



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.....	ABUV-ESH-P21111264-A3 Supplement "A3" to "Test report No. ABUG-ESH-P21111264 dated on 2021-11-30"
Date of issue	2023-03-06
Total number of pages	65
Name of Testing Laboratory preparing the Report	LCIE CHINA Company Limited Building 4, No. 518, XinZhuan Road, CaoHejing Songjiang High-Tech Park, Shanghai, P.R.C(201612)
Applicant's name	Qingdao Haier Air Conditioner General Corp. Ltd.
Address	No.1 Haier Road, Hi-Tech Zone, Qingdao 266101, P.R. China
Test specification:	
Standard	IEC 60335-2-40:2002, AMD1:2005, COR1:2006, AMD2:2005 in conjunction with IEC 60335-1:2010, AMD1:2013, AMD2:2016
Test procedure.....	CE-LVD
Non-standard test method.....	N/A
Test Report Form No.	IEC60335_2_40R
Test Report Form(s) Originator ...	VDE Prüf- und Zertifizierungsinstitut GmbH
Master TRF	Dated 2020-04-30
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Test item description.....:	Single split type room air conditioner
Trade Mark	
Manufacturer.....:	Qingdao Haier Air Conditioner General Corp. Ltd. No.1 Haier Road, Hi-Tech Zone, Qingdao 266101, P.R. China
Model/Type reference	AS09THRHR (indoor unit) with 1U09YERFRA (outdoor unit) AS12THRHR (indoor unit) with 1U12YERFRA (outdoor unit) HEC25T0-IN (indoor unit) with HEC25T0-OU (outdoor unit) HEC35T0-IN (indoor unit) with HEC35T0-OU (outdoor unit) HSU-09T0R32(DB)-IN (indoor unit) with HSU-09T0R32(DB)-OUT (outdoor unit) HSU-12T0R32(DB)-IN (indoor unit) with HSU-12T0R32(DB)-OUT (outdoor unit) TRK09INVDMEI (indoor unit) with TRK09INVDMEO (outdoor unit) TRK12INVDMEI (indoor unit) with TRK12INVDMEO (outdoor unit) OLE-09DIH (indoor unit) with OLE-09DIH (outdoor unit) OLE-12DIH (indoor unit) with OLE-12DIH (outdoor unit) CY-09TBIN (indoor unit) with CY-09TBOUT (outdoor unit) CY-12TBIN (indoor unit) with CY-12TBOUT (outdoor unit) AS09PHBHRA (indoor unit) with 1U09YERFRA (outdoor unit) AS25PHBHRA (indoor unit) with 1U25YERFRA (outdoor unit) AS25RHBHRA (indoor unit) with 1U25YERFRA (outdoor unit) AS12PHBHRA (indoor unit) with 1U12YERFRA (outdoor unit) AS35PHBHRA (indoor unit) with 1U35YERFRA (outdoor unit) AS35RHBHRA (indoor unit) with 1U35YERFRA (outdoor unit) AS25RHBHRA-TU (indoor unit) with 1U25YERFRA-TU (outdoor unit) AS35RHBHRA-TU (indoor unit) with 1U35YERFRA-TU (outdoor unit)
Ratings	See the model list on Page 3.

Testing procedure and testing location:

☒	Testing Laboratory:	LCIE CHINA Company Limited
Testing location/ address.....:		Building 4, No. 518, Xin Zhuan Road, CaoHejing Songjiang High-Tech Park, Shanghai, P.R.C (201612)
Tested by (name + signature)		Project Engineer: Jason Kong 
Approved by (name + signature)		Product Line Manager: Tim GUO
☐	Testing procedure: CTF Stage 1:	
Testing location/ address.....:		
Tested by (name + signature)		
Approved by (name + signature)		
☐	Testing procedure: CTF Stage 2:	
Testing location/ address.....:		

Tested by (name + signature)			
Witnessed by (name + signature)			
Approved by (name + signature)			
☐ Testing procedure: CTF Stage 3 or 4:			
Testing location/ address.....			
Tested by (name + signature)			
Witnessed by (name + signature)			
Approved by (name + signature)			
Supervised by (name + signature)			

The model list:

220-240V~, 50Hz, Class I, Max work pressure: 4,3MPa, outdoor unit: IPX4, T1				
Model No.	Rated power input	Rated current input	Refrigerant	Trade Mark
AS09THRRA (indoor unit) with 1U09YERFRA (outdoor unit)	1,2kW	5,3A	R32/ 0,50kg	Haier
AS12THRRA (indoor unit) with 1U12YERFRA (outdoor unit)	1,5kW	6,6A	R32/ 0,55kg	Haier
HEC25T0-IN (indoor unit) with HEC25T0-OU (outdoor unit)	1,20kW	5,3A	R32/ 0,50kg	HEC
HEC35T0-IN (indoor unit) with HEC35T0-OU (outdoor unit)	1,50kW	6,6A	R32/ 0,55kg	HEC
HSU-09T0R32(DB)-IN (indoor unit) with HSU-09T0R32(DB)-OUT (outdoor unit)	1,20kW	5,3A	R32/ 0,50kg	N/A
HSU-12T0R32(DB)-IN (indoor unit) with HSU-12T0R32(DB)-OUT (outdoor unit)	1,50kW	6,6A	R32/ 0,55kg	N/A
TRK09INVDMEI (indoor unit) with TRK09INVDMEO (outdoor unit)	1,2kW	5,3A	R32/ 0,50kg	Tronic
TRK12INVDMEI (indoor unit) with TRK12INVDMEO (outdoor unit)	1,5kW	6,5A	R32/ 0,55kg	Tronic
OLE-09DIH (indoor unit) with OLE-09DIH (outdoor unit)	1,2kW	-	R32/ 0,50kg	 OLEFINI
OLE-12DIH (indoor unit) with OLE-12DIH (outdoor unit)	1,5kW	-	R32/ 0,55kg	 OLEFINI

CY-09TBIN (indoor unit) with CY-09TBOUT (outdoor unit)	1,20kW	5,3A	R32/ 0,50kg	CANDY
CY-12TBIN (indoor unit) with CY-12TBOUT (outdoor unit)	1,50kW	6,5A	R32/ 0,55kg	CANDY
AS09PHBHRA (indoor unit) with 1U09YERFRA (outdoor unit)	1,20kW	5,3A	R32/ 0,50kg	Haier
AS25PHBHRA (indoor unit) with 1U25YERFRA (outdoor unit)	1,20kW	5,3A	R32/ 0,50kg	Haier
AS25RHBHRA (indoor unit) with 1U25YERFRA (outdoor unit)	1,20kW	5,3A	R32/ 0,50kg	Haier
AS12PHBHRA (indoor unit) with 1U12YERFRA (outdoor unit)	1,50kW	6,5A	R32/ 0,55kg	Haier
AS35PHBHRA (indoor unit) with 1U35YERFRA (outdoor unit)	1,50kW	6,5A	R32/ 0,55kg	Haier
AS35RHBHRA (indoor unit) with 1U35YERFRA (outdoor unit)	1,50kW	6,5A	R32/ 0,55kg	Haier
AS25RHBHRA-TU (indoor unit) with 1U25YERFRA-TU (outdoor unit)	1,20kW	5,3A	R32/ 0,50kg	Haier
AS35RHBHRA-TU (indoor unit) with 1U35YERFRA-TU (outdoor unit)	1,50kW	6,5A	R32/ 0,55kg	Haier

List of Attachments (including a total number of pages in each attachment): Appendix 1: EU differences of EN 60335-2-40:2003 +A11:2004 +A12:2005 +A1:2006 +A2:2009 + A13:2012, EN 60335-1:2012 +A11:2014 +A13:2017 +A1:2019 +A14:2019 +A2:2019 + A15:2021 and EN 62233:2008 (Page 63 - 65)	
Summary of testing: The products were tested according to: EN 60335-1:2012 +A11:2014 +A13:2017 +A1:2019 +A14:2019 +A2:2019+ A15:2021 EN 60335-2-40:2003 +A11:2004 +A12:2005 +A1:2006 +A2:2009 + A13:2012 EN 62233:2008	
Tests performed (name of test and test clause): After technical evaluation, Cl. 7, Cl. 24 and Cl. 30 were checked. Other test data were based on the original report. All test results were found complying with the standards.	Testing location: LCIE CHINA Company Limited Building 4, No. 518, Xin Zhuan Road, CaoHejing Songjiang High-Tech Park, Shanghai, P.R.C (201612)
Summary of compliance with National Differences (List of countries addressed): EU Group Differences EN 60335-1:2012 +A11:2014 +A13:2017 +A1:2019 +A14:2019 +A2:2019+ A15:2021 EN 60335-2-40:2003 +A11:2004 +A12:2005 +A1:2006 +A2:2009 + A13:2012 EN 62233:2008	

Copy of marking plate:

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

AS09THRHRA (indoor unit) with 1U09YERFRA (outdoor unit)

Haier CE 		Power supply	1PH,220-240V~,50Hz
MODEL: AS09THRHRA		Anti-electric shock	Class I
Split type room air conditioner		Net Weight	7.4 kg
		Air volume	450m³/h
  		Manufacture date	
		MADE IN P.R.C.	
		Manufactured by Haier	
			0011519871

Haier CE 	
MODEL: 1U09YERFRA	
Single split type room air conditioner outdoor unit	
ITEM	PARAMETER
Pdesignc Capacity (kW)	2.50
SEER	6.1
Heating Capacity (kW)	2.80
Pdesignh Capacity (kW)	2.10
SCOP	4.0
Rated power input (kW)	1.2
Rated current (A)	5.3
Power supply	220-240V~,50Hz
Climate class	T1
Anti-electric shock	Class I
Net weight	21.8 kg
Max work pressure	4.3 MPa
Refrigerant	R32 0.50 kg
GWP	675
Equivalent CO ₂	0.34t
 IPX4	
  	
 	
The product contains fluorinated greenhouse gases and its functioning relies upon such gases.	
Manufacture date: On the bar code	
0011519885	

AS12THRHRA (indoor unit) with 1U12YERFRA (outdoor unit)

Haier CE  MODEL: AS12THRHRA Split type room air conditioner	Power supply 1PH,220-240V~,50Hz Anti-electric shock Class I Net Weight 7.8 kg Air volume 500m³/h
  	Manufacture date MADE IN P.R.C. Manufactured by Haier 0011519672

Haier CE 	
MODEL: 1U12YERFRA Single split type room air conditioner outdoor unit	
ITEM	PARAMETER
Pdesignc Capacity (kW)	3.20
SEER	6.1
Heating Capacity (kW)	3.40
Pdesignh Capacity (kW)	2.60
SCOP	4.0
Rated power input (kW)	1.5
Rated current (A)	6.6
Power supply	220-240V~,50Hz
Climate class	T1
Anti-electric shock	Class I
Net weight	22.9 kg
Max work pressure	4.3 MPa
Refrigerant	R32 0.55 kg
GWP	675
Equivalent CO ₂	0.37t
 IPX4	
  	
 	
The product contains fluorinated greenhouse gases and its functioning relies upon such gases. Manufacture date: On the bar code 0011519686	

HEC25T0-IN (indoor unit) with HEC25T0-OU (outdoor unit)

  		Power supply Anti-electric shock Net Weight Air volume Manufacture date MADE IN P.R.C. Manufactured by Haier	220-240V~,50Hz Class I 7.4 kg 450m³/h XXXX / XX
  			

HEC  

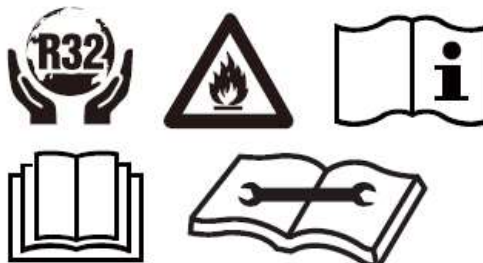
MODEL: HEC25T0-OU

Single split type room air conditioner outdoor unit

ITEM	PARAMETER
Pdesignc Capacity (kW)	2.50
SEER	6.1
Heating Capacity (kW)	2.80
Pdesignh Capacity (kW)	2.10
SCOP	4.0
Rated power input (kW)	1.20
Rated current (A)	5.3

Power supply	220-240V~,50Hz
Climate class	T1
Anti-electric shock	Class I
Net weight	21.8 kg
Max work pressure	4.3 MPa
Refrigerant	R32 0.50 kg
GWP	675
Equivalent CO ₂	0.34t

 IPX4



The product contains fluorinated greenhouse gases and its functioning relies upon such gases.

Manufacture date: XXXX / XX

HEC35T0-IN (indoor unit) with HEC35T0-OU (outdoor unit)

HEC  		Power supply	220-240V~,50Hz
MODEL: HEC35T0-IN		Anti-electric shock	Class I
Split type room air conditioner		Net Weight	7.8 kg
		Air volume	500m³/h
		Manufacture date	XXXX / XX
		MADE IN P.R.C.	
		Manufactured by Haier	

HEC  

MODEL: HEC35T0-OU

Single split type room air conditioner outdoor unit

ITEM	PARAMETER
Pdesignc Capacity (kW)	3.20
SEER	6.1
Heating Capacity (kW)	3.40
Pdesignh Capacity (kW)	2.60
SCOP	4.0
Rated power input (kW)	1.50
Rated current (A)	6.6
Power supply	220-240V~,50Hz
Climate class	T1
Anti-electric shock	Class I
Net weight	22.9 kg
Max work pressure	4.3 MPa
Refrigerant	R32 0.55 kg
GWP	675
Equivalent CO ₂	0.37t
 IPX4	



The product contains fluorinated greenhouse gases and its functioning relies upon such gases.

Manufacture date: XXXX / XX

HSU-09T0R32(DB)-IN (indoor unit) with HSU-09T0R32(DB)-OUT (outdoor unit)

MODEL HSU-09T0/R32(DB)-IN Split type room air conditioner	  Power supply 220-240V~,50Hz Anti-electric shock Class I Net Weight 7.4 kg Air volume 450m³/h Manufacture date XXXX / XX MADE IN P.R.C. Manufactured by Haier
  	

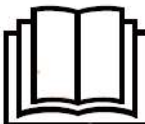
 	
MODEL: HSU-09T0/R32(DB)-OUT Single split type room air conditioner outdoor unit	
ITEM	PARAMETER
Pdesignc Capacity (kW)	2.50
SEER	6.1
Heating Capacity (kW)	2.80
Pdesignh Capacity (kW)	2.10
SCOP	4.0
Rated power input (kW)	1.20
Rated current (A)	5.3
Power supply	220-240V~,50Hz
Climate class	T1
Anti-electric shock	Class I
Net weight	21.8 kg
Max work pressure	4.3 MPa
Refrigerant	R32 0.50 kg
GWP	675
Equivalent CO ₂	0.34t
 IPX4	
  	
 	
The product contains fluorinated greenhouse gases and its functioning relies upon such gases. Manufacture date: XXXX / XX	

HSU-12T0R32(DB)-IN (indoor unit) with HSU-12T0R32(DB)-OUT (outdoor unit)

MODEL HSU-12T0/R32(DB)-IN Split type room air conditioner	  Power supply 220-240V~,50Hz Anti-electric shock Class I Net Weight 7.8 kg Air volume 500m³/h Manufacture date XXXX / XX MADE IN P.R.C. Manufactured by Haier
  	

 	
MODEL: HSU-12T0/R32(DB)-OUT Single split type room air conditioner outdoor unit	
ITEM	PARAMETER
Pdesignc Capacity (kW)	3.20
SEER	6.1
Heating Capacity (kW)	3.40
Pdesignh Capacity (kW)	2.60
SCOP	4.0
Rated power input (kW)	1.50
Rated current (A)	6.6
Power supply	220-240V~,50Hz
Climate class	T1
Anti-electric shock	Class I
Net weight	22.9 kg
Max work pressure	4.3 MPa
Refrigerant	R32 0.55kg
GWP	675
Equivalent CO ₂	0.37t
 IPX4	
  	
 	
The product contains fluorinated greenhouse gases and its functioning relies upon such gases. Manufacture date: XXXX / XX	

TRK09INVDMEI (indoor unit) with TRK09INVDME0 (outdoor unit)

  		POWER SUPPLY 1PH,220-240V~.50Hz COOLING CAPACITY 8530 (2390-11432) BTU/h HEATING CAPACITY 9554 (2560-12110) BTU/h COOLING RATED INPUT 1.2 kW HEATING RATED INPUT 1.2 kW OUTDOOR RESISTANCE CLASS IPX4	REFRIGERANT R32 MAXIMUM CURRENT 5.3A (COOLING) MAXIMUM CURRENT 5.3A (HEATING) NET WEIGHT 7.4kg EXCESSIVE OPERATING PRESSURE HI 4.3MPa LO 2.5MPa
MODEL : TRK09INVDMEI INVERTER WALL MOUNTED TYPE INDOOR UNIT MADE FOR IKLIMSA MANUFACTURED DATE: xxxx / xx		MANUFACTURER NAME: QINGDAO HAIER AIR CONDITIONER GENERAL CO.,LTD. MANUFACTURER ADD : QINGDAO HIGH-TECH. IND. PARK HAIER ROAD QINGDAO, SHANDONG 266101 P.R. CHINA. CONTAINS FLUORINATED GREENHOUSE GASES	
  		Tronic Oracle Code 6.4001.9679 0011523974	

  		
INVERTER WALL MOUNTED TYPE AIR CONDITIONER OUTDOOR UNIT		
MODEL	TRK09INVDME0	
POWER SUPPLY	1PH,220-240V~.50Hz	
COOLING CAPACITY	8530 (2390-11432) BTU/h	
HEATING CAPACITY	9554 (2560-12110) BTU/h	
NET WEIGHT	21.8 kg	
REFRIGERANT	R32/500g	
COOLING RATED INPUT	1.2 kW	
HEATING RATED INPUT	1.2 kW	
CO₂ EQUIVALENT	0.34 Tonnes	
GWP	675	
EXCESSIVE OPERATING PRESSURE	HI	4.3MPa
	LO	2.5MPa
OUTDOOR RESISTANCE CLASS	IPX4	
MANUFACTURED DATE: xxxx/xx		
 MADE FOR IKLIMSA		
MANUFACTURER NAME: QINGDAO HAIER AIR CONDITIONER GENERAL CO.,LTD. MANUFACTURER ADD : QINGDAO HIGH-TECH. IND. PARK HAIER ROAD QINGDAO, SHANDONG 266101 P.R. CHINA. CONTAINS FLUORINATED GREENHOUSE GASES		
Tronic Oracle Code 0011523984 6.4001.9680		

TRK12INVDMEI (indoor unit) with TRK12INVDME0 (outdoor unit)

 		POWER SUPPLY 1PH,220-240V~50Hz COOLING CAPACITY 10918 (2729-12423) BTU/h HEATING CAPACITY 11603 (2729-14675) BTU/h COOLING RATED INPUT 1.5 kW HEATING RATED INPUT 1.5 kW OUTDOOR RESISTANCE CLASS IPX4	REFRIGERANT R32 MAXIMUM CURRENT 6.5 A (COOLING) MAXIMUM CURRENT 6.5 A (HEATING) NET WEIGHT 7.8 kg EXCESSIVE OPERATING PRESSURE HI 4.3MPa LO 2.5MPa
MODEL : TRK12INVDMEI INVERTER WALL MOUNTED TYPE INDOOR UNIT MADE FOR IKLIMSA MANUFACTURED DATE: xxxx / xx   		MANUFACTURER NAME: QINGDAO HAIER AIR CONDITIONER GENERAL CO.,LTD. MANUFACTURER ADD : QINGDAO HIGH-TECH. IND. PARK HAIER ROAD QINGDAO, SHANDONG 266101 P.R. CHINA. CONTAINS FLUORINATED GREENHOUSE GASES	
		Tronic Oracle Code 6.4001.9681 0011523976	

  		
INVERTER WALL MOUNTED TYPE AIR CONDITIONER OUTDOOR UNIT		
MODEL	TRK12INVDME0	
POWER SUPPLY	1PH,220-240V~50Hz	
COOLING CAPACITY	10918 (2729-12423)BTU/h	
HEATING CAPACITY	11603 (2729-14675)BTU/h	
NET WEIGHT	22.9kg	
REFRIGERANT	R32/550g	
COOLING RATED INPUT	1.5 kW	
HEATING RATED INPUT	1.5 kW	
CO₂ EQUIVALENT	0.37 Tonnes	
GWP	675	
EXCESSIVE OPERATING PRESSURE	HI	4.3MPa
	LO	2.5MPa
OUTDOOR RESISTANCE CLASS	IPX4	
MANUFACTURED DATE: xxxx/xx		
 MADE FOR IKLIMSA		
MANUFACTURER NAME: QINGDAO HAIER AIR CONDITIONER GENERAL CO.,LTD. MANUFACTURER ADD : QINGDAO HIGH-TECH. IND. PARK HAIER ROAD QINGDAO, SHANDONG 266101 P.R. CHINA. CONTAINS FLUORINATED GREENHOUSE GASES		
Tronic Oracle Code 0011523987 6.4001.9682		

OLE-09DIH (indoor unit) with OLE-09DIH (outdoor unit)

		  	
SPLIT AIR CONDITIONER INDOOR UNIT		AIR CONDITIONER OUTDOOR UNIT	
Model	OLE-09DIH	Model	OLE-09DIH
Rated Voltage	220-240V~	Rated Voltage	220-240V~
Rated Frequency	50Hz	Rated Frequency	50Hz
Cooling Capacity	2500W	Climate Type	T1
Heating Capacity	2800W	Cooling Capacity	2.5kW
Air Flow Volume	490m ³ /h	Heating Capacity	2.8kW
Sound Pressure Level(H)	38dB(A)	Cooling Power Input	1200W
Weight	7.4kg	Heating Power Input	1200W
Manufactured Date	DD/MM/YYYY	Cooling Rated Input	830W
Importer		Heating Rated Input	870W
OAC IKLIMLENDİRME A.Ş.		Maximum Allowable Pressure	4.3MPa
Gursel Mh. Nurtac Cd. No:71/A Kagithane/Istanbul/Turkey		Operating Pressure	4.3/2.5MPa
Manufacturer		(Discharge Side/Suction Side)	
Qingdao Haier Air Conditioner General Co., Ltd.		Sound Pressure Level	50dB(A)
Add: Qingdao High-Tech. Ind. Park Haier Road		Moisture Protection	IPX4
Qingdao, Shandong 266101 P.R. China		Isolation	I
		Refrigerant	R32
		Refr. Charge	0.50kg
		Weight	21.8kg
		GWP	675
		Co ₂ equivalent	0.34t
		Manufactured Date	DD/MM/YYYY
		Importer	
		OAC IKLIMLENDİRME A.Ş.	
		Gursel Mh. Nurtac Cd. No:71/A Kagithane/Istanbul/Turkey	
		Manufacturer	
		Qingdao Haier Air Conditioner General Co., Ltd.	
		Add: Qingdao High-Tech. Ind. Park Haier Road Qingdao, Shandong 266101 P.R. China	
		MADE IN P.R.C.	

OLE-12DIH (indoor unit) with OLE-12DIH (outdoor unit)

		  	
SPLIT AIR CONDITIONER INDOOR UNIT		AIR CONDITIONER OUTDOOR UNIT	
Model	OLE-12DIH	Model	OLE-12DIH
Rated Voltage	220-240V~	Rated Voltage	220-240V~
Rated Frequency(Frekans)	50Hz	Rated Frequency	50Hz
Cooling Capacity	3200W	Climate Type	T1
Heating Capacity	3400W	Cooling Capacity	3.2kW
Air Flow Volume	510m³/h	Heating Capacity	3.4 kW
Sound Pressure Level(H)	39dB(A)	Cooling Power Input	1500W
Weight	7.8kg	Heating Power Input	1500W
Manufactured Date	DD/MM/YYYY	Cooling Rated Input	1140W
Importer		Heating Rated Input	1210W
OAC IKLIMLENDİRME A.Ş.		Maximum Allowable Pressure	4.3MPa
Gursel Mh. Nurtac Cd. No:71/A Kagithane/Istanbul/Turkey		Operating Pressure	4.3/2.5MPa
Manufacturer		(Discharge Side/Suction Side)	
Qingdao Haier Air Conditioner General Co.,Ltd.		Sound Pressure Level	50dB(A)
Add: Qingdao High-Tech. Ind. Park Haier Road		Moisture Protection	IPX4
Qingdao, Shandong 266101 P.R. China		Isolation	I
		Refrigerant	R32
		Refri. Charge	0.55kg
		Weight	22.9kg
		GWP	675
		Co₂ equivalent	0.37t
		Manufactured Date	DD/MM/YYYY
		Importer	
		OAC IKLIMLENDİRME A.Ş.	
		Gursel Mh. Nurtac Cd. No:71/A Kagithane/Istanbul/Turkey	
		Manufacturer	
		Qingdao Haier Air Conditioner General Co.,Ltd.	
		Add: Qingdao High-Tech. Ind. Park Haier Road Qingdao, Shandong 266101 P.R. China	
		MADE IN P.R.C.	

CY-09TBIN (indoor unit) with CY-09TBOUT (outdoor unit)

   MODEL: CY-09TBIN Split type room air conditioner	Power supply 220-240V~,50Hz Anti-electric shock Class I Net Weight 7.4 kg Air volume 490m³/h Manufacture date XXXX / XX MADE IN P.R.C. Manufactured by Haier
  	0011525680

   MODEL: CY-09TBOUT Single split type room air conditioner outdoor unit	
ITEM	PARAMETER
Pdesignc Capacity (kW)	2.50
SEER	6.1
Heating Capacity (kW)	2.80
Pdesignh Capacity (kW)	2.10
SCOP	4.0
Rated power input (kW)	1.20
Rated current (A)	5.3
Power supply	220-240V~,50Hz
Climate class	T1
Anti-electric shock	Class I
Net weight	21.8kg
Max work pressure	4.3 MPa
Refrigerant	R32 0.50 kg
GWP	675
Equivalent CO ₂	0.34t
 IPX4	
    	
The product contains fluorinated greenhouse gases and its functioning relies upon such gases. Manufacture date: XXXX / XX	
0011525682	

CY-12TBIN (indoor unit) with CY-12TBOUT (outdoor unit)

   MODEL: CY-12TBIN Split type room air conditioner	<table> <tr> <td>Power supply</td><td>220-240V~,50Hz</td></tr> <tr> <td>Anti-electric shock</td><td>Class I</td></tr> <tr> <td>Net Weight</td><td>7.8 kg</td></tr> <tr> <td>Air volume</td><td>510m³/h</td></tr> <tr> <td>Manufacture date</td><td>XXXX / XX</td></tr> <tr> <td>MADE IN P.R.C.</td><td></td></tr> <tr> <td>Manufactured by Haier</td><td></td></tr> </table> 0011525681	Power supply	220-240V~,50Hz	Anti-electric shock	Class I	Net Weight	7.8 kg	Air volume	510m³/h	Manufacture date	XXXX / XX	MADE IN P.R.C.		Manufactured by Haier	
Power supply	220-240V~,50Hz														
Anti-electric shock	Class I														
Net Weight	7.8 kg														
Air volume	510m³/h														
Manufacture date	XXXX / XX														
MADE IN P.R.C.															
Manufactured by Haier															
  															



MODEL: CY-12TBOUT

Single split type room air conditioner outdoor unit

ITEM	PARAMETER
Pdesignc Capacity (kW)	3.20
SEER	6.1
Heating Capacity (kW)	3.40
Pdesignh Capacity (kW)	2.60
SCOP	4.0
Rated power input (kW)	1.50
Rated current (A)	6.5
Power supply	220-240V~,50Hz
Climate class	T1
Anti-electric shock	Class I
Net weight	22.9kg
Max work pressure	4.3 MPa
Refrigerant	R32 0.55 kg
GWP	675
Equivalent CO ₂	0.37t
 IPX4	



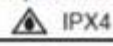
The product contains fluorinated greenhouse gases and its functioning relies upon such gases.

Manufacture date: XXXX / XX

0011525683

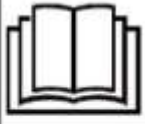
AS09PHBHRA (indoor unit) with 1U09YERFRA (outdoor unit)

Haier  		Power supply	220-240V~,50Hz
MODEL: AS09PHBHRA		Anti-electric shock	Class I
Split type room air conditioner		Net Weight	7.5kg
		Air volume	490m³/h
  	Manufacture date	XXXX / XX	
	Manufactured by Haier	MADE IN P.R.C.	
	0011525110		

Haier  	
MODEL: 1U09YERFRA	
Single split type room air conditioner outdoor unit	
ITEM	PARAMETER
Pdesignc Capacity (kW)	2.50
SEER	6.1
Heating Capacity (kW)	2.80
Pdesignh Capacity (kW)	2.10
SCOP	4.0
Rated power input (kW)	1.20
Rated current (A)	5.3
Power supply	220-240V~,50Hz
Climate class	T1
Anti-electric shock	Class I
Net weight	21.8 kg
Max work pressure	4.3 MPa
Refrigerant	R32 0.50kg
GWP	675
Equivalent CO ₂	0.34t
 IPX4	
  	
 	
The product contains fluorinated greenhouse gases and its functioning relies upon such gases.	
Manufacture date: XXXX / XX	
0011525114	

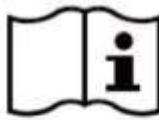
AS25PHBHRA (indoor unit) with 1U25YERFRA (outdoor unit)

Haier  		Power supply	220-240V~,50Hz
MODEL: AS25PHBHRA		Anti-electric shock	Class I
Split type room air conditioner		Net Weight	7.5kg
  		Air volume	490 m³/h
		Manufacture date	XXXX / XX
		Manufactured by Haier	MADE IN P.R.C.

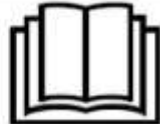
Haier  	
MODEL: 1U25YERFRA	
Single split type room air conditioner outdoor unit.	
ITEM	PARAMETER
Pdesignc Capacity (kW)	2.50
SEER	6.1
Heating Capacity (kW)	2.80
Pdesignh Capacity (kW)	2.10
SCOP	4.0
Rated power input (kW)	1.20
Rated current (A)	5.3
Power supply	220-240V~,50Hz
Climate class	T1
Anti-electric shock	Class I
Net weight	21.8 kg
Max work pressure	4.3 MPa
Refrigerant	R32 0.50kg
GWP	675
Equivalent CO ₂	0.34t
 IPX4	
  	
 	
The product contains fluorinated greenhouse gases and its functioning relies upon such gases.	
Manufacture date: XXXX / XX	
0011525114	

AS25RHBHRA (indoor unit) with 1U25YERFRA (outdoor unit)

Haier CE 		Power supply	220-240V~,50Hz
MODEL: AS25RHBHRA		Anti-electric shock	Class I
Split type room air conditioner		Net Weight	7.5kg
  		Air volume	490m³/h
		Manufacture date	XXXX / XX
		Manufactured by Haier	MADE IN P.R.C.

Haier CE 	
MODEL: 1U25YERFRA	
Single split type room air conditioner outdoor unit.	
ITEM	PARAMETER
Pdesignc Capacity (kW)	2.50
SEER	6.1
Heating Capacity (kW)	2.80
Pdesignh Capacity (kW)	2.10
SCOP	4.0
Rated power input (kW)	1.20
Rated current (A)	5.3
Power supply	220-240V~,50Hz
Climate class	T1
Anti-electric shock	Class I
Net weight	21.8 kg
Max work pressure	4.3 MPa
Refrigerant	R32 0.50kg
GWP	675
Equivalent CO ₂	0.34t
	
  	
 	
The product contains fluorinated greenhouse gases and its functioning relies upon such gases.	
Manufacture date: XXXX / XX	
0011525114	

AS12PHBHRA (indoor unit) with 1U12YERFRA (outdoor unit)

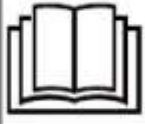
Haier CE 		Power supply	220-240V~,50Hz
MODEL: AS12PHBHRA		Anti-electric shock	Class I
Split type room air conditioner		Net Weight	7.8kg
  		Air volume	510m³/h
		Manufacture date	XXXX / XX
		Manufactured by Haier	MADE IN P.R.C.

0011525111

Haier CE 	
MODEL: 1U12YERFRA	
Single split type room air conditioner outdoor unit	
ITEM	PARAMETER
Pdesignc Capacity (kW)	3.20
SEER	6.1
Heating Capacity (kW)	3.40
Pdesignh Capacity (kW)	2.60
SCOP	4.0
Rated power input (kW)	1.50
Rated current (A)	6.5
Power supply	220-240V~,50Hz
Climate class	T1
Anti-electric shock	Class I
Net weight	22.9 kg
Max work pressure	4.3 MPa
Refrigerant	R32 0.55kg
GWP	675
Equivalent CO ₂	0.37t
 IPX4	
  	
 	
The product contains fluorinated greenhouse gases and its functioning relies upon such gases.	
Manufacture date: XXXX / XX	
0011525115	

AS35PHBHRA (indoor unit) with 1U35YERFRA (outdoor unit)

Haier  		Power supply	220-240V~,50Hz
MODEL: AS35PHBHRA		Anti-electric shock	Class I
Split type room air conditioner		Net Weight	7.8kg
  		Air volume	510m³/h
		Manufacture date	XXXX / XX
		Manufactured by Haier	MADE IN P.R.C.

Haier  	
MODEL: 1U35YERFRA	
Single split type room air conditioner outdoor unit	
ITEM	PARAMETER
Pdesignc Capacity (kW)	3.20
SEER	6.1
Heating Capacity (kW)	3.40
Pdesignh Capacity (kW)	2.60
SCOP	4.0
Rated power input (kW)	1.50
Rated current (A)	6.5
Power supply	220-240V~,50Hz
Climate class	T1
Anti-electric shock	Class I
Net weight	22.9 kg
Max work pressure	4.3 MPa
Refrigerant	R32 0.55kg
GWP	675
Equivalent CO ₂	0.37t
 IPX4	
  	
 	
The product contains fluorinated greenhouse gases and its functioning relies upon such gases.	
Manufacture date: XXXX / XX	

AS35RHBHRA (indoor unit) with 1U35YERFRA (outdoor unit)

Haier  		Power supply	220-240V~,50Hz
MODEL: AS35RHBHRA		Anti-electric shock	Class I
Split type room air conditioner		Net Weight	7.8kg
  		Air volume	510m³/h
		Manufacture date	XXXX / XX
		Manufactured by Haier	MADE IN P.R.C.

Haier  	
MODEL: 1U35YERFRA	
Single split type room air conditioner outdoor unit	
ITEM	PARAMETER
Pdesignc Capacity (kW)	3.20
SEER	6.1
Heating Capacity (kW)	3.40
Pdesignh Capacity (kW)	2.60
SCOP	4.0
Rated power input (kW)	1.50
Rated current (A)	6.5
Power supply	220-240V~,50Hz
Climate class	T1
Anti-electric shock	Class I
Net weight	22.9 kg
Max work pressure	4.3 MPa
Refrigerant	R32 0.55kg
GWP	675
Equivalent CO ₂	0.37t
 IPX4	
  	
 	
The product contains fluorinated greenhouse gases and its functioning relies upon such gases. Manufacture date: XXXX / XX	

AS25RHBHRA-TU (indoor unit) with 1U25YERFRA-TU (outdoor unit)

Haier CE 		Power supply	220-240V~,50Hz
MODEL: AS25RHBHRA-TU Split type room air conditioner		Anti-electric shock	Class I
  		Net Weight	7.5kg
		Air volume	490m³/h
		Manufacture date	XXXX / XX
		Manufactured by Haier	MADE IN P.R.C.

Haier CE 	
MODEL: 1U25YERFRA-TU Single split type room air conditioner outdoor unit	
ITEM	PARAMETER
Pdesignnc Capacity (kW)	2.50
SEER	6.1
Heating Capacity (kW)	2.80
Pdesignnh Capacity (kW)	2.10
SCOP	4.0
Rated power input (kW)	1.20
Rated current (A)	5.3
Power supply	220-240V~,50Hz
Climate class	T1
Anti-electric shock	Class I
Net weight	21.8 kg
Max work pressure	4.3 MPa
Refrigerant	R32 0.50kg
GWP	675
Equivalent CO ₂	0.34t
 IPX4	
  	
 	
The product contains fluorinated greenhouse gases and its functioning relies upon such gases. Manufacture date: XXXX / XX Made in P.R.C.	
0011525114	

AS35RHBHRA-TU (indoor unit) with 1U35YERFRA-TU (outdoor unit)

Haier CE 		Power supply	220-240V~,50Hz
MODEL: AS35RHBHRA-TU Split type room air conditioner		Anti-electric shock	Class I
  		Net Weight	7.8kg
		Air volume	510m³/h
		Manufacture date	XXXX / XX
		Manufactured by Haier	MADE IN P.R.C.

Haier CE 	
MODEL: 1U35YERFRA-TU Single split type room air conditioner outdoor unit	
ITEM	PARAMETER
Pdesignc Capacity (kW)	3.20
SEER	6.1
Heating Capacity (kW)	3.40
Pdesignh Capacity (kW)	2.60
SCOP	4.0
Rated power input (kW)	1.50
Rated current (A)	6.5
Power supply	220-240V~,50Hz
Climate class	T1
Anti-electric shock	Class I
Net weight	22.9 kg
Max work pressure	4.3 MPa
Refrigerant	R32 0.55kg
GWP	675
Equivalent CO ₂	0.37t
 IPX4	
  	
 	
The product contains fluorinated greenhouse gases and its functioning relies upon such gases. Manufacture date: XXXX / XX Made in P.R.C.	
0011525115	

Note: The manufacturer confirmed that:

- 1) A label shall be attached on the external enclosure of the product, which indicates the name, registered trade name or registered trade mark and the postal address of the importer or authorized representatives. The postal address shall be a single point at which the importer or authorised representatives can be contacted and in the European Union countries.
- 2) The content about a type, batch or serial number or other element allowing its identification shall be on above label or on a separate label which shall be clearly discernible from the outside of the appliance.
- 3) A label including the following symbols shall be attached on the external enclosure of the product (outdoor & indoor unit), the height of which is at least 10mm.



- 4) A label of the following symbol shall be attached on the external enclosure of the product (outdoor & indoor unit), the height of which is at least 30mm.



- 5) A label containing the information for F-gas shall be attached on the external enclosure of the product.

Test item particulars : Single split type room air conditioner	
Classification of installation and use : Stationary appliance	
Supply Connection : Connection to fixed wiring	
Possible test case verdicts: - test case does not apply to the test object : N/A - test object does meet the requirement..... : P (Pass) - test object does not meet the requirement : F (Fail)	
Testing : Date of receipt of test item : 2023-02-06 Date (s) of performance of tests : 2023-02-06 to 2023-03-06	
General remarks:	
"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report. Throughout this report a ☒ comma / ☐ point is used as the decimal separator.	
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..... :	☐ Yes ☒ Not applicable
When differences exist; they shall be identified in the General product information section.	
Name and address of factory (ies) : Qingdao Haier Air Conditioner Electric Co., Ltd. Haier industrial Park, No.236, Qianwangang Road, Qingdao Eco-tech Development Zone, Qingdao 266555, China.	

General product information and other remarks:

1. The appliances are **Single split type room air conditioner**. The appliance is mainly composed of compressor, evaporator, condenser, capillary, 4-way valve, WIFI module. They are used to achieve heating and cooling and other functions. The rated voltage is 220-240V, rated frequency is 50Hz. The refrigerant is R32.
2. The indoor unit shall be installed at the 2,5 m of height above floor.
3. The power is supplied by connecting fixed wiring, and shall be installed in accordance with the user manual and national electric regulation.
4. The difference between "AS12THRHRA (indoor unit) with 1U12YERFRA (outdoor unit)" and "AS09THRHRA (indoor unit) with 1U09YERFRA (outdoor unit)" are model name and compressor.
5. The difference between "AS09THRHRA (indoor unit) with 1U09YERFRA (outdoor unit)" and "HEC25T0-IN (indoor unit) with HEC25T0-OU (outdoor unit)" are model name and trade mark only.
6. The difference between "AS12THRHRA (indoor unit) with 1U12YERFRA (outdoor unit)" and "HEC35T0-IN (indoor unit) with HEC35T0-OU (outdoor unit)" are model name and trade mark only.
7. The difference between "AS09THRHRA (indoor unit) with 1U09YERFRA (outdoor unit)" and "HSU-09T0R32(DB)-IN (indoor unit) with HSU-09T0R32(DB)-OUT (outdoor unit)" are model name and trade mark only.
8. The difference between "AS12THRHRA (indoor unit) with 1U12YERFRA (outdoor unit)" and "HSU-12T0R32(DB)-IN (indoor unit) with HSU-12T0R32(DB)-OUT (outdoor unit)" are model name and trade mark only.

Amendment 1:

The original report ABUV-ESH-P21111264 dated on 2021-11-30 was modified on 2022-05-11 to include the following changed, which were considered as technical modifications:

1. Adding new model "**TRK09INVDMEI (indoor unit) with TRK09INVDMEO (outdoor unit)**" and "**TRK12INVDMEI (indoor unit) with TRK12INVDMEO (outdoor unit)**", which were marked in "Bold" on page 2. "**TRK09INVDMEI (indoor unit) with TRK09INVDMEO (outdoor unit)**" is identical with the original model "AS09THRHRA (indoor unit) with 1U09YERFRA (outdoor unit)" except model name and trade mark only. "**TRK12INVDMEI (indoor unit) with TRK12INVDMEO (outdoor unit)**" is identical with the original model "AS12THRHRA (indoor unit) with 1U12YERFRA (outdoor unit)" except model name and trade mark.
2. Adding new model "**OLE-09DIH (indoor unit) with OLE-09DIH (outdoor unit)**" and "**OLE-12DIH (indoor unit) with OLE-12DIH (outdoor unit)**", which were marked in "Bold" in page 2. "**OLE-09DIH (indoor unit) with OLE-09DIH (outdoor unit)**" is identical with the original model "AS09THRHRA (indoor unit) with 1U09YERFRA (outdoor unit)" except model name and trade mark. "**OLE-12DIH (indoor unit) with OLE-12DIH (outdoor unit)**" is identical with the original model "AS12THRHRA (indoor unit) with 1U12YERFRA (outdoor unit)" except model name and trade mark.
3. Adding new main control PCB board (0011801424A & 0011801424B) for outdoor unit. The PCB "0011801424A" is same as PCB "0011801424B" except model name only.
4. Adding an alt. main control PCB board (0011800722A) for indoor unit.
5. Adding alternative fuse, optocoupler and GDT which were marked in "**Bold**" in table 24.1.
6. Update standard to include "EN 60335-1:2012/A15:2021".

After reviewed, tests of Clause 6-8, 10, 11, 13, 19, 20-30 were performed on "TRK12INVDMEI (indoor unit) with TRK12INVDMEO (outdoor unit)" fixed with the new outdoor & indoor main control PCB boards. Clause 7.1 and Construction check (6-8 & 20-29) were checked on other new models. New standard "EN 60335-1:2012/A15:2021" was evaluated.

Amendment 2:

The original report ABUV-ESH-P21111264+A1 dated on 2021-11-30, 2022-05-11 was modified on 2022-05-11 to include the following changed, which were considered as technical modifications:

1. Adding new model "**AS09PHBHRA (indoor unit) with 1U09YERFRA (outdoor unit)**" and "**AS12PHBHRA (indoor unit) with 1U12YERFRA (outdoor unit)**", which were marked in "Bold" on page 2.

2. Adding new model "**CY-09TBIN (indoor unit) with CY-09TBOUT (outdoor unit)**" and "**CY-12TBIN (indoor unit) with CY-12TBOUT (outdoor unit)**", which were marked in "Bold" on page 2. "**CY-09TBIN (indoor unit) with CY-09TBOUT (outdoor unit)**" is identical with the original model "**AS09PHBHRA (indoor unit) with 1U09YERFRA (outdoor unit)**" except model name and trade mark only. "**CY-12TBIN (indoor unit) with CY-12TBOUT (outdoor unit)**" is identical with the original model "**AS12PHBHRA (indoor unit) with 1U12YERFRA (outdoor unit)**" except model name and trade mark.
 3. Adding new model "**AS25PHBHRA (indoor unit) with 1U25YERFRA (outdoor unit)**" and "**AS25RHBHRA (indoor unit) with 1U25YERFRA (outdoor unit)**", which were marked in "Bold" on page 2. They is identical with the original model "**AS09PHBHRA (indoor unit) with 1U09YERFRA (outdoor unit)**" except model name. Adding new model "**AS35PHBHRA (indoor unit) with 1U35YERFRA (outdoor unit)**" and "**AS35RHBHRA (indoor unit) with 1U35YERFRA (outdoor unit)**", which were marked in "Bold" on page 2. They is identical with the original model "**AS12PHBHRA (indoor unit) with 1U12YERFRA (outdoor unit)**" except model name.
 4. To add an alt. main control PCB board factory.
 5. To add new alternative indoor fan motor, WIFI module, PCB, relay and Y Capacitor which were marked in "**Bold**" in table 24.1
- Full test were performed on the samples of AS12PHBHRA (indoor unit) with 1U12YERFRA (outdoor unit). Clause 10, 11, 13, 19 and Construction check (6-8 & 20-29) were performed on model AS09PHBHRA (indoor unit) with 1U09YERFRA (outdoor unit). Construction check (6-8 & 20-29) were checked on other models. The products were found complying with the standards.
- Amendment 3:**
- The original report ABUV-ESH-P21111264+A1+A2 dated on 2021-11-30, 2022-05-11, 2022-08-31 was modified on 2023-03-06 to include the following changed, which were considered as technical modifications:
1. Adding new model "**AS25RHBHRA-TU (indoor unit) with 1U25YERFRA-TU (outdoor unit)**" and "**AS35RHBHRA-TU (indoor unit) with 1U35YERFRA-TU (outdoor unit)**", which were marked in "Bold" on page 2. "**AS25RHBHRA-TU (indoor unit) with 1U25YERFRA-TU (outdoor unit)**" is identical with the original model "**AS09PHBHRA (indoor unit) with 1U09YERFRA (outdoor unit)**" except model name and trade mark only. "**AS35RHBHRA-TU (indoor unit) with 1U35YERFRA-TU (outdoor unit)**" is identical with the original model "**AS12PHBHRA (indoor unit) with 1U12YERFRA (outdoor unit)**" except model name and trade mark.
 2. Add new alt. main control PCB board factory.
 3. Add new alternative terminal block and indoor fan motor capacitor which were marked in "**Bold**" in table 24.1.
- After technical evaluation, Cl. 7, Cl. 24 and Cl. 30 were checked.

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

7	MARKING AND INSTRUCTIONS		P
7.1	Rated voltage or voltage range (V)	220-240	P
	Symbol for nature of supply, or	~	P
	Rated frequency (Hz).....	50	P
	Rated power input (W), or	See marking plates	P
	Rated current (A)	See marking plates	P
	Manufacturer's or responsible vendor's name, trademark or identification mark.....	See marking plates	P
	Model or type reference	See marking plates	P
	Symbol IEC 60417-5172, for class II appliances		N/A
	IP number, other than IPX0.....	IPX4	P
	Symbol IEC 60417-5180, for class III appliances, unless		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	Class I appliance	N/A
	Symbol IEC 60417-5036, for the enclosure of electrically-operated water valves in external hose-sets for connection of an appliance to the water mains, if the working voltage exceeds extra-low voltage		N/A
	Mass of refrigerant or of each refrigerant in blend (except for azeotropic type) (IEC 60335-2-40).....	See marking plates	P
	Refrigerant identification (IEC 60335-2-40)	R32	P
	Permissible excessive operating pressure for sanitary hot water heat pumps (IEC 60335-2-40):.		N/A
	Maximum operating pressure for heat exchanger for hydronic fan coil/air handling units (IEC 60335-2-40/AMD2)		N/A
	Permissible excessive operating pressure of refrigerant circuit for suction and discharge, if they differ (IEC 60335-2-40)	See marking plates	P
	Symbol for degree of protection against ingress of water, other than IPX0 (IEC 60335-2-40).....	IPX4	P
	Separate marking of appliances with all rated characteristics of supplementary heaters (IEC 60335-2-40)		N/A
	Marking of direction of fluid flow (IEC 60335-2-40)	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/AMD1):		P

IEC 60335-2-40			
Clause	Requirement + Test	Result - Remark	Verdict
	- accessing parts expected to be subjected to maintenance or repair (IEC 60335-2-40/AMD1);		P
	- observing appliance under sale or installed conditions (IEC 60335-2-40/AMD1);		P
	- observing appliance packaging, if appliance charged with refrigerant (IEC 60335-2-40/AMD1).		P
	If flammable refrigerant used, symbols for "read operator's manual", "operator's manual; operating instructions" and "service indicator; read technical manual" (symbols 0790, 1641 and 1659 of ISO 7000) placed on appliance in location visible to persons required to know information. Perpendicular height be at least 10 mm (IEC 60335-2-40/AMD1/COR1)		P
	Additional warning symbol (flame symbol: B.3.2 of ISO 3864) placed on nameplate of unit near declaration of refrigerant type and charge information. Perpendicular height be at least 10 mm, and symbol need not be in colour (IEC 60335-2-40/AMD1)		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/AMD1)	Fixed appliances	N/A
	Not fixed appliances, minimum room size X specified on appliance. X in marking determined in m ² by procedure described in paragraph 2 of annex GG for unventilated areas and X in marking be 4 if refrigerant charge of appliance is less than m ₁ (see annex GG, paragraph 1.1) (IEC 60335-2-40/AMD1)		N/A
	Maximum allowable pressure for low-pressure side and high-pressure side marked on product (IEC 60335-2-40/AMD1)	Max. 4,3MPa	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/AMD1)		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	220-240V	P

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Clause	Requirement + Test	Result - Remark	Verdict
	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 to which the appliance is to be adjusted is determined from a wiring diagram		N/A
7.5	Appliances with more than one rated voltage or one or more rated voltage ranges, marked with rated input or rated current for each rated voltage or range, unless		N/A
	the power input is related to the arithmetic mean value of the rated voltage range		P
	Relation between marking for upper and lower limits of rated power input or rated current and voltage is clear		N/A
7.6	Correct symbols used		P
	Flammable refrigerant, warning symbol B.3.2 of ISO 3864, including colour and format, permanently placed on appliance. Perpendicular height of triangle containing "Caution, risk of fire" symbol be at least 30 mm (IEC 60335-2-40/AMD1)		P
	Flammable refrigerant, symbol requiring reference to manual [0790 of ISO 7000], including colour and format, permanently placed on appliance (IEC 60335-2-40/AMD1/COR1)		P
	Symbol for nature of supply placed next to rated voltage	~	P
	Symbol for class II appliances placed unlikely to be confused with other marking		N/A
	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:		P
	- marking of terminals exclusively for the neutral conductor (letter N)		P
	- marking of protective earthing terminals (symbol IEC 60417-5019)		P

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Clause	Requirement + Test	Result - Remark	Verdict
	- 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..... :	Patterns, letters and visual means used for the controller of indoor units	P
	This applies also to switches which are part of a control		N/A
	If figures are used, the off position indicated by the figure 0		N/A
	The figure 0 indicates only OFF position, unless no confusion with the OFF position		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)		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/AMD1)		P
	The instructions state that:		-
	- the appliance is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction	Replaced by EN 60335-1	N/A
	- children being supervised not to play with the appliance	Replaced by EN 60335-1	N/A
	For a part of class III construction supplied from a detachable power supply unit, the instructions state that the appliance is only to be used with the unit provided		N/A
	Instructions for class III appliances state that it must only be supplied at SELV, unless		N/A
	it is a battery-operated appliance, the battery being charged outside the appliance		N/A
	For appliances for altitudes exceeding 2000 m, the maximum altitude is stated :		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	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):		P
	- that the appliance shall be installed in accordance with national wiring regulations (IEC 60335-2-40);		P
	- the dimensions of the space necessary for correct installation of the appliance including the minimum permissible distance to adjacent structures (IEC 60335-2-40);		P
	- for appliances with supplementary heaters, the minimum clearance from the appliance to combustible surfaces (IEC 60335-2-40);		N/A
	- a wiring diagram with a clear indication of the connections and wiring to external control devices and supply cord (IEC 60335-2-40);		P
	- the range of external static pressures at which the appliance was tested (add-on heat pumps and appliances with supplementary heaters only) (IEC 60335-2-40);		N/A
	- the method of connection to the appliance to the electrical supply and interconnection of separate components (IEC 60335-2-40);		P
	- indication of which parts of the appliance are suitable for outdoor use, if applicable (IEC 60335-2-40);		P
	- details of type and rating of fuses (IEC 60335-2-40);		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);		N/A
	- maximum and minimum water or brine operating temperatures (IEC 60335-2-40);		N/A
	- maximum and minimum water or brine operating pressures (IEC 60335-2-40).		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Open storage tanks of heat pumps for water heating, accompanied by an instruction sheet which state that the vent shall not be obstructed (IEC 60335-2-40)		N/A
7.12.2	Stationary appliances not fitted with means for disconnection from the supply mains having a contact separation in all poles that provide full disconnection under overvoltage category III, the instructions state that means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules		P
7.12.3	Insulation of the fixed wiring in contact with parts exceeding 50 K during clause 11; instructions state that the fixed wiring must be protected		N/A
7.12.4	Instructions for built-in appliances:		N/A
	- dimensions of space		N/A
	- dimensions and position of supporting and fixing		N/A
	- minimum distances between parts and surrounding structure		N/A
	- minimum dimensions of ventilating openings and arrangement		N/A
	- connection to supply mains and interconnection of separate components		N/A
	- allow disconnection of the appliance after installation, by accessible plug or a switch in the fixed wiring, unless		N/A
	a switch complying with 24.3		N/A
7.12.5	Replacement cord instructions, type X attachment with a specially prepared cord		N/A
	Replacement cord instructions, type Y attachment		P
	Replacement cord instructions, type Z attachment		N/A
7.12.6	Caution in the instructions for appliances incorporating a non-self-resetting thermal cut-out that is reset by disconnection of the supply mains, if this cut-out is required to comply with the standard		N/A
7.12.7	Instructions for fixed appliances stating how the appliance is to be fixed		P
7.12.8	Instructions for appliances connected to the water mains:		-
	- max. inlet water pressure (Pa):		N/A
	- min. inlet water pressure, if necessary (Pa).....:		N/A
	Instructions concerning new and old hose-sets for appliances connected to the water mains by detachable hose-sets		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
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	Incorporated in the user manual	N/A
	They may follow the description of the appliance that identifies parts, or follow the drawings/sketches		P
	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 :	Available on the manufacturer's website	P
7.13	Instructions and other texts in an official language		P
7.14	Markings clearly legible and durable:		P
	Signal words WARNING, CAUTION, DANGER in uppercase having a height as specified :	In uppercase and 3,6mm	P
	Uppercase letter of the text explaining the signal word not smaller than 1,6 mm :	2,5mm	P
	Moulded in, engraved, or stamped markings either raised above or have a depth below the surface of at least 0,25 mm, unless		P
	contrasting colours are used		N/A
	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		N/A
	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

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Clause	Requirement + Test	Result - Remark	Verdict
	Marking on panel allowed, provided panel in place for intended operation of appliance (IEC 60335-2-40)		P
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):		P
	- fuse rated current in amperes, type and rated voltage or (IEC 60335-2-40)		P
	- manufacturer and model of overload protective device (IEC 60335-2-40)		N/A
7.102	Marking for connection with aluminium wire, if necessary (IEC 60335-2-40)		N/A
24	COMPONENTS		P
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		P
	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		P
	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

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Clause	Requirement + Test	Result - Remark	Verdict
	If components have not been tested and found to comply with relevant IEC standard for the number of cycles specified, they are tested in accordance with 24.1.1 to 24.1.9		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	No lampholder or starterholder	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	No plug	N/A
	Motor-compressors not tested according to IEC 60335-2-34 (not necessary to meet all requirements of IEC 60335-2-34) (IEC 60335-2-40)		N/A
24.1.1	Capacitors likely to be permanently subjected to the supply voltage and used for radio interference suppression or for voltage dividing, complying with IEC 60384-14		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 complying with IEC 61558-2-6		N/A
	If they have to be tested, they are tested according to annex G		P
24.1.3	Switches complying with IEC 61058-1, the number of cycles of operation being at least 10 000		N/A
	If they have to be tested, they are tested according to annex H		N/A
	If the switch operates a relay or contactor, the complete switching system is subjected to the test		N/A
	If the switch only operates a motor starting relay complying with IEC 60730-2-10 with the number of cycles of a least 10 000 as specified, the complete switching system need not be tested		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
24.1.4	Automatic controls complying with IEC 60730-1 with the relevant part 2. The number of cycles of operation being at least:		P
	- thermostats: 10 000		N/A
	- temperature limiters: 1 000		N/A
	- self-resetting thermal cut-outs: 3000		P
	- voltage maintained non-self-resetting thermal cut-outs: 1 000		N/A
	- other non-self-resetting thermal cut-outs: 300		N/A
	- timers: 3 000		N/A
	- energy regulators: 10 000		N/A
	- thermostats which control motor-compressor (IEC/EN 60335-2-40): 100 000		N/A
	- motor-compressor starting relays (IEC/EN 60335-2-40): 100 000	100000	P
	- automatic thermal motor-protectors for hermetic and semi-hermetic type motor-compressors (not less than number of operations during locked rotor test) (IEC/EN 60335-2-40): min 2000		N/A
	- manual reset thermal motor-protectors for hermetic and semi-hermetic type motor-compressors (IEC/EN 60335-2-40): 50		N/A
	- other automatic thermal motor-protectors (IEC/EN 60335-2-40): 2000		N/A
	- other manual reset thermal motor-protectors (IEC/EN 60335-2-40): 30		N/A
	The number of cycles for controls operating during clause 11 need not be declared, if the appliance meets the requirements of this standard when they are short-circuited		P
	Thermal motor protectors are tested in combination with their motor under the conditions specified in annex D		N/A
	For water valves containing live parts and that are incorporated in external hoses for connection of an appliance to the water mains, the degree of protection declared for subclause 6.5.2 of IEC 60730-2-8 is IPX7		N/A
	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 complying with IEC 60320-1		N/A
	However, for appliances classified higher than IPX0, the appliance couplers complying with IEC 60320-2-3		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Interconnection couplers complying with IEC 60320-2-2		N/A
24.1.6	Small lamp holders similar to E10 lampholders complying with IEC 60238, the requirements for E10 lampholders being applicable		N/A
24.1.7	For remote operation of the appliance via a telecommunication network, the relevant standard for the telecommunication interface circuitry in the appliance is IEC 62151		N/A
24.1.8	The relevant standard for thermal links is IEC 60691		N/A
	Thermal links not complying with IEC 60691 are considered to be an intentionally weak part for the purposes of clause 19		N/A
24.1.9	Contactors and relays, other than motor starting relays, tested as part of the appliance		P
	They are also tested in accordance with clause 17 of IEC 60730-1, the number of cycles of operations in 24.1.4 selected according to the contactor or relay function in the appliance	10 000 cycles	P
24.2	Appliances not fitted with:		P
	- switches or automatic controls in flexible cords		P
	- devices causing the protective device in the fixed wiring to operate in the event of a fault in the appliance		P
	- thermal cut-outs that can be reset by soldering, unless		P
	the solder has a melting point of at least 230 °C		N/A
24.3	Switches intended for all-pole disconnection of stationary appliances are directly connected to the supply terminals and have a contact separation in all poles, providing full disconnection under overvoltage category III conditions		N/A
24.4	Plugs and socket-outlets for extra-low voltage circuits and heating elements, not interchangeable with plugs and socket-outlets listed in IEC/TR 60083 or IEC 60906-1 or with connectors and appliance inlets complying with the standard sheets of IEC 60320-1		P
24.5	Capacitors in auxiliary windings of motors marked with their rated voltage and capacitance, and used accordingly	No motor capacitor	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

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Clause	Requirement + Test	Result - Remark	Verdict
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	No motor capacitor	N/A
	One or more of the following conditions are to be met:		N/A
	- the capacitors are of class P2 according to IEC 60252-1		N/A
	- the capacitors are housed within a metallic or ceramic enclosure		N/A
	- the distance of separation of the outer surface to adjacent non-metallic parts exceeds 50 mm		N/A
	- adjacent non-metallic parts within 50 mm withstand the needle-flame test of annex E		N/A
	- adjacent non-metallic parts within 50 mm classified as at least V-1 according to IEC 60695-11-10		N/A
24.101	Replaceable parts of thermal control devices identified by marking (IEC 60335-2-40)		N/A
30	RESISTANCE TO HEAT AND FIRE		P
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)	P

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Clause	Requirement + Test	Result - Remark	Verdict
	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)	P
30.2	Parts of non-metallic material resistant to ignition and spread of fire		P
	This requirement does not apply to:		N/A
	parts having a mass not exceeding 0,5 g, provided the cumulative effect is unlikely to propagate flames that originate inside the appliance by propagating flames from one part to another, or		N/A
	decorative trims, knobs and other parts unlikely to be ignited or to propagate flames that originate inside the appliance		N/A
	Compliance checked by the test of 30.2.1, and in addition:		P
	- for attended appliances, 30.2.2 applies		N/A
	- for unattended appliances, 30.2.3 applies		P
	For appliances for remote operation, 30.2.3 applies		P
	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 :		N/A
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

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Clause	Requirement + Test	Result - Remark	Verdict
	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		P
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		P
	Glow-wire applied to an interposed shielding material, if relevant		N/A
	However, the glow-wire test of 750 °C or 650 °C as appropriate, is not carried out on parts of material fulfilling both or either of the following classifications:		N/A
	- a glow-wire ignition temperature according to IEC 60695-2-13 of at least:		N/A
	- 775 °C, for connections carrying a current exceeding 0,2 A during normal operation		N/A
	- 675 °C, for other connections		N/A
	- a glow-wire flammability index according to IEC 60695-2-12 of at least:		N/A
	- 750 °C, for connections carrying a current exceeding 0,2 A during normal operation		N/A
	- 650 °C, for other connections		N/A
	The glow-wire test is also not carried out on small parts. These parts are to:		N/A
	- comprise material having a glow-wire ignition temperature of at least 775 °C or 675 °C as appropriate, or		N/A
	- comprise material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or		N/A
	- comply with the needle-flame test of annex E, or		N/A
	- 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:		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- parts that withstood the glow-wire test of IEC 60695-2-11 of 750 °C or 650 °C as appropriate, but produce a flame that persist longer than 2 s, or		N/A
	- parts that comprised material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or		N/A
	- small parts, that comprised material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or		N/A
	- small parts for which the needle-flame test of annex E was applied, or		N/A
	- small parts for which a material classification of V-0 or V-1 was applied		N/A
	However, the consequential needle-flame test is not carried out on non-metallic parts, including small parts, within the cylinder that are:		N/A
	- parts having a glow-wire ignition temperature of at least 775 °C or 675 °C as appropriate, or		N/A
	- parts comprising material classified as V-0 or V-1 according to IEC 60695-11-10, or		N/A
	- parts shielded by a flame barrier that meets the needle-flame test of annex E or that comprises material classified as V-0 or V-1 according to IEC 60695-11-10		N/A
30.2.4	Base material of printed circuit boards subjected to the needle-flame test of annex E	(see appended table 30.2/30.2.4)	N/A
	Test not applicable to conditions as specified..... :	V-0 for PCB material	P

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24.1	TABLE: Critical components information				P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity
Terminal block	Changzhou Changheng Kaidu Electric Products Co., Ltd	JXW/JX/JXG Series	600V; 4,0mm ²	EN 60998-1:2004 EN 60998-2-1:2004 EN 61210:2010	VDE 40042595 VDE 40020936
Alternative	Nantong Huaguan Electric Co., Ltd	JXW/JX/JXO Series	600V; 4,0mm ²	EN 60998-1:2004 EN 60998-2-1:2004 EN 61210:2010	VDE 40013197
Alternative	Zhenjiang Honglian Electrician Co., Ltd.	JX Series	600V; 4,0mm ²	EN 60998-1:2004 EN 60998-2-1:2004 EN 61210:2010	VDE 40044499
Alternative	Foshan Shunde Yuanfeng Metal Electrical Appliances Co., Ltd.	YF2004A YF Series	600V; 4,0mm ²	EN 60998-1:2004 EN 60998-2-1:2004 EN 61210:2010	TUV 50425702
Alternative	Nantong Huaguan Electric Co., Ltd.	JXW-3-U	600V 4mm²	EN 60998-1:2004 EN 60998-2-1:2004 EN 61210:2010	VDE 40013197
Alternative	Changzhou Kaidu Electrical Co., Ltd.	JXG-3C	600V 4mm²	EN 60998-1:2004 EN 60998-2-1:2004 EN 61210:2010	VDE 40042595
Alternative	FOSHAN SHUNDE YUANFENG METAL ELECTRICAL APPLIANCES CO., LTD.	YF2004A	600V 4mm²	EN 60998-1:2004 EN 60998-2-1:2004 EN 61210:2010	LVD19-8014
Power Cord	Weihai Honglin Electronic Co., Ltd.	H05VV-F	300/500V 3G 1,5 mm ² / 3G 1,0 mm ²	EN 50525-2-11: 2011	VDE 40022785
Alternative	Guangdong Huasheng Electrical Appliances Co., Ltd	H05VV-F	300/500V 3G 1,5 mm ² / 3G 1,0 mm ²	EN 50525-2-11: 2011	VDE 40005362
Alternative	Yangzhou Huasheng Electronics Industrial Co., Ltd.	H05VV-F	300/500V 3G 1,5 mm ² / 3G 1,0 mm ²	EN 50525-2-11: 2011	VDE 40033756
Alternative	Yuyao Shengshida Electronic Co., Ltd	H05VV-F	300/500V 3G 1,5 mm ² / 3G 1,0 mm ²	EN 50525-2-11: 2011	VDE 40034303
Alternative	Xinya Electronic Co., Ltd.	H05VV-F	300/500V 3G 1,5 mm ² / 3G 1,0 mm ²	EN 50525-2-11: 2011	VDE 40000965

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Alternative	SUZHOU TONGYUAN ELECTRIC WIRE & CABLE Co., Ltd.	H05VV-F	300/500V 3G 1,5 mm ² / 3G 1,0 mm ²	EN 50525-2-11: 2011	VDE 128253
Alternative	Tition Electric Wire Group Co., Ltd.	H05VV-F	300/500V 3G 1,5 mm ² / 3G 1,0 mm ²	EN 50525-2-11: 2011	VDE 40024131
Alternative	Shenzhen Tongyuan Industrial Co., Ltd.	H05VV-F	300/500V 3G 1,5 mm ² / 3G 1,0 mm ²	EN 50525-2-11: 2011	VDE 101980
Alternative	Qing Dao Riken Wire& Cable .,Ltd.	H05VV-F	300/500V 3G 1,5 mm ² / 3G 1,0 mm ²	EN 50525-2-11: 2011	VDE 132193
Interconnection Cord	Guangdong Rifeng Electrical Cable Co., Ltd.	H07RN-F	450/750V 4G 1.0 mm ² 4G 1.5mm ²	EN 50525-2-21: 2011	VDE 40015999
Alternative	Guangdong Huasheng Electrical Appliances Co., Ltd.	H07RN-F	450/750V 4G 1.0 mm ² 4G 1.5mm ²	EN 50525-2-21: 2011	VDE 40016788
Alternative	Yangzhou Huasheng Electronics Industrial Co., Ltd.	H07RN-F	450/750V 4G 1.0 mm ² 4G 1.5mm ²	EN 50525-2-21: 2011	VDE 40030537
Alternative	Weihai Honglin Electronic Co., Ltd.	H07RN-F	450/750V 4G 1.0 mm ² 4G 1.5mm ²	EN 50525-2-21: 2011	VDE 40031965
Internal wire	Hefei Deren Electronic Device Co., Ltd.	UL1015 UL3173	AWG12-30#	EN 60335-1 EN 60335-2-40	UL E338621+ Test with appliance
Alternative	Qingdao Riken Wire & Cable Co., Ltd	UL1015 UL3173	AWG12-30#	EN 60335-1 EN 60335-2-40	UL E212103 + Test with appliance
Alternative	CHINA LONSID ELECTRIC CO.,LTD.	UL1015 UL3173	AWG12-30#	EN 60335-1 EN 60335-2-40	UL E205056 + Test with Appliance
Alternative	Weihai Honglin Electronic Co., Ltd	UL1015 UL3173	AWG12-30#	EN 60335-1 EN 603 35-2-40	UL E239426 + Test with appliance
Alternative	Xinya Electronic Co., Ltd.	UL1015 UL3173	AWG12-30#	EN 60335-1 EN 60335-2-40	UL E170689 + Test with appliance
Alternative	TITION ELECTRIC WIRE GROUP CO.,LTD.	UL1015 UL3173	AWG12-30#	EN 60335-1 EN 60335-2-40	UL E216894 + Test with appliance
Alternative	ZHEJIANG YUEQING XINGDA ELECTRONICS WIRE&CABLE CO.,LTD.	UL1015 UL3173	AWG12-30#	EN 60335-1 EN 60335-2-40	UL E187208 + Test with appliance

IEC 60335-2-40					
Alternative	WENZHOU HU TAI ELECTRIC WIRE&CABLE CO.,LTD.	UL1015 UL3173	AWG12-30#	EN 60335-1 EN 60335-2-40	UL E238824 + Test with appliance
Alternative	LTK ELECTRIC WIRE (HUIZHOU) LTD	UL1015 UL3173	AWG12-30#	EN 60335-1 EN 60335-2-40	UL E148000 + test with appliance
Alternative	JIANGYIN JIANGZHOU COPPER PRODUCT CO LTD	UL1015 UL3173	AWG12-30#	EN 60335-1 EN 60335-2-40	UL E341212 + test with appliance
Alternative	ZHEJIANG LONDA ELECTRONIC WIRE & CABLE CO LTD	UL1015 UL3173	AWG12-30#	EN 60335-1 EN 60335-2-40	UL E205056 + test with appliance
Alternative	TAIZHOU RISHUN ELECTRIC APPLIANCE DEVELOPMENT CO LTD	UL1015 UL3173	AWG12-30#	EN 60335-1 EN 60335-2-40	UL E237675 + test with appliance
Alternative	SHENZHEN WOER HEAT-SHRINKABLE MATERIAL COLTD	UL1015 UL3173	AWG12-30#	EN 60335-1 EN 60335-2-40	UL E227566 + test with appliance
Alternative	LINOYA ELECTRONIC TECHNOLOGY CO., LTD.	UL1015 UL3173	AWG12-30#	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Dongguan Linoya Wire & Cable CO.,LTD.	UL1015 UL3173	AWG12-30#	EN 60335-1 EN 60335-2-40	Test with appliance
Critical component on outdoor unit					
Compressor for 09K	SHANGHAI HIGHLY ELECTRECAL APPLIANCES CO.,LTD	GSA725UKQH 6DU	178V, 600-7200r/min, R32 Class E, winding: 3,65Ω at 20°C	EN 60335-1 EN 60335-2-34	CB CNCVC0079 Report NO.: CVC001202 1-0133
Compressor for 12K	SHANGHAI HIGHLY ELECTRECAL APPLIANCES CO., LTD	GSD098CKQA 6JV6B	180V, 600-7200r/min, R32 Class B winding:2,38Ω at 20°C	EN 60335-1 EN 60335-2-40	Test with appliance
Outdoor fan motor	Wolong Electric (Ji nan) Motor Co., Ltd.	WZD-A01025L-01A	DC 310V, 25W, Class B	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	NIDEC SHIBAURA (Zhejiang) CORPORATION	SIC-54FM-F125-1	DC 310V, 25W, Class E	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Jeamo Motor Co., Ltd.	YMA040BL01S 7	DC 310V, 25W, Class B	EN 60335-1 EN 60335-2-40	Test with appliance

IEC 60335-2-40					
Alternative	ZHONGSHAN BROAD-OCEAN MOTOR CO., LTD.	ZW465A500014	DC 310V, 33W, Class E	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Hefei city Tongdeli electric manufacturing Co., Ltd.	T10WZ25-A01	DC 310V, 25W, Class E	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Hefei city Tongdeli electric manufacturing Co., Ltd.	T10WZ25-A03	DC310V,25W,Class E	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Jeamo Motor Co., Ltd.	YMA025BL01S7	DC310V,25W,Class B	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	ZHONGSHAN BROAD-OCEAN MOTOR CO., LTD.	ZW428A800003L	DC310V,25W,Class E	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	NIDEC SHIBAURA (Zhejiang) CORPORATION	SIC-54FH-F125-1	DC310V,25W,Class E	EN 60335-1 EN 60335-2-40	Test with appliance
4-way valve	Zhejiang Dun'an Artificial Environment Co., Ltd.	DSF(S)	AC220-240V 50/60Hz	EN 60730-1:2011	VDE 40013212
Alternative	Zhejiang Sanhua Intelligent Controls Co., Ltd.	SHF(G)-4H/SHF-4-10L3	AC220-240V 50/60Hz	EN 60730-1:2011	VDE 40048077
Reactor	DPC Nantong Co., Ltd.	DPC10550C-PR DPC10550A-PR	5mH, 10,5A, Class N	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Qingdao Yunlu Energy Technology Co., Ltd.	R1005HRB-1 R1005HRA	5mH, 10,5A, Class N	EN 60335-1 EN 60335-2-40	Test with appliance
Outdoor control PCB for 09K	Qingdao Haier Intelligent Electronics Co., Ltd.	0011801143T	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Hefei Huntkey Electronic Technology Co., LTD	0011801143T	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Shenzhen H&T Intelligent Control Co., Ltd.	0011801424A	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	COSMO IoT Technology Co., Ltd Qingdao Lingzhi Electronic Technology Co., Ltd.	0011801424A	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Qingdao H&T Intelligent Control Technology Co., Ltd.	0011801424A	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Qingdao Haier Intelligent Electronics Co., Ltd.	0011801424A	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance

IEC 60335-2-40					
Alternative	Chearihi (Anhui) Technology Co.,Ltd	0011801424A	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Ruking Emerson Climate Technologies (Shanghai) Co., Ltd.	0011801424A	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Guangdong Shangyan Electronic Technology Co., Ltd.	0011801424A	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Hefei Huntkey Electronic Technology Co., Ltd.	0011801424A	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Outdoor control PCB 12K	Qingdao Haier Intelligent Electronics Co., Ltd.	0011801143U	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Hefei Huntkey Electronic Technology Co., LTD	0011801143U	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Shenzhen H&T Intelligent Control Co., Ltd.	0011801424B	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	COSMO AIoT Technology Co., Ltd Qingdao Lingzhi Electronic Technology Co., Ltd.	0011801424B	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Qingdao H&T Intelligent Control Technology Co., Ltd.	0011801424B	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Qingdao Haier Intelligent Electronics Co., Ltd.	0011801424B	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Chearihi (Anhui) Technology Co.,Ltd	0011801424B	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Ruking Emerson Climate Technologies (Shanghai) Co., Ltd.	0011801424B	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Guangdong Shangyan Electronic Technology Co., Ltd.	0011801424B	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Hefei Huntkey Electronic Technology Co., Ltd.	0011801424B	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Critical component on indoor unit					
Indoor fan motor	Zhongshan Broad-Ocean Motor Co., Ltd.	Y4S476A38	220-230V; 50/60Hz; 11W; Class E;	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Wolong Electric (Jinan) Motor Co., Ltd	KSFD-15A	220-230V; 50/60Hz; 11W; Class E;	EN 60335-1 EN 60335-2-40	Test with appliance

IEC 60335-2-40					
Alternative	Foshan Lepuda Motor Co., Ltd.	RPG11-13	220-230V; 50/60Hz; 11W; Class E;	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Hefei city Tongdeli electric manufacturing Co., Ltd.	RPG11A-1	220-230V; 50/60Hz; 11W; Class E;	EN 60335-1 EN 60335-2-40	Test with appliance
Indoor Motor protector	JIANGSU CHANGSHENG ELECTRIC APPLIANCE CO., LTD.	BR-B5D	AC250V/6A, 110±5°C	EN 60730-1:2016 EN 60730-2-2:2002+A1:2006 +A11:2005	VDE 40015984
Alternative	JIANGSU CHANGSHENG ELECTRIC APPLIANCE CO., LTD.	BR-B5D	AC250V/6A, 110±5°C	EN 60730-1:2016 EN 60730-2-2:2002+A1:2006 +A11:2005	VDE 40040873
Alternative	JIANGSU CHANGSHENG ELECTRIC APPLIANCE CO., LTD.	BR-B3D	AC250V/5A, 110±5°C	EN 60730-1:2016 EN 60730-2-2:2002+A1:2006 +A11:2005	VDE 40040873
Alternative	JIANGSU CHANGSHENG ELECTRIC APPLIANCE CO., LTD.	BR-A2D	AC250V/6A, 110±5°C	EN 60730-1:2016 EN 60730-2-2:2002+A1:2006 +A11:2005	VDE 40040873
Alternative	FOSHAN CHANGHONG TONGLI ELECTRIC APPLIANCE CO., LTD.	KW-C2	AC250V/8A, 110±5°C	EN 60730-1:2016 EN 60730-2-2:2002+A1:2006 +A11:2005	VDE 40020906
Step motor for AS09THRHR A& AS12THRHR A	Changzhou Leili Electronics Co., Ltd.	28BYJ48	12V DC, Class E	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Jiangsu Huayang Intelligent Equipment Co., Ltd.	28BYJ48	12V DC, Class E	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Changzhou Oukai Electric Co., Ltd.	28BYJ48	12V DC, Class E	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Hefei Huilipu motor Co., Ltd.	28BYJ48	12V DC, Class E	EN 60335-1 EN 60335-2-40	Test with appliance
Setp motor for AS09PHBHR A& AS25RHBHR A-TU &AS12PHBH RA& AS35RHBHR A-TU	Changzhou Leili Electronics Co., Ltd.	24BYJ48	12V DC, Class E	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Jiangsu Huayang Intelligent Equipment Co., Ltd.	24BYJ48	12V DC, Class E	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Changzhou Oukai Electric Co., Ltd.	24BYJ48	12V DC, Class E	EN 60335-1 EN 60335-2-40	Test with appliance

IEC 60335-2-40					
Alternative	Hefei Huilipu motor Co., Ltd.	24BYJ48	12V DC, Class E	EN 60335-1 EN 60335-2-40	Test with appliance
Indoor control PCB for AS09THRHR A& AS12THRHR A	Qingdao Haier Intelligent Electronics Co., Ltd.	0011800722A	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Shenzhen H&T Intelligent Control Co., Ltd.	0011800722A	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	COSMO AIoT Technology Co., Ltd Qingdao Lingzhi Electronic Technology Co., Ltd.	0011800722A	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Qingdao H&T Intelligent Control Technology Co., Ltd.	0011800722A	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Chearihi (Anhui) Technology Co.,Ltd	0011800722A	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Ruking Emerson Climate Technologies (Shanghai) Co., Ltd.	0011800722A	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Guangdong Shangyan Electronic Technology Co., Ltd.	0011800722A	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Hefei Huntkey Electronic Technology Co., Ltd.	0011800722A	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Indoor control PCB for AS09PHBHR A& AS25RHBHR A-TU & AS12PHBHR A& AS35RHBHR A-TU	Shenzhen H&T Intelligent Control Co., Ltd.	0011800977K	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	COSMO AIoT Technology Co., Ltd Qingdao Lingzhi Electronic Technology Co., Ltd.	0011800977K	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Qingdao H&T Intelligent Control Technology Co., Ltd.	0011800977K	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance

IEC 60335-2-40					
Alternative	Qingdao Haier Intelligent Electronics Co., Ltd.	0011800977K	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Chearihi (Anhui) Technology Co.,Ltd	0011800977K	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Ruking Emerson Climate Technologies (Shanghai) Co., Ltd.	0011800977K	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Guangdong Shangyan Electronic Technology Co., Ltd.	0011800977K	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Hefei Huntkey Electronic Technology Co., Ltd.	0011800977K	AC 220-240V; 50Hz	EN 60335-1 EN 60335-2-40	Test with appliance
WIFI module	HANGZHOU TUYA INFORMATION TECHNOLOGY CO., LTD	HEWRQU1	DC 5V	EN 300 328 EN 301 489 EN 62311 EN 62368	TUV SUD CE No. T8A 104731 0037
Alternative	JiangSuFulian Communication Technology Co., Ltd.	ESP32-for-Haier	DC 5V	EN 300 328 EN 301 489 EN 62311 EN 62368	SGS CE No.SHEM20 0500402601 CRC
Alternative	Qingdao Haier Intelligent Home Appliance Technology Co., Ltd.	MK-QTWIFI-04(B)	5VDC; 300mA	IEC 60950-1 IEC 62311 IEC 60335-2-40	Test with appliance & 170418001E MC-1, 170418001R FC-1, 170418001R FC-2, 1611290530 SAF-1
Alternative	Qingdao Haier Technology Co., Ltd.	MK-QTWIFI-04(B)	5VDC; 300Ma	IEC 60950-1 IEC 62311 IEC 60335-2-40	Test with appliance & 171204006 171204006R FC-1, 171204006R FC-2, 171204006E MC-1, 171204006S AF-1
Critical component on control PCB					
PCB	HT Circuits (Qingdao) Co., Ltd.	1094V0/1194V0/1194V0G/1194V0Z/1294V0/1494V0/1494V0G/2694V0/A894V0/894V0G/1594V0/2894V0	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance &UL E56334

IEC 60335-2-40					
Alternative	Changzhou Haihong Electronics Co., Ltd.	HH-1/CCE-VO/HDCEM1/HDFR1	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance &UL E166702
Alternative	Kunshan Huaxin Circuit Board Co., Ltd.	HXF-S/HX-SA	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance &UL E227809
Alternative	NIPPON(BOLUO)EL ELECTRONICS Co., Ltd.	Q2-3/D2/KB-6160/KB-6160C	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance &UL E56327
Alternative	Changzhou Aohong Electronics Co., Ltd.	AOH-2/AOH-3/AOH-4	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance &UL E303981
Alternative	HUIZHOU GLORYSKY ELECTRONICS CO., LTD.	GS-001 ,GS-004,TC-1,GS*, GS-D1	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance &UL E257384
Alternative	Jiangxi Xusheng Electronics Co	PWB Type XS-M, XS-D	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance &UL E503744
Alternative	Changzhou Haihong Electronics Co., Ltd.	KB-6160/KB-6160C	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance &UL E166702
Alternative	HT Circuits (Qingdao) Co., Ltd.	KB-6160/S1141/S1600	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance &UL E56334
Alternative	TEAN ELECTRONIC (DA YA BAY) CO.,LTD.	KB6160C/KB6160/ S1600	1.6mm, V-0	UL796	E358874
Alternative	Shengyi Technology Co., Ltd.	S1600	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance &UL E234156
Alternative	HUIZHOU XINGZHIGUANG TECHNOLOGY CO., LTD	XZG-P1/XZG-P2/XZG-P3	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance &UL E246887
Alternative	RONGHUI ELECTRONICS(HUIZHOU) CO., LTD.	RH-3	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance &UL E252098
Alternative	Aoshikang Technology Co., Ltd	K-3	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance &UL E239218
Alternative	Jiangxi XuSheng Electronics Co., Ltd	XS-D/XS-M	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance &UL E503744
Alternative	LongNan Champion Asia Precision Circuit Co., Ltd	C1 C2 C3 F-H F-M H1 H2 M1 M2 F-M2 D1 D2 D3 F-D F-D1 F-D2	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance &UL E342828

IEC 60335-2-40					
Alternative	INNO CIRCUITS LIMITED	IQE-D1/IQE-D2/IQE-D3	1,6mm, V-0	EN 60335-1 EN 60335-2-40	Test with appliance &UL E365781
Alternative	Shenzhen Sun&Lynn Circuits Co.,Ltd.	SL-D	1,6mm, V-0	UL796	E234156
Alternative	SHANTOU FENGLIDA ELECTRONICS TECHNOLOGY CO.,LTD.	FLD-04, KB-6160/KB-6160C , FLD-02	1,6mm, V-0	UL796	E347210
Alternative	KUNSHAN JINPENG ELECTRONICS CO.,LTD.	JP-2	1,6mm, V-0	UL796	E306084
Alternative	ANHUI JUKANG ELECTRONICS CO.,LTD.	JK-2	1,6mm, V-0	UL796	E472363
Alternative	KUNSHAN DAYANG PRINTED CIRCUIT BOARD CO.,LTD.	DY-M	1,6mm, V-0	UL796	E360224
Alternative	KUNSHAN YIMAI CIRCUIT BOARD MFR CO.,LTD.	YM-M	1,6mm, V-0	UL796	E209202
Alternative	Jiangsu H-Fast Electronic Co.,Ltd.	211004	1,6mm, V-0	UL796	E507530
Alternative	SHENZHEN KECHENGDA TECHNOLOGY CORP LTD	KD-002	1,6mm, V-0	UL796	E498693
Alternative	Jiangxi Ronghui Electronics Co., LTD	RH-4 RH-4HF RH-1 RH-2 RH-3 RH-3HF	1.6mm, V-0	UL796	E252098
Alternative	Jiangsu Zhong xin hua Electronic Technology Co., Ltd.	ZXHPCB-D	1.6mm, V-0	UL796	E505746
Alternative	DONG GUAN NEW ENERGY PRINTED CIRCUIT B	NE1000B, NE2000, NE6000, NE5000A, NE5000, NE3000, NE1000A, NE1000, NE4000	1.6mm, V-0	UL796	E206420
Alternative	JIANGXI XINGHAIRONG CIRCUIT BOARD CO LTD	XHR-01, XHR-M01A, XHR-03, XHR-03A, XHR-01A, XHR-M01, XHR-02 (ASP 1)	1.6mm, V-0	UL796	E495648

IEC 60335-2-40					
Relay 1	Xiamen Hongfa Electroacoustics Co., Ltd.	HF102F/12VDC (310)(335)	AC 250V DC12V 10E4 20A 40T85	EN 61810-1:2015 EN 60079-0:2012 EN 60079-15:2010	VDE 40024142 TUV AK 64.105.16.0 0159.01
Alternative	Shanghai Song Chuan Precision Electron Co.,Ltd.	891WP-1A-S	AC 250V DC12V 10E4 20A 30T70	EN 60255-23 EN 61810-1 EN 61810-5	R50003966
Alternative	Tyco Electronics (Shenzhen) Co., Ltd.	PCF-112D2M	AC 250V DC12V 10E4 20A 40T85	EN 61810-1	VDE 40012548
Alternative	Zhejiang Meishuo Electric Technology Co., Ltd.	MPY-S-112-A	AC 250V DC12V 10E4 20A 40T105	EN 61810-1:2015 EN 60079-0:2012 EN 60079-15:2010	TUV AK 50410083 TUV AK 50410083
Alternative	Xiamen Hongfa Electroacoustics Co., Ltd.	HF161F/12-H(310)(335)	AC 250V DC12V 10E4 20A 40T85	EN 61810-1:2015 EN 60079-0:2012 EN 60079-15:2010	VDE 40031410 TUV SUD 64.105.15.0 5241.01
Alternative	Shanghai Song Chuan Precision Electron Co.,Ltd.	891P-1A-S	AC 250V DC12V 10E4 20A 40T85	EN 60255-23 EN 61810-1 EN 61810-5	R50003966
Alternative	Zhejiang Meishuo Electric Technology Co., Ltd.	MPY-S-112-A-P	AC 250V DC12V 10E4 20A 40T105	EN 61810-1:2015 EN 60079-0:2012 EN 60079-15:2010	TUV R 50204088 TUV AK 50410083
Alternative	WangRong Electronics (Shenzhen) Co. Ltd.	RF Serie(s) RFL Serie(s)	AC250V/277V; DC12V; 10E4; 20A; 40T85	EN 61810-1:2015 EN 60079-15:2010	TUV R 50194013 TUV SUD 105370 0002
Alternative	Sanyou Corporation Limited	SFK-112DMP-F	AC 250V DC12V 10E4 20A 40T85	EN 61810-1 IEC 60079-15	R 50138321 AK 50464382 0001
Relay 2	Xiamen Hongfa Electroacoustics Co., Ltd.	HF33F/012-HSL(310)(335)	AC 250V DC12V 10E4 5A 40T85	EN 61810-1:2015 EN 60079-0:2012 EN 60079-15:2010	VDE 125661 TUV SUD 64.100.15.0 4554.01
Alternative	Tyco Electronics (Shenzhen) Co., Ltd.	OJE-SH-112DM	AC 250V DC12V 10E4 5A 40T85	EN 61810-1:2015 EN 60079-0:2012 EN 60079-15:2010	VDE 40007630 TUV AK 50439949
Alternative	Wangrong Electronics (Shenzhen) Co., Ltd.	RJ-SS-112DM-S	250VAC; DC12V; 10E4; 5A; T85	EN 61810-1:2008 EN 60079-15:2010	TUV R 50222701 TUV SUD 1053700004

IEC 60335-2-40					
Alternative	Xiamen Hongfa Electroacoustic Co., Ltd	HF32F-G	AC 250VAC; DC12V; 10E4; 5A; 40T105	EN 61810-1:2015 IEC 60079-15	VDE 40012204 TUV 64.105.16.02325.01
Alternative	Sanyou Corporation Limited	SJ-SH-112DM2(Ex)	AC250V,DC12V, 10E4 5A 40T105	EN 60255-23 EN 61810-1 EN 61810-5 EN 61810-1:2015 IEC 60079-15	VDE 40002146 CNEx19.543 4U
Alternative	Xiamen Hongfa Electroacoustics Co., Ltd.	HF32F/012-HS(310)(335)	AC 250V DC12V 10E4 5A 40T70	EN 61810-1:2015 EN 60079-0:2012 EN 60079-15:2010	VDE 40012204 64.105.16.02325.01
Alternative	Zhejiang Meishuo Electric Technology Co., Ltd.	MPD-S-112-A	AC 250V DC12V 10E4 5A 40T105	EN 61810-1:2015 EN 60079-0:2012 EN 60079-15:2010	TUV R 50184948 AK 50396767
Alternative	Shanghai Song Chuan Precision Electron Co.,Ltd.	307-1AH-V/H/S-307-1AH-F-C/V/S	AC 250V DC12V 10E4 5A 40T85	EN 61810-1	VDE 40028236
Indoor transformer	Qingdao Jingshi Electronic Co., Ltd.	DB-41KO	Input: 220V-230V~, 50/60Hz Output :DC 10.5V Class B	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Shenzhen Sanma Electric Appliance Co., Ltd.	DB41	Input: 220V-230V~, 50/60Hz Output :DC 10.5V Class B	EN 60335-1 EN 60335-2-40	Test with appliance
Alternative	Dongguan Dazhong Electronic Co., Ltd.	EI41PTC-061-1	Input: 220V-230V~, 50/60Hz Output :DC 11V Class B	EN 60335-1 EN 60335-2-40	Test with appliance
Transformer for outdoor PCB	Qingdao Jingshi Electronic Co., Ltd.	BK-19-0006	Input: AC 90-264V~, 50/60Hz Output :DC 7V;12V Class B	EN 61558-1:2005 EN 61558-2-16:2009	VDE 40037839
Alternative	Dezhou Sanhe Electric Co., Ltd.	SANHE-19-272	Input: AC 90-245V~, 50/60Hz Output :DC 7V;12V Class B	EN 61558-1:2005 EN 61558-2-16:2009	VDE 40029326
Alternative	Wuxi Derun Electron Co., Ltd.	DC26-00067A	Input: AC 85-240V~, 50/60Hz Output :DC 7V;12V Class B	EN 61558-1:2005 EN 61558-2-16:2009	TUV SUD B161086890 003
Alternative	Jiangsu Taichang Electronics Co., Ltd.	BCK-EE19-02919	Input: AC 90-264V~, 50/60Hz Output :DC 7V;12V Class B	EN 61558-1:2005 EN 61558-2-16:2009	VDE 40042740

IEC 60335-2-40					
Fuse on PCB (Indoor)	Suzhou Littelfuse OVS Ltd.	215 Series	T3.15A, 250V	EN 60127-1:2006+A1+A2 EN 60127-2:2014	VDE 40013521
Alternative	Sun Electric Co.	5H	T3.15A, 250V	EN 60127-1:2006+A1+A2 EN 60127-2:2014	TUV J 50220933
Alternative	Dongguan Better Electronic Technology Co., Ltd.	524	T3.15A, 250V	EN 60127-1:2006+A1+A2 EN 60127-2:2014	VDE 40025424
Alternative	Suzhou Walter Electronic Co., Ltd.	TSC	T3.15A, 250V	EN 60127-1:2006+A1+A2 EN 60127-2:2014	VDE 40016670
Fuse on PCB (Outdoor)	Sun Electric Co.	6HP/6SP/6EP	T25A 20A, 250V	EN 60335-1 EN 60335-2-40	Test with appliance &UL E166522
Alternative	CHI LICK SCHURTER LTD	SUT 6.3x32 Series	T25A 20A, 250V	EN 60335-1 EN 60335-2-40	Test with appliance &UL E184831
Alternative	Dongguan Better Electronic Technology Co., Ltd.	614	T25A 20A, 250V	EN 60335-1 EN 60335-2-40	Test with appliance &UL E300003
Alternative	Dongguan Cooper Electronics Co., Ltd.	612	T25A 20A, 250V	EN 60127-1:2006+A1+A2 EN 60127-2:2014	VDE 400122052
Alternative	Suzhou Walter Electronic Co., Ltd.	MTP	T25A 20A, 250V	EN 60127-1:2006+A1+A2 EN 60127-2:2014	TUV J 50305728
Alternative	Suzhou Littelfuse OVS Ltd.	325/326 Series	T25A 20A, 250V	EN 60335-1 EN 60335-2-40	Test with appliance &UL E10480
Alternative	CONQUER ELECTRONICS CO., LTD.	MST Series	T1A or 3.15A, 250V	EN 60127-1:2006+A1+A2 EN 60127-2:2014	TUV R 50176525
Alternative	DongGuan Better Electronic Co., Ltd.	932 Series	T1A or 3.15A, 250V	EN 60127-1:2006+A1+A2 EN 60127-2:2014	VDE 40033369
Alternative	Suzhou Littelfuse OVS Ltd.	392 Series	T1A or 3.15A, 250V	EN 60127-1:2006+A1+A2 EN 60127-2:2014	VDE 126983
Alternative	Walter Electronic Co., Ltd.	2010 Series	T1A or 3.15A, 250V	EN 60127-1:2006+A1+A2 EN 60127-2:2014	TÜV R 50305728
IPM module	Onsemi Semiconductor	FNA41560T2	600V, 15A	EN 60335-1 EN 60335-2-40	Test with appliance

IEC 60335-2-40					
Alternative	Mitsubishi Semiconductors	SLIMDIP-L	600V, 15A	EN 60335-1 EN 60335-2-40	Test with appliance
Optocoupler	Sharp Corporation Electronic Components Group	PC817	890V peak; T110; Cr. & Cl.=6,4mm	EN 60747-5-5: 2011+A1:2015	VDE 0008087
Alternative	Sharp Corporation Electronic Components Group	PC851	890V peak; T110; Cr. & Cl.=6,4mm	EN 60747-5-5: 2011+A1:2015	VDE 0008087
Alternative	Lite-on Technology Corporation	LTV-817	890V peak; T115; Cr.&Cl.>=7,0mm	EN 60747-5-5: 2011+A1:2015	VDE 40015248
Alternative	Lite-on Technology Corporation	LTV-851	890V peak; T115; Cr.&Cl.>=7,0mm	EN 60747-5-5: 2011+A1:2015	VDE 40015248
Alternative	Everlight Electronics Co., Ltd.	EL817 EL851	850V peak; T110; Cr. & Cl.>=7,6mm	EN 60747-5-5: 2011+A1:2015	VDE 132249
Alternative	Toshiba Electronic Devices & Storage Corporation	TLP628	890V peak; T100; Cr. & Cl.>=7,0mm	EN 60747-5-5: 2011+A1:2015	VDE 40009302
Alternative	Toshiba Corp	TLP388	1230V peak; T125; Cr. & Cl.>=8,0mm	EN 60747-5-5: 2011+A1:2015	VDE 40040216
Alternative	Toshiba Electronic Devices & Storage Corporation	TLP388	1230V peak; T125; Cr. & Cl.>=8,0mm	EN 60747-5-5: 2011	VDE 40040216
Alternative	Shenzhen Orient Components Co. Ltd.	ORPC-817	850V peak; T110; Cr. & Cl.>=7,6mm	EN 60747-5-5	VDE 40029733
Alternative	Shenzhen Orient Components Co. Ltd.	ORPC-851	850V peak; T100; Cr. & Cl.>=7,6mm	EN 60747-5-5	VDE 40029733
Alternative	Toshiba Electronic Devices & Storage Corporation	TLP351	890V peak; T85; Cr.&Cl.>=7,0mm	EN 60747-5-5	VDE 40011913
Alternative	Fairchild Semiconductor Pte Ltd	FOD3150	890V peak; T110; Cr. & Cl.>=7,0mm	EN 60747-5-5	VDE 40018398
Alternative	Lite-On Technology Corporation	LTV-3150	1140V peak; T115; Cr. & Cl.>=7,0mm	EN 60747-5-5	VDE 40027788
Alternative	Toshiba Electronic Devices & Storage Corporation	TLP251	890V peak; T85; Cr.&Cl.>=7,0mm	EN 60747-5-5	VDE 40011913
Alternative	Sharp Corporation Electronic Components Group	PC725V	890V peak; T100; Cr.&Cl.>=6,4mm	EN 60747-5-5	VDE 40008189
Optocoupler thyristor	Panasonic Corporation	AQH2223	600V peak; T85; Cr.&Cl.>=7,0mm	EN 62368-1:2014	VDE 40004928
Alternative	Fairchild Semiconductor Pte Ltd	MOC3051	850V peak; T100; Cr.&Cl.>=7,0mm	EN 60747-5-5: 2011+A1:2015	VDE 102497
Alternative	Lite-on Technology Corporation	MOC3052	890V peak; T115; Cr.&Cl.>=7,0mm	EN 60747-5-5: 2011+A1:2015	VDE 40015248
Alternative	Sharp Corporation Electronic Components Group	R3BMF5	890V peak; T100; Cr.&Cl.>=6,4mm	EN 60747-5-5: 2011+A1:2015	VDE 40008898
PTC	Xiaogan Huagong Gaoli Electronic Co., Ltd.	MZ8IV-B470M	250VAC; 47Ω(25°C); I _{max} 10A	EN 60738-1 EN 60738-1-1 EN 60730-1 EN 60730-2-10	TUV R 50176237

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Alternative	ShenZhen AMPRON Technology co., Ltd.	MZ3247R	250VAC; 47Ω(25°C); I _{max} 10A	EN 60738-1 EN 60738-1-1	TUV R 50187698
Alternative	MURATA MFG CO., LTD.	PTGL14AS470 H0D76AZ	250VAC; 47Ω(25°C); I _{max} 10A	EN 60335-1 EN 60335-2-40	Test with appliance &UL E137188
Indoor fan motor capacitor	Xiamen Faratronic Co., Ltd.	C6G or CBB61-S3	AC 450V 40/85/21/B, S3, 1,2uF	EN 60252-1: 2011 + A1:2013	VDE 40043589
Alternative	Foshan Shunde Fongming Electronic Tech. Co., Ltd.	CBB61or CBB61-P2	AC 450V 40/70/21/B, S3, 1,2uF	EN 60252-1: 2011 + A1:2013	VDE 40006835
Alternative	Nistronics (JiangXi) Co., Ltd.	MKM	AC 450V 40/70/21/B, S3, 1,2uF	EN 60252-1: 2011 + A1:2013	TUV R50391430
Alternative	Guangdong Fengming Electronic Tech.Co.,Ltd.	CBB61-P2/CBB61	AC 450V 40/70/21 or 40/85/21,B ,S3 1.2μF	EN 60252-1: 2011	VDE 40044992
GDT	OKAYA ELECTRIC INDUSTRIES CO LTD	RA-362MX-V7-Y5-HIS	3600V	EN 60335-1 EN 60335-2-40 UL1449	Test with appliance &UL E322107
Alternative	TDK Electronics	B88069X3813A 103 B88069X4241S 102	3600V	EN 60335-1 EN 60335-2-40 UL1449	Test with appliance &UL E319264
Alternative	Shenzhen Bencent Electronics Co., Ltd.	B5G3600-G	3600V	EN 60335-1 EN 60335-2-40 UL1449	Test with appliance &UL E337906
Varistor	TDK Electronics GmbH & Co OG	S14K385K1	620V, 40T125	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 40027582
Alternative	Thinking Electronic Industrial Co., Ltd.	TVR14621V	620V, 40T85	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 005944
Alternative	Thinking Electronic Industrial Co., Ltd.	TVR14621	620V, 40T85	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 005944
Alternative	Chengdu Tieda Electronics Corporation	MYN15-621KM	620V, 40T85	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 40045597
Alternative	Chengdu Tieda Electronics Corporation	14KAC385MS	620V, 40T125	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 40045597
Y Capacitor	Capatronics Electronics (Kunshan) Co., Ltd.	Y5P/Y5V/Y5U	AC 250V, 20/125/21/C, Y2, 4700pF, 10000pF	EN 60384-14: 2013/A1:2016	VDE 40013317
Alternative	TDK Corporation	CS	AC 250V, 25/125/21/B, Y2, 4700pF, 10000pF	EN 60384-14: 2013/A1:2016	VDE 40029781
Alternative	TDK Corporation	CD	AC 250V, 25/125/21/B, Y1, 2200pF, 4700pF	EN 60384-14	VDE 40017931

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Alternative	Murata Mfg. Co., Ltd.	KY	AC 250V, 40/125/21/C, Y2, 4700pF, 10000pF	EN 60384-14: 2013/A1:2016	VDE 40006273
Alternative	Murata Mfg. Co., Ltd.	KX	AC 250V, 40/125/21/B, Y2, 4700pF, 10000pF	EN 60384-14: 2013/A1:2016	VDE 40002831
Alternative	Yinan Don's Electronic Component Co., Ltd.	CT81	AC 250V, 25/125/21/C, Y2/Y1 4700pF, 10000pF	EN 60384-14: 2013/A1:2016	VDE 135256
Alternative	Guangdong Fenghua Advanced Technology Holding CO., LTD.	CT7	AC 250V, 25/125/21/C, Y2, 4700pF, 10000pF	EN 60384-14: 2013/A1:2016	VDE 40013869
Alternative	Walsin Technology Corp.	AC	AC 250V, 40/125/21/C, Y2, 4700pF, 10000pF	EN 60384-14: 2013/A1:2016	VDE 40001829
Alternative	Walsin Technology Corp.	AH	AC 250V, 40/125/21/B, Y2, 4700pF, 10000pF	EN 60384-14: 2013/A1:2016	VDE 40001804
Alternative	Shantou High-New Technology Dev. Zone Songtian Enterprise Co., Ltd.	CE	AC 250V, 40/125/21/B, Y2, 4700pF, 10000pF	EN 60384-14: 2013/A1:2016	VDE 40025748
X2 Capacitor	Xiamen Faratronic Co., Ltd.	MKP62	AC275V or AC305V; 40/110/56/B; 0,01μF, 0,1μF;- indoor 1μF; 0,01μF;- outdoor	EN 60384-14: 2013/A1:2016	VDE 40000358
Alternative	Xiamen Faratronic Co., Ltd.	MKP61	AC305V or AC275V; 40/110/56/B; 0,01μF, 0,1μF;- indoor 1μF; 0,01μF;- outdoor	EN 60384-14: 2013/A1:2016	VDE 40007424
Alternative	Nistronics (Jiangxi) Co., Ltd.	MPR	AC275V or AC310V; 40/110/56/B; or 40/100/21/B; 0,1μF; 0,01μF;- indoor 1μF; 0,01μF;- outdoor	EN 60384-14: 2013/A1:2016	VDE 40032056
Alternative	TDK (Zhuhai FTZ) Co., Ltd.	B3292 Series	AC 305V, 40/105/56/B, 0,1μF; 0,01μF;- indoor 1μF; 0,01μF;- outdoor	EN 60384-14: 2013/A1:2016	VDE 40010694
Alternative	Guangdong Fengming Electronic Tech. Co., Ltd.	MKP-X2	AC 275V, 40/105/21/C, or 40/110/56/B 0,1μF; 0,01μF;- indoor 1μF; 0,01μF;- outdoor	EN 60384-14: 2013/A1:2016	VDE 40025702

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Alternative	Ultra Tech Xiphi Enterprise Co., Ltd.	HQX	AC 275V, 40/110/56/B, 0,1μF; 0,01μF;- indoor 1μF; 0,01μF;- outdoor	EN 60384-14: 2013/A1:2016	VDE 40024534
Alternative	JIMSON ELECTRONICS (XIAMEN) CO., LTD.	MKP	AC 275V, 40/100/21/B, 0,1μF; 0,01μF;- indoor 1μF; 0,01μF;- outdoor	EN 60384-14: 2013/A1:2016	VDE 40000463

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)	
Terminal block JXW-3-U		--	125	1,5	
Terminal block JXG-3C		--	125	1,0	
Terminal block YF2004A		--	125	1,8	
Supplementary information: --					

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		
Terminal block JXW-3- U	--				X	X	X	P
Terminal block JXG-3C	--				X	X	X	P
Terminal block YF2004A	--				X	X	X	P
Object/ Part No./ Material	Manufactur er/ trademark	Glow-wire flammability index (GWFI), °C				GW ignition temp. (GWIT), °C		Verdict
		550	650	750	850	675	775	

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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).....								N/A
The test specimen passed the test by virtue of most of the flaming material being withdrawn with the glow-wire (Yes/No)?								No
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)					P
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	
PCB	\	30	Not Ignition	0	P	
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						

Appendix 1: EU differences of EN 60335-2-40:2003 +A11:2004 +A12:2005 +A1:2006 +A2:2009 + A13:2012, EN 60335-1:2012 +A11:2014 +A13:2017 +A1:2019 +A14:2019 +A2:2019+A15:2021

	CENELEC COMMON MODIFICATIONS		
7.1	Single-phase appliances to be connected to the supply mains: 230 V covered	220-240V	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.	The on/stop button on control panel of indoor unit is in a different position with others.	P
	An indication that the device has been operated is given by:		P
	- a tactile feedback, or		P
	- an audible and visual feedback		P
	Delete the paragraphs starting with "Devices used to start/stop..." until the end of the requirement "...by vulnerable persons.". This includes Notes Z1 and Z2. (EN 60335-1:2012/A2:2019)		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
7.14	Delete Note Z1 (EN 60335-1:2012/A2:2019)		P
24.1	Replace the existing text by the following: (EN 60335-1:2012/A1:2019)		—
	Components shall comply with the safety requirements specified in the relevant EN standards as far as they reasonably apply		P
	Compliance with the EN standard for the relevant component does not necessarily ensure compliance with the requirements of this standard		P

Appendix 1: EU differences of EN 60335-2-40:2003 +A11:2004 +A12:2005 +A1:2006 +A2:2009 + A13:2012, EN 60335-1:2012 +A11:2014 +A13:2017 +A1:2019 +A14:2019 +A2:2019+A15:2021

	Motors are not required to comply with EN 60034-1. They are tested as part of the appliance according to this standard		P
	Relays shall be tested as part of the appliance according to this standard. They may be alternatively tested to EN 60730-1, in which case they shall also meet the additional requirements in EN 60335-1		P
	Unless otherwise specified, the requirements of Clause 29 of this standard apply between live parts of components and accessible parts of the appliance		P
	Unless otherwise specified, components may comply with the requirements for clearances and creepage distances for functional insulation as specified in the relevant component standard		P
	Unless otherwise specified, the requirements of 30.2 of this standard apply to parts of non-metallic material in components including parts of non-metallic material supporting current-carrying connections inside components		P
	Components that have not been previously tested and shown to comply with the EN standard for the relevant component are tested according to the requirements of 30.2 of this standard		P
	Components that have been previously tested and shown to comply with the resistance to fire requirements in the EN standard for the relevant component need not be retested provided that:		P
	— the severity specified in the component standard is not less than the severity specified in 30.2 of this standard, and		P
	— unless the pre-selection alternatives in 30.2 are used, the test report for the component states the values of t_e and t_i as required by EN 60695-2-11		P
	If the above two conditions are not satisfied, the component is tested as part of the appliance		P
	Power electronic converter circuits are not required to comply with EN 62477-1. They are tested as part of the appliance according to this standard		P
	Unless components have been previously tested and found to comply with the relevant EN standard for the number of cycles specified, they are tested in accordance with 24.1.1 to 24.1.9		P
	For components mentioned in 24.1.1 to 24.1.9, no additional tests specified in the relevant EN standard for the component are necessary other than those specified in 24.1.1 to 24.1.9		P
	Components that have not been separately tested and found to comply with the relevant EN standard and components that are not marked or not used in accordance with their marking, are tested in accordance with the conditions occurring in the appliance, the number of samples being that required by the relevant standard		P

Appendix 1: EU differences of EN 60335-2-40:2003 +A11:2004 +A12:2005 +A1:2006 +A2:2009 + A13:2012, EN 60335-1:2012 +A11:2014 +A13:2017 +A1:2019 +A14:2019 +A2:2019+A15:2021

	Lamp-holders and starter-holders that have not been previously tested and found to comply with the relevant EN standard are tested as a part of the appliance and shall additionally comply with the gauging and interchangeability requirements of the relevant EN standard under the conditions occurring in the appliance. Where the relevant EN standard specifies these gauging and interchangeability requirements at elevated temperatures, the temperatures measured during the tests of Clause 11 are used	No lampholder or starterholder	N/A
	There are no additional tests specified for nationally standardized plugs such as those detailed in IEC/TR 60083 or connectors complying with the standard sheets of EN 60320-1 and EN 60309, unless they are specifically mentioned in the text of this standard	No plug	N/A
	Plugs and socket-outlets and other connecting devices of interconnection cords shall not be interchangeable with plugs and socket-outlets listed in IEC/TR 60083 or IEC 60906-1 or with connectors and appliance inlets complying with the standard sheets of EN 60320-1, if direct supply to these parts from the supply mains could give rise to a hazard		N/A
	NOTE Z3 For details of plugs used in CENELEC countries listed in IEC TR 60083 see Annex ZH. (EN 60335-1:2012/A14:2019)		N/A
	When an EN standard does not exist for a component, there are no additional tests specified		P
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	No motor capacitor	N/A
	Replacement: (EN 60335-1:2012/A2:2019)		—
	Type S2 and S3 capacitors according to EN 60252-1 are not required to undergo the testing as required by 30.2.2 and 30.2.3.1.		N/A

*** End of test report ***