

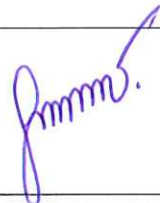



Test Report issued under the responsibility of:



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 :	50127017 001
Date of issue	2018.04.23
Total number of pages	236
Name of Testing Laboratory preparing the Report	TÜV Rheinland Thailand Ltd.
Applicant's name	Toshiba Carrier (Thailand) Co., Ltd.
Address :	144/9 Moo 5, Bangkadi Industrial Park, Tivanon Road, Tambol Bangkadi, Amphur Muang, Pathumthani 12000, Thailand
Test specification:	
Standard	IEC 60335-2-40:2013, AMD1:2016 in conjunction with IEC 60335-1:2010, AMD1:2013, AMD2:2016
Test procedure :	CB Scheme
Non-standard test method	N/A
Test Report Form No.	IEC60335_2_40M
Test Report Form(s) Originator :	VDE Testing and Certification Institute
Master TRF	Dated 2017-10-06
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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:	
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Test item description	Air Conditioner (Multi-type)
Trade Mark	TOSHIBA
Manufacturer	Same as Applicant
Model/Type reference	Indoor unit: RAS-M07U2 series, RAS-M10U2 series, RAS-M13U2 series, RAS-M16U2 series, RAS-M22U2 series, RAS-M24U2 series, RAS-B10U2 series, RAS-B13U2 series, RAS-B18U2 series, RAS-M10U2M series, RAS-M13U2M series, RAS-M16U2M series, RAS-B22PK series, RAS-B24PK series Outdoor unit: RAS-3M26U2AVG series, RAS-4M27U2AVG series, RAS-5M34U2AVG series (See difference between models on page 15)
Ratings	AC 220 - 240V, 50Hz; IPX4 (Outdoor unit); Refrigerant: R32; Class I; (For details, see on page 15)

Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
<input checked="" type="checkbox"/>	CB Testing Laboratory:	TÜV Rheinland Thailand Ltd.
Testing location/ address		Global Technology Assessment Center (GTAC); 123/1, Floor 1-2, Soi Chalongkung 31, Ladkrabang Industrial Estate, Lamplatew, Ladkrabang, Bangkok 10520, THAILAND
Tested by (name, function, signature).....:		Montree Kumkratug 
Approved by (name, function, signature)....:		Pasiwat Phonsawang 
<input type="checkbox"/>	Testing procedure: CTF Stage 1:	
Testing location/ address		
Tested by (name, function, signature).....:		
Approved by (name, function, signature)....:		
<input type="checkbox"/>	Testing procedure: CTF Stage 2:	
Testing location/ address		
Tested by (name + signature)		
Witnessed by (name, function, signature) .:		
Approved by (name, function, signature)....:		
<input type="checkbox"/>	Testing procedure: CTF Stage 3:	
<input type="checkbox"/>	Testing procedure: CTF Stage 4:	
Testing location/ address		
Tested by (name, function, signature).....:		
Witnessed by (name, function, signature) .:		
Approved by (name, function, signature)....:		
Supervised by (name, function, signature) :		

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

- Attachment 1: Photographic Documentation (68 pages)
- Attachment 2: EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES (29 pages)

Summary of testing:

The product complies with the requirements of referred standard in this test report.

Tests performed (name of test and test clause):

Testing and consideration according to below clauses, annexes have been conducted:

- Clause 7: Marking and instructions
- Clause 8: Protection against access to live parts
- Clause 10: Power input
- Clause 11: Heating
- Clause 13: Leakage current and electric strength at operating temperature
- Clause 15: Moisture resistance
- Clause 16: Leakage current and electric strength
- Clause 17: Overload projection of Transformer
- Clause 19: Abnormal operation
- Clause 20: Stability and mechanical hazards
- Clause 21: Mechanical strength
- Clause 22: Construction
- Clause 23: Internal wiring
- Clause 24: Components
- Clause 25: Supply connection and external flexible cord
- Clause 26: Terminals for external conductors
- Clause 27: Provision for earthing
- Clause 28: Screws and connections
- Clause 29: Clearances, creepage distances and solid insulation
- Clause 30: Resistance to heat and fire
- Clause 31: Resistance to rusting
- Clause 32: Radiation, Toxicity and similar hazards

Testing location:

TÜV Rheinland Thailand Ltd.

Global Technology Assessment Center (GTAC);
123/1, Floor 1-2, Soi Chalongsung 31,
Ladkrabang Industrial Estate,
Lamplatew, Ladkrabang, Bangkok 10520,
THAILAND

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

EU Group Differences

EU Group Differences= European Group Differences

The product fulfils the requirements of EN 60335-2-40:2003 (incl. Corr.:2006) + A11:2004 + A12:2005 + A1:2006 + A2:2009 + A13:2012 (incl. Corr.:2013)
EN 60335 1:2012 (incl. Corr.:2014) EN 60335 1:2012 + AC:2014 + A11:2014
EN 62233:2008 IEC62233:2005

Copy of marking plate:

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

Indoor unit: (Slim duct Type)

<p>TOSHIBA AIR CONDITIONER RAS-M07U2DVG-E</p> <p>220-240V ~ 50Hz 220V ~ 60Hz 80 W 16 kg</p> <p>DATE OF MANUFACTURE 2018.03 SERIAL No. 790C0005</p> <p>Name of the manufacturer Toshiba Carrier Air Conditioning (China) Co., Ltd.</p> <p>Address, city, country Building 1, No.60, 21st Avenue And 2nd Floor, Building 3, No.235, 23st Avenue, Baiyang Street, Hangzhou Economic and Technological Development Area, China</p> <p>Name of the Importer / Distributor in EU TOSHIBA CARRIER EUROPE S.A.S</p> <p>Address, city, country Route de Thil 01120 Montluel FRANCE</p> <p>    </p> <p>Toshiba Carrier Air Conditioning (China) Co., Ltd. MADE IN CHINA </p>	<p>TOSHIBA AIR CONDITIONER RAS-M10U2DVG-E</p> <p>220-240V ~ 50Hz 220V ~ 60Hz 80 W 16 kg</p> <p>DATE OF MANUFACTURE 2018.03 SERIAL No. 790C0005</p> <p>Name of the manufacturer Toshiba Carrier Air Conditioning (China) Co., Ltd.</p> <p>Address, city, country Building 1, No.60, 21st Avenue And 2nd Floor, Building 3, No.235, 23st Avenue, Baiyang Street, Hangzhou Economic and Technological Development Area, China</p> <p>Name of the Importer / Distributor in EU TOSHIBA CARRIER EUROPE S.A.S</p> <p>Address, city, country Route de Thil 01120 Montluel FRANCE</p> <p>    </p> <p>Toshiba Carrier Air Conditioning (China) Co., Ltd. MADE IN CHINA </p>	<p>TOSHIBA AIR CONDITIONER RAS-M13U2DVG-E</p> <p>220-240V ~ 50Hz 220V ~ 60Hz 80 W 16 kg</p> <p>DATE OF MANUFACTURE 2018.03 SERIAL No. 790C0005</p> <p>Name of the manufacturer Toshiba Carrier Air Conditioning (China) Co., Ltd.</p> <p>Address, city, country Building 1, No.60, 21st Avenue And 2nd Floor, Building 3, No.235, 23st Avenue, Baiyang Street, Hangzhou Economic and Technological Development Area, China</p> <p>Name of the Importer / Distributor in EU TOSHIBA CARRIER EUROPE S.A.S</p> <p>Address, city, country Route de Thil 01120 Montluel FRANCE</p> <p>    </p> <p>Toshiba Carrier Air Conditioning (China) Co., Ltd. MADE IN CHINA </p>
<p>TOSHIBA AIR CONDITIONER RAS-M16U2DVG-E</p> <p>220-240V ~ 50Hz 220V ~ 60Hz 100 W 19 kg</p> <p>DATE OF MANUFACTURE 2018.03 SERIAL No. 790C0005</p> <p>Name of the manufacturer Toshiba Carrier Air Conditioning (China) Co., Ltd.</p> <p>Address, city, country Building 1, No.60, 21st Avenue And 2nd Floor, Building 3, No.235, 23st Avenue, Baiyang Street, Hangzhou Economic and Technological Development Area, China</p> <p>Name of the Importer / Distributor in EU TOSHIBA CARRIER EUROPE S.A.S</p> <p>Address, city, country Route de Thil 01120 Montluel FRANCE</p> <p>    </p> <p>Toshiba Carrier Air Conditioning (China) Co., Ltd. MADE IN CHINA </p>	<p>TOSHIBA AIR CONDITIONER RAS-M22U2DVG-E</p> <p>220-240V ~ 50Hz 220V ~ 60Hz 114 W 22 kg</p> <p>DATE OF MANUFACTURE 2018.03 SERIAL No. 790C0005</p> <p>Name of the manufacturer Toshiba Carrier Air Conditioning (China) Co., Ltd.</p> <p>Address, city, country Building 1, No.60, 21st Avenue And 2nd Floor, Building 3, No.235, 23st Avenue, Baiyang Street, Hangzhou Economic and Technological Development Area, China</p> <p>Name of the Importer / Distributor in EU TOSHIBA CARRIER EUROPE S.A.S</p> <p>Address, city, country Route de Thil 01120 Montluel FRANCE</p> <p>    </p> <p>Toshiba Carrier Air Conditioning (China) Co., Ltd. MADE IN CHINA </p>	<p>TOSHIBA AIR CONDITIONER RAS-M24U2DVG-E</p> <p>220-240V ~ 50Hz 220V ~ 60Hz 119 W 22 kg</p> <p>DATE OF MANUFACTURE 2018.03 SERIAL No. 790C0005</p> <p>Name of the manufacturer Toshiba Carrier Air Conditioning (China) Co., Ltd.</p> <p>Address, city, country Building 1, No.60, 21st Avenue And 2nd Floor, Building 3, No.235, 23st Avenue, Baiyang Street, Hangzhou Economic and Technological Development Area, China</p> <p>Name of the Importer / Distributor in EU TOSHIBA CARRIER EUROPE S.A.S</p> <p>Address, city, country Route de Thil 01120 Montluel FRANCE</p> <p>    </p> <p>Toshiba Carrier Air Conditioning (China) Co., Ltd. MADE IN CHINA </p>

Copy of marking plate: (continued)

Indoor unit: (Slim duct Type)

<p>TOSHIBA KLİMA RAS-M07U2DVG-TR 220-240V ~ 50Hz 220V ~ 60Hz 80 W 16 kg Üretim yılı 2018.03 SERİ NUMARASI 589C0001</p> <p>İmalatçı : Toshiba Carrier Air Conditioning (China) Co., Ltd.</p> <p>Adres : Building 1, No.60, 21st Avenue And 2nd Floor, Building 3, No.235, 23st Avenue, Baiyang Street, Hangzhou Economic and Technological Development Area, China</p> <p>İthalatçı : ALARKO CARRIER SANAYİ VE TİCARET A.Ş.</p> <p>Adres : GOSB GEEZE ORGANİZE SANAYİ BÖLGESİ SAHABETTİN BİLGİSÜ CAD.41480 GEBZE KOCAELİ, TÜRKİYE</p> <p> </p> <p>   </p> <p>Toshiba Carrier Air Conditioning (China) Co., Ltd. MADE IN CHINA ÜRETİM YERİ Çin</p> <p></p>	<p>TOSHIBA KLİMA RAS-M10U2DVG-TR 220-240V ~ 50Hz 220V ~ 60Hz 80 W 16 kg Üretim yılı 2018.03 SERİ NUMARASI 589C0001</p> <p>İmalatçı : Toshiba Carrier Air Conditioning (China) Co., Ltd.</p> <p>Adres : Building 1, No.60, 21st Avenue And 2nd Floor, Building 3, No.235, 23st Avenue, Baiyang Street, Hangzhou Economic and Technological Development Area, China</p> <p>İthalatçı : ALARKO CARRIER SANAYİ VE TİCARET A.Ş.</p> <p>Adres : GOSB GEEZE ORGANİZE SANAYİ BÖLGESİ SAHABETTİN BİLGİSÜ CAD.41480 GEBZE KOCAELİ, TÜRKİYE</p> <p> </p> <p>   </p> <p>Toshiba Carrier Air Conditioning (China) Co., Ltd. MADE IN CHINA ÜRETİM YERİ Çin</p> <p></p>	<p>TOSHIBA KLİMA RAS-M13U2DVG-TR 220-240V ~ 50Hz 220V ~ 60Hz 80 W 16 kg Üretim yılı 2018.03 SERİ NUMARASI 589C0001</p> <p>İmalatçı : Toshiba Carrier Air Conditioning (China) Co., Ltd.</p> <p>Adres : Building 1, No.60, 21st Avenue And 2nd Floor, Building 3, No.235, 23st Avenue, Baiyang Street, Hangzhou Economic and Technological Development Area, China</p> <p>İthalatçı : ALARKO CARRIER SANAYİ VE TİCARET A.Ş.</p> <p>Adres : GOSB GEEZE ORGANİZE SANAYİ BÖLGESİ SAHABETTİN BİLGİSÜ CAD.41480 GEBZE KOCAELİ, TÜRKİYE</p> <p> </p> <p>   </p> <p>Toshiba Carrier Air Conditioning (China) Co., Ltd. MADE IN CHINA ÜRETİM YERİ Çin</p> <p></p>
<p>TOSHIBA KLİMA RAS-M16U2DVG-TR 220-240V ~ 50Hz 220V ~ 60Hz 100 W 19 kg Üretim yılı 2018.03 SERİ NUMARASI 589C0001</p> <p>İmalatçı : Toshiba Carrier Air Conditioning (China) Co., Ltd.</p> <p>Adres : Building 1, No.60, 21st Avenue And 2nd Floor, Building 3, No.235, 23st Avenue, Baiyang Street, Hangzhou Economic and Technological Development Area, China</p> <p>İthalatçı : ALARKO CARRIER SANAYİ VE TİCARET A.Ş.</p> <p>Adres : GOSB GEEZE ORGANİZE SANAYİ BÖLGESİ SAHABETTİN BİLGİSÜ CAD.41480 GEBZE KOCAELİ, TÜRKİYE</p> <p> </p> <p>   </p> <p>Toshiba Carrier Air Conditioning (China) Co., Ltd. MADE IN CHINA ÜRETİM YERİ Çin</p> <p></p>	<p>TOSHIBA KLİMA RAS-M22U2DVG-TR 220-240V ~ 50Hz 220V ~ 60Hz 114 W 22 kg Üretim yılı 2018.03 SERİ NUMARASI 589C0001</p> <p>İmalatçı : Toshiba Carrier Air Conditioning (China) Co., Ltd.</p> <p>Adres : Building 1, No.60, 21st Avenue And 2nd Floor, Building 3, No.235, 23st Avenue, Baiyang Street, Hangzhou Economic and Technological Development Area, China</p> <p>İthalatçı : ALARKO CARRIER SANAYİ VE TİCARET A.Ş.</p> <p>Adres : GOSB GEEZE ORGANİZE SANAYİ BÖLGESİ SAHABETTİN BİLGİSÜ CAD.41480 GEBZE KOCAELİ, TÜRKİYE</p> <p> </p> <p>   </p> <p>Toshiba Carrier Air Conditioning (China) Co., Ltd. MADE IN CHINA ÜRETİM YERİ Çin</p> <p></p>	<p>TOSHIBA KLİMA RAS-M24U2DVG-TR 220-240V ~ 50Hz 220V ~ 60Hz 119 W 22 kg Üretim yılı 2018.03 SERİ NUMARASI 589C0001</p> <p>İmalatçı : Toshiba Carrier Air Conditioning (China) Co., Ltd.</p> <p>Adres : Building 1, No.60, 21st Avenue And 2nd Floor, Building 3, No.235, 23st Avenue, Baiyang Street, Hangzhou Economic and Technological Development Area, China</p> <p>İthalatçı : ALARKO CARRIER SANAYİ VE TİCARET A.Ş.</p> <p>Adres : GOSB GEEZE ORGANİZE SANAYİ BÖLGESİ SAHABETTİN BİLGİSÜ CAD.41480 GEBZE KOCAELİ, TÜRKİYE</p> <p> </p> <p>   </p> <p>Toshiba Carrier Air Conditioning (China) Co., Ltd. MADE IN CHINA ÜRETİM YERİ Çin</p> <p></p>

Copy of marking plate: (continued)

Indoor unit: (ConsoleType)

TOSHIBA
**AIR CONDITIONER
RAS-B10U2FVG-E
220-240V~ 50Hz**
16kg 50W
SERIAL NO. 12345678

 Details of specification,
please see the catalogue
or label of outdoor unit.

**TOSHIBA CARRIER (THAILAND) CO.,LTD.
MADE IN THAILAND**

**Name of manufacturer
TOSHIBA CARRIER (THAILAND) CO.,LTD.
Address, city, country
144/9 Moo 5, Bangkadi Industrial Park,
Tivanon Road, Tambol Bangkadi,
Amphur Muang, Pathumthani 12000, Thailand**
**Name of Importer/Distributor in EU
TOSHIBA CARRIER EUROPE S.A.S
Address, city, country
Route de Thil 01120 Montluel FRANCE**


1072049286

TOSHIBA
**AIR CONDITIONER
RAS-B13U2FVG-E
220-240V~ 50Hz**
16kg 50W
SERIAL NO. 12345678

 Details of specification,
please see the catalogue
or label of outdoor unit.

**TOSHIBA CARRIER (THAILAND) CO.,LTD.
MADE IN THAILAND**

**Name of manufacturer
TOSHIBA CARRIER (THAILAND) CO.,LTD.
Address, city, country
144/9 Moo 5, Bangkadi Industrial Park,
Tivanon Road, Tambol Bangkadi,
Amphur Muang, Pathumthani 12000, Thailand**
**Name of Importer/Distributor in EU
TOSHIBA CARRIER EUROPE S.A.S
Address, city, country
Route de Thil 01120 Montluel FRANCE**


1072049287

TOSHIBA
**AIR CONDITIONER
RAS-B18U2FVG-E
220-240V~ 50Hz**
16kg 50W
SERIAL NO. 12345678

 Details of specification,
please see the catalogue
or label of outdoor unit.

**TOSHIBA CARRIER (THAILAND) CO.,LTD.
MADE IN THAILAND**

**Name of manufacturer
TOSHIBA CARRIER (THAILAND) CO.,LTD.
Address, city, country
144/9 Moo 5, Bangkadi Industrial Park,
Tivanon Road, Tambol Bangkadi,
Amphur Muang, Pathumthani 12000, Thailand**
**Name of Importer/Distributor in EU
TOSHIBA CARRIER EUROPE S.A.S
Address, city, country
Route de Thil 01120 Montluel FRANCE**


1072049288

Copy of marking plate: (continued)

Indoor unit: (ConsoleType)

TOSHIBA
KLİMA
RAS-B10U2FVG-TR
220-240 V~ 50Hz

16 kg 50W

SERİ NUMARASI. **12345678**

Detaylı bilgi için lütfen katalog
veya dış ünite etiketine bakınız.

Üretim yılı **2018**
Year

TOSHIBA CARRIER (THAILAND) CO., LTD.
ÜRETİM YERİ TAYLAND



Information for Turkey only
İmalatçı : Toshiba Carrier (Thailand) Co.,Ltd.
Adres : 144/9 Moo 5, Bangkadi Industrial Park,
Tivanon Rd., A.Muang, Pathumthani 12000

İmalatçı Firma : Alarko Carrier San.Tic.A.S.
Adres : GOSB-Gebze Organize San.BoI.
Sahabettin Bilgisu Cad.Gebze Kocaeli/Türkiye



1072049480

TOSHIBA
KLİMA
RAS-B13U2FVG-TR
220-240 V~ 50Hz

16 kg 50W

SERİ NUMARASI. **12345678**

Detaylı bilgi için lütfen katalog
veya dış ünite etiketine bakınız.

Üretim yılı **2018**
Year

TOSHIBA CARRIER (THAILAND) CO., LTD.
ÜRETİM YERİ TAYLAND



Information for Turkey only
İmalatçı : Toshiba Carrier (Thailand) Co.,Ltd.
Adres : 144/9 Moo 5, Bangkadi Industrial Park,
Tivanon Rd., A.Muang, Pathumthani 12000

İmalatçı Firma : Alarko Carrier San.Tic.A.S.
Adres : GOSB-Gebze Organize San.BoI.
Sahabettin Bilgisu Cad.Gebze Kocaeli/Türkiye



1072049481

TOSHIBA
KLİMA
RAS-B18U2FVG-TR
220-240 V~ 50Hz

16 kg 50W

SERİ NUMARASI. **12345678**

Detaylı bilgi için lütfen katalog
veya dış ünite etiketine bakınız.

Üretim yılı **2018**
Year

TOSHIBA CARRIER (THAILAND) CO., LTD.
ÜRETİM YERİ TAYLAND



Information for Turkey only
İmalatçı : Toshiba Carrier (Thailand) Co.,Ltd.
Adres : 144/9 Moo 5, Bangkadi Industrial Park,
Tivanon Rd., A.Muang, Pathumthani 12000

İmalatçı Firma : Alarko Carrier San.Tic.A.S.
Adres : GOSB-Gebze Organize San.BoI.
Sahabettin Bilgisu Cad.Gebze Kocaeli/Türkiye



1072049482

Copy of marking plate: (continued)

Indoor unit: (Compact 4way Type)

TOSHIBA

AIR CONDITIONER

 MODEL **RAS-M10U2MUVG-E**


 220-240V ~ 50Hz
 220V ~ 60Hz
 65 W
 15kg

PRODUCTION YEAR 2018

SERIAL NO. 802A0002

Manufacturer TOSHIBA CARRIER CORPORATION
Address 336, Tadehara, Fuji-shi, Shizuoka-ken 416-8521 JAPAN
Importer TOSHIBA CARRIER EUROPE S.A.S
Address Route de Thil 01120 Montluel FRANCE

TOSHIBA CARRIER CORPORATION
 MADE IN JAPAN


	WARNING
	ELECTRICAL SHOCK HAZARD Disconnect all remote electric power supplies before servicing.

TOSHIBA

AIR CONDITIONER

 MODEL **RAS-M13U2MUVG-E**


 220-240V ~ 50Hz
 220V ~ 60Hz
 65 W
 15kg

PRODUCTION YEAR 2018

SERIAL NO. 802A0002

Manufacturer TOSHIBA CARRIER CORPORATION
Address 336, Tadehara, Fuji-shi, Shizuoka-ken 416-8521 JAPAN
Importer TOSHIBA CARRIER EUROPE S.A.S
Address Route de Thil 01120 Montluel FRANCE

TOSHIBA CARRIER CORPORATION
 MADE IN JAPAN


	WARNING
	ELECTRICAL SHOCK HAZARD Disconnect all remote electric power supplies before servicing.

TOSHIBA

AIR CONDITIONER

 MODEL **RAS-M16U2MUVG-E**


 220-240V ~ 50Hz
 220V ~ 60Hz
 65 W
 15kg

PRODUCTION YEAR 2018

SERIAL NO. 802A0002

Manufacturer TOSHIBA CARRIER CORPORATION
Address 336, Tadehara, Fuji-shi, Shizuoka-ken 416-8521 JAPAN
Importer TOSHIBA CARRIER EUROPE S.A.S
Address Route de Thil 01120 Montluel FRANCE

TOSHIBA CARRIER CORPORATION
 MADE IN JAPAN


	WARNING
	ELECTRICAL SHOCK HAZARD Disconnect all remote electric power supplies before servicing.

Copy of marking plate: (continued)

Indoor unit: (Compact 4way Type)

TOSHIBA

KLİMA

MODEL RAS-M10U2MUVG-TR

220-240V ~ 50Hz

220V ~ 60Hz

65 W

15kg

Üretim yılı 2018

SERİ NUMARASI 802A0002

İmalatçı : TOSHIBA CARRIER CORPORATION
Adres : 336, Tadehara, Fuji-shi, Shizuoka-ken
416-8521 JAPANİthalatçı : ALARKO CARRIER SANAYİ VE TİCARET A.Ş.
Adres : GOSB-GEBZE ORGANİZE SANAYİ BOLGESİ
SAHABETTİN BİLGİSÜ CAD. 41480
GEBZE-KOCAELİ, TÜRKİYE**TOSHIBA CARRIER CORPORATION**
MADE IN JAPAN
ÜRETİM YERİ JAPONYA**TOSHIBA**

KLİMA

MODEL RAS-M13U2MUVG-TR

220-240V ~ 50Hz

220V ~ 60Hz

65 W

15kg

Üretim yılı 2018

SERİ NUMARASI 802A0002

İmalatçı : TOSHIBA CARRIER CORPORATION
Adres : 336, Tadehara, Fuji-shi, Shizuoka-ken
416-8521 JAPANİthalatçı : ALARKO CARRIER SANAYİ VE TİCARET A.Ş.
Adres : GOSB-GEBZE ORGANİZE SANAYİ BOLGESİ
SAHABETTİN BİLGİSÜ CAD. 41480
GEBZE-KOCAELİ, TÜRKİYE**TOSHIBA CARRIER CORPORATION**
MADE IN JAPAN
ÜRETİM YERİ JAPONYA**TOSHIBA**

KLİMA

MODEL RAS-M16U2MUVG-TR

220-240V ~ 50Hz

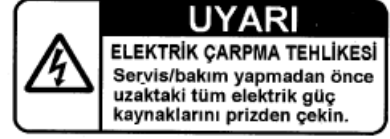
220V ~ 60Hz

65 W

15kg





















Üretim yılı 2018

SERİ NUMARASI 802A0002

İmalatçı : TOSHIBA CARRIER CORPORATION
Adres : 336, Tadehara, Fuji-shi, Shizuoka-ken
416-8521 JAPANİthalatçı : ALARKO CARRIER SANAYİ VE TİCARET A.Ş.
Adres : GOSB-GEBZE ORGANİZE SANAYİ BOLGESİ
SAHABETTİN BİLGİSÜ CAD. 41480
GEBZE-KOCAELİ, TÜRKİYE**TOSHIBA CARRIER CORPORATION**
MADE IN JAPAN
ÜRETİM YERİ JAPONYA

Copy of marking plate: (continued)

Indoor unit: (Hi-wall Type)

<p>TOSHIBA AIR CONDITIONER RAS-B22PKVSG-E 220-240 V~50Hz  14kg 45W SERIAL NO. 73200001</p>	<p>Details of specification, Please see attached specification sheet or label of outdoor unit. TOSHIBA CARRIER (THAILAND) CO.,LTD. MADE IN THAILAND   </p>	<p>Name of manufacturer TOSHIBA CARRIER (THAILAND) CO.,LTD. Address, city, country 144/9 Moo 5, Bangkadi Industrial Park, Tivanon Road, Tambol Bangkadi, Amphur Muang, Pathumthani 12000, Thailand Name of importer/Distributor in EU TOSHIBA CARRIER EUROPE S.A.S Address, city, country Route de Thil 01120 Montuel FRANCE</p>	 1072050850
<p>TOSHIBA AIR CONDITIONER RAS-B24PKVSG-E 220-240 V~50Hz  14kg 50W SERIAL NO. 73200001</p>	<p>Details of specification, Please see attached specification sheet or label of outdoor unit. TOSHIBA CARRIER (THAILAND) CO.,LTD. MADE IN THAILAND   </p>	<p>Name of manufacturer TOSHIBA CARRIER (THAILAND) CO.,LTD. Address, city, country 144/9 Moo 5, Bangkadi Industrial Park, Tivanon Road, Tambol Bangkadi, Amphur Muang, Pathumthani 12000, Thailand Name of importer/Distributor in EU TOSHIBA CARRIER EUROPE S.A.S Address, city, country Route de Thil 01120 Montuel FRANCE</p>	 1072050851
<p>TOSHIBA KLİMA RAS-B22PKVSG-TR 220-240 V~ 50Hz  14kg 45W SERİ NUMARASI. 73200015</p>	<p>Detaylı bilgi için lütfen teknik özellikler tablosuna veya dış ünite etiketine bakınız. Üretim yılı 2017 TOSHIBA CARRIER (THAILAND) CO.,LTD. ÜRETİM YERİ TAYLAND</p>	<p>Information for Turkey only İmalatçı : Toshiba Carrier (Thailand) Co.,Ltd. Adres : 144/9 Moo 5, Bangkadi Industrial Park, Tivanon Rd., A.Muang, Pathumthani 12000 İmalatçı Firma : Alarko Carrier San.Tic.A.Ş. Adres : GOSB-Gebze Organize San.Boł. Şahabettin Bilgilişu Cad. Gebze Kocaeli/Türkiye   </p>	 1072049474
<p>TOSHIBA KLİMA RAS-B24PKVSG-TR 220-240 V~ 50Hz  14kg 50W SERİ NUMARASI. 73200015</p>	<p>Detaylı bilgi için lütfen teknik özellikler tablosuna veya dış ünite etiketine bakınız. Üretim yılı 2017 TOSHIBA CARRIER (THAILAND) CO.,LTD. ÜRETİM YERİ TAYLAND</p>	<p>Information for Turkey only İmalatçı : Toshiba Carrier (Thailand) Co.,Ltd. Adres : 144/9 Moo 5, Bangkadi Industrial Park, Tivanon Rd., A.Muang, Pathumthani 12000 İmalatçı Firma : Alarko Carrier San.Tic.A.Ş. Adres : GOSB-Gebze Organize San.Boł. Şahabettin Bilgilişu Cad. Gebze Kocaeli/Türkiye   </p>	 1072049474

Copy of marking plate: (continued)

Outdoor unit:

TOSHIBA
AIR CONDITIONER

Model : **RAS-3M26U2AVG-E**
 Serial No. **82100003**
 Net weight **72 kg**

Power supply **220-240V~ 50Hz**

Power **Max. 3.80 kW**
 Capacity and input were measured under following conditions;

	Indoor temp.		Outdoor temp.	
	D.B.	W.B.	D.B.	W.B.
Cooling	27°C	19°C	35°C	24°C
Heating	20°C	15°C	7°C	6°C

The **WIRING DIAGRAM** is located on top of the electrical parts box.

R32 **1.92 kg**
MAXIMUM OPERATING PRESSURE
 Hi 4.29 / Lo 2.26 MPa
 Hi 42.9 / Lo 22.6 bar

Details of specification, please see catalog.

TOTAL PIPE LENGTH	m
CHARGELESS PIPE LENGTH	m
PIPE LENGTH (1 UNIT)	m
PIPING HEIGHT DIFFERENCE	m

Be sure to install with 2 indoor units.

REFRIGERANT
R32

Contains fluorinated gases.



CAUTION

- Do not use any refrigerant different from the one specified for complement or replacement.
- Refer to installation manual in details.

TOSHIBA CARRIER (THAILAND) CO.,LTD.
 MADE IN THAILAND

IPX4 **1072086801**

TOSHIBA
AIR CONDITIONER

Model : **RAS-4M27U2AVG-E**
 Serial No. **82100003**
 Net weight **72 kg**

Power supply **220-240V~ 50Hz**

Power **Max. 3.90 kW**
 Capacity and input were measured under following conditions;

	Indoor temp.		Outdoor temp.	
	D.B.	W.B.	D.B.	W.B.
Cooling	27°C	19°C	35°C	24°C
Heating	20°C	15°C	7°C	6°C

The **WIRING DIAGRAM** is located on top of the electrical parts box.

R32 **1.92 kg**
MAXIMUM OPERATING PRESSURE
 Hi 4.29 / Lo 2.26 MPa
 Hi 42.9 / Lo 22.6 bar

Details of specification, please see catalog.

TOTAL PIPE LENGTH	m
CHARGELESS PIPE LENGTH	m
PIPE LENGTH (1 UNIT)	m
PIPING HEIGHT DIFFERENCE	m

Be sure to install with 2 indoor units.

REFRIGERANT
R32

Contains fluorinated gases.



CAUTION

- Do not use any refrigerant different from the one specified for complement or replacement.
- Refer to installation manual in details.

TOSHIBA CARRIER (THAILAND) CO.,LTD.
 MADE IN THAILAND

IPX4 **1072086802**

TOSHIBA
AIR CONDITIONER

Model : **RAS-6M34U2AVG-E**
 Serial No. **82100003**
 Net weight **78 kg**

Power supply **220-240V~ 50Hz**

Power **Max. 4.40kW**
 Capacity and input were measured under following conditions;

	Indoor temp.		Outdoor temp.	
	D.B.	W.B.	D.B.	W.B.
Cooling	27°C	19°C	35°C	24°C
Heating	20°C	15°C	7°C	6°C

The **WIRING DIAGRAM** is located on top of the electrical parts box.

R32 **2.39 kg**
MAXIMUM OPERATING PRESSURE
 Hi 4.29 / Lo 2.26 MPa
 Hi 42.9 / Lo 22.6 bar

Details of specification, please see catalog.

TOTAL PIPE LENGTH	m
CHARGELESS PIPE LENGTH	m
PIPE LENGTH (1 UNIT)	m
PIPING HEIGHT DIFFERENCE	m

Be sure to install with 2 indoor units.

REFRIGERANT
R32

Contains fluorinated gases.



CAUTION

- Do not use any refrigerant different from the one specified for complement or replacement.
- Refer to installation manual in details.

TOSHIBA CARRIER (THAILAND) CO.,LTD.
 MADE IN THAILAND

IPX4 **1072086803**

Copy of marking plate: (continued)

Outdoor unit:

TOSHIBA
KLİMA
RAS-3M26U2AVG-TR
SERİ NUMARASI 82100004
72 kg
Üretim yılı 2018
220-240V~ 50Hz
3.80 kW
R32 1.92 kg
4.29 / 2.26 MPa
42.9 / 22.6 bar

 Kabloleme şeması, elektrikli
 parçalar kısmı üzerindedir.

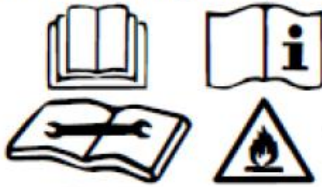
Detaylı bilgi için lütfen kataloğa bakınız

TOPLAM BORULAMA MESAFESİ	m
ŞARJSIZ BORULAMA MESAFESİ	m
BORULAMA MESAFESİ (1 ÜNİTE)	m
BORULAMA YÜKSEKLİK FARKI	m

 Lütfen 2 iç ünite ile
 bağladığınızdan emin olunuz.

SOĞUTUCU AKIŞKAN
R32

Florlanmış sera gazları içerir.


⚠ DİKKAT

- Belirtilen soğutucu akışkandan farklı bir soğutucu akışkan kullanmayınız.
- Detaylı bilgi için lütfen montaj kılavuzuna bakınız.

TOSHIBA CARRIER (THAILAND) CO.,LTD.

ÜRETİM YERİ TAYLAND

IPX4 1072086901
TOSHIBA
KLİMA
RAS-4M27U2AVG-TR
SERİ NUMARASI 82100003
72 kg
Üretim yılı 2018
220-240V~ 50Hz
3.90 kW
R32 1.92 kg
4.29 / 2.26 MPa
42.9 / 22.6 bar

 Kabloleme şeması, elektrikli
 parçalar kısmı üzerindedir.

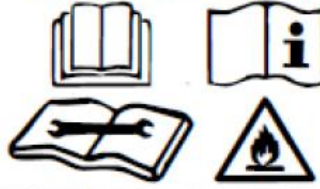
Detaylı bilgi için lütfen kataloğa bakınız

TOPLAM BORULAMA MESAFESİ	m
ŞARJSIZ BORULAMA MESAFESİ	m
BORULAMA MESAFESİ (1 ÜNİTE)	m
BORULAMA YÜKSEKLİK FARKI	m

 Lütfen 2 iç ünite ile
 bağladığınızdan emin olunuz.

SOĞUTUCU AKIŞKAN
R32

Florlanmış sera gazları içerir.


⚠ DİKKAT

- Belirtilen soğutucu akışkandan farklı bir soğutucu akışkan kullanmayınız.
- Detaylı bilgi için lütfen montaj kılavuzuna bakınız.

TOSHIBA CARRIER (THAILAND) CO.,LTD.

ÜRETİM YERİ TAYLAND

IPX4 1072086902
TOSHIBA
KLİMA
RAS-5M34U2AVG-TR
SERİ NUMARASI 82100003
78 kg
Üretim yılı 2018
220-240V~ 50Hz
4.40 kW
R32 2.39 kg
4.29 / 2.26 MPa
42.9 / 22.6 bar

 Kabloleme şeması, elektrikli
 parçalar kısmı üzerindedir.

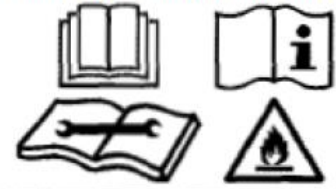
Detaylı bilgi için lütfen kataloğa bakınız

TOPLAM BORULAMA MESAFESİ	m
ŞARJSIZ BORULAMA MESAFESİ	m
BORULAMA MESAFESİ (1 ÜNİTE)	m
BORULAMA YÜKSEKLİK FARKI	m

 Lütfen 2 iç ünite ile
 bağladığınızdan emin olunuz.

SOĞUTUCU AKIŞKAN
R32

Florlanmış sera gazları içerir.


⚠ DİKKAT

- Belirtilen soğutucu akışkandan farklı bir soğutucu akışkan kullanmayınız.
- Detaylı bilgi için lütfen montaj kılavuzuna bakınız.

TOSHIBA CARRIER (THAILAND) CO.,LTD.

ÜRETİM YERİ TAYLAND

IPX4 1072086903

Test item particulars	
Classification of installation and use	Class I, Fixed appliance except Slim duct ,Compact 4 Way Indoor unit type for Built-in appliance
Supply Connection	Fixed wiring connection
.....	
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	2018.02.15
Date (s) of performance of tests	2018.02.15-2018.03.19
General remarks:	
<p>"(See Enclosure #)" 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 <input type="checkbox"/> comma / <input type="checkbox"/> point is used as the decimal separator.</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)	1.Toshiba Carrier Corporation Fuji Factory & Engineering Center 336, Tadehara, Fuji-shi, Shizuoka 416-8521 Japan 2. Toshiba Carrier (Thailand) Co., Ltd. 144/9 Moo 5, Bangkadi Industrial Park, Tivanon Road,Tambol Bangkadi, Amphur Muang, Pathumthani 12000, Thailand

General product information:

The appliances covered by this report are split type air conditioners for cooling and heating modes. They are class I appliances.

Cooling and heating modes are applied by reverse cycle method (no additional heating elements). Each system consists of indoor and outdoor unit. The indoor units are Slim duct, Console, Compact 4way and Hi-wall Type.

The Outdoor units are provided with terminals for connection to supply main by fixed wires and also terminals for connection to indoor units.

The main power is supplied by a single-phase, 3-pole power supply cable (including PE). Outdoor and indoor parts are connected by interconnection cable.

The indoor unit is equipped with a wired remote control unit and infrared wireless battery powered remote control unit.

The refrigerant of R32 is used in this air conditioner.

Difference between the models:

Indoor Unit Rating 220-240V, 50Hz 220V, 60Hz	Type	Power input	PCB	Fan motor	Outdoor Unit Rating 220-240V, 50Hz/ 220V, 60Hz	Power input	PCB	Compressor
RAS-M07U2DVG-E RAS-M07U2DVG-TR	Slim duct	80W	MCC-1643	ICF-340WD94-3, ICF-340WD94-4	RAS-3M26U2AVG-E RAS-3M26U2AVG-TR	3.80kW	MCC-1571 & WP-041	DX220A2T-20L
RAS-M10U2DVG-E RAS-M10U2DVG-TR								
RAS-M13U2DVG-E RAS-M13U2DVG-TR								
RAS-M16U2DVG-E RAS-M16U2DVG-TR		100W						
RAS-M22U2DVG-E RAS-M22U2DVG-TR		114W						
RAS-M24U2DVG-E RAS-M24U2DVG-TR		119W						
RAS-B10U2FVG-E RAS-B10U2FVG-TR	Console	50W	MCC-5068	ICF-340-41-1	RAS-4M27U2AVG-E RAS-4M27U2AVG-TR	3.90kW	MCC-1571 & WP-041	DX220A2T-20L
RAS-B13U2FVG-E RAS-B13U2FVG-TR								
RAS-B18U2FVG-E RAS-B18U2FVG-TR								
RAS-M10U2MUVG-E RAS-M10U2MUVG-TR	Compact 4 Way Cassette	65W	MCC-1643	ICF-340D60-1	RAS-5M34U2AVG-E RAS-5M34U2AVG-TR	4.40kW	MCC-1571 & WP-041	DX270A2T-20L
RAS-M13U2MUVG-E RAS-M13U2MUVG-TR								
RAS-M16U2MUVG-E RAS-M16U2MUVG-TR								
RAS-B22PKVSG-E RAS-B22PKVSG-TR	Hi-wall	45W	WP-038	ICF-340-30-6, MF-340-30-1RT	RAS-5M34U2AVG-E RAS-5M34U2AVG-TR	4.40kW	MCC-1571 & WP-041	DX270A2T-20L
RAS-B24PKVSG-E RAS-B24PKVSG-TR		50W						

General product information: (continued)

The model RAS-M07U2DVG-E is the same construction RAS-M07U2DVG-TR except model name identification for marketing purpose.

The model RAS-M10U2DVG-E is the same construction RAS-M10U2DVG-TR except model name identification for marketing purpose.

The model RAS-M13U2DVG-E is the same construction RAS-M13U2DVG-TR except model name identification for marketing purpose.

The model RAS-M16U2DVG-E is the same construction RAS-M16U2DVG-TR except model name identification for marketing purpose.

The model RAS-M22U2DVG-E is the same construction RAS-M22U2DVG-TR except model name identification for marketing purpose.

The model RAS-M24U2DVG-E is the same construction RAS-M24U2DVG-TR except model name identification for marketing purpose.

Different between model RAS-M07U2DVG-E, RAS-M10U2DVG-E, RAS-M13U2DVG-E, RAS-M16U2DVG-E, RAS-M22U2DVG-E, RAS-M24U2DVG-E are capacity see table 24.1 for more detail.

The model RAS-B10U2FVG-E is the same construction RAS-B10U2FVG-TR except model name identification for marketing purpose.

The model RAS-B13U2FVG-E is the same construction RAS-B13U2FVG-TR except model name identification for marketing purpose.

The model RAS-B18U2FVG-E is the same construction RAS-B18U2FVG-TR except model name identification for marketing purpose.

Different between model RAS-B10U2FVG-E, RAS-B13U2FVG-E, RAS-B18U2FVG-E are capacity see table 24.1 for more detail.

The model RAS-M10U2MUVG-E is the same construction RAS-M10U2MUVG-TR except model name identification for marketing purpose.

The model RAS-M13U2MUVG-E is the same construction RAS-M13U2MUVG-TR except model name identification for marketing purpose.

The model RAS-M16U2MUVG-E is the same construction RAS-M16U2MUVG-TR except model name identification for marketing purpose.

Different between model RAS-M10U2MUVG-E, RAS-M13U2MUVG-E, RAS-M16U2MUVG-E are capacity see table 24.1 for more detail.

The model RAS-B22PKVSG-E is the same construction RAS-B22PKVSG-TR except model name identification for marketing purpose.

The model RAS-B24PKVSG-E is the same construction RAS-B24PKVSG-TR except model name identification for marketing purpose.

Different between model RAS-B22PKVSG-E, RAS-B24PKVSG-E are capacity see table 24.1 for more detail.

The model RAS-3M26U2AVG-E is the same construction RAS-3M26U2AVG-TR except model name identification for marketing purpose.

The model RAS-4M27U2AVG-E is the same construction RAS-4M27U2AVG-TR except model name identification for marketing purpose.

The model RAS-5M34U2AVG-E is the same construction RAS-5M34U2AVG-TR except model name identification for marketing purpose.

General product information: (continued)

Different between model RAS-3M26U2AVG-E and RAS-4M27U2AVG-E are power input see table 24.1 for more detail.

The following models were selected as representative samples for testing to represent all models in this report.

1.) Indoor unit model RAS-B24PKVSG-E, RAS-M13PKVPG-E, RAS-M13U2MUVG-E, RAS-B10U2FVG-E and RAS-M07U2DVG-E matching with outdoor unit model RAS-5M34U2AVG-E were selected for testing to represent indoor model in this report.

2.) Indoor unit model RAS-M24U2DVG-E, RAS-M13U2MUVG-E, RAS-B10U2FVG-E and RAS-M07U2DVG-E matching with outdoor unit model RAS-4M27U2AVG-E were selected for testing to represent indoor model in this report.

3) Indoor unit model RAS-M24U2DVG-E, RAS-M13U2MUVG-E, RAS-B10U2FVG-E and RAS-M07U2DVG-E matching with outdoor unit model RAS-3M26U2AVG-E are tested additionally for clause 10.

This report is considered only 220-240V~ 50Hz. The models RAS-M13PKVPG-E is dummy load.



If no other statement, the highest measurement value was filled in this report.

Test performed on production samples without serial number.


If no other statement, the following ambient temperature conditions were kept during the test:

	<u>Maximum Cooling</u>	<u>Minimum Cooling</u>
	D.B./W.B.	D.B./W.B.
Outdoor unit	46°C/-	-10°C/-
Indoor unit	32°C/-	21°C/-
	<u>Maximum Heating</u>	<u>Minimum heating</u>
	D.B./W.B.	D.B./W.B.
Outdoor unit	24°C/-	-15°C /-
Indoor unit	28°C/-	0°C /-

General product information: (continued)
Options:
Wireless Remote Controller

Model Name	Receiver	Wireless Remote Controller	Used with
RBC-AX32UM(W)-E	 <p>Connection via connector of CN214 on Indoor unit P.C.Board</p>	<p>WH-L11SE</p> 	Compact 4-way Air Discharge Cassette Type (RAS-M**U2MUVG*)

Wired Remote Controller

Controller	Model Name	Comment
<p>Wired Remote Controller</p> 	RB-RWS21-E RB-RWS20-E	Connection via Terminal <input type="checkbox"/> <input type="checkbox"/>

Others

Model Name	Reference	Used with
RBC-UM21PG(W)-E	Ceiling panel	Compact 4-way Air Discharge Cassette Type (RAS-M**U2MUVG*)
TCB-SIR41UM-E	Occupancy sensor	Compact 4-way Air Discharge Cassette Type (RAS-M**U2MUVG*)

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 60335-2-40:2013)		P
	At least one additional specially prepared sample required for tests of annex FF (Leak simulation tests) (IEC 60335-2-40:2013)		P
	Temperatures on refrigerant piping measured during test of clause 11 (IEC 60335-2-40:2013)		N/A
5.6	Appropriate controls rendered inoperative during test (IEC 60335-2-40:2013)		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 60335-2-40:2013)		P
5.10	For split-package units, refrigerant lines installed in accordance with installation instructions (IEC 60335-2-40:2013)		P
	Length of pipe is between 5 m and 7,5 m. (IEC 60335-2-40:2013)		P
	Thermal insulation of refrigerant lines applied in accordance with installation instructions (IEC 60335-2-40:2013)		P
5.101	Motor-compressor subjected to relevant test of clause 19 of IEC 60335-2-34, unless (IEC 60335-2-40:2013)		P
	motor-compressor comply with that standard (IEC 60335-2-40:2013)		N/A
5.102	Motor-compressors tested and comply with IEC 60335-2-34 need not additionally tested for clause 21 (IEC 60335-2-40:2013)		N/A
6	CLASSIFICATION		—
6.1	Protection against electric shock: Class I, II, III (IEC 60335-2-40:2013)	Class I	P
6.2	Protection against harmful ingress of water, IP degree in accordance with IEC 60529 (IEC 60335-2-40:2013)		P
	- appliances or parts intended for outdoor use be at least IPX4 (IEC 60335-2-40:2013)	IPX4, outdoor unit	P
	- appliances intended only for indoor use (excluding laundry rooms) be IPX0 (IEC 60335-2-40:2013)	IPX0, indoor unit	P

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	- appliances intended to be used in laundry rooms be at least IPX1 (IEC 60335-2-40:2013)	No such appliance	N/A
6.101	Degree of accessibility (accessible/not accessible to the general public) (IEC 60335-2-40:2013)	Accessible to general public	P
7	MARKING AND INSTRUCTIONS		—
7.1	Rated voltage or voltage range (V)	See page 2	P
	Symbol for nature of supply, or	~	P
	Rated frequency (Hz)	See page 2	P
	Rated power input (W), or	See page 15	P
	Rated current (A)		N/A
	Manufacturer's or responsible vendor's name, trademark or identification mark	TOSHIBA	P
	Model or type reference	See page 15	P
	Symbol IEC 60417-5172, for class II appliances	No such appliance	N/A
	IP number, other than IPX0.....	IPX4, outdoor unit	P
	Symbol IEC 60417-5180, for class III appliances, unless	No such appliance	N/A
	the appliance is operated by batteries only, or		N/A
	for appliances powered by rechargeable batteries recharged in the appliance		N/A
	Symbol IEC 60417-5018, for class II and class III appliances incorporating a functional earth		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
	Refrigerant charge (IEC 60335-2-40:2013/am1:2016).....	See page 12-13	P
	Refrigerant as designated under ISO 817 or ANSI/ASHRAE 34 (IEC 60335-2-40:2013/am1:2016).....	R32	P
	Permissible excessive operating pressure for sanitary hot water heat pumps (IEC 60335-2-40:2013).....	No such construction	N/A
	Maximum operating pressure in the water and/or brine for the heat exchanger for hydronic fan coil units (IEC 60335-2-40:2013/am1:2016).....	No such construction	N/A
	Maximum operating pressure for the refrigerant circuit; if the permissible excessive operating pressure for the suction and discharge side differ, a separate indication is required; (IEC 60335-2-40:2013).....	High-pressure side: 4.15MPa Low-pressure side: 2.21MPa	P

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	Symbol for degree of protection against ingress of water, other than IPX0 (IEC 60335-2-40:2013).... :	IPX4 (outdoor unit)	P
	Separate marking of appliances with all rated characteristics of supplementary heaters (IEC 60335-2-40:2013)..... :	No such supplementary heater	N/A
	Marking of direction of fluid flow (IEC 60335-2-40:2013)	It is evident from the design	N/A
	Flame symbol and instruction manual symbol of 7.6 visible when flammable refrigerant employed and following conditions exist (IEC 60335-2-40:2013):		P
	- accessing parts expected to be subjected to maintenance or repair (IEC 60335-2-40:2013)		P
	- observing appliance under sale or installed conditions (IEC 60335-2-40:2013)		P
	- observing appliance packaging, if appliance charged with refrigerant (IEC 60335-2-40:2013)		P
	If a flammable refrigerant is used, the symbols for "read operator's manual", "operator's manual; operating instructions" and "service indicator; read technical manual" (symbols ISO 7000-0790 (2004-01), ISO-7000-1641 (2004-01) and ISO 7000-1659 (2004-01)) shall be placed on the appliance in a location visible to the persons required to know the information. The perpendicular height shall be at least 10 mm. (IEC 60335-2-40:2013)		P
	Additional warning symbol (flame symbol: W021 of ISO 7010) 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 60335-2-40:2013)		P
	When installed, the marking should be visible after removing a detachable part (IEC 60335-2-40:2013)		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 60335-2-40:2013)		N/A
	Not fixed appliances, minimum room size X specified on appliance. X in marking determined in m ² according to Clause GG.2 for unventilated areas and the X in the marking shall not be required if the refrigerant charge (m _c) of the appliance is up to m ₁ according to GG.1.1. (IEC 60335-2-40:2013/am1:2016)		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Maximum allowable pressure for low-pressure side and high-pressure side marked on product (IEC 60335-2-40:2013)	High-pressure side: 4.15MPa Low-pressure side: 2.21MPa	P
	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 60335-2-40:2013)	Symbols ISO7010-W021 used(IEC 60335-2-40 (ed.5))	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 or rated frequencies, the voltage or the frequency setting is clearly discernible		N/A
	Requirement met if frequent changes are not required and the rated voltage or rated frequency 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 or current are 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 W021 of ISO 7010, including colour and format, permanently placed on appliance. Perpendicular height of triangle containing "Caution, risk of fire" symbol be at least 30 mm (IEC 60335-2-40:2013)	R32	P
	Flammable refrigerant, symbol requiring reference to manual [ISO 7000-0790 (2004-01)], including colour and format, permanently placed on appliance (IEC 60335-2-40:2013)		P
	Symbol ISO 7010-W021 (IEC 60335-2-40:2013)		P
	Symbol ISO 7000-1641 (IEC 60335-2-40:2013)		P
	Symbol ISO 7000-1641 (IEC 60335-2-40:2013)		P

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Clause	Requirement + Test	Result - Remark	Verdict
	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
	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		P
	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)		P
	- marking of protective earthing terminals (symbol IEC 60417-5019)		P
	- marking of functional earthing terminals (symbol IEC 60417-5018)		N/A
	- 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	Figure and letter used	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		P
	The figure 0 indicates only OFF position, unless no confusion with the OFF position		P
7.11	Indication for direction of adjustment of controls		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 60335-2-40:2013)	Accessible to general public	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 60335-2-40:2013)	See installation instruction and operation manual	P
	The instructions state that:		—

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Clause	Requirement + Test	Result - Remark	Verdict
	- the appliance is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction		P
	- children being supervised not to play with the appliance		P
	For a part of class III construction supplied from a detachable power supply unit, the instructions state that the appliance is only to be used with the unit provided		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
	For appliances for altitudes exceeding 2000 m, the maximum altitude is stated..... :		N/A
	The instructions for appliances incorporating a functional earth states that the appliance incorporates an earth connection for functional purposes only		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
	If different rated voltages or different rated frequencies are marked, the instructions state what action to be taken to adjust the appliance		N/A
	Sufficient details for installation or maintenance supplied (IEC 60335-2-40:2013):		P
	- that the appliance shall be installed in accordance with national wiring regulations (IEC 60335-2-40:2013)		P
	- the dimensions of the space necessary for correct installation of the appliance including the minimum permissible distance to adjacent structures (IEC 60335-2-40:2013)		P
	- for appliances with supplementary heaters, the minimum clearance from the appliance to combustible surfaces (IEC 60335-2-40:2013)		N/A
	- a wiring diagram with a clear indication of the connections and wiring to external control devices and supply cord (IEC 60335-2-40:2013)		P
	- the range of external static pressures at which the appliance was tested (add-on heat pumps and appliances with supplementary heaters only) (IEC 60335-2-40:2013)	No such construction	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- the method of connection to the appliance to the electrical supply and interconnection of separate components (IEC 60335-2-40:2013)		P
	- indication of which parts of the appliance are suitable for outdoor use, if applicable (IEC 60335-2-40:2013)		P
	- details of type and rating of fuses , or rating of circuit breakers; (IEC 60335-2-40:2013)		P
	- 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 60335-2-40:2013)	No such supplementary heating element	N/A
	- maximum and minimum water or brine operating temperatures (IEC 60335-2-40:2013)		N/A
	- maximum and minimum water or brine operating pressures (IEC 60335-2-40:2013)		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 60335-2-40:2013)		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		P
	- dimensions and position of supporting and fixing		P
	- minimum distances between parts and surrounding structure		P
	- minimum dimensions of ventilating openings and arrangement		P
	- connection to supply mains and interconnection of separate components		P
	- allow disconnection of the appliance after installation, by accessible plug or a switch in the fixed wiring, unless		P
	a switch complying with 24.3		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
7.12.5	Replacement cord instructions, type X attachment with a specially prepared cord	Fixed wiring	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:		—
	- max. inlet water pressure (Pa) :	No such appliance	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
7.12.9	Instructions specified in 7.12 and from 7.12.1 to 7.12.8 appear together before any other instructions supplied with the appliance		P
	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		N/A
	In addition, instructions are also available in an alternative format such as on a website or on request from the user in a format such as a DVD		P
	In addition, instructions are also available in an alternative format such as on a website or in a format such as a DVD :	website	P
7.13	Instructions and other texts in an official language	English	P
7.14	Markings clearly legible and durable:		—
	Signal words WARNING, CAUTION, DANGER in uppercase having a height as specified :	>3.5mm	P
	Uppercase letter of the text explaining the signal word not smaller than 1,6 mm :	>1.6mm	P
	Moulded in, engraved, or stamped markings either raised above or have a depth below the surface of at least 0,25 mm, unless		N/A
	contrasting colours are used		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Markings checked by inspection, measurement and 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
	The symbol IEC 60417-5018 placed next to the symbol IEC 60417-5172 or IEC 60417-5180		N/A
	Marking on panel allowed, provided panel in place for intended operation of appliance (IEC 60335-2-40:2013)		N/A
7.16	Marking of a possible replaceable thermal link or fuse link clearly visible with regard to replacing the link		P
7.101	Marking of fuses and overload protective devices, if replaceable (IEC 60335-2-40:2013):		P
	- fuse rated current in amperes, type and rated voltage or (IEC 60335-2-40:2013)		P
	- manufacturer and model of overload protective device (IEC 60335-2-40:2013)		N/A
7.102	Marking for connection with aluminium wire, if necessary (IEC 60335-2-40:2013)		N/A
7.103	For appliances made up of more than one factory made assembly specified by the manufacturer to be used together, instructions shall be provided for completing the assembly to ensure compliance with the requirements. (IEC 60335-2-40:2013/am1:2016)		N/A
7.104	For partial units, the instructions or markings shall include the following additional information: (IEC 60335-2-40:2013/am1:2016)		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- For evaporating units and condensing units, the instructions or markings shall include wording to assure that the maximum operating pressure is considered when connecting to any condenser unit or evaporator unit. (IEC 60335-2-40:2013/am1:2016)		N/A
	- For evaporating units, condensing units and condenser units, the instructions or markings shall include refrigerant charging instructions. (IEC 60335-2-40:2013/am1:2016)		N/A
	- A warning to assure that partial units shall only be connected to an appliance suitable for the same refrigerant. (IEC 60335-2-40:2013/am1:2016)		N/A
	- This unit <model xxx> is a partial unit air conditioner, complying with partial unit requirements of this International Standard, and must only be connected to other units that have been confirmed as complying to corresponding partial unit requirements of this International Standard. (IEC 60335-2-40:2013/am1:2016)		N/A
	- The electrical interfaces shall be specified with purpose, voltage, current, and safety class of construction. (IEC 60335-2-40:2013/am1:2016)		N/A
	- The SELV connection points, if provided, are to be clearly indicated in the instructions. The connection point should be marked with the "read the instructions" symbol per ISO 7000-0790 (2004-01) and the Class III symbol according to IEC 60417-5180 (2003- 02). (IEC 60335-2-40:2013/am1:2016)		N/A
8	PROTECTION AGAINST ACCESS TO LIVE PARTS		—
8.1	Adequate protection against accidental contact with live parts		P
8.1.1	Requirement applies for all positions, detachable parts removed		P
	Lamps behind a detachable cover not removed, if conditions met		N/A
	Insertion or removal of lamps, protection against contact with live parts of the lamp cap		N/A
	Use of test probe B of IEC 61032, with a force not exceeding 1 N: no contact with live parts		P
	Use of test probe B of IEC 61032 through openings, with a force of 20 N: no contact with live parts		P

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Clause	Requirement + Test	Result - Remark	Verdict
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		P
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 or supporting parts		N/A
	For a single switching action obtained by a switching device, requirements as specified		N/A
	For appliances with a supply cord and without a switching device, the single switching action may be obtained by the withdrawal of the plug		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		N/A
	- or separated from live parts by protective impedance		N/A
	If protective impedance: d.c. current not exceeding 2 mA, and		N/A
	a.c. peak value not exceeding 0,7 mA		N/A
	- for peak values over 42,4 V up to and including 450 V, capacitance not exceeding 0,1 μ F		N/A
	- for peak values over 450 V up to and including 15 kV, discharge not exceeding 45 μ C		N/A
	- for peak values over 15 kV, the energy in the discharge not exceeding 350 mJ		N/A
8.1.5	Live parts protected at least by basic insulation before installation or assembly:		—
	- built-in appliances		P
	- fixed appliances		P
	- appliances delivered in separate units		P
	As regards the products which have a dedicated installation panel or cover and which cannot be installed without them, compliance is checked according to 5.10 (after the installation as instructed in the installation manual). (IEC 60335-2-40:2013)		P

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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
	If the power input varies throughout the operating cycle and the maximum value of the power input exceeds, by a factor greater than two, the arithmetic mean value of the power input occurring during a representative period, the power input is the maximum value that is exceeded for more than 10 % of the representative period		N/A
	Otherwise the power input is the arithmetic mean value		P
	Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless		P
	the rated power input is related to the arithmetic mean value		N/A
10.2	Current at normal operating temperature, rated voltage and normal operation not deviating from rated current by more than shown in table 2	(see appended table)	N/A
	If the current varies throughout the operating cycle and the maximum value of the current exceeds, by a factor greater than two, the arithmetic mean value of the current occurring during a representative period, the current is the maximum value that is exceeded for more than 10 % of the representative period		N/A
	Otherwise the current is the arithmetic mean value		N/A
	Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless		N/A
	the rated current is related to the arithmetic mean value of the range		N/A
11	HEATING		—

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Clause	Requirement + Test	Result - Remark	Verdict
11.1	No excessive temperatures in normal use (IEC 60335-2-40:2013)		P
	Compliance is checked by the tests of annex C, if (IEC 60335-2-40:2013):		N/A
	- temperature of motor winding exceeds values shown in table 3 (IEC 60335-2-40:2013)		N/A
	- there is doubt about classification of insulation system of the motor (IEC 60335-2-40:2013)		N/A
11.2	Placing and mounting of appliance (IEC 60335-2-40:2013):		P
	- clearances to adjacent surfaces (IEC 60335-2-40:2013)		P
	- flow rates for liquid source or sink equipment be minimum, except for hydronic fan coil units where flow rates and liquid temperatures be maximum (IEC 60335-2-40:2013)		N/A
	- static pressures (IEC 60335-2-40:2013)		N/A
	- means of adjusting the flow, flow for tests be minimum obtainable (IEC 60335-2-40:2013)		N/A
	- adjustable limit controls set at maximum cut-out setting and minimum differential (IEC 60335-2-40:2013)		P
	Appliances with supplementary heaters, use test casing of clause 11.9 (IEC 60335-2-40:2013)		N/A
11.2.1	Appliances with supplementary heaters, inlet duct connected to inlet air opening (IEC 60335-2-40:2013)		N/A
	Appliance that includes or has provision for supplementary heater is fitted with a metal outlet duct in accordance with Figure 101a) or Figure 101b), depending on the direction of the airflow. (IEC 60335-2-40:2013)		N/A
11.2.2	Ducted appliance without supplementary heaters, air outlet used (IEC 60335-2-40:2013)		P
11.2.3	For the evaluation and testing of partial units, the following test setup and conditions are to be applied. (IEC 60335-2-40:2013/am1:2016)		N/A
	- evaporator units and condenser units are tested as individual units at the maximum ambient temperature stated in the instructions. If not stated in the instructions, these units shall be tested at an ambient temperature that is equal to the saturated temperature of the refrigerant at the marked maximum allowable operating pressure ($\pm 0,1$ MPa) minus 10 K (± 1 K). (IEC 60335-2-40:2013/am1:2016)		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- condensing units are tested in the cooling mode only, at the maximum specified ambient temperature with 9 K (\pm 1 K) sub-cooling and the maximum specified evaporating pressure with 11 K (\pm 1 K) superheat. For condensing units provided with expansion device(s), the superheat/sub-cooling is to be as under the normal control of the expansion device(s). (IEC 60335-2-40:2013/am1:2016)		N/A
	- evaporating units, intended for cooling only, are tested in the cooling mode only with a condensing pressure that is equal to the marked maximum allowable operating pressure (\pm 0,1 MPa) with 9 K (\pm 1 K) sub-cooling. (IEC 60335-2-40:2013/am1:2016)		N/A
	- evaporating units that are intended for reverse cycle operation are tested in the heating mode only, at the maximum specified evaporating pressure. (IEC 60335-2-40:2013/am1:2016)		N/A
11.3	Temperature rise determine by thermocouples or resistance method (IEC 60335-2-40:2013)		P
11.4	Test performed at supply voltage between 0,94 and 1,06 times the rated voltage (IEC 60335-2-40:2013)		P
	Heating elements energized at voltage which gives an electrical input of 1,15 times maximum rated power input (IEC 60335-2-40:2013)		N/A
11.5	Test conducted in heating mode and cooling mode, if both exist (IEC 60335-2-40:2013)		P
	All supplementary heating elements operative simultaneously (IEC 60335-2-40:2013)		N/A
11.6	Defrost test in most unfavourable conditions, if needed (IEC 60335-2-40:2013)		N/A
11.7	Appliances operated continuously until steady conditions except for defrost tests (IEC 60335-2-40:2013)		P
11.8	Temperatures not exceeding values of table 3 (IEC 60335-2-40:2013)	(See appended tables)	P
	Protective devices do not operate (IEC 60335-2-40:2013)		P
	Sealing compound not flowing out (IEC 60335-2-40:2013)		P
	Temperature of air in outlet duct not exceed 90 °C (IEC 60335-2-40:2013)		P

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Clause	Requirement + Test	Result - Remark	Verdict
11.9	Test casing and installation of appliances in accordance with manufacturer's instructions (IEC 60335-2-40:2013)		N/A
	Glass fibre insulation for appliances without indication of minimum clearances according to manufacturer; thermocouple in contact with enclosure (IEC 60335-2-40:2013)		N/A
13	LEAKAGE CURRENT AND ELECTRIC STRENGTH AT OPERATING TEMPERATURE		—
13.1	Leakage current not excessive and electric strength adequate		P
	Heating appliances operated at 1,15 times the rated power input (W) :		N/A
	Motor-operated appliances and combined appliances supplied at 1,06 times the rated voltage (V) :	254.4V	P
	Protective impedance and radio interference filters disconnected before carrying out the tests		N/A
13.2	The leakage current is measured by means of the circuit described in figure 4 of IEC 60990:1999		P
	For stationary class I appliances, the leakage current shall not exceed 2 mA per kilowatt rated power input with a maximum value of 10 mA for appliances accessible to the general public, and a maximum value of 30 mA for appliances not accessible to the general public. (IEC 60335-2-40:2013)		P
	Leakage current measurements..... :	(see appended table)	P
13.3	The appliance is disconnected from the supply		P
	Electric strength tests according to table 4 :	(see appended table)	P
	No breakdown during the tests		P
14	TRANSIENT OVERVOLTAGES		—
	Appliances withstand the transient over-voltages to which they may be subjected		N/A
	Clearances having a value less than specified in table 16 subjected to an impulse voltage test, the test voltage specified in table 6 :	(see appended table)	N/A
	No flashover during the test, unless		N/A
	of functional insulation if the appliance complies with clause 19 with the clearance short-circuited		N/A
15	MOISTURE RESISTANCE		—

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Clause	Requirement + Test	Result - Remark	Verdict
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 60335-2-40:2013)		P
	Motor-compressor not operated and detachable parts removed during tests of clause 15.2 and 15.3 (IEC 60335-2-40:2013)		P
15.2	Tests in accordance with IEC 60529 in appliances other than IPX0, as specified (IEC 60335-2-40:2013)..... :	IPX4 (outdoor unit)	P
15.3	Drain pan filled to brim and subjected to continuous overflow and fan(s) switched on (IEC 60335-2-40:2013)		P
15.101	Spillage test as specified (IEC 60335-2-40:2013)	Except Slim duct ,Compact 4 Way indoor unit type, The height of indoor unit greater than 2.0m	P
	After spillage completed, appliance withstand test of clause 16 (IEC 60335-2-40:2013)		P
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		N/A
	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)..... :	254.4V, 233.2V	P
	Three-phase appliances: test voltage 1,06 times rated voltage divided by $\sqrt{3}$ (V)..... :		N/A
	Leakage current measurements (IEC 60335-2-40:2013)..... :	(see appended table)	P
	Limit values doubled if:		—
	- all controls have an off position in all poles, or		N/A
	- the appliance has no control other than a thermal cut-out, or		N/A
	- all thermostats, temperature limiters and energy regulators do not have an off position, or		N/A
	- the appliance has radio interference filters		N/A
	With the radio interference filters disconnected, the leakage current do not exceed limits specified..... :	(see appended table)	N/A
16.3	Electric strength tests according to table 7 :	(see appended table)	P

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Clause	Requirement + Test	Result - Remark	Verdict
	Test voltage applied between the supply cord and inlet bushing and cord guard and cord anchorage as specified..... :	(see appended table)	P
	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) :		P
	Basic insulation is not short-circuited		P
	Temperature rise of insulation of the conductors of safety extra-low voltage circuits not exceeding the relevant value specified in table 3 by more than 15 K		N/A
	Temperature of the winding not exceeding the value specified in table 8		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, mechanical damage or electric shock under abnormal or careless operation obviated		P
	Electronic circuits so designed and applied that a fault will not render the appliance unsafe :	(see appended table)	P
	Failure of transfer medium flow, or of any control device, does not result in a hazard (IEC 60335-2-40:2013)		P
	Appliances are subjected to the tests specified in 19.2 to 19.10, 19.101, 19.102 and 19.103, as applicable. (IEC 60335-2-40:2013)		P
	Appliances incorporating electronic circuits subjected to the tests of 19.11 and 19.12, as applicable		P
	Appliances incorporating contactors or relays subjected to the test of 19.14, being carried out before the tests of 19.11		P

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Clause	Requirement + Test	Result - Remark	Verdict
	Appliances incorporating voltage selector switches subjected to the test of 19.15		N/A
	Unless otherwise specified, the tests are continued until a non-self-resetting thermal cut-out operates, or		N/A
	until steady conditions are established		P
	If a heating element or intentionally weak part becomes open-circuited, the relevant test is repeated on a second sample		P
19.2	Test of appliances with supplementary heaters (IEC 60335-2-40:2013)		N/A
19.3	Test at temperature permitting continuous operation of the motor-compressor and electric heating elements at same time (IEC 60335-2-40:2013)		N/A
19.4	Test conditions as in clause 11, any control limiting the temperature during tests of clause 11 short-circuited		P
	Test of appliance with any defect which expected during normal use (IEC 60335-2-40:2013)		P
19.5	Test of 19.4 repeated on class 0I and I appliances with tubular sheathed or embedded heating elements. No short-circuiting, but one end of the element connected to the sheath		N/A
	The test repeated with reversed polarity and the other end of the heating element connected to the sheath		N/A
	The test is not carried out on appliances intended to be permanently connected to fixed wiring and on appliances where an all-pole disconnection occurs during the test of 19.4		N/A
19.6	Appliances with PTC heating elements tested at rated voltage, establishing steady conditions		N/A
	The working voltage of the PTC heating element is increased by 5 % and the appliance is operated until steady conditions are re-established. The voltage is then increased in similar steps until 1,5 times working voltage or until the PTC heating element ruptures (V)..... :		N/A
19.7	Test of appliance with motor rotors, other than motor-compressors and stationary circulation pumps in compliance with IEC 60335-2-51, operated for 15 days (360 h) or until protection device opens circuit (IEC 60335-2-40:2013)		P
	Insulation of motor windings (IEC 60335-2-40:2013)..... :	Class E	P

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	Temperature of enclosure does not exceed (°C) (IEC 60335-2-40:2013)..... :	<150°C	P
	Temperature of the windings does not exceed the values shown in the table 8; temperature (°C) (IEC 60335-2-40:2013)..... :	165°C for Class E	P
	Electric strength test as specified in 16.3, 72 h after the beginning of the test (IEC 60335-2-40:2013)		P
	At the end, leakage current between windings and enclosure does not exceed 2 mA (IEC 60335-2-40:2013)		P
	Winding temperatures not exceeding values specified in table 8..... :	(see appended table)	P
	If the motor-compressor has not been type-tested against the requirements of IEC 60335-2-34, a sample is provided with the rotor locked and being filled with oil and refrigerant as intended. (IEC 60335-2-40:2013)		P
	Sample is subjected to the tests specified in 19.101, 19.102, 19.103 and 19.105 of IEC 60335-2-34:2012, if applicable, and complies with the requirements in 19.104 of IEC 60335-2-34:2012. (IEC 60335-2-40:2013)		P
19.8	Three phase motors other than motor compressors are operated under the conditions of Clause 11 at rated voltage or at the upper limit of the rated voltage range with one phase disconnected, until steady conditions are obtained or the protective device operates. (IEC 60335-2-40:2013)		N/A
19.10	Series motor operated at 1,3 times rated voltage for 1 min (V)..... :		N/A
	During the test, parts not being ejected from the appliance		N/A
19.11	Electronic circuits, compliance checked by evaluation of the fault conditions specified in 19.11.2 for all circuits or parts of circuits, unless		P
	they comply with the conditions specified in 19.11.1		P
	Appliances incorporating an electronic circuit that relies upon a programmable component to function correctly, subjected to the test of 19.11.4.8, unless		P
	restarting does not result in a hazard		P

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Clause	Requirement + Test	Result - Remark	Verdict
	Appliances having a device with an off position obtained by electronic disconnection, or a device placing the appliance in a stand-by mode, subjected to the tests of 19.11.4		P
	If the safety of the appliance under any of the fault conditions depends on the operation of a miniature fuse-link complying with IEC 60127, the test of 19.12 is carried out		P
	During and after each test the following is checked:		—
	- the temperature of the windings do not exceed the values specified in table 8		P
	- the appliance complies with the conditions specified in 19.13		P
	- any current flowing through protective impedance not exceeding the limits specified in 8.1.4		N/A
	If a conductor of a printed board becomes open-circuited, the appliance is considered to have withstood the particular test, provided both of the following conditions are met:		—
	- the base material of the printed circuit board withstands the test of annex E		P
	- any loosened conductor does not reduce clearance or creepage distances between live parts and accessible metal parts below the values specified in clause 29		N/A
19.11.1	Fault conditions a) to g) in 19.11.2 are not applied to circuits or parts of circuits meeting both of the following conditions:		—
	- the electronic circuit is a low-power circuit, that is, the maximum power at low-power points does not exceed 15 W according to the tests specified		N/A
	- the protection against electric shock, fire hazard, mechanical hazard or dangerous malfunction of other parts of the appliance does not rely on the correct functioning of the electronic circuit		P
19.11.2	Fault conditions applied one at a time, the appliance operating under conditions specified in clause 11, but supplied at rated voltage, duration of the tests as specified:		—
	a) short circuit of functional insulation if clearances or creepage distances are less than the values specified in clause 29		N/A
	b) open circuit at the terminals of any component		P
	c) short circuit of capacitors, unless		P
	they comply with IEC 60384-14		P
	d) short circuit of any two terminals of an electronic component, other than integrated circuits		P

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Clause	Requirement + Test	Result - Remark	Verdict
	This fault condition is not applied between the two circuits of an optocoupler		P
	e) failure of triacs in the diode mode		N/A
	f) failure of microprocessors and integrated circuits		P
	g) failure of an electronic power switching device		P
	Each low power circuit is short-circuited by connecting the low-power point to the pole of the supply source from which the measurements were made		N/A
19.11.3	If the appliance incorporates a protective electronic circuit that operates to ensure compliance with clause 19, the appliance is tested as specified		P
19.11.4	The first paragraph of Part 1 in not applicable for stand-by mode if unintentional operation does not cause any hazards. (IEC 60335-2-40:2013)	The unintentional operation does not cause any hazards	P
	Appliances having a device with an off position obtained by electronic disconnection, or	See above	N/A
	a device that can be placed in the stand-by mode,		N/A
	subjected to the tests of 19.11.4.1 to 19.11.4.7, the device being set in the off position or in the stand-by mode		P
	Appliances incorporating a protective electronic circuit are subjected to the tests of 19.11.4.1 to 19.11.4.7. (IEC 60335-2-40:2013)		P
	Tests are carried out after the protective electronic circuit has operated during the relevant tests of Clause 19 except 19.2, 19.6, 19.11.3, 19.102 and 19.103. (IEC 60335-2-40:2013)		P
	If the appliance incorporates more than one protective electronic circuit, each protective electronic circuit has to be tested individually with the appliance operated under normal operation at any temperature within the working range. (IEC 60335-2-40:2013)		P
	Components protected by a protective electronic, if engineering judgement gives evidence that the test in the final application will not lead to a hazardous condition. (IEC 60335-2-40:2013)		P
	Surge protective devices disconnected, unless		N/A
	They incorporate spark gaps		N/A
	For these tests, it may be necessary to provide specially prepared component samples, e.g. compressors with locked rotor. (IEC 60335-2-40:2013)		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
19.11.4.1	The appliance is subjected to electrostatic discharges in accordance with IEC 61000-4-2, test level 4		P
19.11.4.2	The appliance is subjected to radiated fields in accordance with IEC 61000-4-3, at frequency ranges specified		P
19.11.4.3	The appliance is subjected to fast transient bursts in accordance with IEC 61000-4-4, test level 3 or 4 as specified		P
19.11.4.4	The power supply terminals of the appliance subjected to voltage surges in accordance with IEC 61000-4-5, test level 3 or 4 as specified		N/A
	An open circuit test voltage of 2 kV is applicable for the line-to-line coupling mode		N/A
	An open circuit test voltage of 4 kV is applicable for the line-to-earth coupling		N/A
	Earthed heating elements in class I appliances disconnected		N/A
19.11.4.5	The appliance is subjected to injected currents in accordance with IEC 61000-4-6, test level 3		N/A
19.11.4.6	Appliances having a rated current not exceeding 16 A are subjected to the class 3 voltage dips and interruptions in accordance with IEC 61000-4-11		N/A
	Appliances having a rated current exceeding 16 A are subjected to the class 3 voltage dips and interruptions in accordance with IEC 61000-4-34		N/A
19.11.4.7	The appliance is subjected to mains signals in accordance with IEC 61000-4-13, test level class 2		N/A
19.11.4.8	The appliance is supplied at rated voltage and operated under normal operation at any temperature within the working range. After 60 s the power supply is reduced to a level such that the appliance ceases to respond or parts controlled by the programmable component cease to operate. (IEC 60335-2-40:2013)		P
	The appliance continues to operate normally, or		N/A
	requires a manual operation to restart		P
19.12	If the safety of the appliance for any of the fault conditions specified in 19.11.2 depends on the operation of a miniature fuse-link complying with IEC 60127, the test is repeated, measuring the current flowing through the fuse-link; measured current (A); rated current of the fuse-link (A)..... :		P

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Clause	Requirement + Test	Result - Remark	Verdict
19.13	During the tests the appliance does not emit flames, molten metal, poisonous or ignitable gas in hazardous amounts		P
	Temperature rises not exceeding the values shown in table 9..... :	(see appended table)	P
	Compliance with clause 8 not impaired		P
	If the appliance can still be operated it complies with 20.2		P
	Insulation, other than of class III appliances or class III constructions that do not contain live parts, withstands the electric strength test of 16.3, the test voltage as specified in table 4:		—
	- basic insulation (V)	1250	P
	- supplementary insulation (V)	1750	P
	- reinforced insulation (V)	3000	P
	After operation or interruption of a control, clearances and creepage distances across the functional insulation withstand the electric strength test of 16.3, the test voltage being twice the working voltage		P
	The appliance does not undergo a dangerous malfunction, and		P
	no failure of protective electronic circuits, if the appliance is still operable		N/A
	Appliances tested with an electronic switch in the off position, or in the stand-by mode:		—
	- do not become operational, or		P
	- if they become operational, do not result in a dangerous malfunction during or after the tests of 19.11.4		P
	If the appliance contains lids or doors that are controlled by one or more interlocks, one of the interlocks may be released provided that:		—
	- the lid or door does not move automatically to an open position when the interlock is released, and		N/A
	- the appliance does not start after the cycle in which the interlock was released		N/A
19.14	Appliances operated under the conditions of clause 11, any contactor or relay contact operating under the conditions of clause 11 being short-circuited		P
	For a relay or contactor with more than one contact, all contacts are short-circuited at the same time		P

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Clause	Requirement + Test	Result - Remark	Verdict
	A relay or contactor operating only to ensure the appliance is energized for normal use is not short-circuited		P
	If more than one relay or contactor operates in clause 11, they are short-circuited in turn		P
	Locking in the "on" position of the main contacts of a contact intended for switching on and off the heating element(s) in normal use is considered to be a fault condition, unless the appliance is provided with at least two sets of contacts connected in series. (IEC 60335-2-40:2013)		N/A
	This condition is, for example, achieved by providing two contactors operating independently of each other or by providing one contactor having two independent armatures operating two independent sets of main contacts. (IEC 60335-2-40:2013)		N/A
19.15	For appliances with a mains voltage selector switch, the switch is set to the lowest rated voltage position and the highest value of rated voltage is applied		N/A
19.101	Test of appliance with heat transfer medium flow of the outdoor heat exchanger restricted or shut off when reaching steady conditions (IEC 60335-2-40:2013)		P
	Test of appliance with heat transfer flow of the indoor heat exchanger restricted or shut off when reaching steady conditions (IEC 60335-2-40:2013)		P
	Disconnection of motor common to both the outdoor and the indoor heat exchangers when reaching steady conditions (IEC 60335-2-40:2013)		N/A
19.102	Test of appliances using water as heat transfer medium (IEC 60335-2-40:2013)		N/A
19.103	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 60335-2-40:2013)		P
	Test with the dry-bulb temperature 10 K over the values specified by manufacturer (IEC 60335-2-40:2013)		P
19.104	All appliances provided with supplementary heaters and free air discharge subjected to specified test in each mode of operation (IEC 60335-2-40:2013)		N/A
	During test temperature not exceed 150 °C but an overshoot of 25 °C is permitted during first hour (IEC 60335-2-40:2013)		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Thermal protective devices are allowed to operate. (IEC 60335-2-40:2013)		N/A
20	STABILITY AND MECHANICAL HAZARDS		—
20.1	Appliances having adequate stability		P
	Tilting test through an angle of 10°, appliance placed on an inclined plane/horizontal support, not connected to the supply mains; appliance does not overturn	Fixed appliance	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		N/A
	Self-resetting thermal cut-outs and overcurrent protective devices not causing a hazard by unexpected closure		P
	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
	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 apply. Pressure test in annex EE applies to parts other than pressure vessels (IEC 60335-2-40:2013)		P

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Clause	Requirement + Test	Result - Remark	Verdict
	Safety requirements of ISO 14903 apply (IEC 60335-2-40:2013)	Base on Test report No. 02 220 JP/N-4091703	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		P
	The insulation is tested as specified, and does withstand the electric strength test of 16.3		P
	Appliances using flammable refrigerants withstand the effects of vibration during transport. (IEC 60335-2-40:2013)		P
	Appliance is tested in its final packaging for transport and shall withstand a random vibration test according to ASTM D4728-01. (IEC 60335-2-40:2013)		P
	Compliance is checked as specified (IEC 60335-2-40:2013)		P
22	CONSTRUCTION		—
22.1	Appliance marked with the first numeral of the IP system, relevant requirements of IEC 60529 are fulfilled	IPX4 (outdoor unit)	P
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
	Each pin subjected to a torque of 0,4 Nm; the pins are not rotating, unless		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	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 pins, for appliances having a capacitor with rated capacitance equal to or greater than 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
	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		N/A
	The discharge test is then repeated three times, 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 60335-2-40:2013)		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		N/A
22.10	Not possible to reset voltage-maintained non-self-resetting thermal cut-outs by the operation of an automatic switching device incorporated within the appliance, if:		N/A
	- a non-self-resetting thermal cut-out is required by the standard, and		N/A
	- a voltage maintained non-self-resetting thermal cut-out is used to meet it		N/A
	Non-self-resetting thermal motor protectors have a trip-free action, unless		N/A

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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		P
22.12	Handles, knobs etc. fixed in a reliable manner, if loosening result in a hazard		N/A
	Removing or fixing in wrong position of handles, knobs etc. indicating position of switches or similar components not possible, if resulting in a hazard		N/A
	A choking hazard does not apply to appliances for commercial use		N/A
	Axial force 15 N applied to parts, the shape being so that an axial pull is unlikely to be applied		N/A
	Axial force 30 N applied to parts, the shape being so that an axial pull is likely to be applied		N/A
	If the part is removed and can be contained within the small parts cylinder, it is considered to be a choking hazard		N/A
22.13	Unlikely that handles, when gripped as in normal use, make the operator's hand touch parts having a temperature rise exceeding the value specified for handles which are held for short periods only		N/A
22.14	No ragged or sharp edges creating a hazard for the user in normal use, or during user maintenance		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
	This requirement does not apply to the metallic fins of heat exchangers. (IEC 60335-2-40:2013)		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

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Clause	Requirement + Test	Result - Remark	Verdict
	Cord reel tested with 6000 operations, as specified		N/A
	Electric strength test of 16.3, voltage of 1000 V applied		N/A
22.17	Spacers not removable from the outside by hand or by means of a screwdriver or a spanner		N/A
22.18	Current-carrying parts and other metal parts resistant to corrosion		P
22.19	Driving belts not relied upon to provide the required level of insulation, unless		N/A
	constructed to prevent inappropriate replacement		N/A
22.20	Direct contact between live parts and thermal insulation effectively prevented, unless		N/A
	material used is non-corrosive, non-hygroscopic and non-combustible		N/A
22.21	Wood, cotton, silk, ordinary paper and fibrous or hygroscopic material not used as insulation, unless		P
	impregnated		N/A
	This requirement does not apply to magnesium oxide and mineral ceramic fibres used for the electrical insulation of heating elements		N/A
22.22	Appliances not containing asbestos		P
22.23	Oils containing polychlorinated biphenyl (PCB) not used		P
22.24	Bare heating elements adequately supported to prevent contact with accessible metal parts nor give rise to a hazard in case of rupture or sagging (IEC 60335-2-40:2013)		N/A
	Bare heating elements not used with wood or wood composite enclosures. (IEC 60335-2-40:2013)		N/A
22.25	Sagging heating conductors, except in class III appliances or class III constructions that do not contain live parts, cannot come into contact with accessible metal parts		N/A
22.26	For class III constructions the insulation between parts operating at safety extra-low voltage and other live parts complies with the requirements for double or reinforced insulation		N/A
22.27	Parts connected by protective impedance separated by double or reinforced insulation		N/A
22.28	Metal parts of class II appliances conductively connected to gas pipes or in contact with water, separated from live parts by double or reinforced insulation		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
22.29	Class II appliances permanently connected to fixed wiring so constructed that the required degree of access to live parts is maintained after installation		N/A
22.30	Parts serving as supplementary or reinforced insulation fixed so that they cannot be removed without being seriously damaged, or		N/A
	so constructed that they cannot be replaced in an incorrect position, and so that if they are omitted, the appliance is rendered inoperable or manifestly incomplete		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
	Ceramic and similar porous 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, or		P
	unearthed metal parts separated from live parts by basic insulation only		N/A
	Electrodes not used for heating liquids		N/A
	For class II constructions, conductive liquids that are or may become accessible in normal use and conductive liquids that are in contact with unearthed accessible metal parts, not in direct contact with basic or reinforced insulation, unless		P

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Clause	Requirement + Test	Result - Remark	Verdict
	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		P
	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		P
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 and cordless 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

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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		N/A
	Values specified in 8.1.4 not exceeded if any one of the components are short-circuited or open-circuited		N/A
	Resistors checked by the test of 14.1 a) in IEC 60065		N/A
	Capacitors checked by the tests for class Y capacitors in IEC 60384-14		N/A
22.43	Appliances adjustable for different voltages, accidental changing of the setting of the voltage unlikely to occur		N/A
22.44	Appliances not having an enclosure that is shaped or decorated like a toy		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
	If the protective electronic circuit software is a part of the normal operation control, inspection of software shall be limited to relevant source code of safety controls or related software controls. (IEC 60335-2-40:2013)		N/A
	Alternative methods are used (IEC 60335-2-40:2013)		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

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Clause	Requirement + Test	Result - Remark	Verdict
	These requirements are not applicable to software used for functional purpose or compliance with clause 11		P
22.47	Appliances connected to the water mains withstand the water pressure expected in normal use		N/A
	No leakage from any part, including any inlet water hose		N/A
22.48	Appliances connected to the water mains constructed to prevent backsiphonage of non-potable water		N/A
22.49	For remote operation, the duration of operation is to be set before the appliance can be started, unless		N/A
	the appliance switches off automatically or can operate continuously without hazard		N/A
22.50	Controls incorporated in the appliance take priority over controls actuated by remote operation		N/A
22.51	There is a control on the appliance manually adjusted to the setting for remote operation before the appliance can be operated in this mode		N/A
	There is a visual indication showing that the appliance is adjusted for remote operation		N/A
	These requirements not necessary on appliances that can operate as follows, without giving rise to a hazard:		—
	- continuously, or		N/A
	- automatically, or		N/A
	- remotely		N/A
22.52	Socket-outlets on appliances accessible to the user in accordance with the socket-outlet system used in the country in which the appliance is sold		N/A
22.53	Class II appliances and class III appliances that incorporate functionally earthed parts 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 not accessible without the aid of a tool, unless		N/A
	the cover of their compartment can only be opened after at least two independent movements have been applied simultaneously		N/A
22.55	Devices operated to stop the intended function of the appliance, if any, are to be distinguished from other manual devices by means of shape, size, surface texture or position		P
	The requirement concerning position does not preclude use of a push on push off switch		P

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Clause	Requirement + Test	Result - Remark	Verdict
	An indication when the device has been operated is given by:		—
	- tactile feedback from the actuator or from the appliance, or		N/A
	- reduction in heat output; or		N/A
	- audible and visible feedback		P
22.56	Detachable power supply part provided with the part of class III construction		N/A
22.57	The properties of non-metallic materials do not degrade from exposure to UV-C radiation, as specified in annex T		N/A
	This requirement does not apply to glass, ceramics or similar materials		N/A
22.101	Appliances intended to be fixed, securely fixed (IEC 60335-2-40:2013)		P
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 60335-2-40:2013)		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 60335-2-40:2013)		N/A
	However, for appliances intended to be connected to fixed wiring, the neutral conductor need not be disconnected (IEC 60335-2-40:2013)		N/A
22.102.3	Thermal cut-outs of capillary type open in event of leakage from capillary tube (IEC 60335-2-40:2013)		N/A
22.103	Non-self-resetting cut-outs independent of other control devices (IEC 60335-2-40:2013)		N/A
22.104	Containers of sanitary hot water heat pumps withstand twice permissible operating pressure in closed containers (IEC 60335-2-40:2013) or		N/A
	0,15 MPa in open containers (IEC 60335-2-40:2013)		N/A
	without leakage or rupture (IEC 60335-2-40:2013)		N/A
22.105	Air or vapour cushion in closed containers not exceeding 10 % (IEC 60335-2-40:2013)		N/A
22.106	Pressure relief devices operating at 0,1 MPa over permissible operating pressure (IEC 60335-2-40:2013)		N/A
22.107	Water outlet systems of open containers free from obstruction causing over-pressure (IEC 60335-2-40:2013)		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Vented containers of sanitary hot water heat pumps always open to the atmosphere through appropriate aperture (IEC 60335-2-40:2013)		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 60335-2-40:2013)		N/A
	Container show no deformation which result in a hazard (IEC 60335-2-40:2013)		N/A
22.109	Replacement of non-self-resetting thermal cut-outs does not damage other connections (IEC 60335-2-40:2013)		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 60335-2-40:2013)		N/A
	Test repeated five times without blowing 3 A fuse which connects appliance to earth (IEC 60335-2-40:2013)		N/A
	Electric strength test as specified in clause 16.3 for supplementary heating elements (IEC 60335-2-40:2013)		N/A
22.111	Manual resetting of thermostats not necessary after power supply interruption (IEC 60335-2-40:2013)		N/A
22.112	Construction of refrigerating system comply with requirements of Section 3 of ISO 5149 (IEC 60335-2-40:2013)		P
22.113	Flammable refrigerant used, refrigerant tubing protected or enclosed to avoid mechanical damage (IEC 60335-2-40:2013)		P
	Tubing protected to extent that it will not be handled or used for carrying during moving of product (IEC 60335-2-40:2013)		P
	Tubing located within confines of cabinet considered to be protected from mechanical damage (IEC 60335-2-40:2013)		P
22.114	Flammable refrigerant used, low temperature solder alloys, such as lead/tin alloys, not acceptable for pipe connections or any other refrigerant pressure containing purposes. (IEC 60335-2-40:2013)		P
22.115	Refrigerant charge (mc) of all refrigerating systems within appliance employing flammable refrigerants, not exceed m_3 defined in annex GG (IEC 60335-2-40:2013/am1:2016)		P
	The construction of the refrigerating system using flammable refrigerants shall comply with the requirements in Annex GG for (IEC 60335-2-40:2013/am1:2016)		P

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Clause	Requirement + Test	Result - Remark	Verdict
	- the maximum refrigerant charge (m_{max}), (IEC 60335-2-40:2013/am1:2016)		P
	- the minimum floor area A_{min} , (IEC 60335-2-40:2013/am1:2016)		P
	- mechanical ventilation, (IEC 60335-2-40:2013/am1:2016)		N/A
	- refrigerating systems employing secondary circuits. (IEC 60335-2-40:2013/am1:2016)		N/A
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 and connected ducts where electrical components, which could be a source of ignition and which could function under normal conditions or in event of leak, fitted (IEC 60335-2-40:2013/am1:2016)		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 60335-2-40:2013)		N/A
	All electrical components that could be a source of ignition and which could function under normal conditions or in the event of a leak, shall be located in an enclosure which satisfies the following (IEC 60335-2-40:2013):		N/A
	- comply with Clause 20 of IEC 60079-15:2010 for restricted breathing enclosures suitable for use with group IIA gases or the refrigerant used. (IEC 60335-2-40:2013)		N/A
	- not be located in an area where a potentially flammable gas mixture will accumulate as demonstrated by the test of Annex FF. Electrical components not located in an area where a potentially flammable gas mixture will accumulate as demonstrated by the test of Annex FF are not considered an ignition source. (IEC 60335-2-40:2013)		N/A
	Components and apparatus complying with Clause 8 to 19 of IEC 60079-15:2010, 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 IEC 60079-14 are not considered as a source of ignition. (IEC 60335-2-40:2013)		P
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 60335-2-40:2013)		P

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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 60335-2-40:2013)		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 60335-2-40:2013):		P
	- 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 60335-2-40:2013)	See installation manual	P
	- Mechanical connectors used indoors shall comply with ISO 14903. When mechanical connectors are reused indoors, sealing parts shall be renewed. When flared joints are reused indoors, the flare part shall be re-fabricated. (IEC 60335-2-40:2013)	Mechanical connectors used Outdoor, See installation manual Mechanical connectors used Indoor, base on Base on Test report No. 02 220 JP/N-4091703	P
	- Refrigerant tubing shall be protected or enclosed to avoid damage (IEC 60335-2-40:2013)		P
	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 60335-2-40:2013)	See installation manual	P
22.119	Condensing units and evaporating units are equipped with a pressure limiting device or equivalent to assure that the equipment does not exceed the maximum allowable pressure. (IEC 60335-2-40:2013/am1:2016)		N/A
	For partial units, the interconnection circuits for signal communication between each unit shall be of the same type. (IEC 60335-2-40:2013/am1:2016)		N/A
22.120	Partial units shall be provided with a means of connection to the supply mains and shall not be powered by an electrical circuit from another appliance. (IEC 60335-2-40:2013/am1:2016)		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

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Clause	Requirement + Test	Result - Remark	Verdict
	Wiring effectively prevented from coming into contact with moving parts		P
23.2	Beads etc. on live wires cannot change their position, and are not resting on sharp edges		N/A
	Beads inside flexible metal conduits contained within an insulating sleeve		N/A
23.3	Electrical connections and internal conductors movable relatively to each other not exposed to undue stress		N/A
	Flexible metallic tubes not causing damage to insulation of conductors		N/A
	Open-coil springs not used		N/A
	Adequate insulating lining provided inside a coiled spring, the turns of which touch one another		N/A
	No damage after 10 000 flexings for conductors flexed during normal use, or		N/A
	100 flexings for conductors flexed during user maintenance		N/A
	Electric strength test of 16.3, 1000 V between live parts and accessible metal parts		N/A
	Not more than 10 % of the strands of any conductor broken, and		N/A
	not more than 30 % for wiring supplying circuits that consume no more than 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
	For class II construction, the requirements for supplementary insulation and reinforced insulation apply,		P
	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		P

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Clause	Requirement + Test	Result - Remark	Verdict
23.6	Sleeving used as supplementary insulation on internal wiring retained in position by clamping at both ends, or		P
	be such that it can only be removed by breaking or cutting		P
23.7	The colour combination green/yellow only used for earthing conductors		P
23.8	Aluminium wires not used for internal wiring		P
23.9	Stranded conductors not consolidated by soldering where they are subjected to contact pressure, unless		P
	the contact pressure is provided by spring terminals		N/A
23.10	The insulation and sheath of internal wiring, incorporated in external hoses for the connection of an appliance to the water mains, at least equivalent to that of light polyvinyl chloride sheathed flexible cord (60227 IEC 52)		N/A
24	COMPONENTS		—
24.1	Components comply with safety requirements in relevant IEC standards		P
	List of components	(see appended table)	P
	Motors not required to comply with IEC 60034-1, they are tested as part of the appliance		P
	Relays tested as part of the appliance, or		P
	alternatively acc. to IEC 60730-1, and meeting the additional requirements in IEC 60335-1		N/A
	The requirements of clause 29 apply between live parts of components and accessible parts of the appliance		P
	Components can comply with the requirements for clearances and creepage distances for functional insulation in the relevant component standard		P
	30.2 of this standard apply to parts of non-metallic material in components including parts of non-metallic material supporting current-carrying connections		P
	Components that have not been previously tested to comply with the IEC standard for the relevant component are tested according to the requirements of 30.2		P
	Components that have been previously tested to comply with the resistance to fire requirements in the IEC standard for the relevant component need not be retested provided the specified conditions are met		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	If these conditions are not satisfied, the component is tested as part of the appliance.		P
	Power electronic converter circuits not required to comply with IEC 62477-1, they are tested as part of the appliance		P
	If components have not been tested and found to comply with relevant IEC standard for the number of cycles specified, they are tested in accordance with 24.1.1 to 24.1.9		P
	For components mentioned in 24.1.1 to 24.1.9 no additional tests specified in the relevant component standard are necessary other than those specified in 24.1.1 to 24.1.9		P
	Components not tested and found to comply with relevant IEC standard and components not marked or not used in accordance with its marking, tested under the conditions occurring in the appliance		P
	Lampholders and starterholders that have not being tested and found to comply with the relevant IEC standard, tested as a part of the appliance and additionally according to the gauging and interchangeability requirements of the relevant IEC standard		N/A
	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 60335-2-40:2013)		P
24.1.1	Capacitors likely to be permanently subjected to the supply voltage and used for radio interference suppression or for voltage dividing, comply with IEC 60384-14		P
	If the capacitors have to be tested, they are tested according to annex F		N/A
24.1.2	Transformers in associated switch mode power supplies comply with annex BB of IEC 61558-2-16		N/A
	Safety isolating transformers comply with IEC 61558-2-6		N/A
	If they have to be tested, they are tested according to annex G		N/A
24.1.3	Switches comply with IEC 61058-1, the number of cycles of operation being at least 10 000		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	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
24.1.4	Automatic controls comply 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:.....3000 (IEC 60335-2-40:2013)		N/A
	- voltage maintained non-self-resetting thermal cut-outs:.....1 000		N/A
	- other non-self-resetting thermal cut-outs:300 (IEC 60335-2-40:2013)		N/A
	- timers:.....3 000		N/A
	- energy regulators:10 000		N/A
	- thermostats which control motor-compressor (IEC 60335-2-40:2013)..... 100 000		N/A
	- motor-compressor starting relays (IEC 60335-2-40:2013)..... 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 60335-2-40:2013)min 2000		N/A
	- manual reset thermal motor-protectors for hermetic and semi-hermetic type motor-compressors (IEC 60335-2-40:2013) ... 50		N/A
	- other automatic thermal motor-protectors (IEC 60335-2-40:2013)..... 2000		N/A
	- other manual reset thermal motor-protectors (IEC 60335-2-40:2013)..... 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

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Clause	Requirement + Test	Result - Remark	Verdict
	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
	Thermal cut-outs of the capillary type comply with the requirements for type 2.K controls in IEC 60730-2-9		N/A
24.1.5	Appliance couplers comply with IEC 60320-1		N/A
	However, for class II appliances classified higher than IPX0, the appliance couplers comply with IEC 60320-2-3		N/A
	Interconnection couplers comply with IEC 60320-2-2		N/A
24.1.6	Small lamp holders similar to E10 lampholders comply 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.....:		N/A
24.2	Appliances not fitted with:		—
	- switches, automatic controls or power supplies 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		P
	the solder has a melting point of at least 230 °C		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
24.3	Switches intended for all-pole disconnection of stationary appliances are directly connected to the supply terminals and have a contact separation in all poles, providing full disconnection under overvoltage category III conditions	See installation manual	P
24.4	Plugs and socket-outlets for extra-low voltage circuits and heating elements, not interchangeable with plugs and socket-outlets listed in IEC/TR 60083 or IEC 60906-1 or with connectors and appliance inlets complying with the standard sheets of IEC 60320-1		N/A
24.5	Capacitors in auxiliary windings of motors marked with their rated voltage and capacitance, and used accordingly		N/A
	Voltage across capacitors in series with a motor winding does not exceed 1,1 times rated voltage, when the appliance is supplied at 1,1 times rated voltage under minimum load		N/A
24.6	Working voltage of motors connected to the supply mains and having basic insulation that is inadequate for the rated voltage of the appliance, not exceeding 42 V		N/A
	In addition, the motors comply with the requirements of annex I		N/A
24.7	Detachable hose-sets for connection of appliances to the water mains comply with IEC 61770		N/A
	They are supplied with the appliance		N/A
	Appliances intended to be permanently connected to the water mains not connected by a detachable hose-set		N/A
24.8	Motor running capacitors in appliances for which 30.2.3 is applicable and that are permanently connected in series with a motor winding, not causing a hazard in event of a failure		N/A
	One or more of the following conditions are to be met:		—
	- the capacitors are of class S2 or S3 according to IEC 60252-1		N/A
	- the capacitors are housed within a metallic or ceramic enclosure		N/A
	- the distance of separation of the outer surface to adjacent non-metallic parts exceeds 50 mm		N/A
	- adjacent non-metallic parts within 50 mm withstand the needle-flame test of annex E		N/A
	- adjacent non-metallic parts within 50 mm classified as at least V-1 according to IEC 60695-11-10		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
24.101	Replaceable parts of thermal control devices identified by marking (IEC 60335-2-40:2013)		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, the current rating and voltage rating of the plug being not less than the corresponding ratings of its associated appliance		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
	Supply cord fitted with plug provided, if (IEC 60335-2-40:2013):		N/A
	- appliance only for indoor use (IEC 60335-2-40:2013)		N/A
	- marked with rating of 25 A or less and (IEC 60335-2-40:2013)		N/A
	- complies with code requirements of country where it will be used (IEC 60335-2-40:2013)		N/A
	Appliance inlet not allowed (IEC 60335-2-40:2013)		N/A
25.2	Appliance not provided with more than one means of connection to the supply mains		P
	Stationary appliance for multiple supply may be provided with more than one means of connection, provided electric strength test of 1250 V for 1 min between each means of connection causes no breakdown	No such construction	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		P

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Clause	Requirement + Test	Result - Remark	Verdict
	- 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		P
25.4	Cable and conduit entries, rated current of appliance not exceeding 16 A, dimension according to table 10 (mm)		P
	Introduction of conduit or cable does not reduce clearances or creepage distances below values specified in clause 29		P
25.5	Method for assembling the supply cord to the appliance:		—
	- 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		P
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)		P
	- 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		N/A
	- 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

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Clause	Requirement + Test	Result - Remark	Verdict
	- heat-resistant polyvinyl chloride sheathed cord (60227 IEC 57), for other appliances		N/A
	- halogen-free, low smoke, thermoplastic insulated and sheathed		—
	- light duty halogen-free low smoke flexible cable (62821 IEC 101) for circular cable and (62821 IEC 101f) for flat cable		N/A
	- Ordinary duty halogen-free low smoke flexible cable (62821 IEC 102) for circular cable and (62821 IEC 102f) for flat cable		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 60335-2-40:2013)		P
25.8	Nominal cross-sectional area of supply cords not less than table 11; rated current (A); cross-sectional area (mm ²).....:	See installation manual	P
25.9	Supply cords not in contact with sharp points or edges		P
25.10	Supply cord of class I appliances have a green/yellow core for earthing		P
	In multi-phase appliances, the colour of the neutral conductor of the supply cord is blue		N/A
	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 are identified by marking using the alpha numeric notation specified in IEC 60445		N/A
	- the supply cord is fitted to the appliance		N/A
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 it is not evident that the supply cord can be introduced without risk of damage, a non-detachable lining or bushing complying with 29.3 for supplementary insulation provided		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	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	Cord anchorage provided	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
	Pull and torque test of supply cord:		—
	- fixed appliances: pull 100 N; torque (not on automatic cord reel) (Nm).....:	100N; 0.35Nm	P
	- other appliances: values shown in table 12: mass (kg); pull (N); torque (not on automatic cord reel) (Nm).....:		N/A
	Cord not damaged and max. 2 mm displacement of the cord		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

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Clause	Requirement + Test	Result - Remark	Verdict
	- 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		P
25.18	Cord anchorages only accessible with the aid of a tool, or		P
	Constructed so that the cord can only be fitted with the aid of a tool		P
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 conductors of the supply cord for type Y and Z attachment insulated from accessible metal parts		P
25.21	Space for supply cord for type X attachment or for connection of fixed wiring constructed:		—

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Clause	Requirement + Test	Result - Remark	Verdict
	- to permit checking of conductors with respect to correct positioning and connection before fitting any cover		P
	- so there is no risk of damage to the conductors or their insulation when fitting the cover		P
	- 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:		—
	- 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
	- for class I or class II appliance with class III construction, the cross sectional areas of the conductors need not comply with 25.8 if specified conditions are met		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
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		—

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
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 of fixed wiring provided with terminals in which connections are made by means of screws, nuts or similar devices, unless		P
	the connections are soldered		N/A
	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
	- 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).....:		P
	No deep or sharp indentations of the conductors		P

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Clause	Requirement + Test	Result - Remark	Verdict
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		P
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 installation manual	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		P
	conductors ends fitted with means suitable for screw terminals		N/A
	Pull test of 5 N to the connection		P
26.11	For type Y and Z attachment, soldered, welded, crimped or similar connections may be used		N/A
	For class II appliances, the conductor so positioned or fixed that reliance is not placed on soldering, welding or crimping alone		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	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 protective earthing	Class I appliance	N/A
	Class II appliances and class III appliances can incorporate an earth for functional purposes	Class I appliance	N/A
	Safety extra-low voltage circuits not earthed, unless	Class I appliance	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	No such construction	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		P
	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes		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		P
	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes		N/A
27.4	No risk of corrosion resulting from contact between parts of the earthing terminal and the copper of the earthing conductor or other metal		P

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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		P
	Adequate protection against rusting of parts of coated or uncoated steel, only intended to provide or transmit contact pressure		P
	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
	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes		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
	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes		N/A
	Resistance not exceeding 0,1 Ω at the specified low-resistance test (Ω)	0.046Ω	P
	If the ground continuity between system components meets the minimum values specified in 27.5, it is considered to meet the requirements without dedicated grounding conductors. (IEC 60335-2-40:2013)		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
	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes		N/A
28	SCREWS AND CONNECTIONS		—
28.1	Fixings, electrical connections and connections providing earthing continuity withstand mechanical stresses		P

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Clause	Requirement + Test	Result - Remark	Verdict
	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		P
	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
	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		N/A
	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		P
28.3	Space-threaded (sheet metal) screws only used for electrical connections if they clamp the parts together		N/A
	Thread-cutting (self-tapping) screws and thread rolling screws only used for electrical connections if they generate a full form standard machine screw thread	No such construction	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:		—

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Clause	Requirement + Test	Result - Remark	Verdict
	- in normal use,		P
	- during user maintenance,		P
	- when replacing a supply cord having a type X attachment, or		N/A
	- during installation		P
	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		P
28.4	Screws and nuts that make mechanical connection secured against loosening if they also make electrical connections or connections providing earthing continuity		N/A
	This requirement does not apply to screws in the earthing circuit if at least two screws are used, or		N/A
	if an alternative earthing circuit is provided		N/A
	Rivets for electrical connections or connections providing earthing continuity secured against loosening if the connections are subjected to torsion		N/A
29	CLEARANCES, CREEPAGE DISTANCES AND SOLID INSULATION		—
	Clearances, creepage distances and solid insulation withstand electrical stress		P
	For coatings used on printed circuits boards to protect the microenvironment (Type 1) or to provide basic insulation (Type 2), annex J applies		N/A
	The microenvironment is pollution degree 1 under type 1 protection		N/A
	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 60335-2-40:2013)		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

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Clause	Requirement + Test	Result - Remark	Verdict
	However, if the distances are affected by wear, distortion, movement of the parts or during assembly, the clearances for rated impulse voltages of 1500 V and above are increased by 0,5 mm and the impulse voltage test is not applicable		P
	For appliances intended for use at altitudes exceeding 2 000 m, the clearances in Table 16 is increased according to the relevant multiplier values in Table A.2 of IEC 60664-1		N/A
	Impulse voltage test is not applicable:		—
	- when the microenvironment is pollution degree 3, or		N/A
	- for basic insulation of class 0 and class 01 appliances, or		N/A
	- to appliances intended for use at altitudes exceeding 2 000 m		N/A
	Appliances are in overvoltage category II		P
	A force of 2 N is applied to bare conductors, other than heating elements		P
	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		P
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

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Clause	Requirement + Test	Result - Remark	Verdict
	- table F.7a in IEC 60664-1, frequency not exceeding 30 kHz		N/A
	- clause 4 of IEC 60664-4, frequency exceeding 30 kHz		N/A
	If values of table 16 are largest, the impulse voltage test of clause 14 may be applied instead, unless		N/A
	the microenvironment is pollution degree 3, or		P
	the distances can be affected by wear, distortion, movement of the parts or during assembly		N/A
	However, clearances are not specified if the appliance complies with clause 19 with the functional insulation short-circuited		N/A
	Lacquered conductors of windings considered to be bare conductors		P
	However, clearances at crossover points are not measured		P
	Clearance between surfaces of PTC heating elements may be reduced to 1 mm		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		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

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Clause	Requirement + Test	Result - Remark	Verdict
	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		P
	- precautions taken to protect the insulation; pollution degree 1		N/A
	- insulation subjected to conductive pollution; pollution degree 3		N/A
	A force of 2 N is applied to bare conductors, other than heating elements		P
	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		P
	Insulation located in airflow, pollution degree 3 unless (IEC 60335-2-40:2013)		N/A
	insulation enclosed or located so that unlikely to be exposed to pollution due to normal use (IEC 60335-2-40:2013)		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

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Clause	Requirement + Test	Result - Remark	Verdict
	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
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
	- 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		N/A
	for accessible parts of reinforced insulation consisting of a single layer, by measurement in accordance with 29.3.4, or		N/A
	- 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		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		P
	Reinforced insulation have a thickness of at least 2 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

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Clause	Requirement + Test	Result - Remark	Verdict
	Reinforced insulation consist of at least 3 layers		N/A
29.3.3	The insulation is subjected to the dry heat test Bb of IEC 60068-2-2, followed by		N/A
	the electric strength test of 16.3		N/A
	If the temperature rise during the tests of clause 19 does not exceed the value specified in table 3, the test of IEC 60068-2-2 is not carried out		N/A
29.3.4	Thickness of accessible parts of reinforced insulation consisting of a single layer not less than specified in table 19.....:		N/A
30	RESISTANCE TO HEAT AND FIRE		—
30.1	External parts of non-metallic material,		P
	parts supporting live parts, and		P
	parts of thermoplastic material providing supplementary or reinforced insulation		P
	sufficiently resistant to heat		P
	Ball-pressure test according to IEC 60695-10-2		P
	External parts tested at 40 °C plus the maximum temperature rise determined during the test of clause 11, or at 75 °C, whichever is the higher; temperature (°C).....:	(see appended table 30.1)	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 30.1)	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)	(see appended table 30.1)	P
30.2	Parts of non-metallic material resistant to ignition and spread of fire		P
	This requirement does not apply to:		—
	parts having a mass not exceeding 0,5 g, provided the cumulative effect is unlikely to propagate flames that originate inside the appliance by propagating flames from one part to another, or		P
	decorative trims, knobs and other parts unlikely to be ignited or to propagate flames that originate inside the appliance		P
	Compliance checked by the test of 30.2.1, and in addition:		P
	- for attended appliances, 30.2.2 applies		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- 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 30.2)	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
	The tests are not applicable to conditions as specified	Soldered connection and connections on small components on PCB	P
30.2.3.1	Parts of non-metallic material supporting connections carrying a current exceeding 0,2 A during normal operation, and		P
	parts of non-metallic material, other than small parts, within a distance of 3 mm,		P
	subjected to the glow-wire test of IEC 60695-2-11 with a test severity of 850 °C	(see appended table 30.2)	P
	Glow-wire applied to an interposed shielding material, if relevant		N/A
	The glow-wire test is not carried out on parts of material classified as having a glow-wire flammability index according to IEC 60695-2-12 of at least 850 °C		N/A
30.2.3.2	Parts of non-metallic material supporting connections, and		P
	parts of non-metallic material within a distance of 3 mm,		P
	subjected to the glow-wire test of IEC 60695-2-11 with appropriate severity level:	(see appended table 30.2)	P
	- 750 °C, for connections carrying a current exceeding 0,2 A during normal operation		P
	- 650 °C, for other connections		N/A
	Glow-wire applied to an interposed shielding material, if relevant		P

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Clause	Requirement + Test	Result - Remark	Verdict
	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:		—
	- 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		P
	- 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:		—

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Clause	Requirement + Test	Result - Remark	Verdict
	- 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	(see appended table 30.2/30.2.4)	P
	Test not applicable to conditions as specified.....:		P
31	RESISTANCE TO RUSTING		—
	Relevant ferrous parts adequately protected against rusting		P
	Tests specified in part 2 when necessary		P
	Salt mist test of IEC 60068-2-52, severity 2 (IEC 60335-2-40:2013)		P
	Before test, coatings are scratched by means of a harden steel pin as specified (IEC 60335-2-40:2013)		P
	Five scratches made at least 5 mm apart and at least 5 mm from the edges (IEC 60335-2-40:2013)		P
	Appliance not deteriorated to such an extent that compliance with clause 8 and 27 is impaired (IEC 60335-2-40:2013)		P
	Coating not be broken and not loosened from the metal surface (IEC 60335-2-40:2013)		P
32	RADIATION, TOXICITY AND SIMILAR HAZARDS		—
	Appliance does not emit harmful radiation or present a toxic or similar hazard due to their operation in normal use		P
	Compliance is checked by the limits or tests specified in part 2, if relevant		P
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 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		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Three forms of construction covered:		—
	a) Appliance supplied directly from the supply mains or a renewable energy source, the battery charging circuitry and other supply unit circuitry incorporated within the appliance		N/A
	b) The part of the appliance incorporating the battery is supplied from the supply mains or a renewable energy source, via a detachable supply unit. The battery charging circuitry is incorporated within the part of the appliance containing the battery		N/A
	c) The part of the appliance incorporating the battery is supplied from the supply mains or a renewable energy source, via a detachable supply unit. The battery charging circuitry is incorporated within the detachable supply unit		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
7.1	Battery compartment for batteries intended to be replaced by the user, marked with battery voltage (V) 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
	Appliances intending to be supplied from a detachable supply unit marked with symbol IEC 60417-6181 and its type reference along with symbol ISO 7000-0790 (2004-01), or		N/A
	use only with <model designation> supply unit		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
7.6	Additional symbols		N/A
7.12	The instructions give information regarding charging		N/A
	Instructions for appliances incorporating batteries intended to be replaced by the user include required information		N/A
	Instructions for appliances containing non user-replaceable batteries 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
	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 is stated along with the following:		—
	WARNING: For the purposes of recharging the battery, only use the detachable supply unit provided with this appliance		N/A
	If the symbol for detachable supply unit is used, its meaning is explained		N/A
7.15	Markings placed on the part of the appliance connected to the supply mains		N/A
	The type reference of the detachable supply unit is placed in close proximity to the symbol		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
11.8	Temperature rise of the battery surface does not exceed the limit in the battery manufacturer's specification; measured (K); limit (K)		N/A
	If no limit specified, the temperature rise does not exceed 20 K; measured (K)		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

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Clause	Requirement + Test	Result - Remark	Verdict
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
19.13	The battery does not rupture or ignite		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
	- 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		P
9	Test procedure		—

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Clause	Requirement + Test	Result - Remark	Verdict
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		P
	However, for printed circuit boards, the duration of burning not exceeding 15 s		P
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

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Clause	Requirement + Test	Result - Remark	Verdict
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		—
	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		N/A
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		N/A
	For insulated winding wires complying with subclause 19.12.3 of IEC 61558-1 there are no requirements for clearances or creepage distances		N/A
	For windings providing reinforced insulation, the distance specified in item 2c of table 13 of IEC 61558-1 is not assessed		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	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:		—
	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
	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

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Clause	Requirement + Test	Result - Remark	Verdict
	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		—
	Clause 20 is applicable to clearances across full disconnection and micro-disconnection		N/A
	It is also applicable to 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		—
	Testing of protective coatings of printed circuit boards carried out in accordance with IEC 60664-3 with the following modifications:		—
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

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

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Clause	Requirement + Test	Result - Remark	Verdict
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:	175V	P
	The test is carried out on five specimens		P
	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 TROPICAL CLIMATES		—
	Modifications applicable for class 0 and 0I appliances having a rated voltage exceeding 150 V, intended to be used in countries having a tropical climate and that are marked with symbol IEC 60417-6332		—
	Modifications may also be applied to class 1 appliances having a rated voltage exceeding 150 V, intended to be used in countries having a tropical climate and that are marked with symbol IEC 60417-6332, 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 symbol IEC 60417-6332		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 tropical climate, but may also be used in other countries		N/A
	If symbol IEC 60417-6332 is used, its meaning is explained		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
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		—
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

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Clause	Requirement + Test	Result - Remark	Verdict
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
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		—

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Clause	Requirement + Test	Result - Remark	Verdict
	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		—
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

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Clause	Requirement + Test	Result - Remark	Verdict
	- anticipated occurrences		N/A
	- undesired conditions requiring system action		N/A

TABLE R.1 ^e – GENERAL FAULT/ERROR CONDITIONS						
Component ^a	Fault/error	Acceptable measures ^{b, c}	Definitions	Document reference for applied measure	Document reference for applied test	Verdict
1 CPU						N/A
1.1 Registers	Stuck at	Functional test, or periodic self-test using either: <ul style="list-style-type: none"> - 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			N/A
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			N/A
4.2 Variable memory	DC fault	Periodic static memory test, or word protection with single bit redundancy	H.2.19.6 H.2.19.8.2			N/A

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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 communicat ion	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
7.2 Analog I/O 7.2.1 A/D and D/A- converter	Fault conditions specified in 19.11.2	Plausibility check	H.2.18.13			N/A

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Clause	Requirement + Test			Result - Remark		Verdict
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 specification	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.						
<p>a) For fault/error assessment, some components are divided into their sub-functions.</p> <p>b) For each sub-function in the table, the Table R.2 measure will cover the software fault/error.</p> <p>c) Where more than one measure is given for a sub-function, these are alternatives.</p> <p>d) To be divided as necessary by the manufacturer into sub-functions.</p> <p>e) Table R.1 is applied according to the requirements of R.1 to R.2.2.9 inclusive.</p>						

S	ANNEX S (NORMATIVE) BATTERY OPERATED APPLIANCES POWERED BY BATTERIES THAT ARE NON-RECHARGEABLE OR NOT RECHARGED IN THE APPLIANCE			—
	The following modifications to this standard are applicable for battery-operated appliances where the batteries are either non-rechargeable (primary batteries), or			N/A
	rechargeable batteries (secondary batteries) that are not recharged in the appliance			N/A
5.8.1	If the supply terminals for the connection of the battery have no indication of polarity, the more unfavourable polarity is applied			N/A
5.S.101	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	Appliances are tested as motor-operated appliances.			N/A
7.1	Appliances marked with the battery voltage (V) and the polarity of the terminals, unless.....:			N/A
	the polarity is irrelevant			N/A
	Appliances also marked with:			—
	- name, trade mark or identification mark of the manufacturer or responsible vendor			N/A
	- model or type reference			N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- IP number according to degree of protection against ingress of water, other than IPX0		N/A
	- type reference of battery or batteries		N/A
	If relevant, the positive terminal is indicated by the symbol IEC 60417-5005 and the negative terminal by the symbol IEC 60417-5006		N/A
	If appliances use more than one battery, they are marked to indicate correct polarity connection of the batteries		N/A
7.6	Additional symbols		N/A
7.12	The instructions contain the following, as applicable:		—
	- the types of batteries that may be used		N/A
	- how to remove and insert the batteries		N/A
	- non-rechargeable batteries are not to be recharged		N/A
	- rechargeable batteries are to be removed from the appliance before being charged		N/A
	- different types of batteries or new and used batteries are not to be mixed		N/A
	- batteries are to be inserted with the correct polarity		N/A
	- exhausted batteries are to be removed from the appliance and safely disposed of		N/A
	- if the appliance is to be stored unused for a long period, the batteries are removed		N/A
	- the supply terminals are not to be short-circuited		N/A
11.5	Appliances are supplied with the most unfavourable supply voltage between		—
	- 0,55 and 1,0 times the battery voltage, if the appliance can be used with non-rechargeable batteries		N/A
	- 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 is taken into account		N/A
19.1	The tests are carried out with the battery fully charged unless otherwise specified		N/A
19.13	The battery does not rupture or ignite		N/A
19.S.101	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		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	such a connection is unlikely to occur due to the construction of the appliance		N/A
19.S.102	For appliances with provision for multiple batteries, one or more of the batteries are reversed and the appliance is operated, if reversal of batteries is allowed by the construction		N/A
25.5	The flexible leads or flexible cord used to connect an external battery or battery box in is 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	Appliances have suitable means for connection of the battery. If the type of battery is marked on the appliance, the means of connection is suitable for this type of battery		N/A
26.5	Terminal devices in an appliance for the connection of the flexible leads or flexible cord connecting an external battery or battery box are so located or shielded that there is no risk of accidental connection between supply terminals		N/A
30.2.3.2	There is no battery in the area of the vertical cylinder used for the consequential needle flame test, unless		N/A
	the battery is shielded by a barrier that meets the needle flame test of annex E, or		N/A
	that comprises material classified as V-0 or V-1 according to IEC 60695-11-10		N/A
T	ANNEX T (NORMATIVE) UV-C RADIATION EFFECT ON NON-METALLIC MATERIALS		—
	Requirements for non-metallic materials subject to direct or reflected UV-C radiation exposure and whose mechanical and electrical properties are relied upon for compliance with the		N/A
	Does not apply to glass, ceramic and similar materials		N/A
	Tested as specified in ISO 4892-1 and ISO 4892-2, with the following modifications:		—
	Modifications to ISO 4892-1:		—
5.1.6	The UV-C emitter is a low pressure mercury lamp with a quartz envelope having a continuous spectral irradiance of 10 W/m ² at 254 nm		N/A
	Subclause 5.1.6.1 and Table 1 are not applicable		N/A
5.2.4	The black-panel temperature shall be 63 °C +/- 3 °C		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.3.1	Humidification of the chamber air is specified in part 2 when necessary		N/A
9	This clause is not applicable		N/A
	Modifications to ISO 4892-2:		—
7.1	At least three test specimens are tested		N/A
	Ten samples of internal wiring is tested		N/A
7.2	The specimens are attached to the specimen holders such that they are not subject to any stress		N/A
7.3	Apparatus prepared as specified		N/A
	The test specimens and, if used, the irradiance-measuring instrument are exposed for 1 000 h		N/A
7.4	If used, a radiometer is mounted and calibrated such that it measures the irradiance at the exposed surface of the test specimen		N/A
7.5	Material properties and test methods for parts providing mechanical support or impact resistance as specified in Table T.1		N/A
	Material properties and test method for electrical insulation of internal wiring as specified in Table T.2		N/A
8	This clause is not applicable		N/A
AA	ANNEX AA (INFORMATIVE) (IEC 60335-2-40:2013) EXAMPLES FOR OPERATING TEMPERATURES OF THE APPLIANCE		P
BB	ANNEX BB (NORMATIVE) (IEC 60335-2-40:2013) SELECTED INFORMATION ABOUT REFRIGERANTS		P
CC	ANNEX CC (INFORMATIVE) (IEC 60335-2-40:2013) TRANSPORTATION, MARKING AND STORAGE FOR UNITS THAT EMPLOY FLAMMABLE REFRIGERANTS		N/A
CC.1	Transport of equipment containing flammable refrigerants (IEC 60335-2-40:2013)		N/A
CC.2	Marking of equipment using signs (IEC 60335-2-40:2013)		N/A
CC.3	Disposal of equipment using flammable refrigerants (IEC 60335-2-40:2013)		N/A
CC.4	Storage of equipment/appliances (IEC 60335-2-40:2013)		N/A
CC.5	Storage of packed (unsold) equipment (IEC 60335-2-40:2013)		N/A
DD	ANNEX DD (NORMATIVE) (IEC 60335-2-40:2013) INSTRUCTION MANUAL FOR SERVICING REFRIGERANT CONTAINING APPLIANCES		P
DD.1	Symbols (IEC 60335-2-40:2013)		P

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Clause	Requirement + Test	Result - Remark	Verdict
DD.2.	Information in manual (IEC 60335-2-40:2013)		P
DD.2.1	General (IEC 60335-2-40:2013/am1:2016)		P
DD.2.2	Unventilated areas (IEC 60335-2-40:2013)		P
DD.2.3	Qualification of workers (IEC 60335-2-40:2013)		P
DD.3	Information on servicing (IEC 60335-2-40:2013)		P
DD3.1	Checks to the area (IEC 60335-2-40:2013)		P
DD.3.2	Work procedure (IEC 60335-2-40:2013)		P
DD.3.3	General work area (IEC 60335-2-40:2013)		P
DD.3.4	Checking for presence of refrigerant (IEC 60335-2-40:2013)		P
DD.3.5	Presence of fire extinguisher (IEC 60335-2-40:2013)		P
DD.3.6	No ignition sources (IEC 60335-2-40:2013)		P
DD.3.7	Ventilated area (IEC 60335-2-40:2013)		P
DD.3.8	Checks to the refrigeration equipment (IEC 60335-2-40:2013/am1:2016)		P
DD.3.9	Checks to electrical devices (IEC 60335-2-40:2013)		P
DD.4	Repairs to sealed components (IEC 60335-2-40:2013)		P
DD.5	Repair to intrinsically safe components (IEC 60335-2-40:2013)		P
DD.6	Cabling (IEC 60335-2-40:2013)		P
DD.7	Detection of flammable refrigerants (IEC 60335-2-40:2013)		P
DD.8	Leak detection methods (IEC 60335-2-40:2013)		P
DD.9	Removal and evacuation (IEC 60335-2-40:2013)		P
DD.10	Charging procedures (IEC 60335-2-40:2013)		P
DD.11	Decommissioning (IEC 60335-2-40:2013)		P
DD.12	Labelling (IEC 60335-2-40:2013)		P
DD.13	Recovery (IEC 60335-2-40:2013)		P
EE	ANNEX EE (NORMATIVE) (IEC 60335-2-40:2013) PRESSURE TESTS		P
EE.1	General (IEC 60335-2-40:2013)	Tested by the water pressure, connecting water pressure pump.	P
EE.2	Pressure test value determined under testing carried out in clause 11 (IEC 60335-2-40:2013)		P
EE.3	Pressure test value determined under testing carried out in clause 19 (IEC 60335-2-40:2013)		P

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
EE.4	Pressure test value determined under testing carried out under standstill conditions (IEC 60335-2-40:2013)		P
EE.5	Fatigue test option for Clauses EE.1 and EE.4.1 (IEC 60335-2-40:2013)		N/A
FF	ANNEX FF (NORMATIVE) (IEC 60335-2-40:2013) LEAK SIMULATION TEST		N/A
FF.1	General (IEC 60335-2-40:2013/am1:2016)		N/A
FF.2	Test methods (IEC 60335-2-40:2013/am1:2016)		N/A
GG	ANNEX GG (NORMATIVE) (IEC 60335-2-40:2013) CHARGE LIMITS, VENTILATION REQUIREMENTS AND REQUIREMENTS FOR SECONDARY CIRCUITS		P
GG.1	General (IEC 60335-2-40:2013/am1:2016)		P
GG.2	Requirements for charge limits in unventilated areas (IEC 60335-2-40:2013/am1:2016)		P
GG.3	Requirements for charge limits in areas with mechanical ventilation areas (IEC 60335-2-40:2013/am1:2016)		N/A
GG.4	Requirements for mechanical ventilation within the appliance enclosure (IEC 60335-2-40:2013/am1:2016)		N/A
GG.5	Requirements for mechanical ventilation for rooms complying with ISO 5149 (IEC 60335-2-40:2013)		N/A
GG.6	Requirements for refrigeration systems employing secondary heat exchangers (IEC 60335-2-40:2013)		N/A
GG.7	Additional testing (IEC 60335-2-40:2013)		N/A
GG.8	Non fixed factory sealed single package units with a refrigerant charge amount of $m_1 < m_c \leq 2 \times m_1$ (IEC 60335-2-40:2013/am1:2016)		N/A

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Clause	Requirement + Test	Result - Remark			Verdict
10.1	TABLE: Power input deviation				P
Input deviation of/at:	P rated (W)	P measured (W)	ΔP	Required ΔP	Remark
Indoor unit/ Outdoor unit: RAS-M24U2DVG-E, RAS-M13U2MUVG-E, RAS-B10U2FVG-E, RAS-M07U2DVG-E/ RAS-3M26U2AVG-E					
(cooling / Heating mode)					
220V, 50Hz	3800	1713/1932	-54.9%/ -49.2%	+15%	P
230V, 50Hz	3800	1785/1923	-53.0%/ -49.4%	+15%	P
240V, 50Hz	3800	1853/1936	-51.2%/ -49.1%	+15%	P
Indoor unit/ Outdoor unit: RAS-M24U2DVG-E, RAS-M13U2MUVG-E, RAS-B10U2FVG-E, RAS-M07U2DVG-E/ RAS-4M27U2AVG-E					
(cooling / Heating mode)					
220V, 50Hz	3900	1713/1932	-56.1%/ -50.5%	+15%	P
230V, 50Hz	3900	1785/1923	-54.2%/ -50.7%	+15%	P
240V, 50Hz	3900	1853/1936	-52.5%/ -50.4%	+15%	P
Indoor unit/ Outdoor unit: RAS-B24PKVSG-E, RAS-M13PKVPG-E, RAS-M13U2MUVG-E, RAS-B10U2FVG-E, RAS-M07U2DVG-E/ RAS-5M34U2AVG-E					
(cooling / Heating mode)					
220V, 50Hz	4400	2115/3346	-51.9%/ -24.0%	+15%	P
230V, 50Hz	4400	2207/3263	-49.8%/ -25.8%	+15%	P
240V, 50Hz	4400	2272/3284	-48.4%/ -25.4%	+15%	P
Supplementary information: -The following ambient temperature conditions were kept during the test:					
		Maximum Cooling		Minimum Cooling	
Indoor unit		D.B./W.B.		D.B./W.B.	
Outdoor unit		32°C/23°C		18°C/13°C	
		46°C/24°C		18°C/13°C	
		Maximum Heating		Minimum Heating	
Indoor unit		D.B./W.B.		D.B./W.B.	
Outdoor unit		28°C/--		0°C/--	
		24°C/18°C		-15°C/-15.5°C	

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Clause	Requirement + Test			Result - Remark	Verdict
10.2	TABLE: Current deviation				N/A
Current deviation of/at:	I rated (A)	I measured (A)	ΔI	Required ΔI	Remark
Indoor unit/ Outdoor unit: RAS-M24U2DVG-E, RAS-M13U2MUVG-E, RAS-B10U2FVG-E, RAS-M07U2DVG-E/ RAS-3M26U2AVG-E					
(cooling / Heating mode)					
220V, 50Hz	-	8.2/9.1	-	-	Reference
230V, 50Hz	-	8.2/8.7	-	-	Reference
240V, 50Hz	-	8.1/8.4	-	-	Reference
Indoor unit/ Outdoor unit: RAS-M24U2DVG-E, RAS-M13U2MUVG-E, RAS-B10U2FVG-E, RAS-M07U2DVG-E/ RAS-4M27U2AVG-E					
(cooling / Heating mode)					
220V, 50Hz	-	8.2/9.1	-	-	Reference
230V, 50Hz	-	8.2/8.7	-	-	Reference
240V, 50Hz	-	8.1/8.4	-	-	Reference
Indoor unit/ Outdoor unit: RAS-B24PKVSG-E, RAS-M13PKVPG-E, RAS-M13U2MUVG-E, RAS-B10U2FVG-E, RAS-M07U2DVG-E/ RAS-5M34U2AVG-E					
(cooling / Heating mode)					
220V, 50Hz	-	10.1/15.7	-	-	Reference
230V, 50Hz	-	10.0/14.8	-	-	Reference
240V, 50Hz	-	9.9/14.2	-	-	Reference
Supplementary information: N/A					

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Clause	Requirement + Test	Result - Remark	Verdict
11.8	TABLE: Heating test		P
	Test voltage (V)	206.8V, 50Hz / 254.4V, 50Hz	—
	Ambient (°C).....	Cooling mode: see supplementary information	Heating mode: see supplementary information
Thermocouple locations		Max. temperature measured, T (°C)	Max. temperature limit, T (°C)
Indoor unit: RAS-M07U2DVG-E			
Fan motor		37.8	105(E)
Pump drain water		33.1	105(E)
T01		37.7	110(B)
L01		33.8	105(E)
C01		32.5	75
C08		45.0	T105
PCB		36.2	For clause 30
Terminal input		32.0	85
Air out let		39.1	90
Indoor unit: RAS-M24U2DVG-E			
Fan motor		36.1	105(E)
Drain pump water		33.2	105(E)
T01		32.6	110(B)
L 01		34.4	105(E)
Reactor		34.3	105(E)
C01		33.0	75
C08		33.6	T105
PCB		35.6	For clause 30
Terminal input		31.9	85
Supply cord		31.9	For reference
Enclosure side near PCB		33.6	For reference
Air outlet		28.7	90
Indoor unit: RAS-B10U2FVG-E			
Fan motor		36.0	105(E)
Louver Motor (horizontal)		40.0	105(E)
Louver Motor (vertical)		30.8	105(E)

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Clause	Requirement + Test	Result - Remark	Verdict
Thermocouple locations		Max. temperature measured, T (°C)	Max. temperature limit, T (°C)
T101		44.7	110(B)
L01		45.6	105(E)
C01		42.6	75
C03		38.1	T105
PCB		42.5	For clause 30
Terminal input		34.5	85
Supply cord		32.9	For reference
Enclosure Front		31.7	85
Wooden support		31.8	90
Indoor unit: RAS-M13U2MUVG-E			
Fan motor		38.1	105(E)
Pump drain water		29.1	105(E)
T01		52.4	110(B)
L01		40.6	105(E)
C01		39.1	75
C08		48.3	T105
PCB		44.1	For clause 30
Terminal input		33.5	85
Supply cord		33.1	For reference
Louver Motor		57.1	105(E)
Enclosure panel		31.6	85
Indoor unit: RAS-B24PKVSG-E			
Fan motor		47.3	105(E)
Louver Motor (horizontal)		39.2	105(E)
Louver Motor (vertical)		39.8	105(E)
T01		51.7	110(B)
L01		53.5	105(E)
RY01		57.4	For clause 30
C01		46.3	75
C03		48.8	T105
PCB		51.7	For clause 30
Terminal input		37.4	85

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Clause	Requirement + Test	Result - Remark	Verdict
	Thermocouple locations	Max. temperature measured, T (°C)	Max. temperature limit, T (°C)
	Supply cord	36.0	For reference
	Enclosure side near PCB	32.9	85
	Wooden support	32.4	90
Outdoor unit: RAS-4M27U2AVG-E			
	Upper shell compressor	66.3	140
	Fan motor	63.1	105(E)
	Reactor	60.6	165(H)
	T01	60.5	105(E)
	L01	54.3	105(E)
	RY01	60.4	For clause 30
	RY700	51.5	For clause 30
	C01	54.1	75
	C11	55.0	T85
	PCB	61.4	For clause 30
	Terminal input	48.6	85
	Supply cord	49.6	For reference
	Enclosure Front	46.0	85
	Wooden support	45.9	90
Outdoor unit: RAS-5M34U2AVG-E			
	Upper shell compressor	73.0	140
	Fan motor	58.8	105(E)
	T01	57.9	105(E)
	L01	61.4	105(E)
	RY01	57.3	For clause 30
	RY700	50.8	For clause 30
	C01	40.5	75
	C11	61.5	T85
	PCB	66.5	For clause 30
	Terminal input	46.8	85
	Supply cord	48.6	For reference
	Enclosure Front	46.2	85
	Wooden support	45.9	90

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Clause	Requirement + Test	Result - Remark	Verdict

Supplementary information:

- The highest measurement from all test voltages from both cooling and heating mode is put in this table.
- The following ambient temperature conditions were kept during the test:

	<u>Maximum Cooling</u>	<u>Minimum Cooling</u>
Indoor unit	D.B./W.B. 32°C/23°C	D.B./W.B. 18°C/13°C
Outdoor unit	46°C/24°C	18°C/13°C
	<u>Maximum Heating</u>	<u>Minimum Heating</u>
Indoor unit	D.B./W.B. 28°C/--	D.B./W.B. 0°C/--
Outdoor unit	24°C/18°C	-15°C/-15.5°C

11.8	TABLE: Heating test, resistance method					P
	Test voltage (V)	206.8V, 50Hz / 254.4V, 50Hz				—
	Ambient, t1 (°C)	see supplementary information				—
	Ambient, t2 (°C)	see supplementary information				—
Temperature rise of winding	R1 (Ω)	R2 (Ω)	T (°C)	Max. T (°C)	Insulation class	
Indoor unit/ Outdoor unit: RAS-M24U2DVG-E, RAS-M13U2MUVG-E, RAS-B10U2FVG-E, RAS-M07U2DVG-E/ RAS-4M27U2AVG-E						
a) Compressor Main winding	0.75	0.92	65.5	140	Synthetic	
Indoor unit/ Outdoor unit: RAS-B24PKVSG-E, RAS-M13PKVPG-E, RAS-M13U2MUVG-E, RAS-B10U2FVG-E, RAS-M07U2DVG-E/ RAS-5M34U2AVG-E						
b) Compressor Main winding	0.86	1.06	65.5	140	Synthetic	
Supplementary information:						
- The highest measurement from all test voltages, all alternative components and test conditions are put in this table.						
-The motor is DC type motor which is difficult to conduct resistance method.						

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)	254.4V, 50Hz	—
Leakage current between		I (mA)	Max. allowed I (mA)
Indoor unit/ Outdoor unit: RAS-M24U2DVG-E, RAS-M13U2MUVG-E, RAS-B10U2FVG-E, RAS-M07U2DVG-E/ RAS-4M27U2AVG-E			
Live parts and earthed metal parts		1.3	7.8
Live parts and accessible non-metallic material parts		0.29	0.35 mA peak

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Clause	Requirement + Test	Result - Remark	Verdict

Indoor unit/ Outdoor unit: RAS-B24PKVSG-E, RAS-M13PKVPG-E, RAS-M13U2MUVG-E, RAS-B10U2FVG-E, RAS-M07U2DVG-E/ RAS-5M34U2AVG-E			
Live parts and earthed metal parts		1.3	8.8
Live parts and accessible non-metallic material parts		0.29	0.35 mA peak
Supplementary information: The highest measurement from all alternative components and test conditions are put in this table. - For class I appliance, limit = 2mA per kilowatt of rated power input with a maximum of 10mA. Model : RAS-4M27U2AVG-E, 3.9kW x 2mA = 7.8 mA Model : RAS-4M27U2AVG-E, 4.4kW x 2mA = 8.8 mA			

13.3	TABLE: Dielectric strength			P
Test voltage applied between:	Test potential applied (V)		Breakdown / flashover (Yes/No)	
L,N – Earthed metal parts	1000		No	
Parts separated by supplementary insulation	1750		No	
L,N – Plastic panel of indoor unit	3000		No	
L,N – Remote controller body	3000		No	
Supplementary information: Result from application on all representative models.				

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):	254.4V, 50Hz		—
	Three phase appliances 1,06 x rated voltage divided by $\sqrt{3}$ (V)	--		—
Leakage current between		I (mA)	Max. allowed I (mA)	
Indoor unit/ Outdoor unit: RAS-M24U2DVG-E, RAS-M13U2MUVG-E, RAS-B10U2FVG-E, RAS-M07U2DVG-E/ RAS-4M27U2AVG-E				
Live parts and earthed metal parts		1.3	7.8	
Live parts and accessible non-metallic material parts		0.29	0.25	

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
Indoor unit/ Outdoor unit: RAS-B24PKVSG-E, RAS-M13PKVPG-E, RAS-M13U2MUVG-E, RAS-B10U2FVG-E, RAS-M07U2DVG-E/ RAS-5M34U2AVG-E			
Live parts and earthed metal parts		1.3	8.8
Live parts and accessible non-metallic material parts		0.29	0.25
Supplementary information: The highest measurement from all alternative components and test conditions are put in this table. - For class I appliance, limit = 2mA per kilowatt of rated power input with a maximum of 10mA. Model : RAS-4M27U2AVG-E, 3.9kW x 2mA = 7.8 mA Model : RAS-4M27U2AVG-E, 4.4kW x 2mA = 8.8 mA			

16.3	TABLE: Dielectric strength		P
Test voltage applied between:	Test potential applied (V)	Breakdown / flashover (Yes/No)	
L,N – Earthed metal parts	1250	No	
Parts separated by supplementary insulation	1750	No	
L,N – Plastic panel of indoor unit	3000	No	
Supplementary information: Result from application on all representative models.			

17	TABLE: Overload protection		P
Thermocouple locations	Max. temperature rise measured, ΔT (K)	Max. temperature rise limit, ΔT (K)	
Winding of Transformer, short-circuited secondary side (RAS- M07U2DVG-E)	27.0	175	
Winding of Transformer, short-circuited secondary side (RAS-M24U2DVG-E)	26.2	175	
Winding of Transformer, short-circuited secondary side (RAS-B10U2FVG-E)	43.6	175	
Winding of Transformer, short-circuited secondary side (RAS-M13U2MUVG-E)	42.5	175	
Winding of Transformer, short-circuited secondary side (RAS-B24PKVSG)	43.5	175	
Winding of Transformer, short-circuited secondary side (RAS-4M27U2AVG-E)	36.2	175	
Winding of Transformer, short-circuited secondary side (RAS-5M34U2AVG-E)	37.7	175	
Supplementary information:			

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

IEC 60335-2-40							
Clause	Requirement + Test			Result - Remark			Verdict
19	Abnormal operation conditions						P
Operational characteristics		YES/NO	Operational conditions				
Are there electronic circuits to control the appliance operation?		Yes	Normal operation controlled by thermistor				
Are there "off" or "stand-by" position?		Yes					
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	As specified	No hazard	Protect by Thermistor	N/A	N/A	Short circuit of thermistor	P
19.3	As specified	No hazard	Protect by Self resetting thermal cut-out	N/A	N/A	N/A	P
19.4	As specified	No hazard	Protect by shunt resistor	N/A	N/A	Short circuit of Shunt resistor	P
19.5	As specified	No hazard	Protect by Thermistor	N/A	N/A	Short circuit of thermistor	P
19.6	N/A	--	--	N/A	--	--	N/A
19.7	As specified	No hazard	Protect by Self resetting thermal cut-out	N/A	N/A	N/A	P
19.8	N/A	--	--	N/A	--	--	N/A
19.9	N/A	--	--	N/A	--	--	N/A
19.10	As specified	No hazard	Protect by shunt resistor	N/A	N/A	Short circuit of Shunt resistor	P
19.11.2	As specified	No hazard	N/A	N/A	N/A	N/A	P
19.11.4.8	N/A	--	--	N/A	--	--	N/A
19.101	As specified	No hazard	Protect by shunt resistor	N/A	N/A	Short circuit of Shunt resistor	P

IEC 60335-2-40							
Clause	Requirement + Test			Result - Remark			Verdict
19.102	As specified	No hazard	Protect by shunt resistor	N/A	N/A	Short circuit of Shunt resistor	P
19.103	As specified	No hazard	Protect by shunt resistor	N/A	N/A	Short circuit of Shunt resistor	P
19.104	N/A	--	--	N/A	--	--	N/A
Supplementary information:							

19.4	Abnormal operation conditions					P
Failure description		Effect			Verdict	
Stopping in any position		Not emit flames and enclosures not deform			P	
Disconnect and reconnection of supply		Not emit flames and enclosures not deform			P	
Open/short circuit of component		Not emit flames and enclosures not deform			P	
Supplementary information:						

19.7	Abnormal operation conditions – locked rotor test other than motor-compressors and stationary circulation pumps in compliance with IEC 60335-2-51					P
Ambient, t1 (°C):		23°C			—	
Ambient, t2 (°C):		23°C			—	
Test voltage (V) :		240V			—	
Temperature limit T of winding:		R ₁ (Ω)	R ₂ (Ω)	Measured T (°C)	Limit T (°C)	Insulation class
Fan motor (RAS-M24U2DVG-E)		--	--	30.4	165	E
Fan motor (RAS-M13U2MUVG-E)		--	--	64.4	165	E
Stepping (RAS-M13U2MUVG-E)		--	--	37.7	165	E
Fan motor (RAS-B10U2FVG-E)		--	--	62.6	165	E
Stepping top (RAS-B10U2FVG-E)		--	--	31.1	165	E
Stepping under (RAS-B10U2FVG-E)		--	--	26.3	165	E
Fan motor (RAS-M07U2DVG-E)		--	--	31.7	165	E
Drain pump (RAS-M24U2DVG-E)		--	--	44.5	165	E
Drain pump (RAS-M13U2MUVG-E)		--	--	30.9	165	E
Drain pump (RAS-M07U2DVG-E)		--	--	42.5	165	E

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

19.7	TABLE: electric strength measurements after 72 hours		P
Test voltage applied between:		Test voltage (V)	Breakdown Yes / No
windings and the enclosure		1250	No

19.7	TABLE: leakage current measurements after 72 hours		P
	A voltage equal to twice the rated voltage (V) :	480	—
Leakage current I between :		I (mA)	Required I (mA)
windings and the enclosure		0.15	2

19.7	Abnormal operation conditions – Locked rotor test motor-compressor				P
	Motor-compressor	DX220A2T-20L			
	Start device	Circuit drive by PCB			
	Protector	--			
	Start capacitor	No			
	Run capacitor	No			
	Cooling; (static); (fan-m ³ /h); (oil);	Oil			
	Thermal motor-protection system	US-622KXTMQO-SS			
		Self-resetting			Manually reset
Rated voltage		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)		--	--	--	--
Leakage current (mA) (see 16.2)		--	--	--	0.30
Electric strength (see 13.3)		--	--	--	P
Room temperature (°C) (20 ± 5°C)		--	--	--	23.7
Number of cycles (≥ 2000 or 50)		--	--	--	54
Housing temperature (°C) (≤ 150°C)		--	--	--	35.2
supplementary information:					

IEC 60335-2-40						
Clause	Requirement + Test	Result - Remark			Verdict	
19.7	Abnormal operation conditions – Locked rotor test motor-compressor				P	
	Motor-compressor	DX270A2T-20L				
	Start device	Circuit drive by PCB				
	Protector	--				
	Start capacitor	No				
	Run capacitor	No				
	Cooling; (static); (fan-m ³ /h); (oil);	Oil				
	Thermal motor-protection system	US-622KXTMQO-SS				
		Self-resetting			Manually reset	
Rated voltage		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)		--	--	--	--	P
Leakage current (mA) (see 16.2)		--	--	--	--	0.30
Electric strength (see 13.3)		--	--	--	--	P
Room temperature (°C) (20 ± 5°C)		--	--	--	--	23.7
Number of cycles (≥ 2000 or 50)		--	--	--	--	54
Housing temperature (°C) (≤ 150°C)		--	--	--	--	35.2
supplementary information:						

IEC 60335-2-40				
Clause	Requirement + Test		Result - Remark	Verdict
19.11.2	Abnormal Operation			P
Fault condition	Short circuit	Open circuit	Effect	Verdict
RAS- M07U2DVG-E				
L01	X	X	Unit cannot turn on. No hazard observed.	P
DB1	X	X	Unit cannot turn on. No hazard observed.	P
C08	X	X	Unit cannot turn on. No hazard observed.	P
IC01	X	X	Unit cannot turn on. No hazard observed.	P
T01	X	X	Unit cannot turn on. No hazard observed.	P
Reactor (CN01)	X	X	Unit cannot turn on. No hazard observed.	P
RAS-B10U2FVG-E				
L01	X	X	Unit cannot turn on. No hazard observed.	P
DB01	X	X	Unit cannot turn on. No hazard observed.	P
C03	X	X	Unit cannot turn on. No hazard observed.	P
IC101	X	X	Unit cannot turn on. No hazard observed.	P
T101	X	X	Unit cannot turn on. No hazard observed.	P
RAS-M13U2MUVG-E				
L01	X	X	Unit cannot turn on. No hazard observed.	P
DB01	X	X	Unit cannot turn on. No hazard observed.	P
C08	X	X	Unit cannot turn on. No hazard observed.	P
IC01	X	X	Unit cannot turn on. No hazard observed.	P
T01	X	X	Unit cannot turn on. No hazard observed.	P
RAS-B24PKVSG				
L01	X	X	Unit cannot turn on. No hazard observed.	P
DB01	X	X	Unit cannot turn on. No hazard observed.	P
C03	X	X	Unit cannot turn on. No hazard observed.	P
IC11	X	X	Unit cannot turn on. No hazard observed.	P
T01	X	X	Unit cannot turn on. No hazard observed.	P
RAS-4M27U2AVG-E, RAS-5M34U2AVG-E				
L01	X	X	Unit cannot turn on. No hazard observed.	P
DB01	X	X	Unit cannot turn on. No hazard observed.	P
DB700	X	X	Unit cannot turn on. No hazard observed.	P

IEC 60335-2-40				
Clause	Requirement + Test	Result - Remark	Verdict	
Fault condition	Short circuit	Open circuit	Effect	Verdict
C106	X	X	Unit cannot turn on. No hazard observed.	P
T100	X	X	Unit cannot turn on. No hazard observed.	P
Reactor	X	X	Unit cannot turn on. No hazard observed.	P

19.13	TABLE: Abnormal operation, temperature rises		P
Thermocouple locations	Max. temperature rise measured, ΔT (K)	Max. temperature rise limit, ΔT (K)	
Indoor unit: RAS-M07U2DVG-E			
Fan motor	46.6	For reference	
Pump drain water	43.5	For reference	
T01	46.7	For clause 30	
L01	43.7	For clause 30	
C01	43.3	For reference	
C08	54.4	For reference	
PCB	46.0	For clause 30	
Terminal input	42.2	For clause 30	
Air out let	44.9	For reference	
Indoor unit: RAS-M24U2DVG-E			
Fan motor	45.3	For reference	
Drain pump water	44.1	For reference	
T01	43.7	For clause 30	
L 01	44.8	For clause 30	
Reactor	43.6	For reference	
C01	44.0	For reference	
C08	43.9	For reference	
PCB	46.3	For clause 30	
Terminal input	42.1	For clause 30	
Supply cord	42.1	For reference	
Enclosure side near PCB	44.9	For reference	
Air outlet	45.5	For reference	
Indoor unit: RAS-B10U2FVG-E			
Fan motor	45.7	For reference	
Louver Motor (horizontal)	50.0	For reference	

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	Thermocouple locations	Max. temperature rise measured, ΔT (K)	Max. temperature rise limit, ΔT (K)
	Louver Motor (vertical)	40.6	For reference
	T101	52.4	For clause 30
	L01	55.2	For clause 30
	C01	50.4	For reference
	C03	46.4	For reference
	PCB	50.9	For clause 30
	Terminal input	42.9	For clause 30
	Supply cord	42.2	For reference
	Enclosure Front	43.2	For clause 30
	Wooden support	41.4	For reference
Indoor unit: RAS-M13U2MUVG-E			
	Fan motor	45.9	For reference
	Pump drain water	41.5	For reference
	T01	59.6	For clause 30
	L01	49.0	For clause 30
	C01	47.6	For reference
	C08	55.2	For reference
	PCB	51.8	For clause 30
	Terminal input	43.5	For clause 30
	Supply cord	43.0	For reference
	Louver Motor	66.0	For reference
	Enclosure panel	41.8	For clause 30
Indoor unit: RAS-B24PKVSG-E			
	Fan motor	53.8	For reference
	Louver Motor (horizontal)	49.0	For reference
	Louver Motor (vertical)	49.7	For reference
	T01	59.8	For clause 30
	L01	60.9	For clause 30
	RY01	65.3	For clause 30
	C01	54.3	For reference
	C03	56.8	For reference
	PCB	59.5	For clause 30

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	Thermocouple locations	Max. temperature rise measured, ΔT (K)	Max. temperature rise limit, ΔT (K)
	Terminal input	46.4	For clause 30
	Supply cord	44.7	For reference
	Enclosure side near PCB	42.7	For clause 30
	Wooden support	41.7	For reference
Outdoor unit: RAS-4M27U2AVG-E			
	Upper shell compressor	75.7	For reference
	Fan motor	66.6	For reference
	Reactor	62.4	For reference
	T01	68.6	For clause 30
	L01	59.2	For clause 30
	RY01	68.6	For clause 30
	RY700	61.8	For clause 30
	C01	60.4	For reference
	C11	59.9	For reference
	PCB	64.9	For clause 30
	Terminal input	54.8	For clause 30
	Supply cord	55.1	For reference
	Enclosure Front	55.2	For reference
	Wooden support	56.5	For reference
Outdoor unit: RAS-5M34U2AVG-E			
	Upper shell compressor	76.4	For reference
	Fan motor	66.6	For reference
	T01	64.7	For clause 30
	L01	70.0	For clause 30
	RY01	65.3	For clause 30
	RY700	58.8	For clause 30
	C01	62.2	For reference
	C11	67.8	For reference
	PCB	75.4	For clause 30
	Terminal input	56.4	For clause 30
	Supply cord	58.5	For reference
	Enclosure Front	56.0	For reference

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
Thermocouple locations		Max. temperature rise measured, ΔT (K)	Max. temperature rise limit, ΔT (K)
Wooden support		58.0	For reference
Supplementary information:			

19.101-104	Abnormal operation conditions		P
Subclause	Effect	Verdict	
19.101	As specified	P	
19.102	As specified	P	
19.103	As specified	P	
19.104	As specified	N/A	
Supplementary information:			

21.1	TABLE: Impact resistance			P
Impacts per surface	Surface tested	Impact energy (Nm)	Comments	
3	Front panel	0.5	Pass	
3	Side enclosure	0.5	Pass	
Supplementary information:				

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

24.1	TABLE: Critical components information					P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾	
Components for indoor model: RAS-M07U2DVG-E, RAS-M10U2DVG-E, RAS-M13U2DVG-E, RAS-M16U2DVG-E, RAS-M22U2DVG-E, RAS-M24U2DVG-E, RAS-M07U2DVG-TR, RAS-M10U2DVG-TR, RAS-M13U2DVG-TR, RAS-M16U2DVG-TR, RAS-M22U2DVG-TR, RAS-M24U2DVG-TR						
Fan Motor	NIDEC	ICF-340WD94- 3	DC280V, 94W Class: E	IEC 60335-1 IEC 60335-2-40	Tested in appliance	
<Alternative>	NIDEC	ICF-340WD94- 4	DC280V, 94W Class: E	IEC 60335-1 IEC 60335-2-40	Tested in appliance	
Reactor	TABUCHI	CH-49	15mH, 4A Insulation class E	IEC 60335-1 IEC 60335-2-40	Tested in appliance	
Terminal Block	JINLONG	JXO-3B	3P	IEC 60335-1 IEC 60335-2-40	Tested in appliance	
<Alternative>	OTAX	TB-ETS-3P	3P	IEC 60335-1 IEC 60335-2-40	Tested in appliance	
<Alternative>	HOPPY	HP-T3038-3P	3P	IEC 60335-1 IEC 60335-2-40	Tested in appliance	
<Alternative>	KYOSHIN	3P	3P	IEC 60335-1 IEC 60335-2-40	Tested in appliance	
Drain Pump Motor	SAGINOMIYA SEISAKUSHO, INC.	MDP-1401	DC12V Insulation class: E	IEC 60335-1 IEC 60335-2-40	Tested in appliance	
<Alternative>	SAGINOMIYA SEISAKUSHO, INC.	MDP-1201	DC12V Insulation class: E	IEC 60335-1 IEC 60335-2-40	Tested in appliance	
<Alternative>	Fujikoki Corporation	PMD-08D12TF-2	DC12V Insulation class: E	IEC 60335-1 IEC 60335-2-40	Tested in appliance	
Print Circuit Board	Interchangeable	MCC-1643	Glass fiber epoxy resin V-0, CTI=600	IEC 60335-1 IEC 60335-2-40	Tested in appliance	
Indoor Electronic control PCB, MCC-1643						
Fuse (F01)	NIPPON SEISEN	FJL, SLT, FSL	T6.3A, 250VAC	IEC/EN 60127-2	SEMKO	
<Alternative>	SOC	ET, TSCR	T6.3A, 250VAC	IEC/EN 60127-2	SEMKO	
<Alternative>	HOLLY LAND	50T(P)063HF	T6.3A, 250VAC	IEC/EN 60127-2	SEMKO	
<Alternative>	SKYGATE	SG5013 063P-R F	T6.3A, 250VAC	IEC/EN 60127-2	SEMKO	
Switching Transformer (T01)	TABUCHI	SWT-107	Bobbin: Phenol V-0 Windings:UEW Insulation Class: E	IEC 60335-1 IEC 60335-2-40	Tested in appliance	

IEC 60335-2-40					
Clause	Requirement + Test			Result - Remark	Verdict
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Varistor (R01)	WALSIN	SR561K14D	560V, 0.6W	IEC 61051-1 IEC 61051-2	VDE
<Alternative>	NIPPON CHEMI- CON	TNR14V561K, TNR14G561K, TNR14V471K, TNR14G471K	560V, 0.6W, 560V, 0.6W, 470V, 0.6W, 470V, 0.6W	CECC42000, 42200,42201	VDE
<Alternative>	EPCOS	S14K300E2, S14K350E2, S14K385E2	470V, 0.6W, 560V, 0.6W, 620V, 0.6W	IEC 61051-1 IEC 61051-2	VDE
Line Filter (L01)	TOKIN	SS21V- R180044	4.4mH, 1.8A	IEC 60335-1 IEC 60335-2-40	Tested in appliance
X Capacitor (C01)	OKAYA	LE684	0.68µF, AC310V	IEC/EN 60384-14	SEMKO
<Alternative>	ARCOTRONICS (NISSEI)	R46	0.68µF, AC310V	IEC/EN 60384-14	VDE
Y Capacitor (C03), (C04), (C06), (C23)	MURATA	KH	4700pF, AC250V	IEC/EN 60384-14	VDE
Y Capacitor (C03), (C04), (C06), (C23)	MURATA	KY	4700pF, AC250V	IEC/EN 60384-14	VDE
<Alternative>	MURATA	KH	0.01µF, AC250V	IEC/EN 60384-14	VDE
<Alternative>	MURATA	KY	0.01µF, AC250V	IEC/EN 60384-14	VDE
<Alternative>	MURATA	KH	2200pF, AC250V	IEC/EN 60384-14	VDE
<Alternative>	MURATA	KY	2200pF, AC250V	IEC/EN 60384-14	VDE
<Alternative>	MURATA	KH	1000pF, AC250V	IEC/EN 60384-14	VDE
<Alternative>	MURATA	KY	1000pF, AC250V	IEC/EN 60384-14	VDE
Components for indoor model: RAS-B10U2FVG-E, RAS-B13U2FVG-E, RAS-B18U2FVG-E, RAS-B10U2FVG-TR, RAS-B13U2FVG-TR, RAS-B10U2FVG-TR					
Fan Motor	NIDEC	ICF-340-41-1	DC340V, 41W Insulation class: E	IEC 60335-1 IEC 60335-2-40	Tested in appliance
Terminal Block	HOPPY	HP-T4019-12- L1	3P	IEC 60335-1 IEC 60335-2-40	Tested in appliance
Louver Motor	NIDEC SANKYO	MP24Z3N	12VDC	IEC 60335-1 IEC 60335-2-40	Tested in appliance
<Alternative>	LEILI	24BYJ48-HT, 24BYJ48-HTP	12VDC	IEC 60335-1 IEC 60335-2-40	Tested in appliance

IEC 60335-2-40					
Clause	Requirement + Test			Result - Remark	Verdict
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
<Alternative>	HIGASHIFUJI	MP24Z3T, MP24Z3N, MP24ZCT, MP24ZCN, MP24Z4N	12VDC	IEC 60335-1 IEC 60335-2-40	Tested in appliance
Print Circuit Board	Interchangeable	MCC-5068	Glass fiber epoxy resin V-0, CTI=600	IEC 60335-1 IEC 60335-2-40	Tested in appliance
Indoor Electronic control PCB, MCC-5068					
Fuse (F01)	NIPPON SEISEN	FJL, FCU	T3.15A, 250VAC	IEC 60127-2	SEMKO
<Alternative>	PICO	SCT	T3.15A, 250VAC	IEC 60127-2	VDE
<Alternative>	SKYGATE	SCT	T3.15A, 250VAC	IEC 60127-2	SEMKO
<Alternative>	SKYGATE	SG5013 3.15P- RF	T3.15A, 250VAC	IEC 60127-2	SEMKO
<Alternative>	HOLLY LAND	50T(P)032HF	T3.15A, 250VAC	IEC 60127-2	SEMKO
<Alternative>	SOC	ET, TSCR	T3.15A, 250VAC	IEC/EN 60127-2	BSI
Switching Transformer (T101)	TDK	SWT-100	Bobbin: Phenol V-0 Windings: UEW Insulation class: E	IEC 60335-1 IEC 60335-2-40	Tested in appliance
Varistor (R01)	WALSIN	SR561K14D	560V, 0.6W	IEC 61051-1 IEC 61051-2	VDE
<Alternative>	NIPPON CHEMI- CON	TNR14V561K, TNR14G561K, TNR14V471K, TNR14G471K	560V, 0.6W, 560V, 0.6W, 470V, 0.6W, 470V, 0.6W	CECC42000, 42200,42201	VDE
<Alternative>	EPCOS	S14K300E2, S14K350E2, S14K385E2	470V, 0.6W, 560V, 0.6W, 620V, 0.6W	IEC 61051-1 IEC 61051-2	VDE
Line Filter (L01)	TOKIN	SS11V- R06270	27mH, 600mA	IEC 60335-1 IEC 60335-2-40	Tested in appliance
<Alternative>	TOKIN	SS11V- R08125	12.5mH, 600mA	IEC 60335-1 IEC 60335-2-40	Tested in appliance
<Alternative>	UENO	ADR25H2001 0	1.25mH, 20A	IEC 60335-1 IEC 60335-2-40	Tested in appliance
Capacitor (C01)	ARCOTRONICS (NISSEI)	R46	0.22µF, AC 275V	IEC/EN 60384-14	VDE
<Alternative>	EUROTRONIC	MPX2	0.22µF, AC 275V	IEC/EN 60384-14	VDE

IEC 60335-2-40					
Clause	Requirement + Test			Result - Remark	Verdict
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
<Alternative>	OKAYA	LE224	0.22µF, AC 310V	IEC/EN 60384-14	SEMKO
Capacitor (C03)	NIPPON CHEMI- CON	KMH	120µF, 450V	IEC 60335-1 IEC 60335-2-40	Tested in appliance
<Alternative>	ELNA	LAH	150µF, 450V	IEC 60335-1 IEC 60335-2-40	Tested in appliance
Components for Indoor unit: Compact 4-Way Cassette Type RAS-M10U2MUVG-E/TR, RAS-M13U2MUVG-E/TR, RAS-M16U2MUVG-E/TR					
Parts on PCB MCC-1643					
Printed Circuit Board, PW01	Various	MCC-1643	Glass fiber epoxy resin, V-0	IEC 60335-1 IEC 60335-2-40	Tested in appliance
X Capacitor, C01	Okaya Electric Industries Co., Ltd.	LE684-MX	0.68µF, 310VAC	IEC 60384-14	SEMKO
<Alternative>	Okaya Electric Industries Co., Ltd.	LE684-FX	0.68µF, 310VAC	IEC 60384-14	SEMKO
<Alternative>	Arcotronics Italia SpA	R46K	0.68µF, 275VAC	IEC 60384-14	ENEC/IMQ
Smoothing Capacitor, C08	Various	Various	220µF, 400V	IEC 60335-1 IEC 60335-2-40	Tested in appliance
Y Capacitor, C03, C04, C06	Murata Mfg Co., Ltd	KH, KY	4700pF, 250VAC	IEC60384-14	VDE
<Alternative>	Murata Mfg Co., Ltd	KH, KY	0.01µF, 250VAC	IEC60384-14	VDE
<Alternative>	Murata Mfg Co., Ltd	KH, KY	2200pF, 250VAC	IEC60384-14	VDE
<Alternative>	Murata Mfg Co., Ltd	KH, KY	1000pF, 250VAC	IEC60384-14	VDE
Bridging Capacitor Y2 (C23)	Murata Mfg Co., Ltd	KH, KY	4700pF, 250VAC	IEC60384-14	VDE
<Alternative>	Murata Mfg Co., Ltd	KH, KY	0.01µF, 250VAC	IEC60384-14	VDE
<Alternative>	Murata Mfg Co., Ltd	KH, KY	2200pF, 250VAC	IEC60384-14	VDE
<Alternative>	Murata Mfg Co., Ltd	KH, KY	1000pF, 250VAC	IEC60384-14	VDE
Fuse, F01	Holly land Co., Ltd.	50T(P) 063HF	6.3A, 250VAC	IEC 60127-2	SEMKO

IEC 60335-2-40					
Clause	Requirement + Test			Result - Remark	Verdict
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
<Alternative>	NIPPON SEISEN Corp.	FJL, SLT	6.3A, 250VAC	IEC 60127-2	SEMKO
<Alternative>	SKYGATE Co., Ltd.	SG5013 063P-R F	6.3A, 250VAC	IEC 60127-2	SEMKO
<Alternative>	SOC	BET, TSCR	6.3A, 250VAC	IEC/EN 60127-2	SEMKO
Photo Coupler IC05, IC07, IC08	Toshiba Corporation	TLP183	BV 3750Vrms	IEC 60747-5-5	VDE
<Alternative>	Toshiba Corporation	TLP185	BV 3750Vrms	IEC/EN 60747-5-2	VDE
<Alternative>	EVERLIGHT	EL357N	BV 3750Vrms	EN60747-5-5	VDE
Photo Coupler, IC09	Toshiba Corporation	TLP748J(D4)	BV 4000 Vrms	IEC 60747-5-5	VDE
Line Filter, L01	NEC-TOKIN Corporation	SS21V- R180044	4.4mH, 1.8A, Insulation class: A Insulation case: PBT	IEC 60335-1 IEC 60335-2-40	Tested in appliance
Varistor, R01 (Line to Line)	Nippon Chemi-con Corp.	TNR14V561K	560V, 0.6W	CECC42000, 42200,42201	VDE
<Alternative>	EPCOS CO LTD	S14K300	560V, 0.6W	IEC 61051-1 IEC 61051-2	VDE
<Alternative>	Walsin Pan Oversea	SR561K14D0	560V, 0.6W	IEC 61051-1 IEC 61051-2	VDE
<Alternative>	Nippon Chemi-con Corp.	TNR10V471K	470V, 0.4W	CECC42000, 42200,42201	VDE
<Alternative>	EPCOS CO LTD	S10K300	470V, 0.4W	IEC 61051-1 IEC 61051-2	VDE
<Alternative>	Walsin Pan Oversea	SR471K10D0	470V, 0.4W	IEC 61051-1 IEC 61051-2	VDE
Switching Transformer, T01	TABUCHI Electric Co., Ltd.	SWT-107	Bobbin: Phenol V-0 Windings: UEW Insulation Class: E	IEC 60335-1 IEC 60335-2-40	Tested in appliance
Connector, CN67	J.S.T. Mfg. Co., Ltd.	B3P5-VH-B-K,	7A, 250VAC PBT (Glass fiber) V-0	IEC 61984	TUV

IEC 60335-2-40					
Clause	Requirement + Test			Result - Remark	Verdict
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Connector, CN309	J.S.T. Mfg. Co., Ltd.	B2P3-VH-B-Y	7A, 250VAC PBT (Glass fiber) V-0	IEC 61984	TUV
Connector CN210	J.S.T. Mfg. Co., Ltd.	B5(7-2.3)B- XASK	3A, 250VAC PBT (Glass fiber) V-0	IEC 61984	TUV
Other parts					
Terminal Block	Yueqing Jinlong Electronics Industrial	JXO-3B	AC250V, 20A, Urea, Thermosetting, V-0	IEC 60335-1 IEC 60335-2-40	Tested in appliance
<Alternative>	Kyoshin Kogyo	3P	AC250V, 20A, Unsaturated Polyester Thermosetting, V-0	IEC 60335-1 IEC 60335-2-40	Tested in appliance
Connector for PCB Input	J.S.T. Mfg. Co., Ltd.	VHR-3N-BK, VHR-5N-BK	Nylon6, V-0	IEC 61984	TUV
Connector for Fan Motor	J.S.T. Mfg. Co., Ltd.	XAP-07V-1, XARP-07V	Nylon6, V-0	IEC 61984	TUV
Fan Motor	NIDEC TECHNO MOTOR CORPORATION	ICF-340D60-1	DC280-340V Output 60W Insulation class: E	IEC 60335-1 IEC 60335-2-40	Tested in appliance
Drain Pump Motor	SAGINOMIYA SEISAKUSHO, INC.	MDP-1401	DC12V Insulation class: E	IEC 60335-1 IEC 60335-2-40	Tested in appliance
<Alternative>	SAGINOMIYA SEISAKUSHO, INC.	MDP-1201	DC12V Insulation class: E	IEC 60335-1 IEC 60335-2-40	Tested in appliance
<Alternative>	Fujikoki Corporation	PMD- 08D12TF-2	DC12V Insulation class: E	IEC 60335-1 IEC 60335-2-40	Tested in appliance
Option					
TCB-SIR41UM- E (Occupancy Sensor)	SANO KOGYO CO.,LTD.	-	-	IEC 60335-1 IEC 60335-2-40	Tested in appliance
RBC- UM21PG(W)-E (Ceiling Panel)	Kusumi CO.,LTD.	-	-	IEC 60335-1 IEC 60335-2-40	Tested in appliance

IEC 60335-2-40					
Clause	Requirement + Test			Result - Remark	Verdict
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Louver Motor (in Ceiling Panel)	NIDEC SANKYO CORPORATION	MSBPC20F04	DC12V Insulation class: E	IEC 60335-1 IEC 60335-2-40	Tested in appliance
Components for indoor model: RAS-B22PKVSG-E, RAS-B22PKVSG-TR, RAS-B24PKVSG-E, RAS-B24PKVSG-TR					
Fan Motor	NIDEC	ICF-340-30-6	DC340V, 42W Insulation class: E	IEC 60335-1 IEC 60335-2-40	Tested in appliance
<Alternative>	PANASONIC	MF-340-30- 1RT	DC250-370V Insulation class: E	IEC 60335-1 IEC 60335-2-40	Tested in appliance
Terminal Block	JINLONG	JXO-E3-5P-B- 1	5P, 300V, 20A	IEC 60335-1 IEC 60335-2-40	Tested in appliance
Stepping Motor	NIDEC	MSBPC20F04	DC12V	IEC 60335-1 IEC 60335-2-40	Tested in appliance
<Alternative>	LEILI	24BYJ48-ST	DC12V	IEC 60335-1 IEC 60335-2-40	Tested in appliance
Print Circuit Board	TOSHIBA	WP-038	Material: Paper base Phenolic resin	IEC 60335-1 IEC 60335-2-40	Tested in appliance
Components for Printed circuit board model: WP-038					
Fuse (F01)	NIPPON SEISEN	SLT,FJL	6.3A, 250VAC	IEC 60127-2	SEMKO
<Alternative>	SOC	ET, TSCR	6.3A, 250VAC	IEC 60127-2	SEMKO
Fuse (F02)	NIPPON SEISEN	FSL	1.0A, 250VAC	IEC 60127-2	SEMKO
SW.Transformer (T01)	TDK	ST-05	Input: DC310- 340V Output: 8V, 13V, 19V	IEC 60335-1 IEC 60335-2-40	Tested in appliance
Varistor (R01,R02)	NIPPON CHEMI- CON	TNR10V471K	775V, 0.4W	IEC 60335-1 IEC 60335-2-40	Tested in appliance
Line Filter (L01)	TOKIN	SS11V- R06270	27mH, 0.6A	IEC 60335-1 IEC 60335-2-40	Tested in appliance
Capacitor (C01)	Acrotonics	R46	0.033µF, AC275V	IEC/EN 60384-14	VDE
Capacitor (C02)	OKAYA	LE224	0.22µF, AC310V	IEC/EN 60384-14	SEMKO
Capacitor (C03)	NIPPON CHEMI- CON	KMH	150µF, 450V	EN 60384-14	VDE
<Alternative>	ELNA	LAH	150µF, 450V	EN 60384-14	VDE

IEC 60335-2-40					
Clause	Requirement + Test			Result - Remark	Verdict
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Relay(RY01)	SCN	891WP-1AC	20A,12VDC, 250VAC	IEC/EN 61810-1 IEC/EN 60079-15 IEC/EN 60335-2-40 IEC/EN 60335-1	Tested in appliance, TUV
Front cover / Panel/ Enclosure	DAINICHI COLOR (THAILAND)CO.,L TD)	PS	--	IEC 60335-1 IEC 60335-2-40	Tested in appliance
Supplementary tube	Interchangeable	Interchangeable	VW-1	IEC60335-1, IEC60335-2-40	Tested in Appliance
Components for Outdoor unit: RAS-3M26U2AVG-E, RAS-3M26U2AVG-TR, RAS-4M27U2AVG-E, RAS-4M27U2AVG-TR, RAS-5M34U2AVG-E, RAS-5M34U2AVG-TR					
Compressor (RAS-3M*) (RAS-4M*)	TCFG	DX220A2T- 20L	4 poles, 2000W Insulation class: E	IEC 60335-1 IEC 60335-2-40	Tested in appliance
Compressor (RAS-5M*)	TCFG	DX270A2T- 20L	4 poles, 2200W Insulation class: E	IEC 60335-1 IEC 60335-2-40	Tested in appliance
Thermostat	WAKO ELECTRIC	CS-12AL	AC 100-250V DC 12V ON 90°C OFF 125°C	IEC 60335-1 IEC 60335-2-40	Tested in appliance
Fan Motor (RAS-3M*) (RAS-4M*)	NIDEC	ICF-280-A60-1	DC280V, 60W Insulation class: E	IEC 60335-1 IEC 60335-2-40	Tested in appliance
Fan Motor (RAS-5M*)	WELLING	WDF-340- A100-1	DC280-340V, 100W Insulation class: E	IEC 60335-1 IEC 60335-2-40	Tested in appliance
<Alternative>	NIDEC	ICF-280- A100-1	DC280V, 100W Insulation class: E	IEC 60335-1 IEC 60335-2-40	Tested in appliance
PMV Coil	SAGINOMIYA	UKV-A039	DC12V Insulation class: E	IEC 60335-1 IEC 60335-2-40	Tested in appliance
<Alternative>	FUJIKOKI	CAM	DC12V Insulation class: A	IEC 60335-1 IEC 60335-2-40	Tested in appliance
<Alternative>	SANHUA	Q12-TC-02	DC12V Insulation class: E	IEC 60335-1 IEC 60335-2-40	Tested in appliance
<Alternative>	SANHUA	PQ	DC12V Insulation class: E	IEC 60335-1 IEC 60335-2-40	Tested in appliance
<Alternative>	TAIHEIYO	C12A-01A, C12A-80A	DC12V Insulation class: E	IEC 60335-1 IEC 60335-2-40	Tested in appliance

IEC 60335-2-40					
Clause	Requirement + Test			Result - Remark	Verdict
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
4Way Valve Coil	SAGINOMIYA	STF-H01	220-240V Insulation class: E	IEC 60335-1 IEC 60335-2-40	Tested in appliance
<Alternative>	SANHUA	SQ-D	12VDC, Insulation class: B	IEC 60335-1 IEC 60335-2-40	Tested in appliance
<Alternative>	SAGINOMIYA	STF	12VDC, Insulation class: B	IEC 60335-1 IEC 60335-2-40	Tested in appliance
Terminal Block- 01	JINLONG	JXO-9B	9P Insulation class: I	IEC 60335-1 IEC 60335-2-40	Tested in appliance
Terminal Block- 02 (RAS-3M*)	JINLONG	JXO-3B	3P Insulation class: I	IEC 60335-1 IEC 60335-2-40	Tested in appliance
<Alternative>	OTAX	TB-ETS-3P	3P	IEC 60335-1 IEC 60335-2-40	Tested in appliance
<Alternative>	HOPPY	HP-T3038-3P	3P	IEC 60335-1 IEC 60335-2-40	Tested in appliance
<Alternative>	KYOSHIN	3P	3P	IEC 60335-1 IEC 60335-2-40	Tested in appliance
Terminal Block- 02 (RAS-4M*)	JINLONG	JXO-6B	6P Insulation class: I	IEC 60335-1 IEC 60335-2-40	Tested in appliance
Terminal Block- 02 (RAS-5M*)	JINLONG	JXO-9B	9P Insulation class: I	IEC 60335-1 IEC 60335-2-40	Tested in appliance
Reactor-01	TAMURA	CH-76	10mH, 1.0A, Insulation class: E	IEC 60335-1 IEC 60335-2-40	Tested in appliance
<Alternative>	TABUCHI	CH-43	10mH, 1.0A, Insulation class: E	IEC 60335-1 IEC 60335-2-40	Tested in appliance
<Alternative>	VRK SPECTRUM	CH-76	10mH,1.0A, Insulation class: E	IEC 60335-1 IEC 60335-2-40	Tested in appliance
Reactor-02	TABUCHI	CH-56	5.46-6.14mH,18.5A Insulation class: H	IEC 60335-1 IEC 60335-2-40	Tested in appliance
<Alternative>	FUJIHEN	CH-56	5.8mH, 18.5A Insulation class: H	IEC 60335-1 IEC 60335-2-40	Tested in appliance
Printed Circuit Board (Main PCB)	Interchangeable	MCC-1571	Glass fiber epoxy resin V-0, CTI=600	IEC 60335-1 IEC 60335-2-40	Tested in appliance
Printed Circuit Board (Control PCB)	Interchangeable	WP-041	Glass fiber epoxy resin V-0, CTI=600	IEC 60335-1 IEC 60335-2-40	Tested in appliance
Outdoor Electronic control PCB, MCC-1571:					
Fuse (F01)	NIPPON SEISEN	GDT	25A, 250VAC	IEC 60335-1 IEC 60335-2-40	Tested in appliance

IEC 60335-2-40					
Clause	Requirement + Test			Result - Remark	Verdict
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
<Alternative>	SOC	CES15, TLCR	25A, 250VAC	IEC 60335-1 IEC 60335-2-40	Tested in appliance
Fuse (F03)	NIPPON SEISEN	FSL	T10A, 250VAC	IEC/EN 60127-2	SEMKO
Fuse (F100), (F700)	PICO	SCT	T3.15A, 250VAC	IEC 60127-2	VDE
<Alternative>	SKYGATE	SCT	T3.15A, 250VAC	IEC 60127-2	SEMKO
<Alternative>	SKYGATE	SG5013 3.15P- RF	T3.15A, 250VAC	IEC 60127-2	SEMKO
<Alternative>	HOLLY LAND	50T(P)032HF	T3.15A, 250VAC	IEC 60127-2	SEMKO
<Alternative>	NIPPON SEISEN	FJL, FCU	T3.15A, 250VAC	IEC 60127-2	SEMKO
<Alternative>	SOC	ET, TSCR	T3.15A, 250VAC	IEC/EN 60127-2	BSI
X Capacitor (C01), (C02)	ARCOTRONICS (NISSEI)	R46	1µF, AC 275V, X2	IEC/EN 60384-14	VDE
<Alternative>	KEMET	R46K	1µF, AC 275V, X2	IEC/EN 60384-14	ENEC/IMQ
<Alternative>	EUROTRONIC	MPX2	1µF, AC 275V, X2	IEC/EN 60384-14	ENEC/IMQ
<Alternative>	OKAYA	LE105	1µF, AC 310V, X2	IEC/EN 60384-14	SEMKO
Y Capacitor (C03), (C04), (C06), (C07)	MURATA	KH, KY	0.01µF, AC 250V	IEC/EN 60384-14	VDE
<Alternative>	TDK	CS	0.01µF, AC 250V	IEC/EN 60384-14	VDE
Capacitor (C10), (C11), (C12)	Interchangeable	Interchangeable	760µF, DC400V	IEC 60335-1 IEC 60335-2-40	Tested in appliance
Power Relay (RY01)	DAIICHI	DA12D2 (DA2U)	AC250V, 20A	IEC 60335-1 IEC 60335-2-40	Tested in appliance
Line Filter (L01)	NEC	SC-20-E18J	AC250V, 20A, 1.8mH PBT, V-0 Insulation Class: E	IEC 60335-1 IEC 60335-2-40	Tested in appliance
Switching Transformer (T100)	TABUCHI	SWT-113	Bobbin: Phenol V-0 Windings: UEW Insulation Class: E	IEC 60335-1 IEC 60335-2-40	Tested in appliance
<Alternative>	TDK	SWT-92	Bobbin: Phenol V-0 Windings: UEW Insulation Class: E	IEC 60335-1 IEC 60335-2-40	Tested in appliance
Current Transformer (T620)	NISHIMURA	S19-T497TV	Bobbin: Phenol Wire: UEW Insulation Class: E	IEC 60335-1 IEC 60335-2-40	Tested in appliance

IEC 60335-2-40					
Clause	Requirement + Test			Result - Remark	Verdict
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Varistor (R01), R02), (R03), (R05), (R06)	NIPPON CHEMI- CON	TNR14V561K, TNR14G561K, TNR14V471K, TNR14G471K	560V, 0.6W, 560V, 0.6W, 470V, 0.6W, 470V, 0.6W	CECC42000, 42200,42201	VDE
<Alternative>	WALSIN	SR561K14D	560V, 0.6W	IEC 61051-1 IEC 61051-2	VDE
<Alternative>	EPCOS	S14K300E2, S14K350E2, S14K385E2	470V, 0.6W, 560V, 0.6W, 620V, 0.6W	IEC 61051-1 IEC 61051-2	VDE
Relay (RY700)	OMRON	G5NB-1A, G5NB-1A-CA	3A , 250V	IEC/EN 61810-1	VDE
<Alternative>	SONG CHUAN	202N-1AC-C	3A , 250V	IEC/EN 61810-1	VDE
<Alternative>	SHINMEI	RPG-12-001	3A, 250V	IEC/EN 61810-1	TUV
<Alternative>	TYCO	PCJ- 112D3MH	3A , 250V	IEC/EN 61810-1	VDE
<Alternative>	PANASONIC	ADLP112	3A , 250V, 5A , 277V	IEC/EN 61810-1	VDE
<Alternative>	OMRON	G5V-2	2A , 125V	IEC/EN 61810-1	VDE
<Alternative>	DAIICHI	EN1U	3A , 277V	IEC/EN 61810-1	VDE
Relay (RY701), (RY705)	OMRON	G5SB-14	AC250V,1A	EN61810-1	VDE
<Alternative>	PANASONIC (Matsushita: NAD)	JQ1-12-F (AJQ1341)	AC250V, 3A	EN61810-1	VDE
Outdoor Electronic control PCB, WP-041:					
Fuse (F01)	SKYGATE	SCT3.15A	3.15A, 250VAC	IEC 60335-1 IEC 60335-2-40	Tested in appliance
<Alternative>	PICO	SCT	T3.15A, 250VAC	IEC 60127-2	VDE
<Alternative>	SKYGATE	SCT	T3.15A, 250VAC	IEC 60127-2	SEMKO
<Alternative>	SKYGATE	SG5013 3.15P- RF	T3.15A, 250VAC	IEC 60127-2	SEMKO
<Alternative>	HOLLY LAND	50T(P)032HF	T3.15A, 250VAC	IEC 60127-2	SEMKO
<Alternative>	NIPPON SEISEN	FJL, FCU	T3.15A, 250VAC	IEC 60127-2	SEMKO
<Alternative>	SOC	ET, TSCR	T3.15A, 250VAC	IEC/EN 60127-2	BSI
Fan Guard	Toshiba Carrier	11180001	PP-K	IEC60335-1, IEC60335-2-40	Tested in Appliance
Supplementary tube	Interchangeable	Interchangeab le	VW-1	IEC60335-1, IEC60335-2-40	Tested in Appliance
Supplementary information: ¹⁾ Provided evidence ensures the agreed level of compliance. See OD-CB2039.					

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

28.1	TABLE: Threaded part torque test			P
Threaded part identification	Diameter of thread (mm)	Column number (I, II, or III)	Applied torque (Nm)	
Screws for fixing cover of terminal box	3.9	II	1.2	
Screws for cord anchorage	3.9	II	1.2	
Screws for connection at terminal blocks (indoor unit)	3.9	II	1.2	
Screws for connection at main terminal supply blocks (outdoor unit)	3.9	II	1.2	
Screws for interconnecting terminal	3.9	II	1.2	
Screw for earthing connection (Outdoor unit)	3.9	II	1.2	
Supplementary information:				

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

29.1	TABLE: Clearances					P
	Overvoltage category :				II	—
		Type of insulation:				
Rated impulse voltage (V):	Min. cl (mm)	Basic (mm)	Supplementary (mm)	Reinforced (mm)	Functional (mm)	Verdict / Remark
330	0,2* / 0,5 / 0,8**	--	--	--	--	N/A
500	0,2* / 0,5 / 0,8**	--	--	--	--	N/A
800	0,2* / 0,5 / 0,8**	--	--	--	--	N/A
1 500	0,5 / 0,8** / 1,0***	--	--	--	--	N/A
2 500	1,5 / 2,0***	7.0	>10.0	--	3.0	P
4 000	3,0 / 3,5***	--	--	>10.0	--	P
6 000	5,5 / 6,0***	--	--	--	--	N/A
8 000	8,0 / 8,5***	--	--	--	--	N/A
10 000	11,0 / 11,5***	--	--	--	--	N/A
Supplementary information:						
Basic: Distance between compressor terminals and its housing. (Outdoor unit)						
Functional: Distance between L and N on PCB on indoor unit						
Supplementary: Distance between internal wire and accessible on indoor unit.						
Reinforce: Distance between live parts and accessible parts.						
*) For tracks on printed circuit boards if pollution degree 1 and 2						
**) For pollution degree 3						
***) If the construction is affected by wear, distortion, movement of the parts or during assembly						

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

29.2	TABLE: Creepage distances, basic, supplementary and reinforced insulation										P
Working voltage (V)	Creepage distance (mm)							Type of insulation			Verdict
	Pollution degree										
	1	2			3			B** S** R**			
		Material group			Material group						
	I	II	IIIa/IIIb	I	II	IIIa/IIIb*					
≤50	0,18	0,6	0,85	1,2	1,5	1,7	1,9		—	—	N/A
≤50	0,18	0,6	0,85	1,2	1,5	1,7	1,9	—		—	N/A
≤50	0,36	1,2	1,7	2,4	3,0	3,4	3,8	—	—		N/A
125	0,28	0,75	1,05	1,5	1,9	2,1	2,4		—	—	N/A
125	0,28	0,75	1,05	1,5	1,9	2,1	2,4	—		—	N/A
125	0,56	1,5	2,1	3,0	3,8	4,2	4,8	—	—		N/A
250	0,56	1,25	1,8	2,5	3,2	3,6	4,0	7.0	—	—	P
250	0,56	1,25	1,8	2,5	3,2	3,6	4,0	—	>10	—	P
250	1,12	2,5	3,6	5,0	6,4	7,2	8,0	—	—	>10	P
B; Basic: Distance between compressor terminals and its housing. (Outdoor unit) S; Supplementary: Between internal wire at supply connecting terminals and accessible. (Indoor unit) R; Reinforced: Distance between live parts and accessible parts. (Indoor unit)											
400	1,0	2,0	2,8	4,0	5,0	5,6	6,3		—	—	N/A
400	1,0	2,0	2,8	4,0	5,0	5,6	6,3	—		—	N/A
400	2,0	4,0	5,6	8,0	10,0	11,2	12,6	—	—		N/A
500	1,3	2,5	3,6	5,0	6,3	7,1	8,0		—	—	N/A
500	1,3	2,5	3,6	5,0	6,3	7,1	8,0	—		—	N/A
500	2,6	5,0	7,2	10,0	12,6	14,2	16,0	—	—		N/A
>630 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0		—	—	N/A
>630 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	—		—	N/A
>630 and ≤800	3,6	6,4	9,0	12,6	16,0	18,0	20,0	—	—		N/A
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5		—	—	N/A
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5	—		—	N/A
>800 and ≤1000	4,8	8,0	11,2	16,0	20,0	22,0	25,0	—	—		N/A
>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0		—	—	N/A
>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0	—		—	N/A
>1000 and ≤1250	6,4	10,0	14,2	20,0	25,0	28,0	32,0	—	—		N/A
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0		—	—	N/A

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

29.2	TABLE: Creepage distances, basic, supplementary and reinforced insulation										P
Working voltage (V)	Creepage distance (mm)							Type of insulation			Verdict
	Pollution degree										
	1	2			3			B** S** R**			
		Material group			Material group						
	I	II	IIIa/IIIb	I	II	IIIa/IIIb*					
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	—	—	—	N/A
>1250 and ≤1600	8,4	12,6	18,0	25,0	32,0	36,0	40,0	—	—	—	N/A
>1600 and ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0	—	—	—	N/A
>1600 and ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0	—	—	—	N/A
>1600 and ≤2000	11,2	16,0	22,0	32,0	40,0	44,0	50,0	—	—	—	N/A
>2000 and ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0	—	—	—	N/A
>2000 and ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0	—	—	—	N/A
>2000 and ≤2500	15,0	20,0	28,0	40,0	50,0	56,0	64,0	—	—	—	N/A
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0	—	—	—	N/A
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0	—	—	—	N/A
>2500 and ≤3200	20,0	25,0	36,0	50,0	64,0	72,0	80,0	—	—	—	N/A
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	—	—	—	N/A
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	—	—	—	N/A
>3200 and ≤4000	25,0	32,0	44,0	64,0	80,0	90,0	100,0	—	—	—	N/A
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	—	—	—	N/A
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	—	—	—	N/A
>4000 and ≤5000	32,0	40,0	56,0	80,0	100,0	112,0	126,0	—	—	—	N/A
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0	—	—	—	N/A
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0	—	—	—	N/A
>5000 and ≤6300	40,0	50,0	72,0	100,0	126,0	142,0	160,0	—	—	—	N/A
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	—	—	—	N/A
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	—	—	—	N/A
>6300 and ≤8000	50,0	64,0	90,0	126,0	160,0	180,0	200,0	—	—	—	N/A
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	—	—	—	N/A
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	—	—	—	N/A
>8000 and ≤10000	64,0	80,0	112,0	160,0	200,0	220,0	250,0	—	—	—	N/A
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	—	—	—	N/A

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Clause	Requirement + Test	Result - Remark	Verdict

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						
		I	II	IIIa/IIIb	I	II	IIIa/IIIb*	B**	S**	R**	
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	—		—	N/A
>10000 and ≤12500	80,0	100,0	142,0	200,0	250,0	280,0	320,0	—	—		N/A
Supplementary information:											
*) Material group IIIb is allowed if the working voltage does not exceed 50 V											
**) B = Basic insulation, S = Supplementary insulation, R = Reinforced insulation											

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

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*	
≤10	0,08	0,4	0,4	0,4	1,0	1,0	1,0	N/A
50	0,16	0,56	0,8	1,1	1,4	1,6	1,8	N/A
125	0,25	0,71	1,0	1,4	1,8	2,0	2,2	N/A
250	0,42	1,0	1,4	2,0	2,5	2,8	3,2	P / Between L and N on PCB (indoor unit) = 3.0mm
400	0,75	1,6	2,2	3,2	4,0	4,5	5,0	N/A
500	1,0	2,0	2,8	4,0	5,0	5,6	6,3	N/A
>630 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	N/A
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5	N/A
>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0	N/A
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	N/A
>1600 and ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0	N/A
>2000 and ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0	N/A
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0	N/A
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	N/A
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	N/A
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0	N/A
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	N/A
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	N/A
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	N/A

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

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Clause	Requirement + Test	Result - Remark	Verdict
30.1	TABLE: Ball Pressure Test of Thermoplastics		P
Allowed impression diameter (mm)		2.0	—
Object/ Part No./ Material	Manufacturer/ trademark	Test temperature (°C)	Impression diameter (mm)
Indoor unit:			
Front cover / Panel/ Enclosure	See table 24.1	75	<2.0
Terminal Block	See table 24.1	125	<2.0
Transformer	See table 24.1	125	<2.0
Connector	See table 24.1	125	<2.0
Line filter	See table 24.1	125	<2.0
Outdoor unit:			
Fan guard	See table 24.1	75	<2.0
Terminal Block	See table 24.1	125	<2.0
Connector	See table 24.1	125	<2.0
Transformer	See table 24.1	125	<2.0
Relay	See table 24.1	125	<2.0
Line filter	See table 24.1	125	<2.0
Coil body of 4-way	See table 24.1	125	<2.0
Coil body of PMV	See table 24.1	125	<2.0
Thermostat	See table 24.1	125	<2.0
Supplementary information:			

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Clause	Requirement + Test	Result - Remark	Verdict

30.2	TABLE: Resistance to heat and fire - Glow wire tests							P
Object/ Part No./ Material	Manufacturer / trademark	Glow wire test (GWT); (°C)						Verdict
		550	650		750		850	
			te	ti	te	ti		
Front cover / Panel/ Enclosure	See table 24.1	X	--	--	--	--	--	P
Fan guard	See table 24.1	X	--	--	--	--	--	P
Plastic cover compressor	See table 24.1	X	--	--	--	--	--	P
Terminal (Indoor unit)	See table 24.1	--	--	--	0	0	X	P
Terminal (outdoor unit)	See table 24.1	--	--	--	0	0	X	P
Connector (Indoor unit)	See table 24.1	--	--	--	0	0	X	P
Connector (Outdoor unit)	See table 24.1	--	--	--	1	5	X	P
Transformer (Indoor unit)	See table 24.1	--	--	--	0	0	X	P
Transformer (Outdoor unit)	See table 24.1	--	--	--	0	0	X	P
Relay	See table 24.1	--	--	--	1	17	X	P
Coil body of 4-way	See table 24.1	--	--	--	0	0	X	P
Coil body of PMV	See table 24.1	--	--	--	0	0	X	P
Line filter (Indoor unit)	See table 24.1	--	--	--	0	0	X	P
Line filter (Outdoor unit)	See table 24.1	--	--	--	1	5	X	P
Thermostat	See table 24.1	--	--	--	0	0	X	P

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Clause	Requirement + Test	Result - Remark						Verdict
Reactor-01	See table 24.1	--	--	--	1	30	X	P
Object/ Part No./ Material	Manufacturer / trademark	Glow-wire flammability index (GWFI), °C				GW ignition temp. (GWIT), °C		Verdict
		550	650	750	850	675	775	
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
The test specimen passed the glow wire test (GWT) with no ignition $[(t_e - t_i) \leq 2s]$ (Yes/No) :								Yes
If no, then surrounding parts passed the needle-flame test of annex E (Yes/No)..... :								Yes
The test specimen passed the test by virtue of most of the flaming material being withdrawn with the glow-wire (Yes/No)?								N/A
Ignition of the specified layer placed underneath the test specimen (Yes/No)								No
Supplementary information: - 550 °C GWT not relevant (or applicable) to parts of material classified at least HB40 or if relevant HBF - The GWIT pre-selection option, the 850 °C GWFI pre-selection option, and the 850 °C GWT are not relevant (or applicable) for attended appliances								

30.2/30.2.4	TABLE: Needle- flame test (NFT)					N/A
Object/ Part No./ Material	Manufacturer/ trademark	Duration of application of test flame (ta); (s)	Ignition of specified layer Yes/No	Duration of burning (tb) (s)	Verdict	
Supplementary information: - NFT not relevant (or applicable) for Parts of material classified as V-0 or V-1 - NFT not relevant (or applicable) for Base material of PCBs classified as V-0 or if relevant VTM-0						

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Attachment 1 : Photographic documentation



1. RAS-M07U2DVG-E,RAS-M07U2DVG-TR,RAS-M10U2DVG-E,RAS-M10U2DVG-TR,
RAS-M13U2DVG-E,RAS-M13U2DVG-TR,RAS-M16U2DVG-E,RAS-M16U2DVG-TR, front view



2. RAS-M07U2DVG-E,RAS-M07U2DVG-TR,RAS-M10U2DVG-E,RAS-M10U2DVG-TR,
RAS-M13U2DVG-E,RAS-M13U2DVG-TR,RAS-M16U2DVG-E,RAS-M16U2DVG-TR, back view

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Attachment 1 : Photographic documentation



3. RAS-M07U2DVG-E,RAS-M07U2DVG-TR,RAS-M10U2DVG-E,RAS-M10U2DVG-TR,
RAS-M13U2DVG-E,RAS-M13U2DVG-TR,RAS-M16U2DVG-E,RAS-M16U2DVG-TR, top view



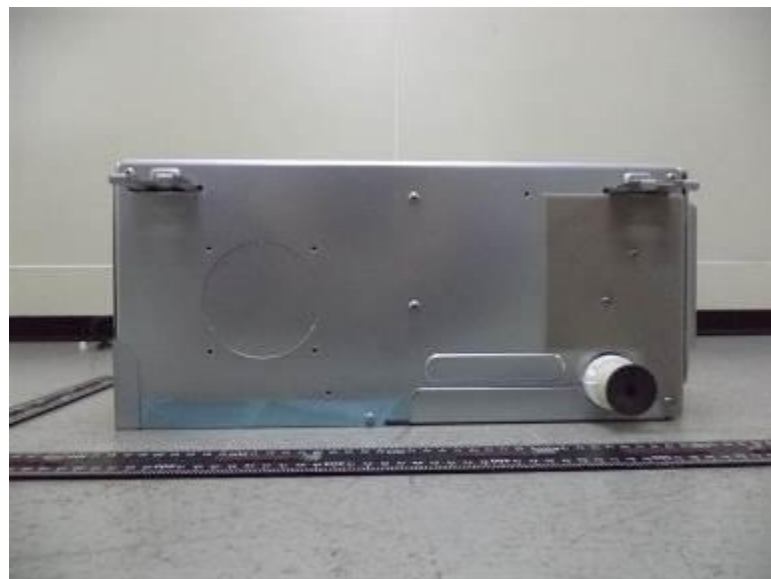
4. RAS-M07U2DVG-E,RAS-M07U2DVG-TR,RAS-M10U2DVG-E,RAS-M10U2DVG-TR,
RAS-M13U2DVG-E,RAS-M13U2DVG-TR,RAS-M16U2DVG-E,RAS-M16U2DVG-TR, bottom view

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Attachment 1 : Photographic documentation



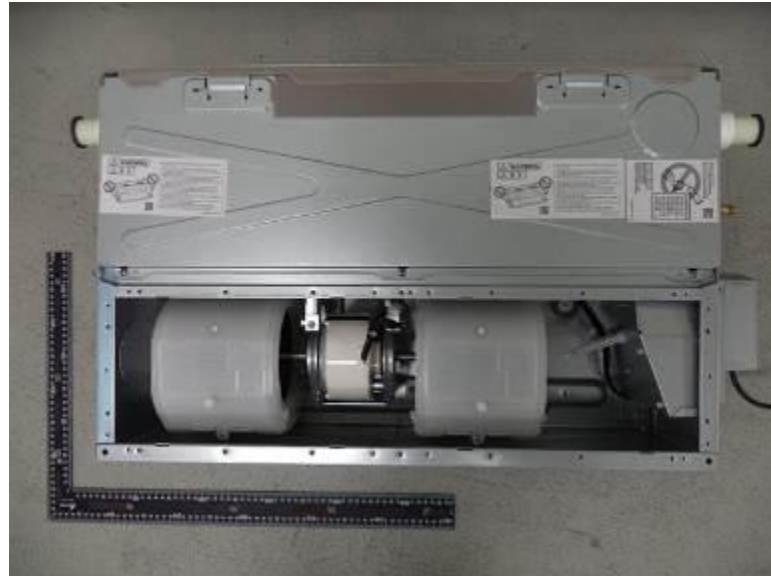
5. RAS-M07U2DVG-E,RAS-M07U2DVG-TR,RAS-M10U2DVG-E,RAS-M10U2DVG-TR,
RAS-M13U2DVG-E,RAS-M13U2DVG-TR,RAS-M16U2DVG-E,RAS-M16U2DVG-TR, Right view



6. RAV-RM301SDT-E, RAV-RM301SDT-TR, RAV-RM401SDT-E, RAV-RM401SDT-TR,
RAV-RM561SDT-E, RAV-RM561SDT-TR, Left view

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Attachment 1 : Photographic documentation



7. RAV-RM301SDT-E, RAV-RM301SDT-TR, RAV-RM401SDT-E, RAV-RM401SDT-TR, RAV-RM561SDT-E, RAV-RM561SDT-TR, internal construction removed cover



8. RAV-RM301SDT-E, RAV-RM301SDT-TR, RAV-RM401SDT-E, RAV-RM401SDT-TR, RAV-RM561SDT-E, RAV-RM561SDT-TR, internal construction removed cover

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Attachment 1 : Photographic documentation



9. RAS-M22U2DVG-E,RAS-M22U2DVG-TR,RAS-M24U2DVG-E,RAS-M24U2DVG-TR, front view



10. RAS-M22U2DVG-E,RAS-M22U2DVG-TR,RAS-M24U2DVG-E,RAS-M24U2DVG-TR, back view

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Attachment 1 : Photographic documentation



11. RAS-M22U2DVG-E,RAS-M22U2DVG-TR,RAS-M24U2DVG-E,RAS-M24U2DVG-TR, top view



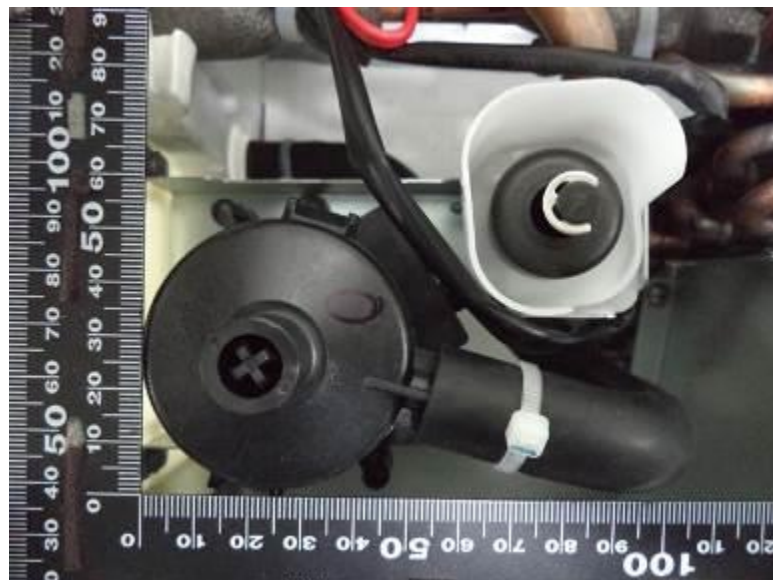
12. RAS-M22U2DVG-E,RAS-M22U2DVG-TR,RAS-M24U2DVG-E,RAS-M24U2DVG-TR, internal view removed cover

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Attachment 1 : Photographic documentation



13. RAS-M07U2DVG-E,RAS-M07U2DVG-TR,RAS-M10U2DVG-E,RAS-M10U2DVG-TR,
 RAS-M13U2DVG-E,RAS-M13U2DVG-TR,RAS-M16U2DVG-E,RAS-M16U2DVG-TR,
 RAS-M22U2DVG-E,RAS-M22U2DVG-TR,RAS-M24U2DVG-E,RAS-M24U2DVG-TR, fan motor



14. RAS-M07U2DVG-E,RAS-M07U2DVG-TR,RAS-M10U2DVG-E,RAS-M10U2DVG-TR,
 RAS-M13U2DVG-E,RAS-M13U2DVG-TR,RAS-M16U2DVG-E,RAS-M16U2DVG-TR,
 RAS-M22U2DVG-E,RAS-M22U2DVG-TR,RAS-M24U2DVG-E,RAS-M24U2DVG-TR, drain pump
 motor and water level sensor

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Attachment 1 : Photographic documentation



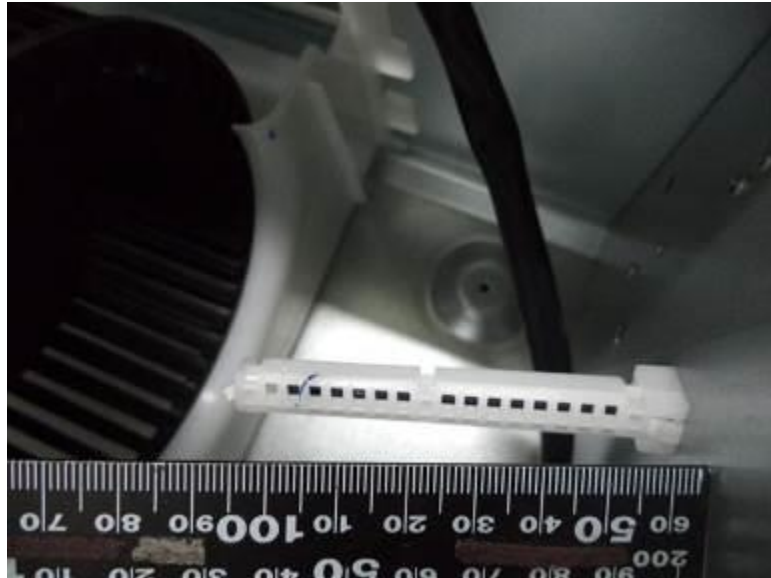
15. RAS-M07U2DVG-E,RAS-M07U2DVG-TR,RAS-M10U2DVG-E,RAS-M10U2DVG-TR,
 RAS-M13U2DVG-E,RAS-M13U2DVG-TR,RAS-M16U2DVG-E,RAS-M16U2DVG-TR,
 RAS-M22U2DVG-E,RAS-M22U2DVG-TR,RAS-M24U2DVG-E,RAS-M24U2DVG-TR, coil sensor



16. RAS-M07U2DVG-E,RAS-M07U2DVG-TR,RAS-M10U2DVG-E,RAS-M10U2DVG-TR,
 RAS-M13U2DVG-E,RAS-M13U2DVG-TR,RAS-M16U2DVG-E,RAS-M16U2DVG-TR,
 RAS-M22U2DVG-E,RAS-M22U2DVG-TR,RAS-M24U2DVG-E,RAS-M24U2DVG-TR, coil sensor

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Attachment 1 : Photographic documentation



17. RAS-M07U2DVG-E,RAS-M07U2DVG-TR,RAS-M10U2DVG-E,RAS-M10U2DVG-TR,
 RAS-M13U2DVG-E,RAS-M13U2DVG-TR,RAS-M16U2DVG-E,RAS-M16U2DVG-TR,
 RAS-M22U2DVG-E,RAS-M22U2DVG-TR,RAS-M24U2DVG-E,RAS-M24U2DVG-TR, room sensor



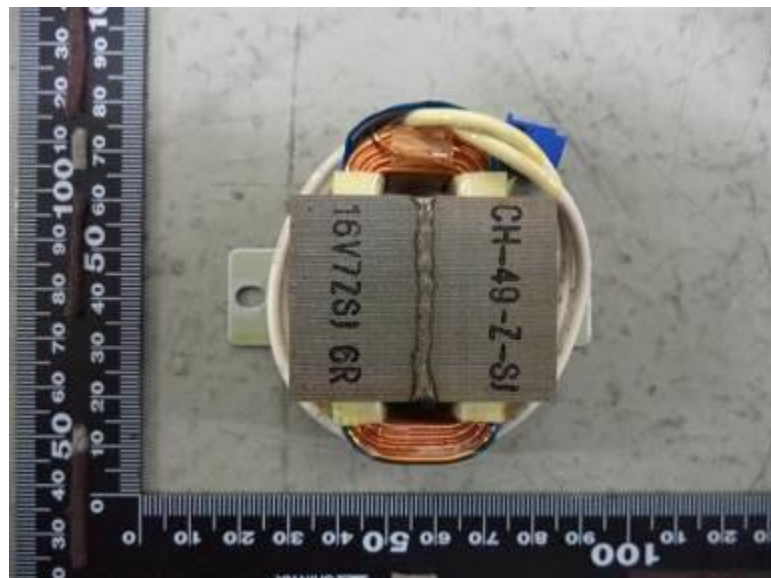
18. RAS-M07U2DVG-E,RAS-M07U2DVG-TR,RAS-M10U2DVG-E,RAS-M10U2DVG-TR,
 RAS-M13U2DVG-E,RAS-M13U2DVG-TR,RAS-M16U2DVG-E,RAS-M16U2DVG-TR,
 RAS-M22U2DVG-E,RAS-M22U2DVG-TR,RAS-M24U2DVG-E,RAS-M24U2DVG-TR, MCC-1643
 component side

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Attachment 1 : Photographic documentation



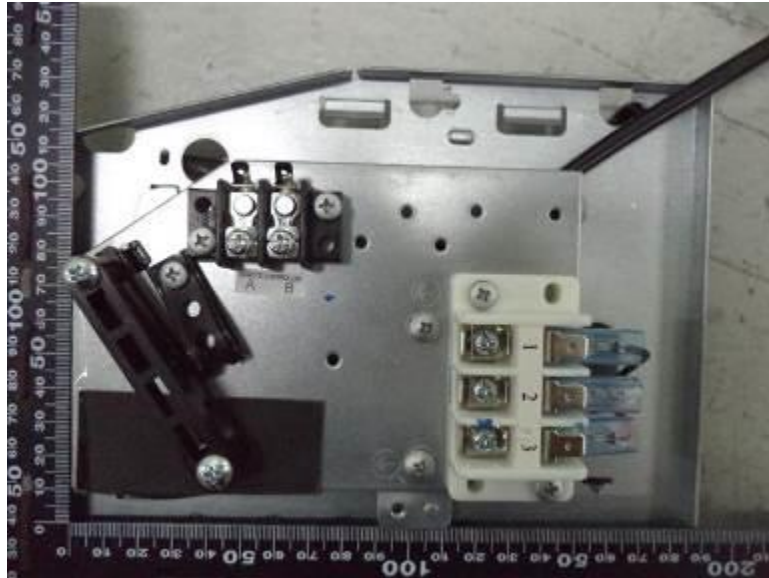
19. RAS-M07U2DVG-E,RAS-M07U2DVG-TR,RAS-M10U2DVG-E,RAS-M10U2DVG-TR,
 RAS-M13U2DVG-E,RAS-M13U2DVG-TR,RAS-M16U2DVG-E,RAS-M16U2DVG-TR,
 RAS-M22U2DVG-E,RAS-M22U2DVG-TR,RAS-M24U2DVG-E,RAS-M24U2DVG-TR, MCC-1643
 trace side



20. RAS-M07U2DVG-E,RAS-M07U2DVG-TR,RAS-M10U2DVG-E,RAS-M10U2DVG-TR,
 RAS-M13U2DVG-E,RAS-M13U2DVG-TR,RAS-M16U2DVG-E,RAS-M16U2DVG-TR,
 21. RAS-M22U2DVG-E,RAS-M22U2DVG-TR,RAS-M24U2DVG-E,RAS-M24U2DVG-TR, Reactor

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Attachment 1 : Photographic documentation



22. RAS-M07U2DVG-E,RAS-M07U2DVG-TR,RAS-M10U2DVG-E,RAS-M10U2DVG-TR, RAS-M13U2DVG-E,RAS-M13U2DVG-TR,RAS-M16U2DVG-E,RAS-M16U2DVG-TR, RAS-M22U2DVG-E,RAS-M22U2DVG-TR,RAS-M24U2DVG-E,RAS-M24U2DVG-TR, terminal for supply connection (1,2,3,earth), terminal for remote connection (A,B), chord anchorage



23. RAS-M07U2DVG-E,RAS-M07U2DVG-TR,RAS-M10U2DVG-E,RAS-M10U2DVG-TR, RAS-M13U2DVG-E,RAS-M13U2DVG-TR,RAS-M16U2DVG-E,RAS-M16U2DVG-TR, RAS-M22U2DVG-E,RAS-M22U2DVG-TR,RAS-M24U2DVG-E,RAS-M24U2DVG-TR, wiring diagram

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Attachment 1 : Photographic documentation



24. RAS-M07U2DVG-E,RAS-M07U2DVG-TR,RAS-M10U2DVG-E,RAS-M10U2DVG-TR,
RAS-M13U2DVG-E,RAS-M13U2DVG-TR,RAS-M16U2DVG-E,RAS-M16U2DVG-TR,
RAS-M22U2DVG-E,RAS-M22U2DVG-TR,RAS-M24U2DVG-E,RAS-M24U2DVG-TR, receiver



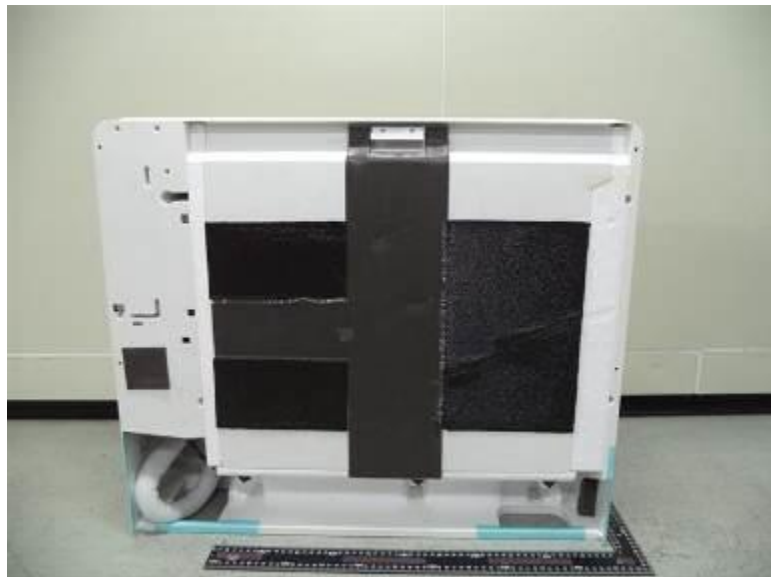
25. RAS-B10U2FVG-E,RAS-B10U2FVG-TR,RAS-B13U2FVG-E,RAS-B13U2FVG-TR,
RAS-B18U2FVG-E,RAS-B18U2FVG-TR, front view

IEC 60335-2-40

Attachment 1 : Photographic documentation



26. RAS-B10U2FVG-E,RAS-B10U2FVG-TR,RAS-B13U2FVG-E,RAS-B13U2FVG-TR,
RAS-B18U2FVG-E,RAS-B18U2FVG-TR, side view



27. RAS-B10U2FVG-E,RAS-B10U2FVG-TR,RAS-B13U2FVG-E,RAS-B13U2FVG-TR,
RAS-B18U2FVG-E,RAS-B18U2FVG-TR, back view

IEC 60335-2-40

Attachment 1 : Photographic documentation



28. RAS-B10U2FVG-E,RAS-B10U2FVG-TR,RAS-B13U2FVG-E,RAS-B13U2FVG-TR,
RAS-B18U2FVG-E,RAS-B18U2FVG-TR, filter



29. RAS-B10U2FVG-E,RAS-B10U2FVG-TR,RAS-B13U2FVG-E,RAS-B13U2FVG-TR,
RAS-B18U2FVG-E,RAS-B18U2FVG-TR, internal construction

IEC 60335-2-40

Attachment 1 : Photographic documentation



30. RAS-B10U2FVG-E,RAS-B10U2FVG-TR,RAS-B13U2FVG-E,RAS-B13U2FVG-TR,
RAS-B18U2FVG-E,RAS-B18U2FVG-TR, internal construction



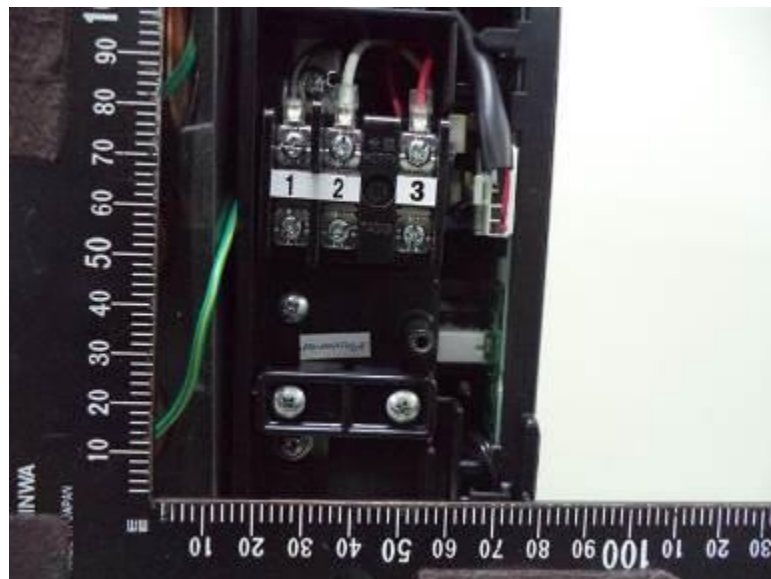
31. RAS-B10U2FVG-E,RAS-B10U2FVG-TR,RAS-B13U2FVG-E,RAS-B13U2FVG-TR,
RAS-B18U2FVG-E,RAS-B18U2FVG-TR, thermistor sensor

IEC 60335-2-40

Attachment 1 : Photographic documentation



32. RAS-B10U2FVG-E,RAS-B10U2FVG-TR,RAS-B13U2FVG-E,RAS-B13U2FVG-TR,
RAS-B18U2FVG-E,RAS-B18U2FVG-TR, display and receiver



33. RAS-B10U2FVG-E,RAS-B10U2FVG-TR,RAS-B13U2FVG-E,RAS-B13U2FVG-TR,
RAS-B18U2FVG-E,RAS-B18U2FVG-TR, interconnection terminal(1,2,3, earth)

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Attachment 1 : Photographic documentation



34. RAS-B10U2FVG-E,RAS-B10U2FVG-TR,RAS-B13U2FVG-E,RAS-B13U2FVG-TR,
RAS-B18U2FVG-E,RAS-B18U2FVG-TR, internal construction



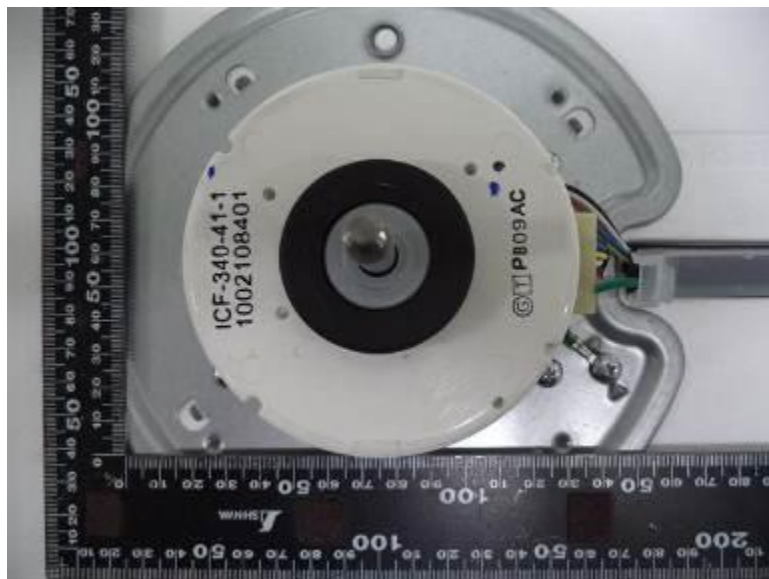
35. RAS-B10U2FVG-E,RAS-B10U2FVG-TR,RAS-B13U2FVG-E,RAS-B13U2FVG-TR,
RAS-B18U2FVG-E,RAS-B18U2FVG-TR, fan blade

IEC 60335-2-40

Attachment 1 : Photographic documentation



36. RAS-B10U2FVG-E,RAS-B10U2FVG-TR,RAS-B13U2FVG-E,RAS-B13U2FVG-TR,
RAS-B18U2FVG-E,RAS-B18U2FVG-TR, fan motor after removed fan blade

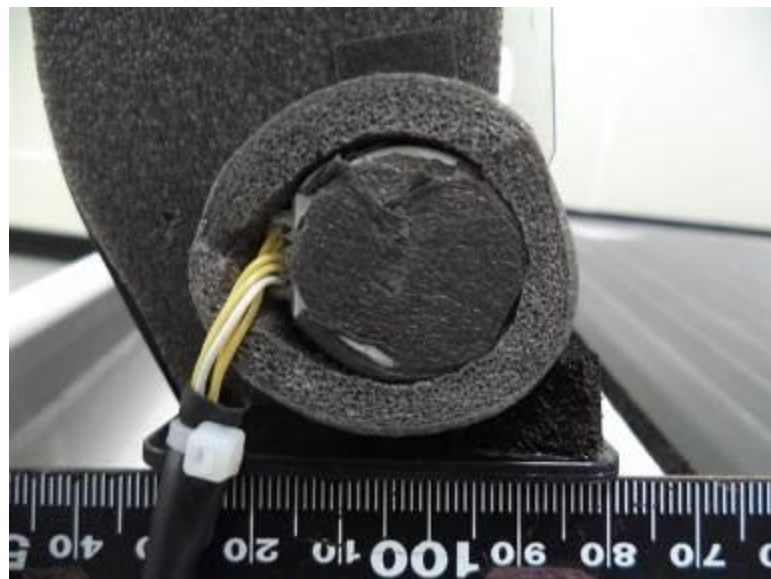


37. RAS-B10U2FVG-E,RAS-B10U2FVG-TR,RAS-B13U2FVG-E,RAS-B13U2FVG-TR,
RAS-B18U2FVG-E,RAS-B18U2FVG-TR, fan motor

IEC 60335-2-40
Attachment 1 : Photographic documentation



38. RAS-B10U2FVG-E,RAS-B10U2FVG-TR,RAS-B13U2FVG-E,RAS-B13U2FVG-TR,
RAS-B18U2FVG-E,RAS-B18U2FVG-TR, lover motor (vertical)



39. RAS-B10U2FVG-E,RAS-B10U2FVG-TR,RAS-B13U2FVG-E,RAS-B13U2FVG-TR,
RAS-B18U2FVG-E,RAS-B18U2FVG-TR, lover motor (horizontal)

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Attachment 1 : Photographic documentation



40. RAS-B10U2FVG-E,RAS-B10U2FVG-TR,RAS-B13U2FVG-E,RAS-B13U2FVG-TR,
RAS-B18U2FVG-E,RAS-B18U2FVG-TR, thermistor



41. RAS-B10U2FVG-E,RAS-B10U2FVG-TR,RAS-B13U2FVG-E,RAS-B13U2FVG-TR,
RAS-B18U2FVG-E,RAS-B18U2FVG-TR, thermistor

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Attachment 1 : Photographic documentation



42. RAS-B10U2FVG-E,RAS-B10U2FVG-TR,RAS-B13U2FVG-E,RAS-B13U2FVG-TR,
RAS-B18U2FVG-E,RAS-B18U2FVG-TR, control unit



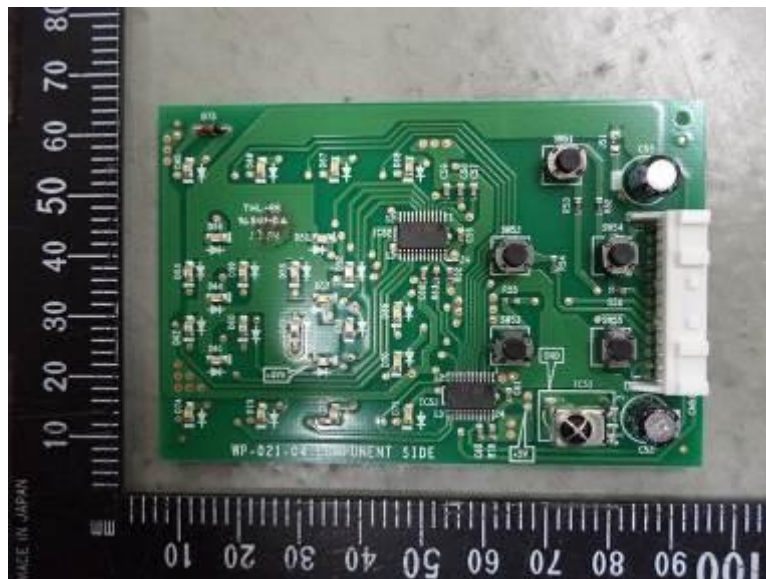
43. RAS-B10U2FVG-E,RAS-B10U2FVG-TR,RAS-B13U2FVG-E,RAS-B13U2FVG-TR,
RAS-B18U2FVG-E,RAS-B18U2FVG-TR, MCC-5068A, component side

IEC 60335-2-40

Attachment 1 : Photographic documentation



44. RAS-B10U2FVG-E,RAS-B10U2FVG-TR,RAS-B13U2FVG-E,RAS-B13U2FVG-TR,
RAS-B18U2FVG-E,RAS-B18U2FVG-TR, MCC-5068A, trace side



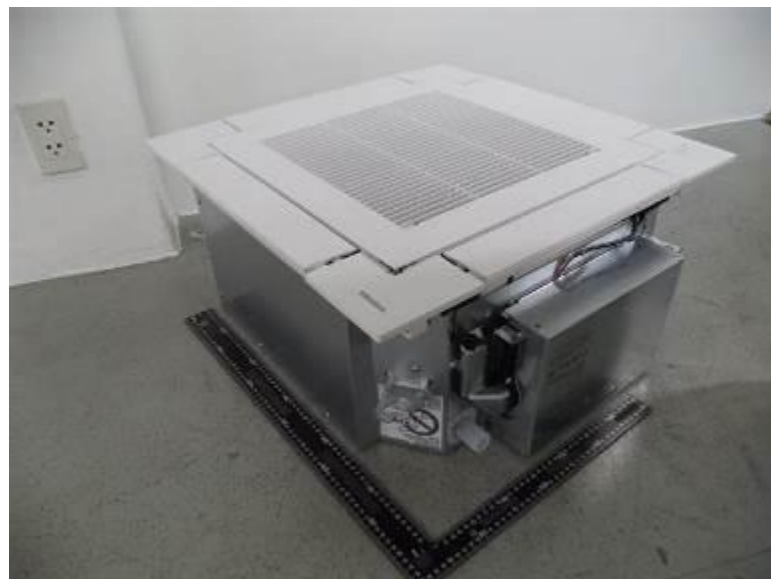
45. RAS-B10U2FVG-E,RAS-B10U2FVG-TR,RAS-B13U2FVG-E,RAS-B13U2FVG-TR,
RAS-B18U2FVG-E,RAS-B18U2FVG-TR, receiver component side

IEC 60335-2-40

Attachment 1 : Photographic documentation



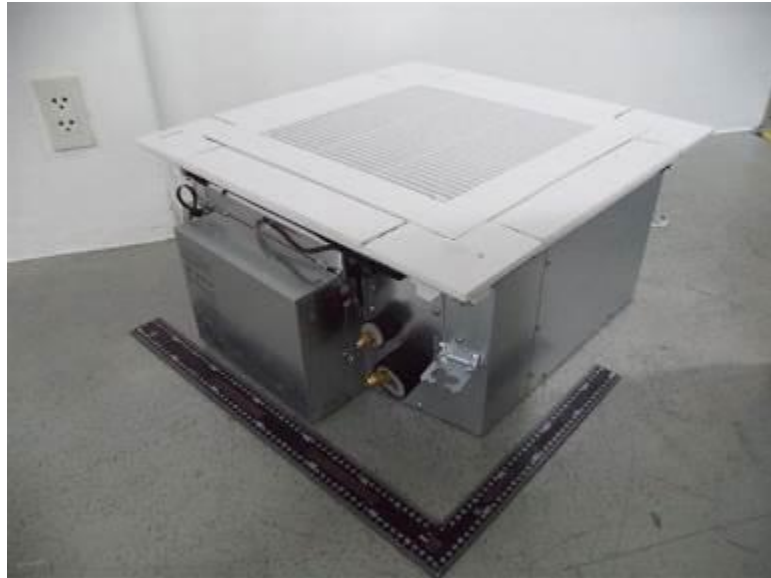
46. RAS-B10U2FVG-E,RAS-B10U2FVG-TR,RAS-B13U2FVG-E,RAS-B13U2FVG-TR,
RAS-B18U2FVG-E,RAS-B18U2FVG-TR, receiver trace side



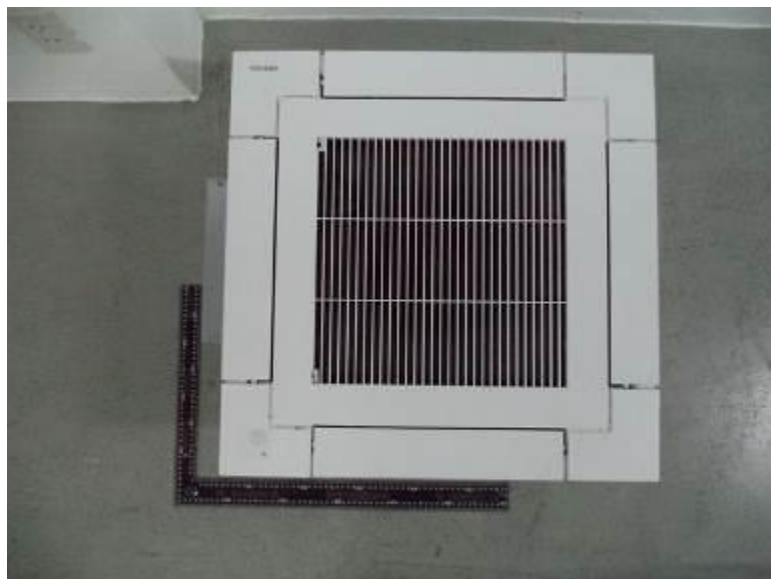
47. RAS-M10U2MUVG-E,RAS-M10U2MUVG-TR,RAS-M13U2MUVG-E,RAS-M13U2MUVG-TR,
RAS-M16U2MUVG-E,RAS-M16U2MUVG-TR, drain pipe connection

IEC 60335-2-40

Attachment 1 : Photographic documentation



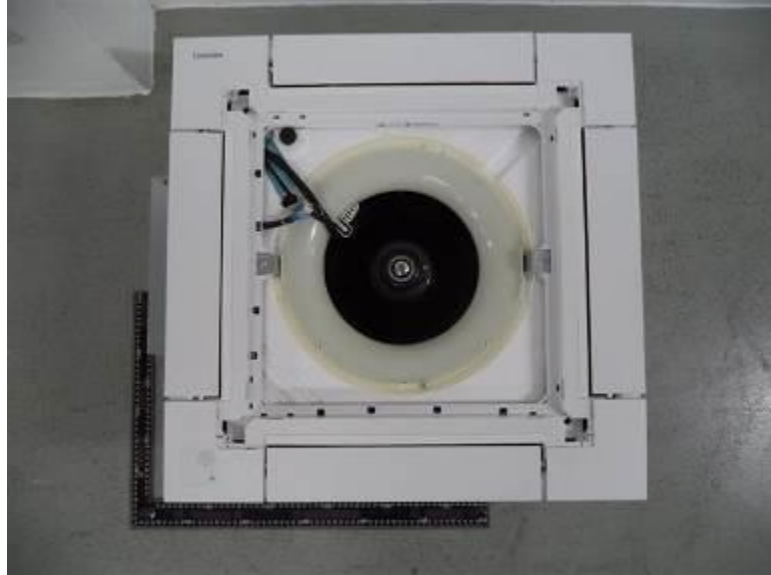
48. RAS-M10U2MUVG-E,RAS-M10U2MUVG-TR,RAS-M13U2MUVG-E,RAS-M13U2MUVG-TR,
RAS-M16U2MUVG-E,RAS-M16U2MUVG-TR, refrigerant connection



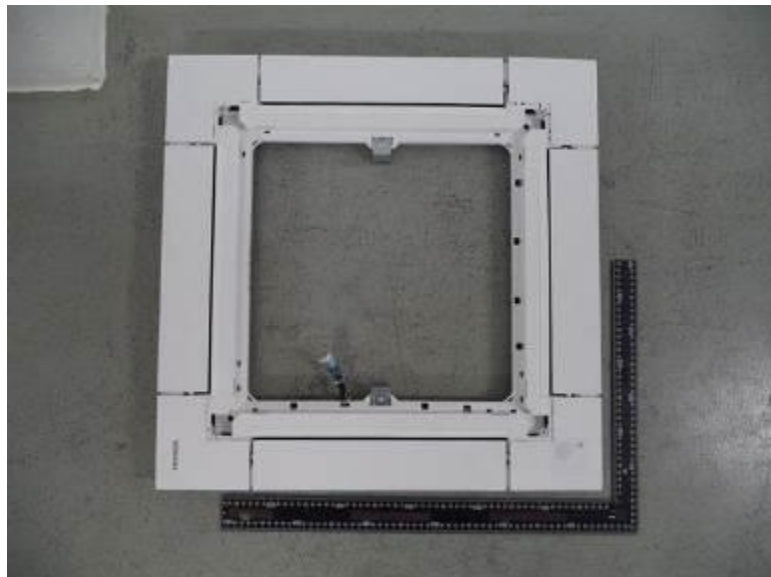
49. RAS-M10U2MUVG-E,RAS-M10U2MUVG-TR,RAS-M13U2MUVG-E,RAS-M13U2MUVG-TR,
RAS-M16U2MUVG-E,RAS-M16U2MUVG-TR, Front view

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Attachment 1 : Photographic documentation



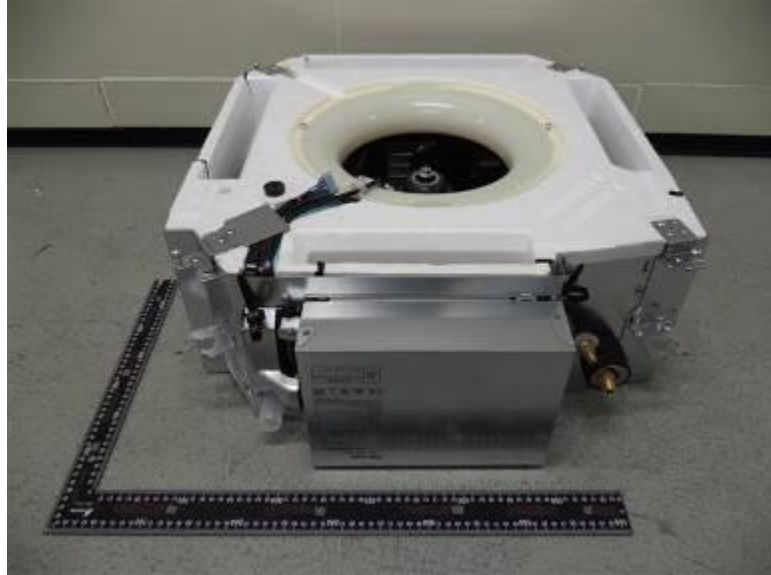
50. RAS-M10U2MUVG-E,RAS-M10U2MUVG-TR,RAS-M13U2MUVG-E,RAS-M13U2MUVG-TR,
RAS-M16U2MUVG-E,RAS-M16U2MUVG-TR, Removed front cover and filter



51. RAS-M10U2MUVG-E,RAS-M10U2MUVG-TR,RAS-M13U2MUVG-E,RAS-M13U2MUVG-TR,
RAS-M16U2MUVG-E,RAS-M16U2MUVG-TR, Ceiling Panel

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Attachment 1 : Photographic documentation



52. RAS-M10U2MUVG-E,RAS-M10U2MUVG-TR,RAS-M13U2MUVG-E,RAS-M13U2MUVG-TR,
RAS-M16U2MUVG-E,RAS-M16U2MUVG-TR, Internal construction



53. RAS-M10U2MUVG-E,RAS-M10U2MUVG-TR,RAS-M13U2MUVG-E,RAS-M13U2MUVG-TR,
RAS-M16U2MUVG-E,RAS-M16U2MUVG-TR, Internal construction

IEC 60335-2-40

Attachment 1 : Photographic documentation



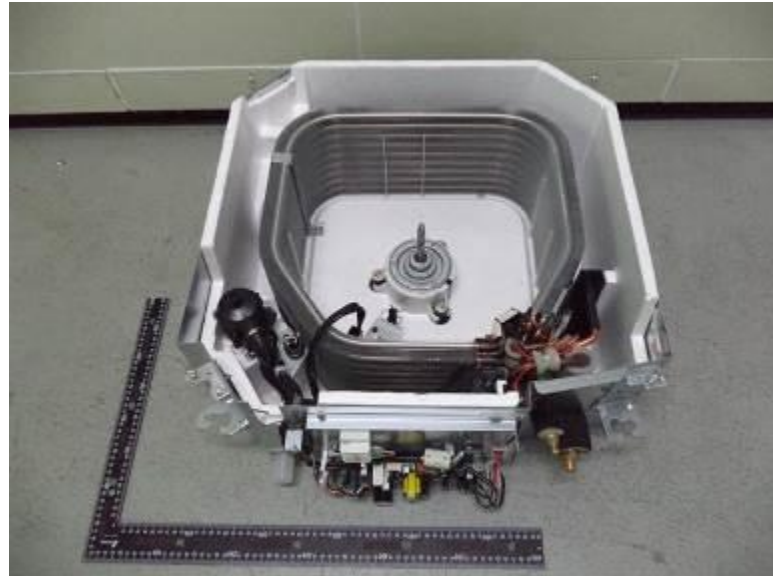
54. RAS-M10U2MUVG-E,RAS-M10U2MUVG-TR,RAS-M13U2MUVG-E,RAS-M13U2MUVG-TR,
RAS-M16U2MUVG-E,RAS-M16U2MUVG-TR, Terminal for wired remote, interconnecting terminal
earth connection and cord anchorage



55. RAS-M10U2MUVG-E,RAS-M10U2MUVG-TR,RAS-M13U2MUVG-E,RAS-M13U2MUVG-TR,
RAS-M16U2MUVG-E,RAS-M16U2MUVG-TR, Internal construction

IEC 60335-2-40

Attachment 1 : Photographic documentation



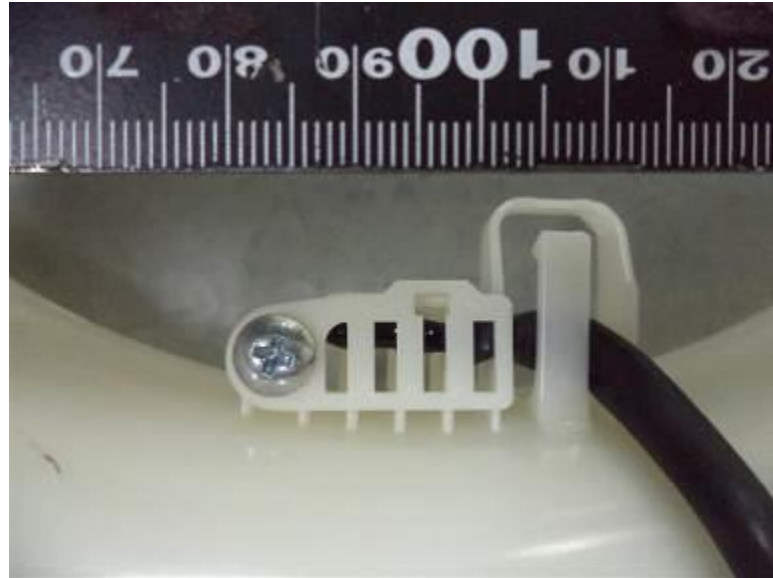
56. RAS-M10U2MUVG-E,RAS-M10U2MUVG-TR,RAS-M13U2MUVG-E,RAS-M13U2MUVG-TR,
RAS-M16U2MUVG-E,RAS-M16U2MUVG-TR, Internal construction



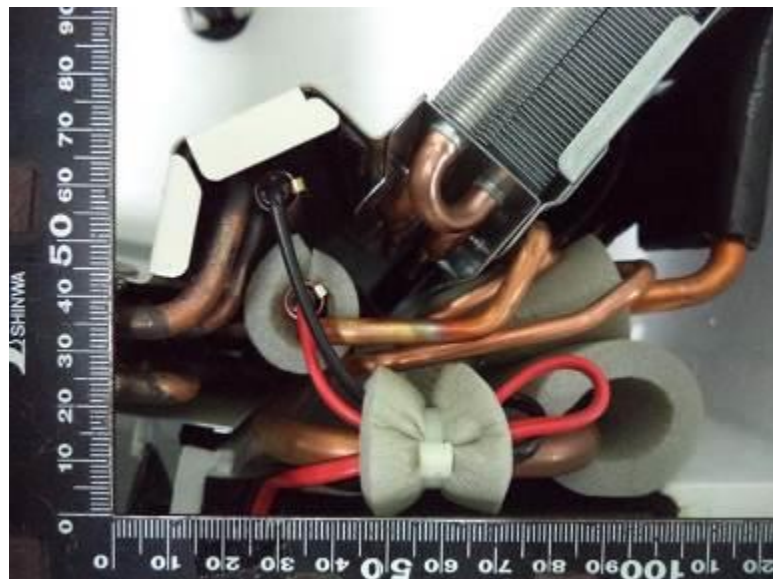
57. RAS-M10U2MUVG-E,RAS-M10U2MUVG-TR,RAS-M13U2MUVG-E,RAS-M13U2MUVG-TR,
RAS-M16U2MUVG-E,RAS-M16U2MUVG-TR, Rear view

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Attachment 1 : Photographic documentation



58. RAS-M10U2MUVG-E,RAS-M10U2MUVG-TR,RAS-M13U2MUVG-E,RAS-M13U2MUVG-TR,
RAS-M16U2MUVG-E,RAS-M16U2MUVG-TR, Thermistor



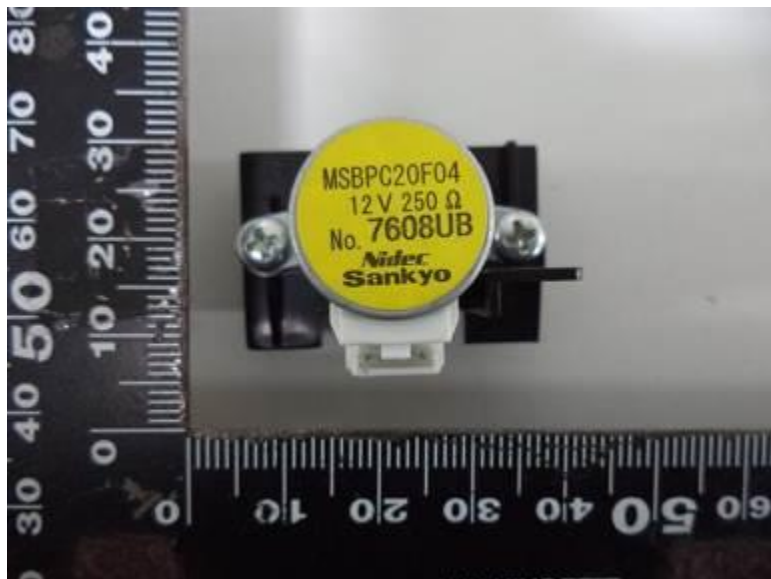
59. RAS-M10U2MUVG-E,RAS-M10U2MUVG-TR,RAS-M13U2MUVG-E,RAS-M13U2MUVG-TR,
RAS-M16U2MUVG-E,RAS-M16U2MUVG-TR, Thermistor

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Attachment 1 : Photographic documentation



60. RAS-M10U2MUVG-E,RAS-M10U2MUVG-TR,RAS-M13U2MUVG-E,RAS-M13U2MUVG-TR,
RAS-M16U2MUVG-E,RAS-M16U2MUVG-TR, Fan motor



61. RAS-M10U2MUVG-E,RAS-M10U2MUVG-TR,RAS-M13U2MUVG-E,RAS-M13U2MUVG-TR,
RAS-M16U2MUVG-E,RAS-M16U2MUVG-TR, Louver motor

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Attachment 1 : Photographic documentation



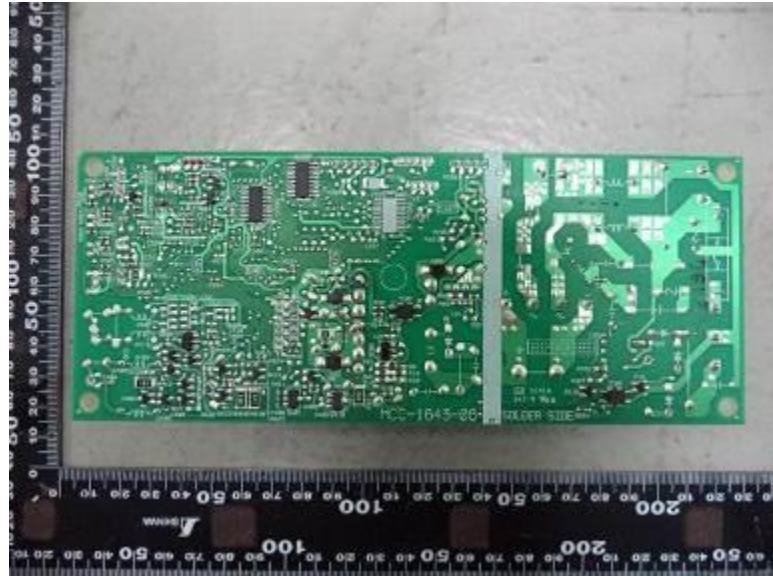
62. RAS-M10U2MUVG-E,RAS-M10U2MUVG-TR,RAS-M13U2MUVG-E,RAS-M13U2MUVG-TR,
RAS-M16U2MUVG-E,RAS-M16U2MUVG-TR, Drain pump motor



63. RAS-M10U2MUVG-E,RAS-M10U2MUVG-TR,RAS-M13U2MUVG-E,RAS-M13U2MUVG-TR,
RAS-M16U2MUVG-E,RAS-M16U2MUVG-TR, MCC-1643 component side

IEC 60335-2-40

Attachment 1 : Photographic documentation



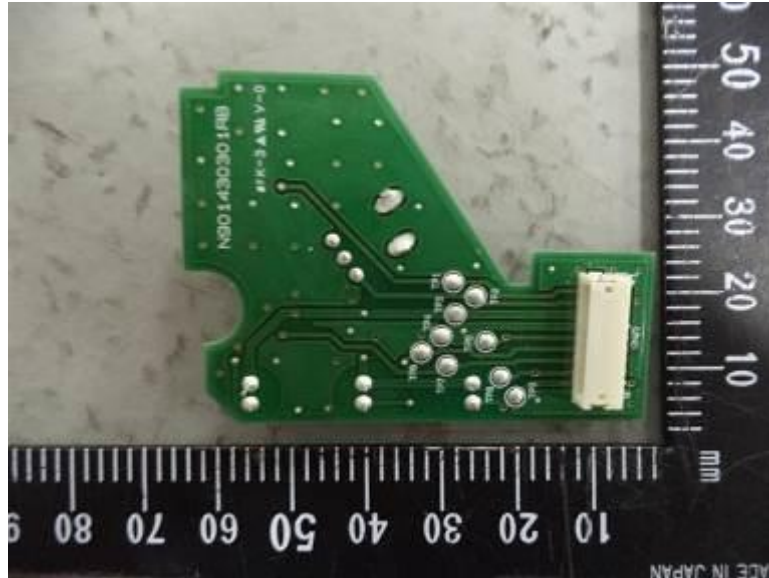
64. RAS-M10U2MUVG-E,RAS-M10U2MUVG-TR,RAS-M13U2MUVG-E,RAS-M13U2MUVG-TR,
RAS-M16U2MUVG-E,RAS-M16U2MUVG-TR, MCC-1643 soldering side



65. RAS-M10U2MUVG-E,RAS-M10U2MUVG-TR,RAS-M13U2MUVG-E,RAS-M13U2MUVG-TR,
RAS-M16U2MUVG-E,RAS-M16U2MUVG-TR, receiver component side

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Attachment 1 : Photographic documentation



66. RAS-M10U2MUVG-E,RAS-M10U2MUVG-TR,RAS-M13U2MUVG-E,RAS-M13U2MUVG-TR,
RAS-M16U2MUVG-E,RAS-M16U2MUVG-TR, receiver trace side



67. RAS-M10U2MUVG-E,RAS-M10U2MUVG-TR,RAS-M13U2MUVG-E,RAS-M13U2MUVG-TR,
RAS-M16U2MUVG-E,RAS-M16U2MUVG-TR Wiring diagram

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Attachment 1 : Photographic documentation



68. RAS-B22PKVSG-E,RAS-B22PKVSG-TR,RAS-B24PKVSG-E,RAS-B24PKVSG-TR, ISO Front view



69. RAS-B22PKVSG-E,RAS-B22PKVSG-TR,RAS-B24PKVSG-E,RAS-B24PKVSG-TR, ISO Top view

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Attachment 1 : Photographic documentation



70. RAS-B22PKVSG-E,RAS-B22PKVSG-TR,RAS-B24PKVSG-E,RAS-B24PKVSG-TR, Front view



71. RAS-B22PKVSG-E,RAS-B22PKVSG-TR,RAS-B24PKVSG-E,RAS-B24PKVSG-TR, Rear view

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Attachment 1 : Photographic documentation



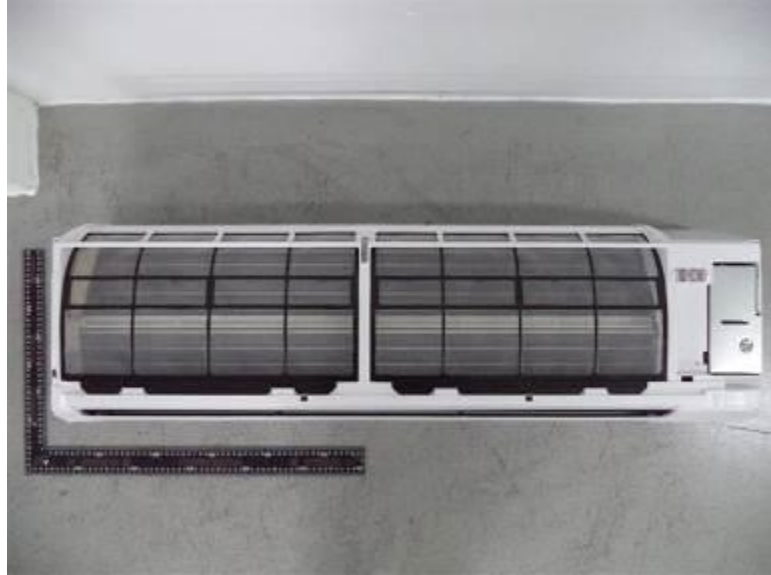
72. RAS-B22PKVSG-E,RAS-B22PKVSG-TR,RAS-B24PKVSG-E,RAS-B24PKVSG-TR, Rear view removed mounting plate



73. RAS-B22PKVSG-E,RAS-B22PKVSG-TR,RAS-B24PKVSG-E,RAS-B24PKVSG-TR, Filter

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Attachment 1 : Photographic documentation



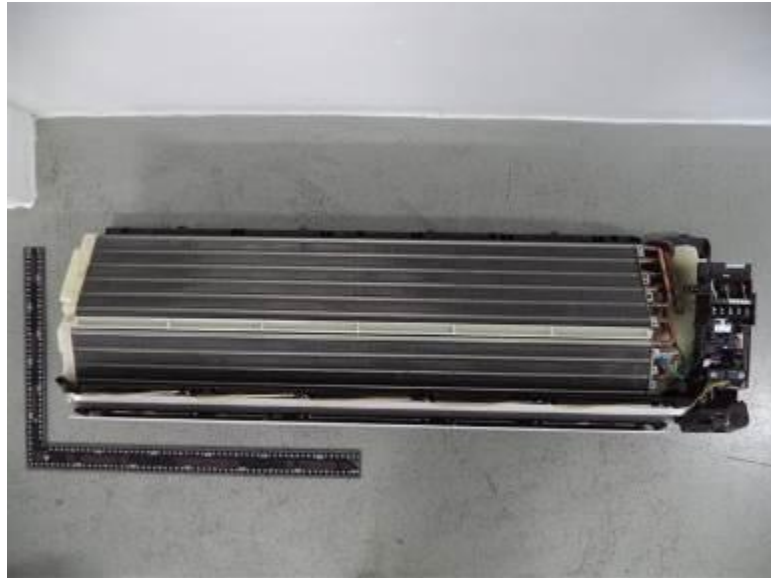
74. RAS-B22PKVSG-E,RAS-B22PKVSG-TR,RAS-B24PKVSG-E,RAS-B24PKVSG-TR, Front view removed front cover and filter



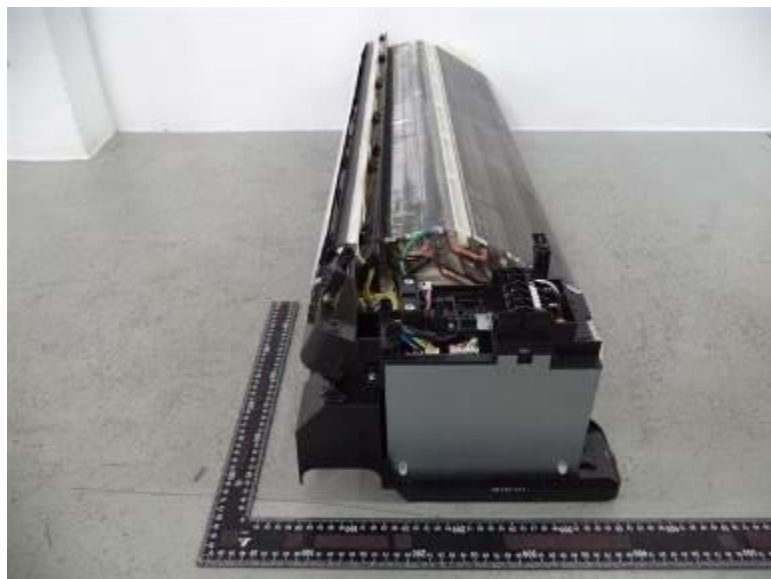
75. RAS-B22PKVSG-E,RAS-B22PKVSG-TR,RAS-B24PKVSG-E,RAS-B24PKVSG-TR, Terminal supply, interconnecting terminal and cord anchorage

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Attachment 1 : Photographic documentation



76. RAS-B22PKVSG-E,RAS-B22PKVSG-TR,RAS-B24PKVSG-E,RAS-B24PKVSG-TR, Internal construction



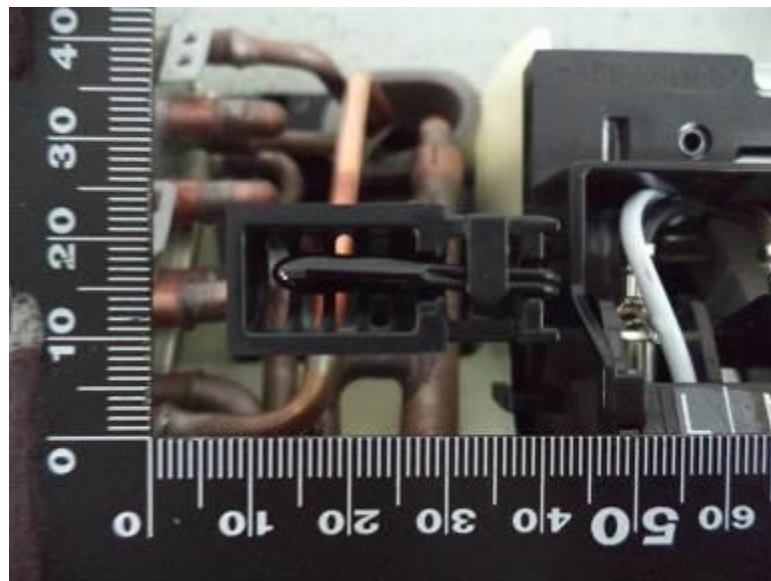
77. RAS-B22PKVSG-E,RAS-B22PKVSG-TR,RAS-B24PKVSG-E,RAS-B24PKVSG-TR, Internal right view

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Attachment 1 : Photographic documentation



78. RAS-B22PKVSG-E,RAS-B22PKVSG-TR,RAS-B24PKVSG-E,RAS-B24PKVSG-TR, Internal left view



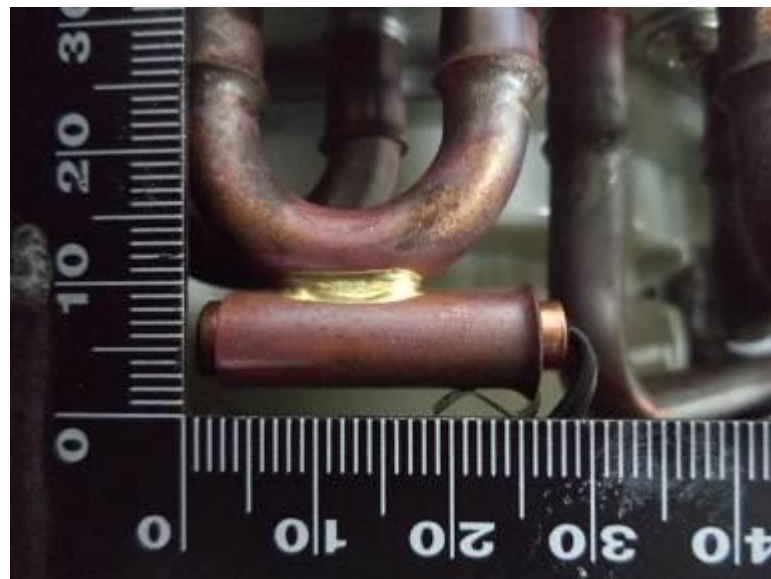
79. RAS-B22PKVSG-E,RAS-B22PKVSG-TR,RAS-B24PKVSG-E,RAS-B24PKVSG-TR, Thermistor

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Attachment 1 : Photographic documentation



80. RAS-B22PKVSG-E,RAS-B22PKVSG-TR,RAS-B24PKVSG-E,RAS-B24PKVSG-TR, receiver and display



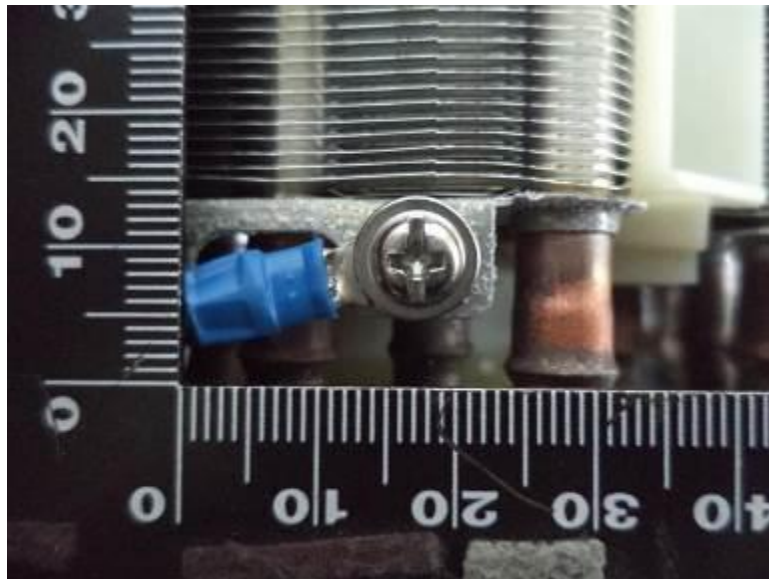
81. RAS-B22PKVSG-E,RAS-B22PKVSG-TR,RAS-B24PKVSG-E,RAS-B24PKVSG-TR, Thermistor

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Attachment 1 : Photographic documentation



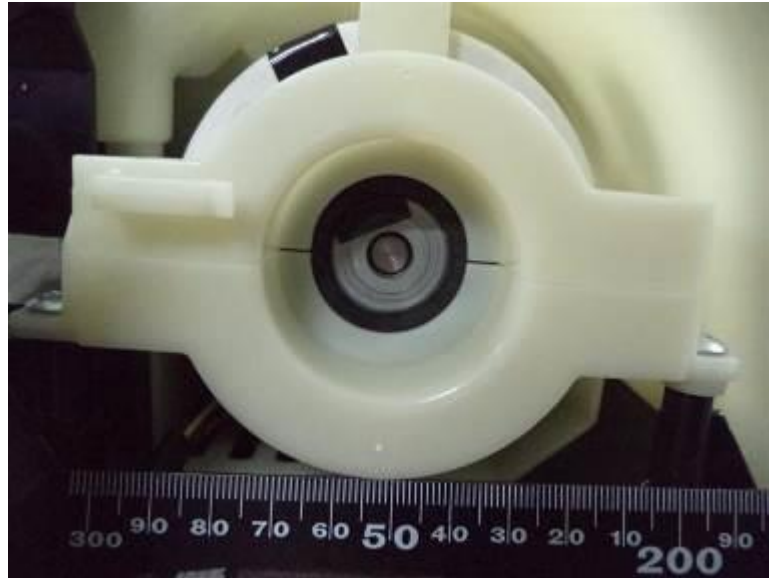
82. RAS-B22PKVSG-E,RAS-B22PKVSG-TR,RAS-B24PKVSG-E,RAS-B24PKVSG-TR, Thermistor



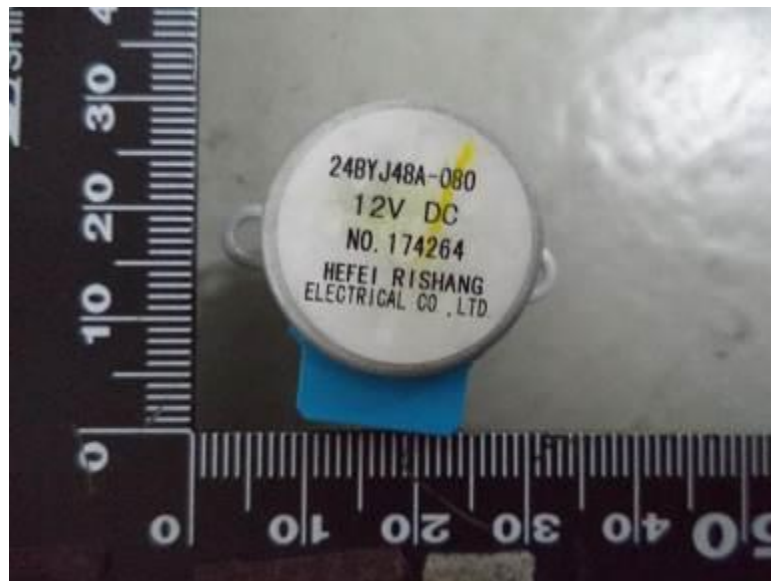
83. RAS-B22PKVSG-E,RAS-B22PKVSG-TR,RAS-B24PKVSG-E,RAS-B24PKVSG-TR, Earth connection

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Attachment 1 : Photographic documentation



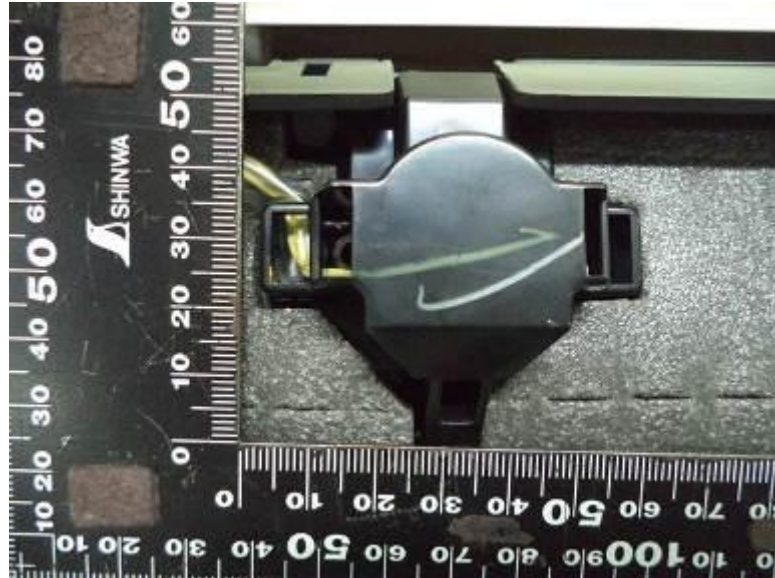
84. RAS-B22PKVSG-E,RAS-B22PKVSG-TR,RAS-B24PKVSG-E,RAS-B24PKVSG-TR, Indoor fan motor



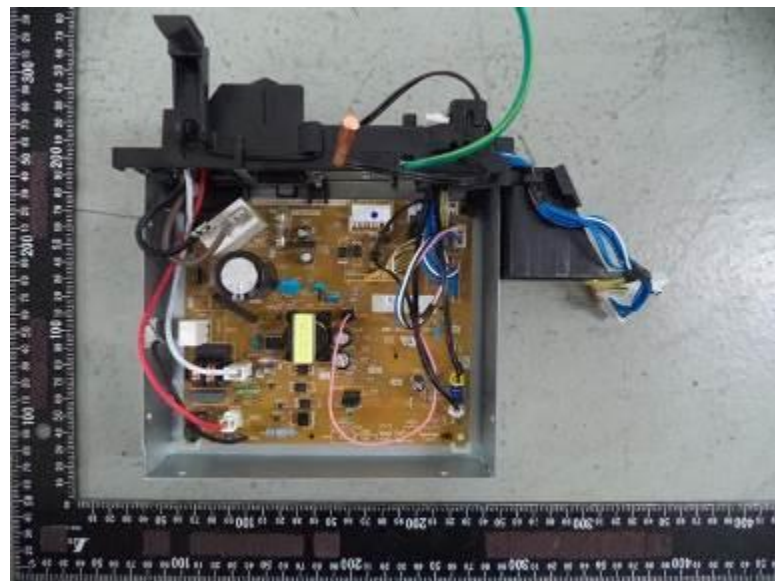
85. RAS-B22PKVSG-E,RAS-B22PKVSG-TR,RAS-B24PKVSG-E,RAS-B24PKVSG-TR, Louver motor (Vertical)

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Attachment 1 : Photographic documentation



86. RAS-B22PKVSG-E,RAS-B22PKVSG-TR,RAS-B24PKVSG-E,RAS-B24PKVSG-TR, Louver motor(Horizontal)



87. RAS-B22PKVSG-E,RAS-B22PKVSG-TR,RAS-B24PKVSG-E,RAS-B24PKVSG-TR, Electrical control

IEC 60335-2-40

Attachment 1 : Photographic documentation



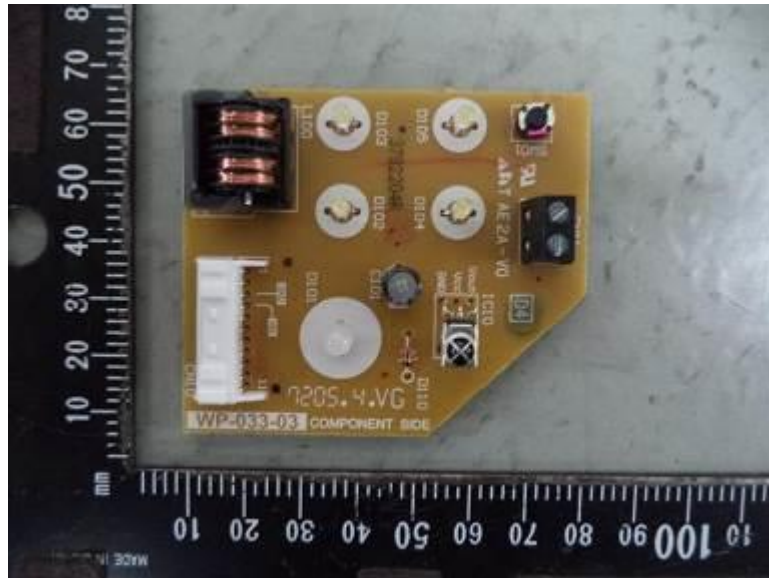
88. RAS-B22PKVSG-E,RAS-B22PKVSG-TR,RAS-B24PKVSG-E,RAS-B24PKVSG-TR, Main PCB component side



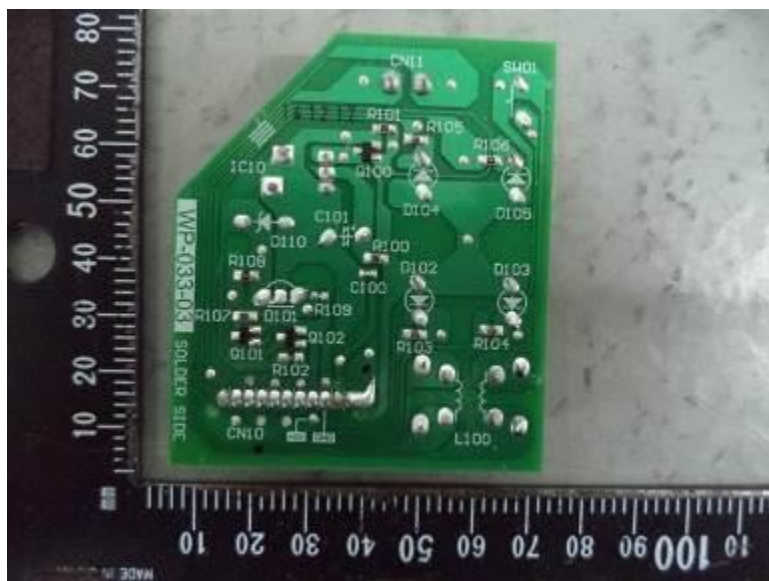
89. RAS-B22PKVSG-E,RAS-B22PKVSG-TR,RAS-B24PKVSG-E,RAS-B24PKVSG-TR, Main PCB soldering side

IEC 60335-2-40

Attachment 1 : Photographic documentation



90. RAS-B22PKVSG-E,RAS-B22PKVSG-TR,RAS-B24PKVSG-E,RAS-B24PKVSG-TR, Receiver board component side



91. RAS-B22PKVSG-E,RAS-B22PKVSG-TR,RAS-B24PKVSG-E,RAS-B24PKVSG-TR, Receiver board solder side

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Attachment 1 : Photographic documentation



92. Wireless remote control for all models

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Attachment 1 : Photographic documentation



93. RAS-3M26U2AVG-E, RAS-3M26U2AVG-TR, RAS-4M27U2AVG-E, RAS-4M27U2AVG-TR,
RAS-5M34U2AVG-E, RAS-5M34U2AVG-TR,
ISO view



94. RAS-3M26U2AVG-E, RAS-3M26U2AVG-TR, RAS-4M27U2AVG-E, RAS-4M27U2AVG-TR,
RAS-5M34U2AVG-E, RAS-5M34U2AVG-TR, ISO view

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Attachment 1 : Photographic documentation



95. RAS-3M26U2AVG-E, RAS-3M26U2AVG-TR, RAS-4M27U2AVG-E, RAS-4M27U2AVG-TR, RAS-5M34U2AVG-E, RAS-5M34U2AVG-TR, Front view



96. RAS-3M26U2AVG-E, RAS-3M26U2AVG-TR, RAS-4M27U2AVG-E, RAS-4M27U2AVG-TR, Rear view

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Attachment 1 : Photographic documentation



97. RAS-5M34U2AVG-E, RAS-5M34U2AVG-TR, Rear view



98. RAS-3M26U2AVG-E, RAS-3M26U2AVG-TR, RAS-4M27U2AVG-E, RAS-4M27U2AVG-TR, RAS-5M34U2AVG-E, RAS-5M34U2AVG-TR, Right side view

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Attachment 1 : Photographic documentation



99. RAS-3M26U2AVG-E, RAS-3M26U2AVG-TR, RAS-4M27U2AVG-E, RAS-4M27U2AVG-TR, RAS-5M34U2AVG-E, RAS-5M34U2AVG-TR, Left side view



100. RAS-3M26U2AVG-E, RAS-3M26U2AVG-TR, RAS-4M27U2AVG-E, RAS-4M27U2AVG-TR, RAS-5M34U2AVG-E, RAS-5M34U2AVG-TR, Top view removed top cover

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Attachment 1 : Photographic documentation



101. RAS-3M26U2AVG-E, RAS-3M26U2AVG-TR, RAS-4M27U2AVG-E, RAS-4M27U2AVG-TR, Internal construction



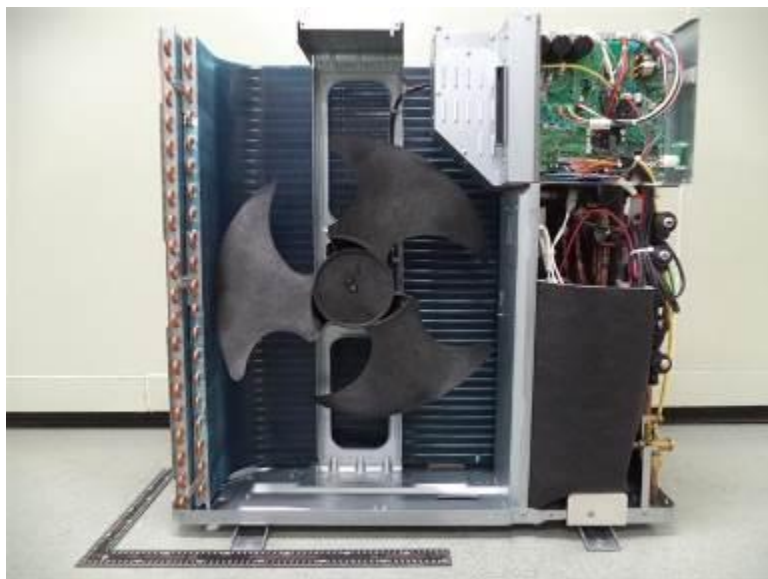
102. RAS-5M34U2AVG-E, RAS-5M34U2AVG-TR, Internal construction

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103. RAS-3M26U2AVG-E, RAS-3M26U2AVG-TR, RAS-4M27U2AVG-E, RAS-4M27U2AVG-TR, Internal view removed front cover



104. RAS-5M34U2AVG-E, RAS-5M34U2AVG-TR, Internal view removed front cover

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105. RAS-3M26U2AVG-E, RAS-3M26U2AVG-TR, RAS-4M27U2AVG-E, RAS-4M27U2AVG-TR, Internal view removed fan blade



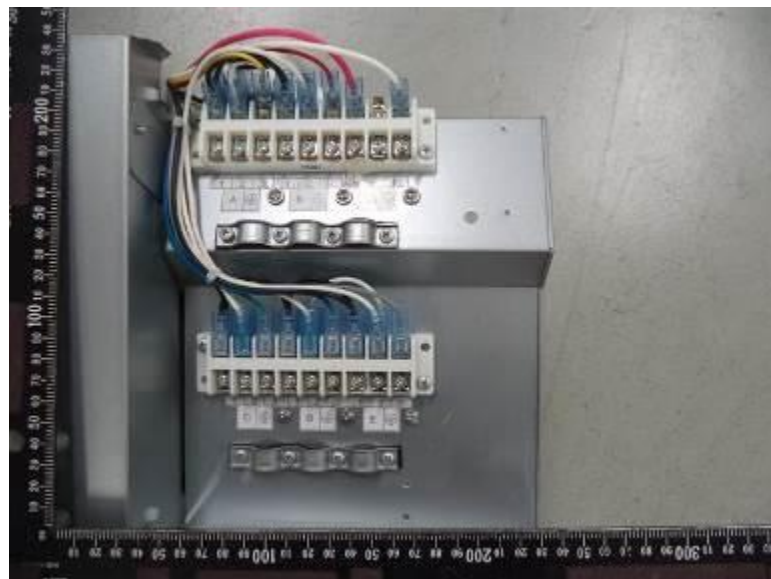
106. RAS-5M34U2AVG-E, RAS-5M34U2AVG-TR, Internal view removed fan blade

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Attachment 1 : Photographic documentation



107. RAS-3M26U2AVG-E, RAS-3M26U2AVG-TR, RAS-4M27U2AVG-E, RAS-4M27U2AVG-TR, Main supply terminal and Terminal block for interconnecting cable, and cord anchorage



108. RAS-5M34U2AVG-E, RAS-5M34U2AVG-TR, Main supply terminal and Terminal block for interconnecting cable, and cord anchorage

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109. RAS-3M26U2AVG-E, RAS-3M26U2AVG-TR, RAS-4M27U2AVG-E, RAS-4M27U2AVG-TR, Refrigerant connection



110. RAS-5M34U2AVG-E, RAS-5M34U2AVG-TR, Refrigerant connection

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111. RAS-3M26U2AVG-E, RAS-3M26U2AVG-TR, RAS-4M27U2AVG-E, RAS-4M27U2AVG-TR, Motor compressor



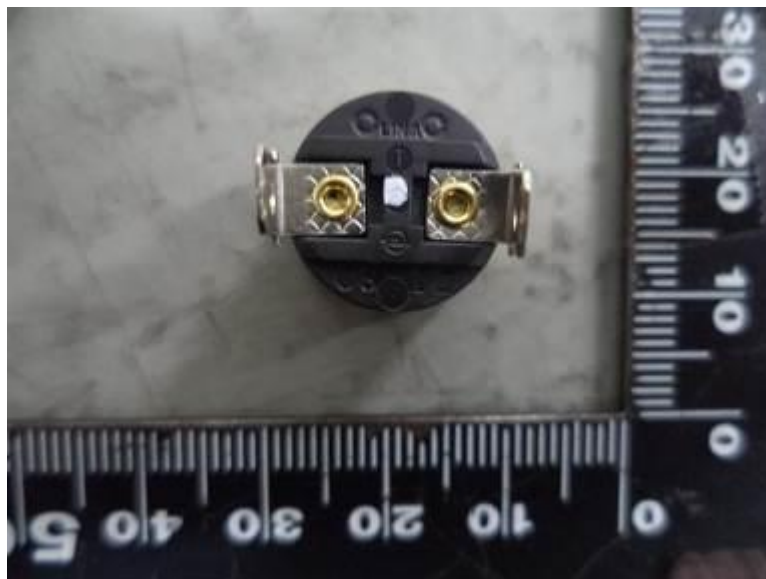
112. RAS-5M34U2AVG-E, RAS-5M34U2AVG-TR, Motor compressor

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113. RAS-3M26U2AVG-E, RAS-3M26U2AVG-TR, RAS-4M27U2AVG-E, RAS-4M27U2AVG-TR, RAS-5M34U2AVG-E, RAS-5M34U2AVG-TR, Terminal of motor compressor and Thermostat



114. RAS-3M26U2AVG-E, RAS-3M26U2AVG-TR, RAS-4M27U2AVG-E, RAS-4M27U2AVG-TR, RAS-5M34U2AVG-E, RAS-5M34U2AVG-TR, Thermostat

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115. RAS-3M26U2AVG-E, RAS-3M26U2AVG-TR, RAS-4M27U2AVG-E, RAS-4M27U2AVG-TR, RAS-5M34U2AVG-E, RAS-5M34U2AVG-TR, Fan motor



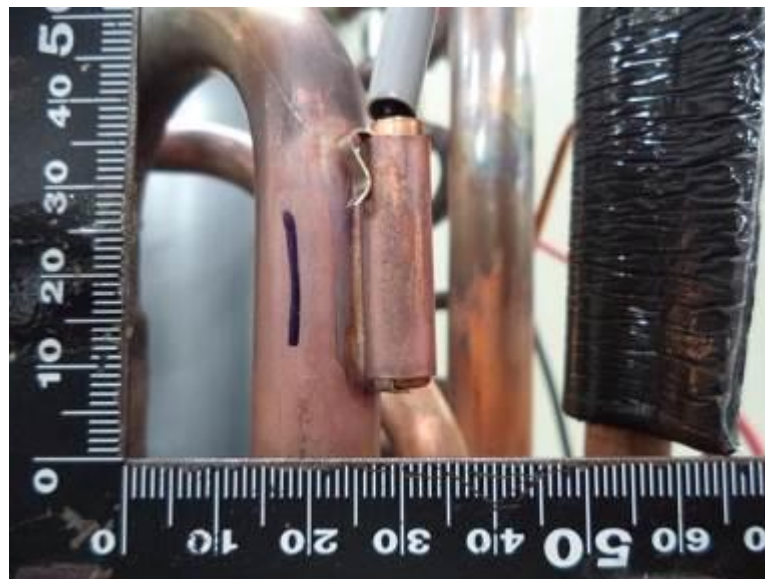
116. RAS-3M26U2AVG-E, RAS-3M26U2AVG-TR, RAS-4M27U2AVG-E, RAS-4M27U2AVG-TR, RAS-5M34U2AVG-E, RAS-5M34U2AVG-TR, Thermistor

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Attachment 1 : Photographic documentation



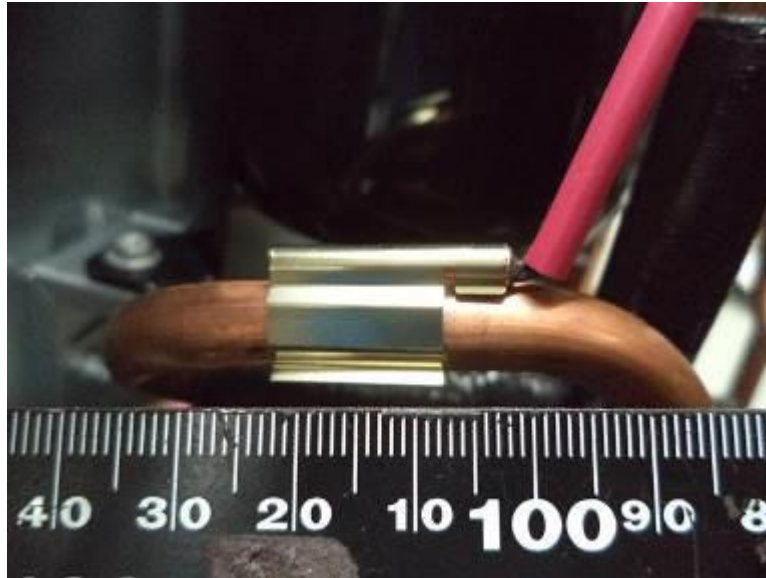
117. RAS-3M26U2AVG-E, RAS-3M26U2AVG-TR, RAS-4M27U2AVG-E, RAS-4M27U2AVG-TR, RAS-5M34U2AVG-E, RAS-5M34U2AVG-TR, Thermistor



118. RAS-3M26U2AVG-E, RAS-3M26U2AVG-TR, RAS-4M27U2AVG-E, RAS-4M27U2AVG-TR, RAS-5M34U2AVG-E, RAS-5M34U2AVG-TR, Thermistor

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Attachment 1 : Photographic documentation



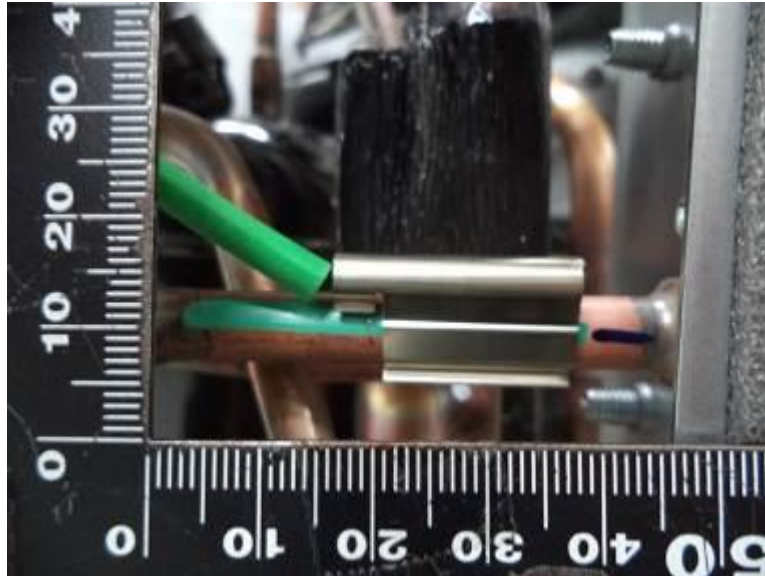
119. RAS-3M26U2AVG-E, RAS-3M26U2AVG-TR, RAS-4M27U2AVG-E, RAS-4M27U2AVG-TR, RAS-5M34U2AVG-E, RAS-5M34U2AVG-TR, Thermistor



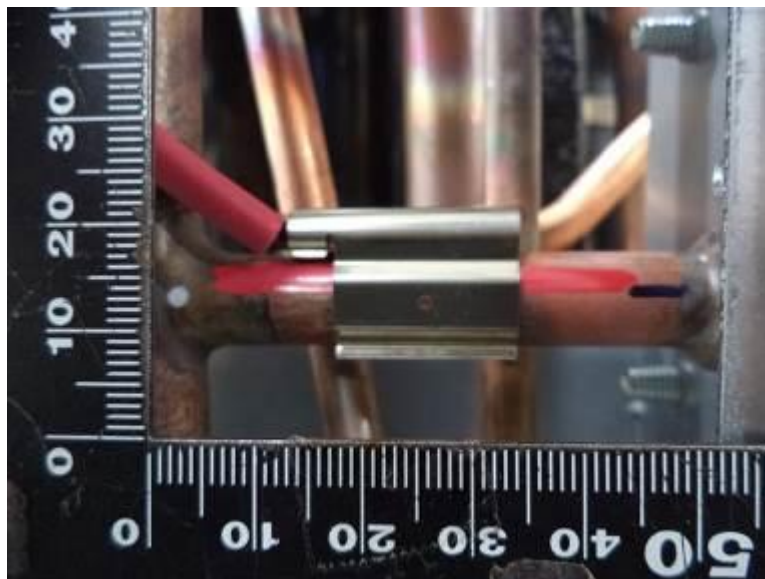
120. RAS-3M26U2AVG-E, RAS-3M26U2AVG-TR, RAS-4M27U2AVG-E, RAS-4M27U2AVG-TR, RAS-5M34U2AVG-E, RAS-5M34U2AVG-TR, Thermistor

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Attachment 1 : Photographic documentation



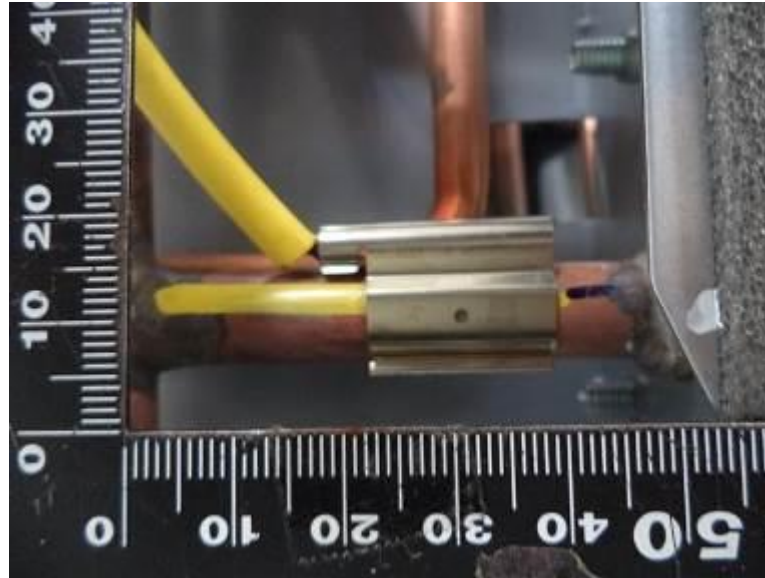
121. RAS-3M26U2AVG-E, RAS-3M26U2AVG-TR, RAS-4M27U2AVG-E, RAS-4M27U2AVG-TR, RAS-5M34U2AVG-E, RAS-5M34U2AVG-TR, Thermistor



122. RAS-3M26U2AVG-E, RAS-3M26U2AVG-TR, RAS-4M27U2AVG-E, RAS-4M27U2AVG-TR, RAS-5M34U2AVG-E, RAS-5M34U2AVG-TR, Thermistor

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Attachment 1 : Photographic documentation



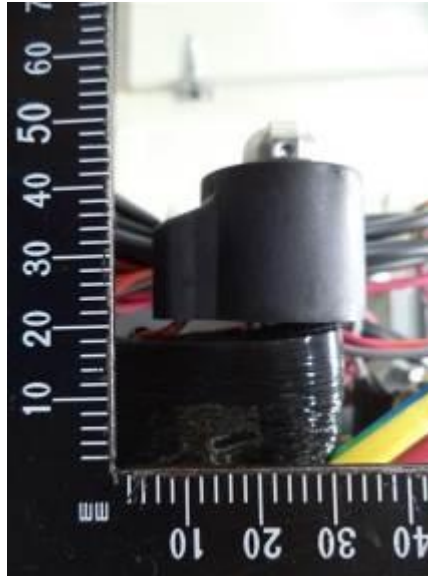
123. RAS-3M26U2AVG-E, RAS-3M26U2AVG-TR, RAS-4M27U2AVG-E, RAS-4M27U2AVG-TR, RAS-5M34U2AVG-E, RAS-5M34U2AVG-TR, Thermistor



124. RAS-3M26U2AVG-E, RAS-3M26U2AVG-TR, RAS-4M27U2AVG-E, RAS-4M27U2AVG-TR, RAS-5M34U2AVG-E, RAS-5M34U2AVG-TR, 4-Way Valve Coil

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125. RAS-3M26U2AVG-E, RAS-3M26U2AVG-TR, RAS-4M27U2AVG-E, RAS-4M27U2AVG-TR, RAS-5M34U2AVG-E, RAS-5M34U2AVG-TR, PMV Coil



126. RAS-3M26U2AVG-E, RAS-3M26U2AVG-TR, RAS-4M27U2AVG-E, RAS-4M27U2AVG-TR, RAS-5M34U2AVG-E, RAS-5M34U2AVG-TR, Pressure Switch

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127. RAS-3M26U2AVG-E, RAS-3M26U2AVG-TR, RAS-4M27U2AVG-E, RAS-4M27U2AVG-TR, RAS-5M34U2AVG-E, RAS-5M34U2AVG-TR, Reactor-02



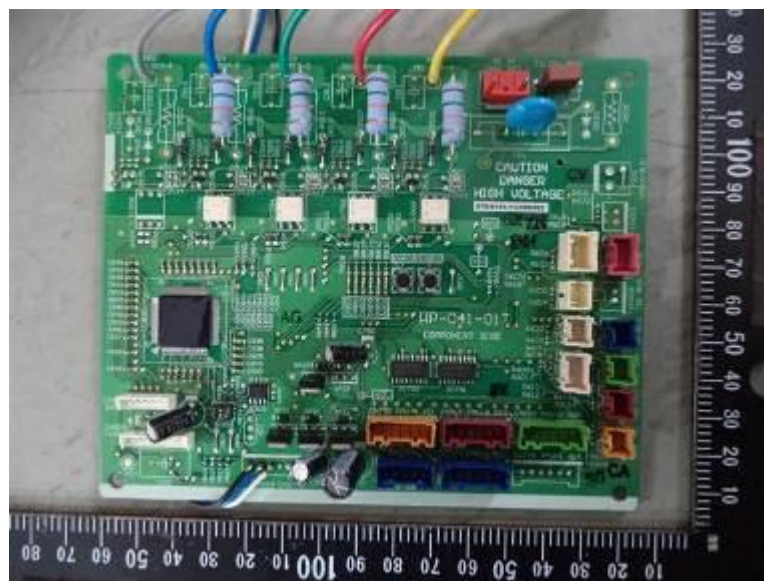
128. RAS-3M26U2AVG-E, RAS-3M26U2AVG-TR, RAS-4M27U2AVG-E, RAS-4M27U2AVG-TR, RAS-5M34U2AVG-E, RAS-5M34U2AVG-TR, Reactor-02

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129. RAS-3M26U2AVG-E, RAS-3M26U2AVG-TR, RAS-4M27U2AVG-E, RAS-4M27U2AVG-TR, RAS-5M34U2AVG-E, RAS-5M34U2AVG-TR, Reactor-01



130. RAS-3M26U2AVG-E, RAS-3M26U2AVG-TR, RAS-4M27U2AVG-E, RAS-4M27U2AVG-TR, RAS-5M34U2AVG-E, RAS-5M34U2AVG-TR, WP-041 component side.

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131. RAS-3M26U2AVG-E, RAS-3M26U2AVG-TR, RAS-4M27U2AVG-E, RAS-4M27U2AVG-TR, RAS-5M34U2AVG-E, RAS-5M34U2AVG-TR, WP-041 trace side.



132. RAS-3M26U2AVG-E, RAS-3M26U2AVG-TR, RAS-4M27U2AVG-E, RAS-4M27U2AVG-TR, RAS-5M34U2AVG-E, RAS-5M34U2AVG-TR, MCC-1571 component main P.C.B.

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133. RAS-3M26U2AVG-E, RAS-3M26U2AVG-TR, RAS-4M27U2AVG-E, RAS-4M27U2AVG-TR, RAS-5M34U2AVG-E, RAS-5M34U2AVG-TR, MCC-1571 trace side main P.C.B.



134. Supplementary tube

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Attachment 1 : Photographic documentation



135. Warning symbol label W021 of ISO 7010-W021

ATTACHMENT 2 - EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES			
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 (incl. Corr.:2013) EN 60335-1:2012 (incl. Corr.:2014)
Attachment Form No. :	EU_GD_IEC60335_2_40J
Attachment Originator:	VDE
Master Attachment :	2014-06
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ATTACHMENT 2 - EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES			
Clause	Requirement - Test	Result - Remark	Verdict
	CENELEC COMMON MODIFICATIONS		
6.1	Delete "class 0" and "class 01"		P
7.1	Single-phase appliances to be connected to the supply mains: 230 V covered		P
	Multi-phase appliances to be connected to the supply mains: 400 V covered		N/A
7.10	Devices used to start/stop operational functions of the appliance distinguished from other manual devices by means of shape, size, surface texture, position, etc.		P
	An indication that the device has been operated is given by:		P
	- a tactile feedback, or		P
	- an audible and visual feedback		P
7.12	The instructions include the substance of the following:		P
	- 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
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)		N/A
	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

ATTACHMENT 2 - EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES			
Clause	Requirement - Test	Result - Remark	Verdict
8.1.1	Also test probe 18 of EN 61032 is applied		P
	The appliance being in every possible position, except that appliances normally used on the floor and having a mass exceeding 40 kg are not tilted. (EN 60335-1:2012/AC:2014)		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		P
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
15.2	Drain pan filled to brim and subjected to continuous overflow and fan(s) switched on (EN 60335-2-40)		P
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

ATTACHMENT 2 - EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES			
Clause	Requirement - Test	Result - Remark	Verdict
	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:		N/A
	- the severity specified in the component standard is not less than the severity specified in 30.2, and		N/A
	- the test report for the component states whether it complied with the standard for the relevant component with or without flame, flames not exceeding 2 s during the test are ignored		N/A
	Unless components have been previously tested and found to comply with the relevant standard for the number of cycles specified, they are tested in accordance with 24.1.1 to 24.1.9		P
	For components mentioned in 24.1.1 to 24.1.9, no additional tests specified in the relevant standard for the component are necessary other than those specified in 24.1.1 to 24.1.9		P
	Components that have not been separately tested and found to comply with the relevant standard, and		P
	components that are not marked or not used in accordance with their marking,		P
	are tested in accordance with the conditions occurring in the appliance, the number of samples being that required by the relevant standard		P
	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		N/A
	with connectors and appliance inlets complying with the standard sheets of IEC 60320-1,		N/A

ATTACHMENT 2 - EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES			
Clause	Requirement - Test	Result - Remark	Verdict
	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:		N/A
	- 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
	Halogen-free thermoplastic compound sheathed supply cords have properties at least those of:		N/A
	- 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

ATTACHMENT 2 - EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES			
Clause	Requirement - Test	Result - Remark	Verdict
29.3.Z1	Appliance constructed so that if there is a possibility of damaging the insulation during installation, the insulation withstands the scratch and penetration test of 21.2		P
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, 19.1.101	The appliance is supplied at rated voltage and operated under normal operation with each of the fault conditions specified		P
	The duration of the test is as specified in 19.7		P
ZA	ANNEX ZA (NORMATIVE) SPECIAL NATIONAL CONDITIONS		N/A
	Norway		N/A
19.5	The test is also applicable to appliances intended to be permanently connected to fixed wiring		N/A
	Norway		N/A
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		N/A
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		N/A
25.8	In the table, the lines for 10 A and 16 A are replaced by:		N/A
	> 10 and ≤ 13 1,25 (1,0) ^b (EN 60335-1:2012/AC:2014)		N/A

ATTACHMENT 2 - EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES			
Clause	Requirement - Test	Result - Remark	Verdict
	> 13 and ≤ 16 1,5 (1,0) ^b (EN 60335-1:2012/AC:2014)		N/A
ZB	ANNEX ZB (INFORMATIVE) A-DEVIATIONS		N/A
	Ireland		N/A
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		N/A
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		P
	A list of referenced documents in this standard		P
ZD	ANNEX ZD (INFORMATIVE) IEC and CENELEC CODE DESIGNATIONS FOR FLEXIBLE CORDS		P
	A table with IEC and CENELEC code designations for flexible cords		P
ZE	ANNEX ZE (NORMATIVE) SPECIFIC ADDITIONAL REQUIREMENTS FOR APPLIANCES AND MACHINES INTENDED FOR COMMERCIAL USE		N/A
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

ATTACHMENT 2 - EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES			
Clause	Requirement - Test	Result - Remark	Verdict
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:		N/A
	- 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
	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

ATTACHMENT 2 - EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES			
Clause	Requirement - Test	Result - Remark	Verdict
7.12.ZE 1	If needed for specific appliances, the following information to be given:		N/A
	- on use, transportation, assembly, dismantling when out of service, testing or foreseeable breakdowns, if these operations have consequences on stability of the appliance in order to avoid overturning, falling or uncontrolled movements of the appliance or of its component parts		N/A
	- on how to maintain adequate mechanical stability when in use, during transportation, assembly, dismantling, scrapping and any other action involving the appliance		N/A
	- on the protective measures to be taken by the user, including, where appropriate, the personal protective equipment to be provided		N/A
	- on the operating method to be followed in the event of accident or breakdown; if a blockage is likely to occur the operating method to safely unblock the appliance		N/A
	- on the specifications on the spare parts to be used, when these affect the health and safety of the operator		N/A
	- on airborne noise emissions, determined and declared in accordance with the Annex ZAB, which includes: (EN 60335-2-40/A13)		N/A
	- the A-weighted emission sound pressure level at workstations, where this exceeds 70 dB(A); (EN 60335-2-40/A13)		N/A
	- where this level does not exceed 70 dB(A), 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
	- 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.ZE 2	The instructions includes a warning to disconnect the appliance from its power source during service and when replacing parts		N/A

ATTACHMENT 2 - EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES			
Clause	Requirement - Test	Result - Remark	Verdict
	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
	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:		N/A
	- 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

ATTACHMENT 2 - EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES			
Clause	Requirement - Test	Result - Remark	Verdict
	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
	Appliances to be moved manually are constructed or equipped so that they can be moved easily and safely		N/A
22.ZE.5	The fixing systems of fixed guards which prevent access to dangerous moving transmission parts only removable with the use of tools		N/A
	If such guards have to be removed by the user for routine cleaning or maintenance their fixing systems remain attached to the fixed guards or to the machine after removal		N/A
	Where possible, guards are incapable of remaining in place without their fixings		N/A
	This does not apply if, after removal of the screws, or if the component is incorrectly repositioned, the appliance becomes inoperative		N/A
	Movable guards are interlocked		N/A
	The interlocking devices prevent the start of hazardous appliance functions until the guards are fixed in their position, and give a stop command whenever they are no longer closed		N/A
	Where it is possible for an operator to reach the danger zone before the risk due to hazardous appliance functions has ceased, movable guards associated with a guard locking device in addition to an interlocking device that:		N/A
	- prevents the start of hazardous appliance functions until the guard is closed and locked, and		N/A

ATTACHMENT 2 - EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES			
Clause	Requirement - Test	Result - Remark	Verdict
	- 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
22.ZE.6	Interlocking movable guards designed in such a way that the absence or failure of one of their components prevents starting or stops the hazardous appliance functions		N/A
	The guard is opened 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/AC)		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:		N/A
	- adjustable manually or automatically, depending on the type of work involved, and		N/A
	- readily adjustable without the use of tools		N/A
22.ZE.8	In case of interruption, re-establishment after an interruption or fluctuation in whatever manner of the power supply, the appliance does not restart		N/A
	However, automatic restarting of the operation is allowed if the appliance may continue to operate, without causing any hazard to the user, from the same point in its operating cycle at which the voltage interruption or fluctuation occurred		N/A
22.ZE.9	Appliances fitted with means to isolate them from all energy sources		N/A
	Such isolators are clearly identified, and		N/A
	they are capable of being locked if reconnection endanger persons		N/A
	After the energy source is disconnected, it is possible to dissipate any energy remaining or stored in the circuits of the appliance without risk to persons		N/A

ATTACHMENT 2 - EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES			
Clause	Requirement - Test	Result - Remark	Verdict
ZF	ANNEX ZF (INFORMATIVE) CRITERIA APPLIED FOR THE ALLOCATION OF PRODUCTS COVERED BY STANDARDS IN THE EN 60335 SERIES UNDER LVD OR MD		P
	List of standards under CENELEC/TC61 with the allocation under the LVD (Low Voltage Directive) or the MD (Machinery Directive).....:		P
ZG	ANNEX ZG (NORMATIVE) UV APPLIANCES		N/A
	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		P
	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)		P
ZAA	ANNEX ZAA (INFORMATIVE) (EN 60335-2-40/A11) THE RELEVENCE OF THE PRESSURE EQUIPMENT DIRECTIVE		P
	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)		P

ATTACHMENT 2 - EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES			
Clause	Requirement - Test	Result - Remark	Verdict
	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):		P
	Vessels (EN 60335-2-40/A11)		P
	- dangerous refrigerants (Annex II, Table 1) (EN 60335-2-40/A11):		N/A
	- 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):		P
	- 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)		P
	Piping (EN 60335-2-40/A11)		P
	- dangerous refrigerants (Annex II, Table 6) (EN 60335-2-40/A11):		N/A
	- 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):		P
	- 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)		P
	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)		P
	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)		P

ATTACHMENT 2 - EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES			
Clause	Requirement - Test	Result - Remark	Verdict
	The numerical designation designates the size common to all components in the piping system (EN 60335-2-40/A11)		P
	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)		P
ZAB	ANNEX ZAA (NORMATIVE) (EN 60335-2-40/A13) EMISSION OF ACOUSTICAL NOISE FROM APPLIANCES COVERED BY ANNEX ZE		N/A
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

ATTACHMENT 2 - EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES			
Clause	Requirement - Test	Result - Remark	Verdict
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
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
	- he 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

ATTACHMENT 2 - EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES			
Clause	Requirement - Test	Result - Remark	Verdict
	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
	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 / IEC 62233:2005			
Clause	Requirement + Test	Result - Remark	Verdict
EMF- ELECTROMAGNETICS FIELDS			
	The tested product also complies with the requirements of EN 62233:2008 / IEC 62233:2005		P
	Limit100%	Measured max. :1.718%	P

ATTACHMENT 2 - EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES			
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 + AC:2014 + A11:2014
EN 62233:2008

Attachment Form No. : EU_GD_IEC60335_1T

Attachment Originator: Nemko AS

Master Attachment : 2015-03

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ATTACHMENT 2 - EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES			
Clause	Requirement - Test	Result - Remark	Verdict
	CENELEC COMMON MODIFICATIONS		
6.1	Delete "class 0" and "class 01"		P
7.1	Single-phase appliances to be connected to the supply mains: 230 V covered		P
	Multi-phase appliances to be connected to the supply mains: 400 V covered		N/A
7.10	Devices used to start/stop operational functions of the appliance distinguished from other manual devices by means of shape, size, surface texture, position, etc.		P
	An indication that the device has been operated is given by:		P
	<ul style="list-style-type: none"> a tactile feedback, or 		P
	<ul style="list-style-type: none"> an audible and visual feedback 		P
7.12	The instructions include the substance of the following:		P
	- 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
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, except that		P
	appliances normally used on the floor and having a mass exceeding 40 kg are not tilted		N/A
	The force on the probe in the straight position is increased to 10 N when probe 18 is used		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

ATTACHMENT 2 - EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES			
Clause	Requirement - Test	Result - Remark	Verdict
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		P
11.8	Footnotes to "External enclosure of motor-operated appliances" to be taken into account		P
15.1.2	Appliances with an automatic cord reel tested with the cord in the most unfavourable position so that the reeling of the wet cord may affect electrical insulation during operation, the cord not being dried before reeling		N/A
20.2	When using the test probe similar to test probe B with a circular stop face, the accessories and detachable covers are removed		P
	Test probe 18 applied with a force of 2,5N on the appliance fully assembled		P
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:		N/A
	- the severity specified in the component standard is not less than the severity specified in 30.2, and		N/A
	- the test report for the component states whether it complied with the standard for the relevant component with or without flame, flames not exceeding 2 s during the test are ignored		N/A
	Unless components have been previously tested and found to comply with the relevant standard for the number of cycles specified, they are tested in accordance with 24.1.1 to 24.1.9		P

ATTACHMENT 2 - EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES			
Clause	Requirement - Test	Result - Remark	Verdict
	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		P
	components that are not marked or not used in accordance with their marking,		P
	are tested in accordance with the conditions occurring in the appliance, the number of samples being that required by the relevant standard		P
	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		N/A
	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:		N/A

ATTACHMENT 2 - EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES			
Clause	Requirement - Test	Result - Remark	Verdict
	- 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
	Halogen-free thermoplastic compound sheathed supply cords have properties at least those of:		N/A
	<ul style="list-style-type: none"> halogen-free thermoplastic compound sheathed cords (H03Z1Z1H2-F or H03Z1Z1-F), for appliances having a mass not exceeding 3 kg 		N/A
	<ul style="list-style-type: none"> halogen-free thermoplastic compound sheathed cords (H05Z1Z1H2-F or H05Z1Z1-F), for other appliances 		N/A
	Cross-linked halogen-free compound sheathed supply cords have properties at least those of cross-linked halogen-free compound sheathed cords (H07ZZ-F)		N/A
26.11	Conductors connected by soldering are not considered to be positioned or fixed so that reliance is not placed upon the soldering alone to maintain them in position unless they are held in place near the terminals independently of the solder		N/A
29.3.Z1	Appliance constructed so that if there is a possibility of damaging the insulation during installation, the insulation withstands the scratch and penetration test of 21.2		P
32	Compliance regarding electromagnetic fields is checked according to EN 62233		P
Annex I, 19.I.101	The appliance is supplied at rated voltage and operated under normal operation with each of the fault conditions specified		P
	The duration of the test is as specified in 19.7		P
ZA	ANNEX ZA (NORMATIVE) SPECIAL NATIONAL CONDITIONS		N/A

ATTACHMENT 2 - EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES			
Clause	Requirement - Test	Result - Remark	Verdict
	Norway		N/A
19.5	The test is also applicable to appliances intended to be permanently connected to fixed wiring		N/A
	Norway		N/A
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		N/A
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		N/A
25.8	In the table, the lines for >10 A and ≤16 A are replaced by:		N/A
	> 10 and ≤ 13 1,25 (1,0) ^b		N/A
	> 13 and ≤ 16 1,5 (1,0) ^b		N/A
ZB	ANNEX ZB (INFORMATIVE) A-DEVIATIONS		N/A
	Ireland		N/A
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		N/A
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		P

ATTACHMENT 2 - EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES			
Clause	Requirement - Test	Result - Remark	Verdict
	A list of referenced documents in this standard		P
ZD	ANNEX ZD (INFORMATIVE) IEC and CENELEC CODE DESIGNATIONS FOR FLEXIBLE CORDS		P
	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		N/A
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:		N/A
	- 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 NATIONAL DIFFERENCES			
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
7.12.ZE 1	If needed for specific appliances, the following information to be given:		N/A
	<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> on how to maintain adequate mechanical stability when in use, during transportation, assembly, dismantling, scrapping and any other action involving the appliance 		N/A
	<ul style="list-style-type: none"> on the protective measures to be taken by the user, including, where appropriate, the personal protective equipment to be provided 		N/A
	<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> on the specifications on the spare parts to be used, when these affect the health and safety of the operator 		N/A
	<ul style="list-style-type: none"> on airborne noise emissions, determined and declared in accordance with the relevant Part 2, which includes: 		N/A
	- the A-weighted emission sound pressure level at workstations, where this exceeds 70 dB(A)		N/A
	- where this level does not exceed 70 dB(A), this fact is indicated		N/A

ATTACHMENT 2 - EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES			
Clause	Requirement - Test	Result - Remark	Verdict
	- 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.ZE 2	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
	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:		N/A
	- 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

ATTACHMENT 2 - EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES			
Clause	Requirement - Test	Result - Remark	Verdict
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
	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

ATTACHMENT 2 - EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES			
Clause	Requirement - Test	Result - Remark	Verdict
	Where it is possible for an operator to reach the danger zone before the risk due to hazardous appliance functions has ceased, movable guards associated with a guard locking device in addition to an interlocking device that:		N/A
	- prevents the start of hazardous appliance functions until the guard is closed and locked, and		N/A
	- keeps the guard closed and locked until the risk of injury from the hazardous appliance functions has ceased		N/A
	Interlocking movable guards remain attached to the appliance when open, and		N/A
	they are designed and constructed in such a way that they can be adjusted only by means of an intentional action		N/A
22.ZE.6	Interlocking movable guards designed in such a way that the absence or failure of one of their components prevents starting or stops the hazardous appliance functions		N/A
	The guard is opened to the extent needed to cause the interlocking to operate and is then closed, the number of operations being defined in the specific Part 2.....:		N/A
	After this test any defect that may be expected in normal use is applied to the interlock system, including interruption of the supply, only one defect being simulated at a time		N/A
	After these tests the interlock system is fit for further use		N/A
22.ZE.7	Adjustable guards restricting access to areas of the moving parts strictly necessary for the work are:		N/A
	- adjustable manually or automatically, depending on the type of work involved, and		N/A
	- readily adjustable without the use of tools		N/A
22.ZE.8	In case of interruption, re-establishment after an interruption or fluctuation in whatever manner of the power supply, the appliance does not restart		N/A
	However, automatic restarting of the operation is allowed if the appliance may continue to operate, without causing any hazard to the user, from the same point in its operating cycle at which the voltage interruption or fluctuation occurred		N/A
22.ZE.9	Appliances fitted with means to isolate them from all energy sources		N/A
	Such isolators are clearly identified, and		N/A
	they are capable of being locked if reconnection endanger persons		N/A

ATTACHMENT 2 - EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES			
Clause	Requirement - Test	Result - Remark	Verdict
	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		P
	List of standards under CENELEC/TC61 with the allocation under the LVD (Low Voltage Directive) or the MD (Machinery Directive)		P
ZG	ANNEX ZG (NORMATIVE) UV APPLIANCES		N/A
	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		P
	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)		P

Annex EN 62233:2008 / IEC 62233:2005			
Clause	Requirement + Test	Result - Remark	Verdict
EMF- ELECTROMAGNETICS FIELDS			
	The tested product also complies with the requirements of EN 62233:2008 / IEC 62233:2005		P
	Limit100%	Measured max. :1.718%	P