dB for small variations of the sound power due on the mounting and operating conditions or 4 dB for very instable sources (EN 60335-2-40/A13)		N/A
	Total measurement uncertainty for the A-weighted emission sound pressure level is of the same order as the one for the respective sound power level measurement. (EN 60335-2-40/A13)		N/A

Attachment 2: European Group Differences and EMF test			
Clause	Requirement - Test	Result - Remark	Verdict
ZAB.2.4	Information to be recorded covers all the technical requirements of this noise test code. (EN 60335-2-40/A13)		N/A
	Any deviations from this noise test code or from the basic standards upon which it is based are to be recorded together with the technical justification for such deviations. (EN 60335-2-40/A13)		N/A
ZAB.2.5	Information to be given in the test report includes : (EN 60335-2-40/A13)		N/A
	- the data required by the manufacturer for inclusion in the noise declaration,. (EN 60335-2-40/A13)		N/A
	- the data required by the user to verify the declared values. (EN 60335-2-40/A13)		N/A
	Thus the following information shall be included...: (EN 60335-2-40/A13)		N/A
	- reference to the noise test code and the basic noise emission standards used; (EN 60335-2-40/A13)		N/A
	- description of the installation and operation conditions used; (EN 60335-2-40/A13)		N/A
	- location of the work station(s) and other specified positions; (EN 60335-2-40/A13)		N/A
	- the noise emission values obtained (EN 60335-2-40/A13)		N/A
	Test report states that all requirements of the noise test code have been fulfilled, or, if this is not the case, it shall identify any unfulfilled requirements. (EN 60335-2-40/A13)		N/A
	Deviations from the requirements stated and a technical justification for these deviations shall be given. (EN 60335-2-40/A13)		N/A
ZAB.2.6	Noise emission declaration is made according to EN ISO 4871 (EN 60335-2-40/A13)		N/A
	Emission sound pressure level L_{pA} is made as a dual number noise emission declaration, thus declaring the determined value for L_{pA} and the respective uncertainty K_{pA} . (EN 60335-2-40/A13)		N/A
	Sound power level L_{WA} is declared as single number noise emission declaration declaring the sum of the measured sound power level and its uncertainty K_{WA} . (EN 60335-2-40/A13)		N/A
	Noise declaration states that the noise emission values have been obtained according to this noise test code. (EN 60335-2-40/A13)		N/A

Attachment 2: European Group Differences and EMF test			
Clause	Requirement - Test	Result - Remark	Verdict
	Any deviations from this noise test code or from the basic standards upon which it is based are clearly indicated. (EN 60335-2-40/A13)		N/A
	Additional noise emission values are given in the declaration. (EN 60335-2-40/A13)		N/A
	If undertaken, verification of the noise emission values shall be conducted according to EN ISO 4871, using the same mounting and operating conditions as those used for the initial determination. (EN 60335-2-40/A13)		N/A

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.:5,3 %	P

*** End of attachment 2 ***

IEC 60335_1Y - ATTACHMENT			
Clause	Requirement - Test	Result - Remark	Verdict

**ATTACHMENT TO TEST REPORT IEC 60335-1
EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES**

Household and similar electrical appliances – Safety –
Part 1: GENERAL REQUIREMENTS

Differences according to: EN 60335-1:2012 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2:2019 + A15: 2021+ A16: 2023
EN 62233:2008

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5	General conditions for the tests		—
5.10	Add the following as a new second paragraph		—
	A Class III construction part of appliance is tested connected to its detachable power supply part taking into account the instructions provided with the appliance.		N/A
5.17	Replace the existing text by the following:		—
	Appliances powered by rechargeable batteries that are recharged in the appliance are tested in accordance with Annex B.		N/A
	Battery-operated appliances powered by batteries that are non-rechargeable or not recharged in the appliance are tested in accordance with Annex S.		N/A
6	Classification		—
6.1	Add the following to requirement as a new second paragraph		—
	If an appliance consists of a part of class III construction and a detachable power supply part, the complete appliance is classified as a class I appliance or class II appliance in accordance with the classification applicable to its detachable power supply part.		N/A
7	Marking and instructions		—
7.1	Replace the last dashed item in the first paragraph by the following:		—
	– symbol IEC 60417-5180 (2003-02), for class III appliances. This marking is not necessary for appliances operated only by batteries (primary batteries or secondary batteries recharged outside of the appliance) or appliances powered by rechargeable batteries recharged in the appliance.		N/A
	Add the following new paragraph after Note 4:		—
	Class II appliances and class III appliances incorporating a functional earth shall be marked with the symbol IEC 60417-5018 (2011-07).		N/A

IEC 60335_1Y - ATTACHMENT			
Clause	Requirement - Test	Result - Remark	Verdict
7.3	In Note 3, replace the text of the example by the following		—
	EXAMPLE: 230 V~/400 V 3N~: The appliance is only suitable for the voltage values indicated, 230 V~ being for single-phase, a.c. operation and 400 V 3N~ for three-phase, a.c. with neutral operation (an appliance with terminals for both supplies).		—
7.4	Replace the requirement by the following:		—
	If the appliance can be adjusted for different rated voltages or rated frequencies, the voltage or the frequency to which the appliance is adjusted shall be clearly discernible. If frequent changes in voltage setting or frequency setting are not required, this requirement is considered to be met if the rated voltage or rated frequency to which the appliance is to be adjusted can be determined from a wiring diagram fixed to the appliance.		N/A
7.6	Replace [symbol ISO 7000-0434 (2004-01)] by [symbol ISO 7000-0434A (2004-01)]		—
7.8	Add the following to the first paragraph of the requirement:		—
	– functional earthing terminals shall be indicated by symbol IEC 60417-5018 (2011-07).		N/A
7.10	Add the following text after the first paragraph of the addition:		—
	A push-push button switch used for start and stop the operation shall not be used for other functions such as changing the motor speed.		N/A
	NOTE Z1 An example of such a function is: slow/fast / off.		N/A
	For hand-held appliances with rated power input 50 W or lower it is acceptable to have a push-push button for different functions including on / off if there is an immediate feedback to the user e.g. by tactile feedback or audible and visible feedback.		N/A
	Where a push button can cycle through various modes during a prolonged push this is allowed as long as the appliance will switch off with a single short push action.		N/A
	Renumber the current NOTE Z1 and NOTE Z2 by NOTE Z2 and NOTE Z3.		—
	Replace the first sentence of NOTE Z2 (was NOTE Z1) by the following:		—
	Audible feedback is any audible response got immediately after the operation of the switch. The click of a switch can be accepted as an audible feedback provided that it is originated inside the switch that is operated and can be heard at a distance of 77 cm from the switch. The sound of the motor is regarded as an audible feedback.		P
	Add the following text after the third paragraph of the addition:		—
	Constructions with switches that have two different stable positions (meaning that it can be seen or felt when they have been pressed or rotated) are considered to have a tactile feedback.		N/A

IEC 60335_1Y - ATTACHMENT			
Clause	Requirement - Test	Result - Remark	Verdict
	Delete the paragraphs starting with "Devices used to start/stop...." until the end of the requirement ".....by vulnerable persons.". This includes Notes Z1 and Z2.		P
7.12	Delete "for use" in the first paragraph and in the Note.		—
	Add the following after the existing last paragraph of the requirement:		—
	For appliances intended for use at altitudes exceeding 2 000 m, the maximum altitude of use shall be stated.		N/A
	The instructions for appliances incorporating a functional earth shall state the substance of the following:		—
	This appliance incorporates an earth connection for functional purposes only.		N/A
7.12.1	Add the following text:		—
	For appliances marked with different rated voltages or different rated frequencies (separated by a /), instructions shall be included to indicate to the user or installer what action must be taken to adjust the appliance for operation at the required rated voltage or rated frequency.		N/A
	Add the following new subclause:		—
7.12.9	For each language, the instructions specified in 7.12 and from 7.12.1 to 7.12.8 shall appear together before any other instructions supplied with the appliance.		P
	Alternatively, these instructions may be supplied with the appliance separately from any functional use booklet.		N/A
	They may follow the description of the appliance that identifies parts, or follow the drawings/sketches common to the languages of the instructions.		N/A
	In addition, instructions shall also be available in an alternative format		P
	Alternatively, these instructions may be supplied with the appliance separately from any functional use booklet.		P
7.12.Z1	Delete the sub clause.		P
7.14	Add the following as new second paragraph to the requirement:		—
	Add the following as new second paragraph to the requirement:		P
	– 3,5 mm for appliances normally used on the floor; – 2,0 mm for portable appliances with a printable surface of less than 10 cm ² ; and – 3,0 mm for other appliances.		N/A

IEC 60335_1Y - ATTACHMENT			
Clause	Requirement - Test	Result - Remark	Verdict
	Uppercase letter of the text explaining the signal word shall be no smaller than 1,6 mm, with other letters according to the font size of the uppercase letter.		N/A
	Countries that do not use the Latin alphabet need to specify the minimum size of the script to be used taking into account what is specified for the Latin alphabet.		N/A
	Unless contrasting colours are used, moulded in, engraved, or stamped markings shall be either raised above or have a depth below the surface of at least 0,25 mm.		N/A
	Delete Note Z1.		—
7.15	Add the following:		—
	The symbol IEC 60417-5018 (2011-07) shall be placed next to the symbol IEC 60417-5172 (2003-02) or the symbol IEC 60417-5180 (2003-02) as appropriate.		N/A
8	Protection against access to live parts		—
8.1	Delete the Note.		—
8.1.1	Replace the first sentence of the replacement of the 3rd paragraph with the following:		—
	Test probe B and probe 18 of EN 61032 are applied with a force not exceeding 1 N, the appliance being in every possible position,		P
	except that appliances normally used on the floor and having a mass exceeding 40 kg are not tilted.		P
8.1.3	Replace the note by the following.		—
	If a single switching action is obtained by a switching device, the switching device shall provide full disconnection and the clearances for full disconnection specified in 20.1.5.3 of IEC 61058-1:2000 shall be obtained from Table 22 of IEC 61058-1:2000 using the next higher step for rated impulse withstand voltage.		N/A
	For appliances provided with a supply cord and without a switching device in their supply circuit, a single switching action may be obtained by the withdrawal of the plug from a socket outlet.		N/A
	Compliance is checked by inspection and by manual test.		N/A
	Add the text “, test probe 18” after “test probe B,”		—
10	Power input and current		—
10.1	Replace the penultimate paragraph of the test specification by the following:		—

IEC 60335_1Y - ATTACHMENT																																					
Clause	Requirement - Test	Result - Remark	Verdict																																		
	If the power input varies throughout the operating cycle and the maximum value of the power input exceeds, by a factor greater than two, the arithmetic mean value of the power input occurring during a representative period, then the power input is the maximum value that is exceeded for more than 10 % of the representative period. Otherwise the power input is taken as the arithmetic mean value.		N/A																																		
10.2	Replace the penultimate paragraph of the test specification by the following:		—																																		
	If the current varies throughout the operating cycle and the maximum value of the current exceeds, by a factor greater than two, the arithmetic mean value of the current occurring during a representative period, then the current is the maximum value that is exceeded for more than 10 % of the representative period. Otherwise the current is taken as the arithmetic mean value.		N/A																																		
11	Heating		—																																		
11.8	Delete the second sentence of the first paragraph.		—																																		
	Table 3 – Maximum normal temperature rises After the entry for pins of appliance inlets, add the following new entry: Pins of appliances for insertion into socket-outlets		—																																		
	Replace the second to last, third to last and fourth to last entries in Table 3 by the following:		—																																		
	<table border="1"> <tbody> <tr> <td><i>External enclosure of motor-operated appliances except handles held in normal use:^m</i></td> <td></td> </tr> <tr> <td>– of bare metal</td> <td>48</td> </tr> <tr> <td>– of coated metalⁿ</td> <td>59</td> </tr> <tr> <td>– of glass and ceramic</td> <td>65</td> </tr> <tr> <td>– of plastic having a thickness exceeding 0,4 mm^l</td> <td>74</td> </tr> <tr> <td><i>Surfaces of handles, knobs, grips and similar parts which are continuously held in normal use (e.g. soldering irons):^m</i></td> <td></td> </tr> <tr> <td>– of bare metal</td> <td>30</td> </tr> <tr> <td>– of coated metalⁿ</td> <td>34</td> </tr> <tr> <td>– of porcelain or vitreous material</td> <td>40</td> </tr> <tr> <td>– of rubber or of plastic having a thickness exceeding 0,4 mm^l</td> <td>50</td> </tr> <tr> <td>– of wood</td> <td>50</td> </tr> <tr> <td><i>Surfaces of handles, knobs, grips and similar parts^k which are held for short periods only in normal use (e.g. switches):^m</i></td> <td></td> </tr> <tr> <td>– of bare metal</td> <td>35</td> </tr> <tr> <td>– of coated metalⁿ</td> <td>39</td> </tr> <tr> <td>– of porcelain or vitreous material</td> <td>45</td> </tr> <tr> <td>– of rubber or of plastic having a thickness exceeding 0,4 mm^l</td> <td>60</td> </tr> <tr> <td>– of wood</td> <td>65</td> </tr> </tbody> </table>	<i>External enclosure of motor-operated appliances except handles held in normal use:^m</i>		– of bare metal	48	– of coated metal ⁿ	59	– of glass and ceramic	65	– of plastic having a thickness exceeding 0,4 mm ^l	74	<i>Surfaces of handles, knobs, grips and similar parts which are continuously held in normal use (e.g. soldering irons):^m</i>		– of bare metal	30	– of coated metal ⁿ	34	– of porcelain or vitreous material	40	– of rubber or of plastic having a thickness exceeding 0,4 mm ^l	50	– of wood	50	<i>Surfaces of handles, knobs, grips and similar parts^k which are held for short periods only in normal use (e.g. switches):^m</i>		– of bare metal	35	– of coated metal ⁿ	39	– of porcelain or vitreous material	45	– of rubber or of plastic having a thickness exceeding 0,4 mm ^l	60	– of wood	65		—
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	Add the following footnotes to Table 3:		—																																		

IEC 60335_1Y - ATTACHMENT			
Clause	Requirement - Test	Result - Remark	Verdict
	<p>^k The temperature rise limits of controls actuated by contact or proximity of a finger, with no movement of the contact surface also includes all surfaces within 5 mm of such controls, regardless of their shape.</p> <p>^l The temperature rise limit of plastic also applies for plastic material having a metal finish of thickness less than 0,1 mm.</p> <p>^m When the thickness of the plastic coating does not exceed 0,4 mm, the temperature rise limits of the coated metal or of glass and ceramic material apply.</p> <p>ⁿ Metal is considered coated when a coating having a minimum thickness of 90 µm made by enamel, powder or non-substantially plastic coating is used.</p>		—
	Comment to be retained in the amendment:		—
	The deletion of the second sentence in the first paragraph was carried out in the existing common modifications.		—
	In Table 3 delete footnotes za, zb, zc, zd.		—
13	Leakage current and electric strength at operating temperature		—
13.2	In the first paragraph, after “class II appliances” add “, class II constructions” and replace the second sentence by the following:		—
	For class 0I appliances and class I appliances, C may be replaced by a low impedance ammeter responding to the rated frequency of the appliance.		N/A
	Replace the second paragraph by the following:		—
	The leakage current is measured between any pole of the supply and		—
	accessible metal parts intended to be connected to protective earth, for class I appliances and class 0I appliances;		N/A
	metal foil having an area not exceeding 20 cm × 10 cm which is in contact with accessible surfaces of insulating material and metal parts not intended to be connected to protective earth, for class 0 appliances, class II appliances, class II constructions and class III appliances.		N/A
	Replace the fourth paragraph by the following:		—
	For single-phase appliances, the measuring circuit is shown in the following figures:		—
	– if they are class II appliances or parts of class II construction, Figure 1;		P
	– if they are neither class II appliances nor parts of class II construction, Figure 2.		P
	Replace the sixth paragraph by the following:		—
	For three-phase with neutral (3N~) connected appliances, the measuring circuit is shown in the following figures:		—
	– if they are class II appliances or parts of class II construction, Figure 3;		N/A
	– if they are neither class II appliances nor parts of class II construction, Figure 4.		N/A
	Delete “For three-phase appliances,” from the first sentence of the seventh paragraph.		—
	Replace the third sentence of the seventh paragraph by the following:		—

IEC 60335_1Y - ATTACHMENT													
Clause	Requirement - Test	Result - Remark	Verdict										
	For three-phase without neutral (3~) connected appliances, the measuring circuit in Figure 3 or Figure 4 shall be used as applicable, but the neutral is not connected to the appliance.		N/A										
	In the existing eighth paragraph, replace the first dashed item by the following:		—										
	– for class II appliances and for parts of class II construction 0,35 mA peak		P										
	Replace the first paragraph by the following:		—										
	The leakage current is measured by means of the circuit described in Figure 4 of IEC 60990:1999. For class 0I appliances and class I appliances, except parts of class II construction, C may be replaced by a low impedance ammeter responding to the rated frequency of the appliance.		N/A										
15	Moisture resistance		—										
15.1.2	Put the text of the addition in italics.4		—										
15.2	Replace the first paragraph of the test specification by the following:		—										
	Compliance is checked by the following test using a spillage solution comprising water containing approximately 1 % NaCl and 0,6 % rinsing agent.		P										
	Replace the fifth paragraph of the test specification by the following:		—										
	The liquid container of the appliance is completely filled with the solution and a further quantity equal to 15 % of the capacity of the container or 0,25 l, whichever is the greater, is poured in steadily over a period of 1 min.		P										
	Add the following new text as a penultimate paragraph:		—										
	Any commercially available rinsing agent may be used, but if there is any doubt with regards to the test results, the rinsing agent shall have the following properties:		—										
	<ul style="list-style-type: none"> - viscosity, 17 mPa.s; - pH, 2,2 (1 % in water). and its composition shall be <table border="1" style="margin-left: 20px; width: 100%;"> <thead> <tr> <th>Substance</th> <th>Parts by mass %</th> </tr> </thead> <tbody> <tr> <td>Plurafac ® LF 2212</td> <td>15,0</td> </tr> <tr> <td>Cumene sulfonate (40 % solution)</td> <td>11,5</td> </tr> <tr> <td>Citric acid (anhydrous)</td> <td>3,0</td> </tr> <tr> <td>Deionized water</td> <td>70,5</td> </tr> </tbody> </table>	Substance	Parts by mass %	Plurafac ® LF 2212	15,0	Cumene sulfonate (40 % solution)	11,5	Citric acid (anhydrous)	3,0	Deionized water	70,5		N/A
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Deionized water	70,5												
16	Leakage current and electric strength		—										
	Replace the first paragraph by the following:		—										
	An a.c. test voltage is applied between live parts and		—										
	accessible metal parts intended to be connected to protective earth, for class I appliances and class 0I appliances;		P										
	metal foil having an area not exceeding 20 cm × 10 cm which is in contact with accessible surfaces of insulating material and metal parts not intended to be connected to protective earth, for class 0 appliances, class II appliances, class II constructions and class III appliances.		P										

IEC 60335_1Y - ATTACHMENT			
Clause	Requirement - Test	Result - Remark	Verdict
	In the fourth paragraph, replace the first dashed item by the following:		—
	– for class II appliances and for parts of class II construction 0,25 mA		P
19	Abnormal operation		—
19.1	Add the following to the penultimate paragraph of the test specification:		
	If the control performs more than one function, only that aspect of the control under consideration is rendered inoperative. Other functions of the control may continue to operate normally.		N/A
19.7	Add the following to the fourth paragraph.		—
	If the timer or programmer is an electronic type that operates to ensure compliance with the test before the maximum period under the conditions of Clause 11 is reached, it is considered to be a protective electronic circuit as well as a control that operates under the conditions of Clause 11.		N/A
	In the third paragraph of the test specification, replace “class P2” by “class S2 or S3”.		N/A
19.11.3	Replace the text of the test specification but not the note, by the following.		—
	If the appliance incorporates a protective electronic circuit that operates to ensure compliance with Clause 19, the appliance is tested as follows:		N/A
	A fault as indicated in a) to g) of 19.11.2 shall be incorporated in the protective electronic circuit either before the appliance is started or at any point in time after the appliance is started so that the most unfavourable conditions of the test are applied.		N/A
	If the appliance is able to operate after the fault in the protective electronic circuit is incorporated, then the appliance is further tested as follows.		N/A
	For appliances for continuous operation the appliance is operated until steady conditions are reached. Then the relevant test of Clause 19 is repeated		N/A
	Other appliances are operated for one cycle of operation. Then the relevant test of Clause 19 is repeated.		N/A
19.11.4.2	Replace the test specification but not the note, by the following:		—
	The appliance is subjected to radiated fields in accordance with IEC 61000-4-3.		N/A

IEC 60335_1Y - ATTACHMENT			
Clause	Requirement - Test	Result - Remark	Verdict
	The frequency ranges tested shall be: – 80 MHz to 1 000 MHz, test level 3; – 1,4 GHz to 2,0 GHz, test level 3; – 2,0 GHz to 2,7 GHz, test level 2.		N/A
19.11.4.4	Replace the first paragraph by the following:		N/A
	The power supply terminals of the appliance are subjected to voltage surges in accordance with IEC 61000-4-5, five positive impulses and five negative impulses being applied at the selected points. An open circuit test voltage of 2 kV is applicable for the line-to-line coupling mode, a generator having a source impedance of 2 Ω being used. An open circuit test voltage of 4 kV is applicable for the line-to-earth coupling mode, a generator having a source impedance of 12 Ω being used.		N/A
20	Stability and mechanical hazards		—
20.2	In the second paragraph replace the word “movable” by “moving” and replace “main function” by “working function”.		—
22	Construction		—
22.5	In the requirement, replace “exceeding” by “equal to or greater than”.		—
	Add the following text after the existing last paragraph of the test specification.		—
	If compliance relies on the operation of an electronic circuit, the electromagnetic phenomena tests of 19.11.4.3 and 19.11.4.4 are applied one at a time to the appliance. The discharge test is then repeated three times and for each test, the voltage shall not exceed 34 V.		N/A
	Replace the requirement by the following:		—
	Appliances intended to be connected to the supply mains by means of a plug or pins for insertion into socket-outlets shall be constructed so that in normal use, when pins are touched, there is no risk of electric shock from charged capacitors having a rated capacitance equal to or greater than 0,1 μ F.		N/A
22.12	Replace the requirement by the following:		—
	Handles, knobs, grips, levers and parts providing a similar function shall be fixed in a reliable manner so that they will not work loose in normal use if loosening could result in a hazard, including a choking hazard.		P
	If these parts are used to indicate the position of switches or similar components, it shall not be possible to remove or fix them incorrectly if this could result in a hazard.		N/A
	The requirement concerning the choking hazard does not apply to appliances intended for commercial use.		N/A
	Add the following new paragraph to the test specification:		

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Clause	Requirement - Test	Result - Remark	Verdict
	If the part is removed and can be contained within the small parts cylinder in Figure 13, its loosening is considered to result in a choking hazard.		N/A
	Add to the first paragraph:		—
	Other parts that are intended to be detached during use, maintenance or cleaning (examples are batteries, battery covers, lids, attachments, steam nozzles) are not considered as parts providing a similar function as handles, knobs, grips, levers.		P
22.17	Add to the first paragraph:		—
	This is not applicable to built-in appliances.		N/A
22.32	Replace the words 'Insulating material' at the beginning of the 4th paragraph of the requirement by 'Ceramic and similar porous material' and combine this paragraph with the third paragraph of the requirement.		—
22.33	Add the following to the first sentence of the first paragraph of the requirement:		—
	"or unearthed metal parts that are separated from live parts by basic insulation only."		N/A
22.35	In the second paragraph of the requirement add 'and cordless appliances' after 'stationary appliances'.		N/A
	Add the following note after the requirement:		—
	NOTE A cordless appliance is an appliance that is connected to the supply only when placed on its associated stand.		N/A
	Add the following new subclauses:		—
22.53	Class II appliances and class III appliances that incorporate functionally earthed parts shall have at least double insulation or reinforced insulation between live parts and the functionally earthed parts.		N/A
22.54	Button cells and batteries designated R1 shall not be accessible without the aid of a tool unless the cover of their compartment can only be opened after at least two independent movements have been applied simultaneously.		N/A
22.55	Devices that are operated by the user to stop the intended function of the appliance, if any, shall be distinguished from other manual devices by means of shape, or size, or surface texture, or position.		P
	This requirement concerning position does not preclude use of a push on push off switch.		N/A
	An indication when the device has been operated shall be given by: – tactile feedback from the actuator or tactile feedback from the appliance such as stopping of the vibration on the body of the appliance or of a part of it; or		P

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Clause	Requirement - Test	Result - Remark	Verdict
	– reduction in heat output; or		P
	– audible and visible feedback.		P
	The sound of the motor or sound of an actuator switching from on to off is considered as an audible feedback. A switch with a stable off-position different from the on-position is considered visual and tactile feedback. The force feedback from the actuator when operating it is considered to be tactile feedback. Compliance is checked by inspection and by manual test.		N/A
22.56	Detachable power supply part shall be provided with the part of class III construction of the appliance. Compliance is checked by inspection.		N/A
22.57	The properties of non-metallic materials shall not degrade from exposure to UV-C radiation generated from UV sources provided for microbiological control within the appliance such that they no longer comply with this standard.		N/A
	This requirement does not apply to glass, ceramics or similar materials. Compliance is checked by the conditioning and tests of Annex T.		N/A
23	Internal wiring		—
23.5	Replace Note 2 by the following text.		—
	For class II construction, the requirements for supplementary insulation and reinforced insulation apply except that the sheath of a cord complying with IEC 60227 or IEC 60245 may provide supplementary insulation.		P
	A single layer of internal wiring insulation does not provide reinforced insulation.		N/A
24	Components		—
	Comment to be retained in the amendment: The following text replaces common modification text in the existing standard by the IEC text including changes in A1. It also includes the paragraph from the EN 60335-1:2012 starting by “Plugs and socket-outlets and their connecting devices....”		—
24.1	Components comply with the safety requirements specified in the relevant standards as far as they reasonably apply		P
	Compliance with the EN standard for the relevant component does not necessarily ensure compliance with the requirements of this standard.		P
	Motors are not required to comply with EN 60034-1. They are tested as part of the appliance according to this standard.		P

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Clause	Requirement - Test	Result - Remark	Verdict
	Relays shall be tested as part of the appliance according to this standard.		P
	They may be alternatively tested to EN 60730-1, in which case they shall also meet the additional requirements in EN 60335-1.		N/A
	Unless otherwise specified, the requirements of Clause 29 of this standard apply between live parts of components and accessible parts of the appliance.		P
	Unless otherwise specified, components may comply with the requirements for clearances and creepage distances for functional insulation as specified in the relevant component standard.		P
	Unless otherwise specified, the requirements of 30.2 of this standard apply to parts of non-metallic material in components including parts of non-metallic material supporting current-carrying connections inside components.		P
	Components that have not been previously tested or do not comply with the standard for the relevant component are tested according to the requirements of 30.2		P
	Components that have been previously tested and shown to comply with the resistance to fire requirements in the standard for the relevant component need not be retested provided that:		—
	- the severity specified in the component standard is not less than the severity specified in 30.2, and		P
	- unless the pre-selection alternatives in 30.2 are used, the test report for the component states the values of t_e and t . As required by EN 60695-2-11.		N/A
	If the above two conditions are not satisfied, the component is tested as part of the appliance.		N/A
	NOTE 1 There are two levels of severity specified for appliances for which 30.2.3 is applicable.		N/A
	Power electronic converter circuits are not required to comply with EN 62477-1. They are tested as part of the appliance according to this standard.		N/A
	Unless components have been previously tested and found to comply with the relevant standard for the number of cycles specified, they are tested in accordance with 24.1.1 to 24.1.9		P
	For components mentioned in 24.1.1 to 24.1.9, no additional tests specified in the relevant standard for the component are necessary other than those specified in 24.1.1 to 24.1.9		P
	Components that have not been separately tested and found to comply with the relevant standard, and		N/A
	components that are not marked or not used in accordance with their marking,		N/A
	are tested in accordance with the conditions occurring in the appliance, the number of samples being that required by the relevant standard		N/A

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Clause	Requirement - Test	Result - Remark	Verdict
	NOTE 2 For automatic controls, marking includes documentation and declaration as specified in Clause 7 of EN 60730-1.		N/A
	Lamp-holders and starter-holders that have not been previously tested and found to comply with the relevant EN standard are tested as a part of the appliance and shall 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.		P
	Plugs and socket-outlets and other connecting devices of interconnection cords shall not be 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,		N/A
	if direct supply to these parts from the supply mains could give rise to a hazard.		N/A
	NOTE Z3 For details of plugs used in CENELEC countries listed in IEC TR 60083 see Annex ZH.		P
	When an EN standard does not exist for a component, there are no additional tests specified.		P
	Add before the last paragraph the following:		—
	NOTE Z3 For details of plugs used in CENELEC countries listed in IEC TR 60083 see Annex ZH.		P
24.1.2	Add the following text as a new first paragraph.		—
	The relevant standard for transformers in associated switch mode power supplies is Annex BB of IEC 61558-2-16. Clause 26 of IEC 61558-1 and Annex H of IEC 61558-1 are not applicable.		—
24.1.4	Add the following new paragraph:		
	Thermal cut-outs of the capillary type shall comply with the requirements for type 2.K controls in IEC 60730-2-9.		N/A
24.1.5	In the second sentence of the first paragraph, add "class II" before "appliances".		N/A
24.2	Replace the first dashed item of 24.2 by the following.		—
	– switches, automatic controls, power supplies and the like in flexible cords;		N/A

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Clause	Requirement - Test	Result - Remark	Verdict
24.8	In the first dashed item of the second paragraph of the requirement replace "class of safety protection P2" by "class of safety protection S2 or S3"		N/A
24.Z1	Replacement: 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	Supply connection and external flexible cords		—
25.1	Replace the first dashed item of the requirement by the following:		—
	supply cord fitted with a plug, the current rating and voltage rating of the plug being not less than the corresponding ratings of its associated appliance;		P
	Addition: Plugs and pins for insertion into socket outlets shall follow the relevant standards sheets in Annex ZH.		P
25.6	Delete the addition.		P
25.7	Delete the third dashed item in the first paragraph of the requirement.		—
	Add to the end of the dashed items:		—
	– Halogen-free, low smoke, thermoplastic insulated and sheathed Their properties should at least be those of:		—
	Light duty halogen-free low smoke flexible cable (code designation 62821 IEC 101 for circular cable and code designation 62821 IEC 101f for flat cable);		N/A
	Ordinary duty halogen-free, low smoke flexible cable (code designation 62821 IEC 102 for circular cable and code designation 62821 IEC 102f for flat cable).		N/A
	Delete the existing text starting "Halogen free thermoplastic....." until ".....designation H07ZZ-F). "		N/A
25.10	Add the following as a new paragraph to the requirement.		—
	In multi-phase appliances, the colour of the neutral conductor of the supply cord, if any, shall be blue.		N/A
	Add the following to the requirement as a new third paragraph:		—
	Where additional neutral conductors are provided in the supply cord		—
	other colours may be used for these additional neutral conductors;		N/A
	all of the neutral conductors and line conductors shall be identified by marking using the alpha numeric notation specified in IEC 60445;		N/A
	the supply cord shall be fitted to the appliance.		N/A
25.13	In the requirement, replace the second sentence by the following:		—

IEC 60335_1Y - ATTACHMENT			
Clause	Requirement - Test	Result - Remark	Verdict
	If it is not evident from the construction of the appliance that the supply cord can be introduced without risk of damage, a non-detachable lining or non-detachable bushing shall be provided that complies with 29.3 for supplementary insulation.		P
25.15	Replace the second paragraph of the test specification by the following:		—
	A mark is made on the cord at a distance of approximately 20 mm from the cord anchorage or other suitable point. The mark is made while the cord is subjected to a pull force of		—
	– 100 N, for fixed appliances regardless of the mass of the appliance;		N/A
	– the value as shown in Table 12, for other appliances.		P
25.20	Delete “insulated” and “additionally” from the requirement.		—
25.23	Add the following new dashed item to the requirement:		—
	for class III construction, interconnection cords of a class I appliance or class II appliance, the cross sectional areas of the conductors need not comply with 25.8 if the temperature of the cord insulation specified in Table 3 and Table 9 are not exceeded during the tests of Clause 11 and Clause 19, respectively.		P
25.25	Replace the second sentence of the first paragraph and add the note: Dimensions of the pins and engagement face of plugs of appliances that are inserted into socket-outlets are to be in accordance with the dimensions of the relevant plug standard.		N/A
	NOTE Z1 Common plugs and socket-outlets types in CENELEC countries as shown in Annex ZH.		N/A
27	Provision for earthing		—
27.1	In the first paragraph of the requirement replace “an insulation fault” by “a failure of basic insulation”.		—
	Delete Note 1 and replace “Note 2” by “Note”.		—
	Replace the third paragraph by the following:		—
	Class 0 appliances, class II appliances and class III appliances shall have no provision for protective earthing. Class II appliances and class III appliances may incorporate an earth for functional purposes.		N/A
27.2	Add the following paragraph to the requirement:		—
	These requirements are not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes.		N/A
27.3	Add the following paragraph to the requirement:		—

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Clause	Requirement - Test	Result - Remark	Verdict
	These requirements are not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes.		N/A
27.4	Add the following paragraph to the requirement:		—
	These requirements are not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes.		N/A
27.5	Add the following paragraph to the requirement:		—
	These requirements are not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes.		N/A
	Replace existing Note 1 by the following as an addition to the existing second paragraph of the test specification.		—
	The test is carried out until steady conditions have been established.		N/A
	Replace existing Note 2 by the following as an addition to the last paragraph of the test specification.		—
	The resistance of the supply cord is not included in the resistance calculation.		P
	Renumber existing Note 3 as Note.		—
27.6	Add the following sentence to the requirement:		—
	This requirement is not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes.		N/A
28	Screws and connections		—
28.2	In the second paragraph of the requirement, replace bullets with dashes in the two bulleted items.		—
29	Clearances, creepage distances and solid insulation		—
29.1	Add the following as a new second paragraph of the requirement:		—
	For appliances intended for use at altitudes exceeding 2 000 m, the clearances in Table 16 shall be increased according to the relevant multiplier values in Table A.2 of IEC 60664-1.		N/A
	Add the following to the existing second paragraph of the requirement:		—
	or to appliances intended for use at altitudes exceeding 2 000 m.		N/A
	Delete Note 5.		—
Table 17	Table 17 – Minimum creepage distances for basic insulation		—
	Replace Note 1 by the following:		—
	Lacquered conductors of windings are considered to be bare conductors but creepage distances for basic insulation in other than a double insulation construction need not be greater than the associated clearance specified in Table 16 taking into account 29.1.1.		P
29.3	Replace the third dashed item by the following:		—

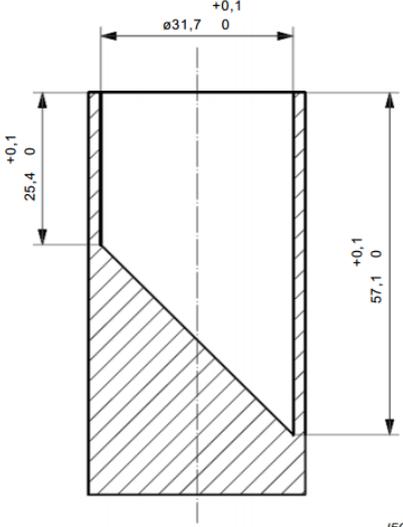
IEC 60335_1Y - ATTACHMENT			
Clause	Requirement - Test	Result - Remark	Verdict
	– for insulation, other than single layer internal wiring insulation, by an assessment of the thermal quality of the material combined with an electric strength test, in accordance with 29.3.3 and for accessible parts of reinforced insulation consisting of a single layer, by measurement in accordance with 29.3.4, or		P
	– by an assessment of the thermal quality of the material according to 29.3.3 combined with an electric strength test in accordance with 23.5, for each single layer internal wiring insulation touching each other, or		P
32	Radiation, toxicity and similar hazards		—
	Delete in the third paragraph “EN 50366 or”		—
Figure 1	Circuit diagram for leakage current measurement at operating temperature for single-phase connection of class II appliances		—
	Replace the title of Figure 1 by the following:		—
	Figure 1 – Circuit diagram for leakage current measurement at operating temperature for single-phase connection of class II appliances and for parts of class II construction		—
Figure 2	Circuit diagram for leakage current measurement at operating temperature for single-phase connection of appliances, other than those of class II		—
	Replace the note of Figure 2 by the following:		—
	NOTE For class 0I appliances and class I appliances, C can be replaced by a low impedance ammeter responding to the rated frequency of the appliance.		—
	Replace the title of Figure 2 by the following:		—
	Figure 2 – Circuit diagram for leakage current measurement at operating temperature for single-phase connection of other than class II appliances or parts of class II construction		—
	Replace Figure 3 and Figure 4 by the following new figures:		—

IEC 60335_1Y - ATTACHMENT			
Clause	Requirement - Test	Result - Remark	Verdict

	<p style="text-align: right; font-size: small;">IEC 2547/13</p> <p>Key</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">C circuit of figure 4 of IEC 60990</td> <td style="width: 50%;">Connections and supplies</td> </tr> <tr> <td>1 accessible part</td> <td>L₁, L₂, L₃, N supply voltage with neutral</td> </tr> <tr> <td>2 inaccessible metal part</td> <td>PE protective earth conductor</td> </tr> <tr> <td>3 basic insulation</td> <td>Z IT system neutral to earth high impedance</td> </tr> <tr> <td>4 supplementary insulation</td> <td></td> </tr> <tr> <td>5 double insulation</td> <td></td> </tr> </table> <p>NOTE If the test laboratory is supplied from a TN or TT distribution system then Z will be zero. Consequently, always connecting "C" to the neutral conductor will ensure reproducibility of the test result regardless of the type of distribution system (TN, TT or IT) used by the test laboratory and will cover the most onerous condition likely to be encountered during normal use of the appliance.</p> <p>Figure 3 – Circuit diagram for leakage current measurement at operating temperature for three-phase with neutral class II appliances and for parts of class II construction</p>	C circuit of figure 4 of IEC 60990	Connections and supplies	1 accessible part	L ₁ , L ₂ , L ₃ , N supply voltage with neutral	2 inaccessible metal part	PE protective earth conductor	3 basic insulation	Z IT system neutral to earth high impedance	4 supplementary insulation		5 double insulation			N/A
C circuit of figure 4 of IEC 60990	Connections and supplies														
1 accessible part	L ₁ , L ₂ , L ₃ , N supply voltage with neutral														
2 inaccessible metal part	PE protective earth conductor														
3 basic insulation	Z IT system neutral to earth high impedance														
4 supplementary insulation															
5 double insulation															

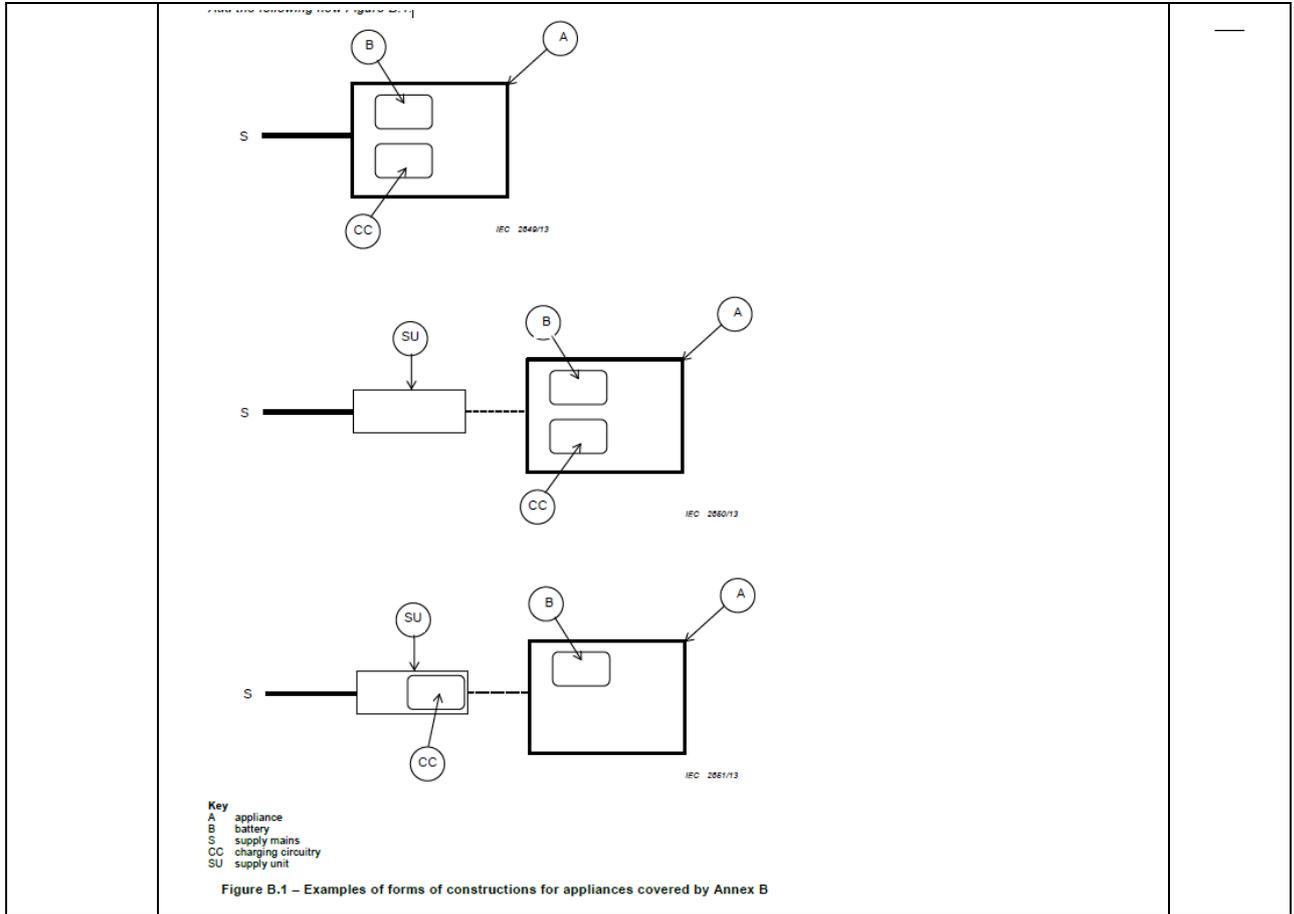
	<p style="text-align: right; font-size: small;">IEC 2548/13</p> <p>Key</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">C circuit of Figure 4 of IEC 60990</td> <td style="width: 50%;">Connections and supplies</td> </tr> <tr> <td>1 accessible part</td> <td>L₁, L₂, L₃, N supply voltage with neutral</td> </tr> <tr> <td>2 basic insulation</td> <td>PE protective earth conductor</td> </tr> <tr> <td></td> <td>Z IT system neutral to earth high impedance</td> </tr> </table> <p>NOTE 1 For class 0I appliances and class I appliances, C can be replaced by a low impedance ammeter responding to the rated frequency of the appliance.</p> <p>NOTE 2 If the test laboratory is supplied from a TN or TT distribution system then Z will be zero. Consequently, always connecting "C" to the neutral conductor will ensure reproducibility of the test result regardless of the type of distribution system (TN, TT or IT) used by the test laboratory and will cover the most onerous condition likely to be encountered during normal use of the appliance.</p> <p>Figure 4 – Circuit diagram for leakage current measurement at operating temperature for three-phase with neutral appliances other than those of class II or parts of class II construction</p>	C circuit of Figure 4 of IEC 60990	Connections and supplies	1 accessible part	L ₁ , L ₂ , L ₃ , N supply voltage with neutral	2 basic insulation	PE protective earth conductor		Z IT system neutral to earth high impedance		N/A
C circuit of Figure 4 of IEC 60990	Connections and supplies										
1 accessible part	L ₁ , L ₂ , L ₃ , N supply voltage with neutral										
2 basic insulation	PE protective earth conductor										
	Z IT system neutral to earth high impedance										

Figures	Add the following new figure.		—
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IEC 60335_1Y - ATTACHMENT			
Clause	Requirement - Test	Result - Remark	Verdict
	<p style="text-align: right;"><i>Dimensions in millimetres</i></p>  <p style="text-align: center;">Figure 13 – Small parts cylinder</p>		N/A
Annex B	Annex B – Appliances powered by rechargeable batteries that are recharged in the appliance		—
	The following modifications to this standard are applicable for appliances powered by batteries that are recharged in the appliance.		—
	<p>NOTE 1 Rechargeable batteries are also referred to as secondary batteries.</p> <p>NOTE 2 This Annex B does not apply to battery chargers (IEC 60335-2-29).</p> <p>These appliances take one of the following three forms of construction:</p> <ol style="list-style-type: none"> The appliance can be supplied directly from the supply mains or a renewable energy source such as a solar cell, the battery charging circuitry and other supply unit circuitry being incorporated within the appliance. The part of the appliance incorporating the battery is supplied from the supply mains or a renewable energy source such as a solar cell, via a detachable supply unit. The battery charging circuitry is incorporated within the part of the appliance containing the battery. In this case, the complete appliance is the detachable supply unit plus the part of the appliance containing the battery and the battery charging circuitry. The part of the appliance incorporating the battery is supplied from the supply mains or a renewable energy source such as a solar cell, via a detachable supply unit. The battery charging circuitry is incorporated within the detachable supply unit. In this case, the complete appliance is the detachable supply unit with the battery charging circuitry plus the part of the appliance containing the battery. <p>NOTE 3 Examples of the forms of construction covered by this Annex B are shown in Figure B.1.</p> <p>NOTE 4 If the appliance incorporates a non-rechargeable (primary) battery or a rechargeable (secondary) battery that must be removed from the appliance for charging, then Annex S is applicable. In this case, the appliance is simply a battery-operated appliance and the safety requirements for the battery charger for charging the rechargeable battery are contained in IEC 60335-2-29.</p>		—
7.1	Add the following:		—

IEC 60335_1Y - ATTACHMENT			
Clause	Requirement - Test	Result - Remark	Verdict
	Appliances intending to be supplied from a detachable supply unit for the purposes of recharging the battery shall be marked with symbol IEC 60417-6181 (2013-03) and its type reference along with symbol ISO 7000-0790 (2004-01) or with the substance of the following: Use only with <model designation> supply unit		N/A
7.6	Add the following:		—
	For appliances intending to be supplied from a detachable supply unit for the purposes of recharging the battery, the type reference of the detachable supply unit shall be stated along with the substance of the following: WARNING: For the purposes of recharging the battery, only use the detachable supply unit provided with this appliance. If the symbol for detachable supply unit is used, its meaning shall be explained.		N/A
7.12	Replace the third paragraph and three dashed items by the following		—
	Instructions for appliances containing non user-replaceable batteries shall state the substance of the following:		—
	This appliance contains batteries that are only replaceable by skilled persons.		N/A
	Instructions for appliances containing non-replaceable batteries shall state the substance of the following:		—
	This appliance contains batteries that are non-replaceable.		N/A
7.15	Add the following:		—
	The type reference of the detachable supply unit shall be placed in close proximity to the symbol.		N/A
11	Heating		—
	Add the following:		—
11.8	The temperature rise of the battery surface shall not exceed the temperature rise limit in the battery manufacturer's specification for the type of battery supplied. If no limit is specified, the temperature rise shall not exceed 20 K.		N/A
19	Abnormal operation		—
	Add the following text and figure:		—
19.13	The battery shall not rupture or ignite.		N/A
	Add the following new Figure B.1:		—

IEC 60335_1Y - ATTACHMENT			
Clause	Requirement - Test	Result - Remark	Verdict

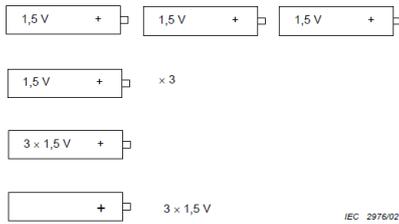


20	Clearances, creepage distances, solid insulation and coatings of rigid printed board assemblies		—
	Replace the text by the following:		—
	Clause 20 is applicable to clearances across full disconnection and micro-disconnection. It is also applicable to creepage distances for functional insulation, across full disconnection and micro-disconnection, as stated in Table 24.		N/A
Annex P	Guidance for the application of this standard to appliances used in warm damp equable climates		N/A
	Throughout the text of the annex including the title, replace “warm damp equable” by “tropical”.		N/A
	In the first two paragraphs of the annex, replace “WDaE” by “with symbol IEC 60417-6332 (2015-06)”.		N/A
7	Marking and instructions		—
7.1	Replace “the letters WDaE” with “symbol IEC 60417-6332 (2015-06)”.		—
	Add the following new subclause:		—

IEC 60335_1Y - ATTACHMENT			
Clause	Requirement - Test	Result - Remark	Verdict
7.6	 <p>[symbol IEC 60417-6332 (2015-06)] tropical climate</p>		N/A
7.12	Add the following new paragraph:		—
	If symbol IEC 60417-6332 (2015-06) is used, its meaning shall be explained.		N/A
	Add the following new annexes:		—
Annex S	Battery-operated appliances powered by batteries that are non-rechargeable or not recharged in the appliance		—
	<p>The following modifications to this standard are applicable for battery-operated appliances where the batteries are either non-rechargeable (primary batteries) or rechargeable batteries (secondary batteries) that are not recharged in the appliance.</p> <p>NOTE 1 Non-rechargeable batteries can also be referred to as primary batteries.</p> <p>NOTE 2 Requirements for appliances powered by batteries that are recharged in the appliance are given in Annex B.</p>		—
5	General conditions for the tests		—
5.8.1	Where the supply terminals for the connection of the battery have no indication of polarity, the more unfavourable polarity shall be applied.		N/A
5.S.101	Battery-operated appliances intended for use with a battery box are tested with the battery box supplied with the appliance or with the battery box recommended in the instructions.		N/A
5.S.102	Battery-operated appliances are tested as motor-operated appliances.		N/A
7	Marking and instructions		—
7.1	Battery-operated appliances shall be marked with the battery voltage and the polarity of the terminals unless the polarity is irrelevant.		N/A
	<ul style="list-style-type: none"> - name, trade mark or identification mark of the manufacturer or responsible vendor; - model or type reference; - IP number according to degree of protection against ingress of water, other than IPX0; - type reference of battery or batteries. 		N/A
	If relevant, the positive terminal shall be indicated by the symbol IEC 60417-5005 (2002-10) and the negative terminal by the symbol IEC 60417-5006 (2002-10).		N/A
	If appliances use more than one battery, they shall be marked to indicate correct polarity connection of the batteries.		N/A

IEC 60335_1Y - ATTACHMENT			
Clause	Requirement - Test	Result - Remark	Verdict
	NOTE 1 Examples of acceptable marking representing three batteries are shown in Figure S.1.		N/A
	NOTE 2 It is not necessary for the rated current or rated power input to be marked.		N/A
7.6	<p>+</p> <p>[symbol IEC 60417-5005 (2002-10)] plus; positive polarity</p> <p>—</p> <p>[symbol IEC 60417-5006 (2002-10)] minus; negative polarity</p>		N/A
7.12	The instructions for battery-operated appliances shall contain the substance of the following, as applicable:		—
	<ul style="list-style-type: none"> - the types of batteries that may be used; - how to remove and insert the batteries; - non-rechargeable batteries are not to be recharged; - rechargeable batteries are to be removed from the appliance before being charged; - different types of batteries or new and used batteries are not to be mixed; - batteries are to be inserted with the correct polarity; - exhausted batteries are to be removed from the appliance and safely disposed of; - if the appliance is to be stored unused for a long period, the batteries should be removed; - the supply terminals are not to be short-circuited. 		N/A
11	Heating		—
11.5	<p>By means of an external power supply, battery-operated appliances are supplied at the terminals for the connection of the battery with the most unfavourable supply voltage between</p> <ul style="list-style-type: none"> - 0,55 and 1,0 times the battery voltage, if the appliance can be used with non-rechargeable batteries; - 0,75 and 1,0 times battery voltage, if the appliance is designed for use with rechargeable batteries only. 		N/A
	The values specified in Table S.101 for the internal resistance per cell of the battery shall be taken into account.		—

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Clause	Requirement - Test	Result - Remark	Verdict														
	Table S.101 – Battery source impedance		—														
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2" style="text-align: center;"><i>Supply to the terminals for the connection of the battery</i></th> <th colspan="2" style="text-align: center;"><i>Internal resistance per cell Ω^a</i></th> </tr> <tr> <th style="text-align: center;"><i>Non-rechargeable batteries</i></th> <th style="text-align: center;"><i>Rechargeable batteries</i></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"><i>1,0 times battery voltage</i></td> <td style="text-align: center;"><i>0,10</i></td> <td style="text-align: center;"><i>0,001 5</i></td> </tr> <tr> <td style="text-align: center;"><i>0,75 times battery voltage</i></td> <td style="text-align: center;"><i>0,75</i></td> <td style="text-align: center;"><i>0,006 0</i></td> </tr> <tr> <td style="text-align: center;"><i>0,55 times battery voltage</i></td> <td style="text-align: center;"><i>2,00</i></td> <td style="text-align: center;">—</td> </tr> </tbody> </table> <p>^a When determining the internal resistance of a battery, two or more cells connected in parallel are considered to be one cell.</p>		<i>Supply to the terminals for the connection of the battery</i>	<i>Internal resistance per cell Ω^a</i>		<i>Non-rechargeable batteries</i>	<i>Rechargeable batteries</i>	<i>1,0 times battery voltage</i>	<i>0,10</i>	<i>0,001 5</i>	<i>0,75 times battery voltage</i>	<i>0,75</i>	<i>0,006 0</i>	<i>0,55 times battery voltage</i>	<i>2,00</i>	—	—
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<i>0,75 times battery voltage</i>	<i>0,75</i>	<i>0,006 0</i>															
<i>0,55 times battery voltage</i>	<i>2,00</i>	—															
19	Abnormal operation		—														
19.1	For battery-operated appliances, the tests are carried out with the battery fully charged unless otherwise specified.		N/A														
19.13	The battery shall not rupture or ignite.		N/A														
19.S.101	Battery-operated appliances are supplied with the voltage specified in 11.5. The supply terminals having an indication of polarity are connected to the opposite polarity, unless such a connection is unlikely to occur due to the construction of the appliance.		N/A														
19.S.102	For battery-operated appliances with provision for multiple batteries, one or more of the batteries shall be reversed and the appliance shall be operated, if reversal of batteries is allowed by the construction.		N/A														
25	Supply connection and external flexible cords		—														
25.5	The flexible leads or flexible cord used to connect an external battery or battery box in battery-operated appliances shall be connected to the appliance by a type X attachment.		N/A														
25.13	This requirement is not applicable to the flexible leads or flexible cord connecting external batteries or a battery box with an appliance.		N/A														
25.S.101	Battery-operated appliances shall have suitable means for connection of the battery. If the type of battery is marked on the appliance, the means of connection shall be suitable for this type of battery.		N/A														
26	Terminals for external conductors		—														
26.5	Terminal devices in an appliance for the connection of the flexible leads or flexible cord connecting an external battery or battery box shall be so located or shielded that there is no risk of accidental connection between supply terminals.		N/A														
30	Resistance to heat and fire		—														
30.2.3.2	Addition:		—														

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Clause	Requirement - Test	Result - Remark	Verdict
	There shall be no battery in the area of the vertical cylinder used for the consequential needle flame test unless the battery is shielded by a 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 provided that the test sample used for the classification was no thicker than the relevant part of the appliance.		N/A
	 <p>Figure S.1 – Examples of battery marking representing three batteries</p>		—
Annex T	UV-C radiation effect on non-metallic materials		—
	Annex T provides requirements for non-metallic materials subject to direct or reflected UV-C radiation (100 nm to 280 nm) exposure and whose mechanical and electrical properties are relied upon for compliance with this standard.		N/A
	This annex does not apply to glass, ceramic and similar materials.		N/A
	NOTE 1 General-purpose incandescent and fluorescent lamps with ordinary glass envelopes are not considered to emit significant UV-C radiation.		N/A
	The UV-C radiation effect on non-metallic materials is determined by measuring selected nonmetallic material properties before and after UV-C radiation conditioning.		N/A
	The conditioning and tests are carried out on non-metallic material specimens prepared according to the relevant standard for the test method.		N/A
	The standards and compliance criteria for parts providing mechanical support or impact resistance are specified in Table T.1.		N/A
	The standard and compliance criteria for electrical insulation of internal wiring are specified in Table T.2.		N/A
	The conditioning apparatus and test procedure are as specified in ISO 4892-1 and ISO 4892-2, with the following modifications. Modifications to ISO 4892-1:		N/A
5.1	Light source		—

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Clause	Requirement - Test	Result - Remark	Verdict
5.1.6	The UV-C emitter shall be a low pressure mercury lamp with a quartz envelope having a continuous spectral irradiance of 10 W/m ² at 254 nm.		N/A
	NOTE The quartz envelope blocks the 185 nm resonant wavelength for mercury that can generate ozone.		N/A
	Subclause 5.1.6.1 and Table 1 are not applicable.		N/A
5.2	TEMPERATURE		—
5.2.4	Subclause 5.1.6.1 and Table 1 are not applicable.		N/A
5.3	HUMIDITY AND WETTING		—
5.3.1	Humidification of the chamber air is specified in part 2 when necessary.		N/A
9	Test report		—
	This clause is not applicable.		N/A
	This clause is not applicable.		N/A
7	Procedure		—
7.1	General		—
	At least three test specimens of each non-metallic material providing mechanical support or impact resistance shall be exposed in each run to allow statistical evaluation of the results.		N/A
	Ten samples of the insulated internal wiring shall be exposed in each run.		N/A
	When the internal wiring is provided in more than one colour, the colour having the heaviest organic pigment loading is used.		N/A
	In determining the samples for testing, consideration should be given to samples coloured red or yellow which are known to have particular critical effects.		N/A
7.2	Mounting the test specimens		—
	In determining the samples for testing, consideration should be given to samples coloured red or yellow which are known to have particular critical effects.		N/A
7.3	Exposure		—
	Before placing the specimens in the test chamber, the apparatus shall be operating under the specified exposure conditions.		N/A

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Clause	Requirement - Test	Result - Remark	Verdict
	It shall be programmed to operate continuously and the conditions shall be maintained throughout the exposure, keeping any interruptions to service the apparatus and to inspect the specimens to a minimum.		N/A
	The test specimens and, if used, the irradiance-measuring instrument are exposed for 1 000 h.		N/A
	NOTE Repositioning of the specimens during exposure is desirable and might be necessary.		N/A
	If it is necessary to remove a test specimen for periodic inspection, care should be taken to avoid touching the exposed surface or altering it in any way.		N/A
7.4	Measurement of radiant exposure		—
	If used, a radiometer shall be mounted and calibrated such that it measures the irradiance at the exposed surface of the test specimen.		N/A
7.5	Determination of changes in properties after exposure		N/A
	The non-metallic material properties and test methods for parts providing mechanical support or impact resistance are specified in Table T.1.		N/A
	The non-metallic material properties and test method for electrical insulation of internal wiring are specified in Table T.2.		N/A
8	Exposure report		N/A
	This clause is not applicable.		N/A
ZA	ANNEX ZA (NORMATIVE) Special national conditions		—
	Denmark, Sweden, Norway and Finland		—
7.12.8	The maximum inlet water pressure shall be at least 1,0 MPa		N/A
	Denmark		—
22.47	The maximum inlet water pressure shall be at least 1,0 MPa		N/A
	Ireland and United Kingdom		—
25.8	In the table, the lines for >10 A and ≤16 A are replaced by:		—
	> 10 and ≤ 13 1,25 (1,0) ^b		N/A
	> 13 and ≤ 16 1,5 (1,0) ^b		N/A

IEC 60335_1Y - ATTACHMENT			
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. 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		P
ZD	ANNEX ZD (INFORMATIVE) IEC and CENELEC CODE DESIGNATIONS FOR FLEXIBLE CORDS		—
	Replace Table ZD.1		P
	Add an additional row in the Table ZD.1 of Annex ZD.		N/A
ZF	ANNEX ZF (INFORMATIVE) CRITERIA APPLIED FOR THE ALLOCATION OF PRODUCTS COVERED BY STANDARDS IN THE EN 60335 SERIES UNDER LVD OR MD		—
	Replace the Table ZF.1		P
ZH	ANNEX ZH (INFORMATIVE) Common plug and socket-outlet types in CENELEC countries		—
ZH.1	In general, supply cords of single-phase appliances having a rated current not exceeding 16 A shall be fitted with a plug complying with the following standard sheets:		P
	— for class I appliances or class II appliances with functional earth: standard sheet EU2, EU3 or EU4		P
	— for class II appliances: standard sheet EU5, EU6 or EU7		N/A
	However, there are some exemptions or differences in certain CENELEC countries		P
ZH.2	Plugs according to standard sheet EU2 are not allowed in Belgium, France and the United Kingdom.		N/A

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Clause	Requirement - Test	Result - Remark	Verdict
	Plugs according to standard sheet EU3 are not allowed in Austria, Finland, Germany, Iceland, Ireland, Italy, Luxembourg, Netherlands, Portugal, Spain, Sweden, Switzerland and the United Kingdom.		N/A
ZH.3	Specific country data.		N/A
ZH.4	List of country codes		N/A
ZI	ANNEX ZI (INFORMATIVE) Information on the application of A11:2014 to EN 60335-1:2012 CENELEC CLC/TC 61(SEC)2096A		—
	The publication of A11 to EN 60335-1:2012 implies an important change in the application of the dow of this standard and the corresponding Parts 2.		P
ZZA	ANNEX ZZA (INFORMATIVE) RELATIONSHIP BETWEEN THIS EUROPEAN STANDARD AND THE SAFETY OBJECTIVES OF DIRECTIVE 2014/35/EU [2014 OJ L96] AIMED TO BE COVERED		—
	This standard provides one means of conforming to safety objectives of Directive 2014/35/EU		P
	When cited in the Official Journal under that Directive, compliance with the normative clauses of this standard given in Table ZZA.1 confers a presumption of conformity with the safety objectives of that Directive and associated EFTA regulations		P
	Compliance with this Part 1 when used together with the relevant Part 2 provides one means of conformity with the safety objectives		P
ZZB	ANNEX ZZB (INFORMATIVE) RELATIONSHIP BETWEEN THIS EUROPEAN STANDARD AND THE ESSENTIAL REQUIREMENTS OF DIRECTIVE 2006/42/EC AIMED TO BE COVERED		—
	This standard provides one means of conforming to essential requirements of EU Directive 2006/42/EC		N/A
	When cited in the Official Journal under that Directive, compliance with the normative clauses of this standard given in Table ZZB.1 confers a presumption of conformity with the essential requirements of that Directive and associated EFTA regulations		N/A
	Compliance with this Part 1 when used together with the relevant Part 2 provides one means of conformity with the essential health and safety requirements		N/A

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Clause	Requirement - Test	Result - Remark	Verdict

CENELEC COMMON MODIFICATIONS (EN)			—
20.2	<i>Replace “dangerous” with “hazardous” (twice).</i>		P
22.44	<i>In sub Clause 22.44, replace the text by the following:</i>		—
	An appliance is child-appealing if one of the following criteria is present:		N/A
	— 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:		—
	— 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 at a 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 probe 19 of IEC 61032 located at a height less than 850 mm shall exceed the temperature rises stated below: <i>Temperature rise</i> — 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

IEC 60335_1Y - ATTACHMENT			
Clause	Requirement - Test	Result - Remark	Verdict
	The requirement is not applicable to appliances where there is a toy shaped like the appliance.		N/A
24.1.7	<i>Replace the sub clause with the following:</i>		—
	If the remote operation of the appliance is via a telecommunication network, the relevant standard for the telecommunication interface circuitry in the appliance is IEC 62151.		N/A

The requirement of EN 60335-1:2012 / A16:2023			
Clause	Requirement - Test	Result - Remark	Verdict
22	CONSTRUCTION		—
22.44	Replace in the third paragraph the sentence starting with “ If the appliance is child-appealing...” up to “..., the following conditions shall be met”: by the following:		—
	If the appliance is child-appealing and:		—
	— has a mass less than 4 kg; and		N/A
	— is mounted or normally intended for use at a height less than 850 mm		N/A

--End of attachment 3--